2019 OHBM ROMA 25 years

25TH ANNUAL MEETING OF THE
ORGANIZATION FOR HUMAN BRAIN MAPPING

POSTER LISTINGS

June 9-13, 2019

AUDITORIUM PARCO DELLA MUSICA | ROME

Poster Listings

Poster Category Key
Poster Numbers by Category/Sub-category 3

Monday Posters 5

Tuesday Posters 63

Wednesday Posters 120

Thursday Posters 181

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POSTER CATEGORY KEY

Poster Numbers now begin letter (M,T,W,TH) which indicates what day you will present

- Display Days: Your poster should be displayed on your assigned poster board **for that day only**.
- Set-Up Time: Please set-up your poster from 8:00 – 9:00 am on the day of your assigned presentation. **Posters placed before this time, will be removed.**
- Poster Stand-By Times:
  - Odd numbered posters will present from 12.45 – 13.45.
  - Even numbered posters will present from 13.45 – 14.45.
- There will be a Poster Reception each evening:
  Monday, June 10: 18.30 – 19.30
  Tuesday, June 11: 17.00 – 18.00
  Wednesday, June 12: 18.15 – 19.15
  Thursday, June 13: 16.00 – 17.00

You may stand by your poster during this time.

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MONDAY POSTER CATEGORIES

Disorders of the Nervous System: Autism (M001-M060), Research Domain Criteria studies (RDoC) (M061-M064), Schizophrenia and Psychotic Disorders (M065-M155), Sleep Disorders (M156-M159), Stroke (M160-M210), Traumatic Brain Injury (M211-M246)

Emotion and Motivation: Emotion and Motivation Other (M247-M278), Emotional Learning (M279-M285), Emotional Perception (M286-M321), Reward and Punishment (M322-M339), Sexual Behavior (M340-M346)

Imaging Methods: MEG (M347-M400), MR Spectroscopy (M401-M414)

Modeling and Analysis Methods: Classification and Predictive Modeling (M415-M527), fMRI Connectivity and Network Modeling (M528-M774), Methods Development (M775-M871), Multivariate modeling (M872-M897)

TUESDAY POSTER CATEGORIES

Disorders of the Nervous System: Anxiety Disorders (T001-T015), Eating Disorders (T016-T027), Medical illness with CNS impact (e.g. chemotherapy, diabetes, hypertension) (T028-T043, Obsessive-Compulsive Disorder and Tourette Syndrome (T044-T055), Other Psychiatric Disorders (T056-T079)

Imaging Methods: Anatomical MRI (T080-T168), Diffusion MRI (T169-T233)

Language: Language Acquisition (T234-T243), Language Comprehension and Semantics (T244-T278), Language Other (T279-T284), Reading and Writing (T285-T317), Speech Perception (T318-T347)

Lifespan Development: Aging (T348-T430), Lifespan Development Other (T431-T453), Normal Brain Development: Fetus to Adolescence (T454-T537)

Modeling and Analysis Methods: Bayesian Modeling (T538-T550), Segmentation and Parcellation (T551-T597), Task-Independent and Resting-State Analysis (T598-T651)

Perception and Attention: Attention: Auditory/Tactile/Motor (T652-T565), Attention: Visual (T566-T694), Chemical Senses: Olfaction, Taste (T695-T698), Consciousness and Awareness (T699-T730), Perception and Attention Other (T731-T734), Perception: Auditory/ Vestibular (T735-T757), Perception: Multisensory and Crossmodal (T758-T769), Perception: Pain and Visceral (T770-T805), Perception: Tactile/Somatosensory (T806-T818), Perception: Visual (T819-T881), Perception: Sleep and Wakefulness (T882-898)

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WEDNESDAY POSTER CATEGORIES

Disorders of the Nervous System: Addictions (W001-W048), Alzheimer's Disease and Other Dementias (W049-W160), Epilepsy (W161-W208, Parkinson's Disease and Movement Disorders (W209-W278)

Genetics: Genetic Association Studies (W279-W297), Genetic Modeling and Analysis Methods (W298-W305), Genetics Other (W306-W311), Neurogenetic Syndromes (W312-W320), Transcriptomics (W321-W328)

Imaging Methods: BOLD fMRI (W329-W507), Multi-Modal Imaging (W508-W542)

Informatics: Brain Atlases (W543-W573), Databasing and Data Sharing (W574-W595), Informatics Other (W596-W609), Workflows (W610-W638)

Learning and Memory: Implicit Memory (W639-W640), Learning and Memory Other (W641-W562), Long-Term Memory (Episodic and Semantic) (W563-W687), Neural Plasticity and Recovery of Function (W688-W711), Skill Learning (W712-722), Working Memory (W723-W757)

Modeling and Analysis Methods: Diffusion MRI Modeling and Analysis (W758-W811), EEG/MEG Modeling and Analysis (W812-W863)

Physiology, Metabolism and Neurotransmission: Cerebral Metabolism and Hemodynamics (W864-W881), Neurophysiology of Imaging Signals (W882-W893), Pharmacology and Neurotransmission (W894-W902), Physiology, Metabolism and Neurotransmission Other (W903-W906)

THURSDAY POSTER CATEGORIES

Brain Stimulation Methods: Deep Brain Stimulation (Th001-Th007), Direct Electrical/Optogenetic Stimulation (Th008-Th012), Invasive Stimulation Methods Other (Th013-Th015), Non-invasive Electrical/tDCS/tACS/tRNS (Th016-Th037), Non-invasive Magnetic/TMS (Th038-Th060), Non-Invasive Stimulation Methods Other (Th061-Th071), Sonic/Ultrasound (Th072-Th074), TDCS (Th075-Th094), TMS (Th095-Th120)

Disorders of the Nervous System: Bipolar Disorder (Th121-Th131), Depressive Disorders (Th132-Th201), Disorders of the Nervous System Other (Th202-Th255)

Higher Cognitive Functions: Decision Making (Th256-Th294), Executive Function (Th295-Th334), Higher Cognitive Functions Other (Th335-Th359), Imagery (Th360-Th367), Music (Th368-Th393), Reasoning and Problem Solving, Space (Th394-Th396), Time and Number Coding (Th397-Th413)

Imaging Methods: EEG (Th414-Th482), Imaging Methods Other (Th483-Th496), Imaging of CLARITY (Th497-Th498), NIRS (Th499-Th527), Non-BOLD fMRI (Th528-Th537), Optical coherence tomography (OCT) (Th538), PET (Th539-Th548), Polarized light imaging (PLI) (Th549)

Modeling and Analysis Methods: Exploratory Modeling and Artifact Removal (Th550-Th555), Image Registration and Computational Anatomy (Th556-Th569), Motion Correction and Preprocessing (Th570-Th587), Other Methods (Th588-Th593), PET Modeling and Analysis (Th594-Th595), Univariate Modeling (Th596-Th601)

Motor Behavior: Brain Machine Interface (Th602-Th610), Mirror System (Th611-Th619), Motor Behavior Other (Th620-Th627), Motor Planning and Execution (Th628-Th647), Visuo-Motor Functions (Th648-Th657)

Neuroanatomy: Anatomy and Functional Systems (Th658-Th670), Cortical Anatomy and Brain Mapping (Th671-Th706), Cortical Cyto- and Myeloarchitecture (Th707-Th713), Normal Development (Th714-Th723), Subcortical Structures (Th724-Th742), Transmitter Receptors (Th743-Th746), White Matter Anatomy, Fiber Pathways and Connectivity (Th747-Th805)

Social Neuroscience: Self Processes (Th806-Th819), Social Cognition (Th820-Th854), Social Interaction (Th855-Th886), Social Neuroscience Other (Th887-Th905)

DISORDERS OF THE NERVOUS SYSTEM

Autism

M001 Cortical surface architecture endophenotype and correlates of clinical diagnosis of autism spectrum

Bun Yamagata[1], Takashi Itahashi[2], Junya Fujino[3], Haruhisa Ohta[3], Osamu Takashio[3], Motoaki Nakamura[3], Nobumasa Kato[3], Masaru Mimura[1], Ryu-ichiro Hashimoto[3], Yuta Aoki[3]
[1]Keio University, Tokyo, Japan, [2]Showa University, Tokyo, Tokyo, [3]Showa University, Tokyo, Japan

M002 Machine Learning Guided Neurofunctional Markers for High-Functioning Autism Spectrum Disorder

Sheeba Arnold Anteraper[1,2], Kaustubh Patil[3,4], Xavier Guell[2,5], Gagan Joshi[2,6]
[1]Northeastern University, Boston, MA, United States, [2]Massachusetts General Hospital, Boston, MA, United States, [3]Research Centre Jülich, Jülich, Germany, [4]Heinrich-Heine University, Düsseldorf, Germany, [5]Massachusetts Institute of Technology, Cambridge, MA, United States, [6]Harvard Medical School, Boston, MA, United States

M003 A mechanistic link between deficient synaptic pruning and functional hyper-connectivity in autism

Marco Pagani[1], Alice Bertero[1], Alessia De Felice[1], Kaustubh Supekar[2], Stavros Trakoshis[3], Alberto Galbusera[1], Michael Lombardo[3], Vinod Menon[2], Massimo Pasqualetti[4], Alessandro Gozzi[1]
[1]Functional Neuroimaging Laboratory, CNCS, Istituto Italiano di Tecnologia, Rovereto, Italy, [2]Stanford University, Stanford, CA, United States, [3]Laboratory for Autism and Neurodevelopmental Disorders, University of Cyprus, Cyprus, Cyprus, [4]Department of Biology, Unit of Cell and Developmental Biology, University of Pisa, Pisa, Italy

M004 Network differences during an n-back working memory task in adults with autism spectrum disorder

Veronica Yuk[1,2], Benjamin Dunkley[1,2], Evdokia Anagnostou[3,2], Margot Taylor[1,2]
[1]Hospital for Sick Children, Toronto, Ontario, Canada, [2]University of Toronto, Toronto, Ontario, Canada, [3]Holland Bloorview Kids Rehabilitation Hospital, Toronto, Ontario, Canada

M005 Atypical Scaling Between the Inner and Outer Curvature of the Brain in Autism Spectrum Disorder

Tim Schäfer[1], Caroline Mann[1], Anke Bletsch[1], Eva Loth[2], Declan Murphy[2], Jan Buitelaar[3], Tony Charman[2], Tobias Banaschewski[4], Simon Baron-Cohen[5], Sven Bölte[6], Sarah Durston[7], EU-AIMS LEAP consortium[8], Christine Ecker[2]
[1]Department of Child and Adolescent Psychiatry, University Hospital Frankfurt, Goethe University, Frankfurt am Main, Germany, [2]Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, [3]Donders Institute for Brain Cognition and Behavior, Donders Centre for Cognitive Neuroimaging, Nijmegen, Netherlands, [4]Child and Adolescent Psychiatry, Medical Faculty Mannheim, University of Heidelberg, Mannheim, Germany, [5]Autism Research Centre, Department of Psychiatry, University of Cambridge, London, United Kingdom, [6]Center for Neurodevelopmental Disorders (KIND), Center for Psychiatry Research, Stockholm, Sweden, [7]Department of Psychiatry, Brain Center Rudolf Magnus, University Medical Center Utrecht, Utrecht, Netherlands, [8]EUAIMS, London, United Kingdom

M006 Event-related Spectral Perturbations of Auditory Distractor Processing in Adults with Autism

Debra Karhson[1]
[1]Stanford University, Stanford, CA, United States

M007 Do Schizophrenia and Autism Spectrum Disorder Share the Same Root? A Neuroimage Evidence

Yuhui Du[1,2], Zening Fu[2], Dongdong Lin[2], Godfrey Pearlson[3], Peter Kochunov[4], Mustafa Salman[2,5], Md Abdur Rahaman[2,5], Anees Abrol[2,5], Vince Calhoun[2,5]
[1]School of Computer & Information Technology, Shanxi University, Taiyuan, China, [2]The Mind Research Network, Albuquerque, NM, United States, [3]Departments of Psychiatry, Yale University, New Haven, CT, United States, [4]University of Maryland Center for Brain Imaging Research, MD, United States, [5]Department of Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM, United States

M008 Cortical Gyrification in Individuals with Autism Spectrum Disorder and 22q11.2 Deletion Syndrome

Caroline Mann[1], Maria Gudbrandsen[2], Anke Bletsch[1], Eileen Daly[2], Clodagh Murphy[2], Rob Wichers[2], Vladimira Stoencheva[2], Emily Perry[2], Derek Andrews[3], Charlotte Blackmore[2], Maria Rogdaki[4], Leila Kushan[5], Carrie Bearden[5], Declan Murphy[2], Michael Craig[2,6], Christine Ecker[1,2]
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M009 Searching for Multimodal Neuromarkers of Social Deficits in Autism: A Replication Study

Zening Fu[1], Jiayu Chen[1], Yuhui Du[2], Jing Sui[3], Vince Calhoun[4]
[1]The Mind Research Network, Albuquerque, NM, United States, [2]Shanxi University, Taiyuan, China, [3]Institute of Automation, Chinese Academy of Sciences, Beijing, China, [4]The Mind Research Network University of New Mexico, Albuquerque, NM, United States

M010 OXTR polygenic risk for ASDs impacts right posterior insula volume in two healthy young cohorts

Junping Wang[1], Wen Qin[1], Jiayuan Xu[1], Qiang Xu[1], Zhaoxiang Ye[2], Chunshui Yu[1], Feng Liu[1]
[1]Tianjin Medical University General Hospital, Tianjin, China, [2]Tianjin Medical University Cancer Hospital, Tianjin, China

M011* Neuroanatomical underpinnings of ASD-symptomatology in 22q11.2 deletion syndrome and idiopathic ASD

Anke Bletsch[1], Maria Gudbrandsen[2], Caroline Mann[1], Eileen Daly[2], Clodagh Murphy[2], Rob Wichers[2], Vladimira Stoencheva[2], Emily Perry[2], Derek Andrews[3], Charlotte Blackmore[2], Maria Rogdaki[4], Leila Kushan[5], Carrie Bearden[5], Declan Murphy[2], Michael Craig[2,6], Christine Ecker[1,2]
[1]Child and Adolescent Psychiatry, University Hospital, Frankfurt am Main, Germany, [2]Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, United Kingdom, [3]MIND Institute and Department of Psychiatry and Behavioral Sciences, UC Davis, Sacramento, CA, United States, [4]Psychiatric Imaging Group, MRC London Institute of Medical Sciences, Imperial College, London, United Kingdom, [5]Semel Institute for Neuroscience and Human Behavior, UCLA, Los Angeles, CA, United States, [6]National Autism Unit, Bethlem Royal Hospital, London, London, United Kingdom

M012 Atypical brain correlates of automatic change-detection in facial expression in Autism

Marie Gomot[1], Klara Kovarski[1], Monika Szymanska[1], Sylvie Roux[1], Emmanuelle Houy-Durand[1], Magali Batty[1], Frédérique Bonnet-Brilhault[1]
[1]UMR1253 INSERM, Université de Tours, Tours, France

M013 Superior temporal sulcus rest functional abnormality in children with autism: an MRI-ASL study

Ana Saitovitch[1], Elza Rechtman[1], Hervé Lemaître[2], Jean-Marc Tacchella[1], Alice Vinçon-Leite[1], Elise Douard[3], Raphael Calmon[1], Anne Philippe[4], Nadia Chabane[5], David Grévent[1], Francis Brunelle[1], Nathalie Boddaert[1], Monica Zilbovicius[1]
[1]Inserm U1000, Institut Imagine, Paris, France, [2]Hôpital Necker, Paris, France, [3]University of Montreal, Montreal, Quebec, [4]Institut Imagine, Paris, France, [5]Inserm U1000, Centre Cantonal Autisme CHUV, lausanne, Switzerland

M014 Gaze perception, superior temporal sulcus and autism: an rTMS study

Ana Saitovitch[1], Jean-Charles Lamy[2], Elza Rechtman[1], Traian Popa[2], Nadia Chabane[3], Anne Philippe[4], Frédérique Bonnet-Brilhault[5], Gilles Martinez[6], Hervé Lemaître[1], David Grévent[1], Raphael Calmon[1], Francis Brunelle[1], Nathalie Boddaert[1], Monica Zilbovicius[1]
[1]Inserm U1000, Institut Imagine, Paris, France, [2]Centre de Neuro-imagerie de Recherche (CENIR), Centre de Recherche de l'Institut du Cerveau et de la, Paris, France, [3]Inserm U1000, Centre Cantonal Autisme CHUV, lausanne, Switzerland, [4]Institut Imagine, Paris, France, [5]Centre Universitaire de Pédopsychiatrie de Tours, CHU, Tours, France, [6]Centre Hospitalier Sainte-Anne, Paris, France

M015 Altered structural brain asymmetry in autism spectrum disorder: analysis via the ENIGMA Consortium

Merel Postema[1], Daan van Rooij[2], ENIGMA ASD Working Group[2], Paul Thompson[3], Simon Fisher[1], Jan Buitelaar[2], Clyde Francks[1]
[1]Language and Genetics Department, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands, [2]Department of Cognitive Neuroscience, DI-BCC, Donders Centre for Cognitive Neuroimaging, Radboudumc, Nijmegen, Netherlands, [3]Imaging Genetics Center, Stevens Neuroimaging & Informatics Institute, Keck, USC, Marina del Rey, CA, United States

M016 BOLD signal variability and complexity in youth with and without autism spectrum disorder

Amanda Easson[1], Anthony McIntosh[2]
[1]University of Toronto, Toronto, Ontario, Canada, [2]Baycrest Health Sciences, Toronto, Ontario, Canada

M017 A Longitudinal MRI Study of Amygdala and Hippocampal Subfields for Infants with Risk of ASD

Guannan Li[1,2], Meng-Hsiang Chen[3], Kim-Han Thung[2], Di Wu[4], Quansen Sun[1], Dinggang Shen[2], Li Wang[2]
[1]School of Computer Science and Engineering, Nanjing University of Science and Technology, Nanjing, China, [2]Department of Radiology and Biomedical Research Imaging Center, Chapel Hill, NC, United States, [3]Department of Diagnostic Radiology, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, [4]Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

M018 Autism Spectrum Disorder Symptoms are Associated with Altered Whole-Brain Functional Connectivity

Kristina Legget[1], Korey Wylie[2], Jason Tregellas[2]
[1]University of Colorado School of Medicine, Denver, CO, United States, [2]University of Colorado School of Medicine, Aurora, CO, United States

M019 Cortical correlates of polygenic risk for autism spectrum disorders

Budhachandra Khundrakpam[1], Uku Vainik[1], Jinnan Gong[1], Gregory Kiar[1], Noor Al-Sharif[1], Yashar Zeighami[1], Alain Dagher[1], Alan Evans[1]
[1]Montreal Neurological Institute, McGill University, Montreal, Quebec, Canada

M020 Multidimensional Approaches in the Study of Autistic-Like Traits using Behavioral and Imaging Data

Angeline Mihailov[1], Cathy Philippe[1], Vincent Guillemot[2], Antoine Grigis[1], Charles Laidi[1], Camille Piguet[1], Hervé Abdi[3], Josselin Houenou[1], Vincent Frouin[1]
[1]Neurospin CEA, Saclay, France, Gif-sur-Yvette, France, [2]Pasteur Institute, Paris, France, [3]University of Texas at Dallas, Dallas, TX, United States

M021 Endogenous BOLD Signal Complexity of vmPFC is Different Between Autistic Men and Women

Stavros Trakoshis[1], Wonsang You[2], Simon Baron-Cohen[3], Bhismadev Chakrabarti[4], Amber Ruigrok[5], Ed Bullmore[5], John Suckling[5], Meng-Chuan Lai[6], Michael Lombardo[1]
[1]University of Cyprus, Nicosia, Cyprus, [2]Children's National Medical Center, Washington, DC, United States, [3]Autism Research Centre, Department of Psychiatry, University of Cambridge, London, United Kingdom, [4]University of Reading, Reading, United Kingdom, [5]University of Cambridge, Cambridge, United Kingdom, [6]The Hospital for Sick Children, Toronto, Ontario, Canada

M022 Effects of Gender on Within- and Between-Network Functional Connectivity in Youth with ASD

Katherine Lawrence[1], Leanna Hernandez[1], Namita Padgaonkar[1], Shulamite Green[1], Hilary Bowman[1], Susan Bookheimer[1], Mirella Dapretto[1]
[1]University of California, Los Angeles, Los Angeles, CA, United States

M023 Relationship between Visual Short-term Memory and Corpus Callosum in Autism Spectrum Disorder

Yutaka Matsuzaki[1], Susumu Yokota[2], Teruo Hashimoto[1], Yasuyuki Taki[3,4], Ryuta Kawashima[1,5]
[1]Division of Developmental Cognitive Neuroscience, IDAC, Tohoku University, Sendai, Japan, [2]Faculty of Arts and Science, Kyushu University, Fukuoka, Japan, [3]Department of Radiology and Nuclear Medicine, IDAC, Tohoku University, Sendai, Japan, [4]Division of Medical Neuroimaging Analysis, Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan, [5]Department of Functional Brain Imaging, IDAC, Tohoku University, Sendai, Japan

M024 Deviated Brain Maturity in Intrinsic Functional Architecture in Autism Spectrum Disorder

Yapei Xie[1,2,3], Xuhong Liao[4], Zhilei Xu[1,2,3], Xiaojing Shou[1,2,3], Yong He[1,2,3]
[1]State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China, [2]Beijing Key Laboratory of Brain Imaging and Connectomics, Beijing Normal University, Beijing, China, [3]IDG/McGovern Institute for Brain Research, Beijing Normal University, Beijing, China, [4]School of Systems Science, Beijing Normal University, Beijing, China

M025 Accelerated decline of homotopic sensorimotor connections in older adults with ASDs

Janice Hau[1], Jiwandeep Kohli[1], Chris Fong[1], Annika Linke[1], Mikaela Kinnear[1], Alan Lincoln[2], Ruth Carper[1], Ralph-Axel Müller[1]
[1]Brain Development Imaging Lab, San Diego State University, San Diego, CA, United States, [2]Alliant International University, San Diego, CA, United States

M026 Oxytocin therapy for Autism: Long-term change in social brain activity after multiple-dose treatment

Sylvie Bernaerts[1,2], Bart Boets[1,2], Jean Steyaert[1,2], Kaat Alaerts[1,2]
[1]KU Leuven, Leuven, Belgium, [2]Leuven Autism Research Consortium, Leuven, Belgium

M027 Brain asymmetry stratifies males and females with ASD with different language history profiles

Dorothea Floris[1,2,3], Thomas Wolfers[1,2,3], Alberto Llera Arenas[4,2,3], EU-AIMS LEAP consortium[5], Jan Buitelaar[1,2,6], Christian Beckmann[1,2,3,7]
[1]Donders Institute for Brain Cognition and Behavior, Donders Centre for Cognitive Neuroimaging, Nijmegen, Netherlands, [2]Department of Cognitive Neuroscience, Radboud University Medical Center, Nijmegen, Netherlands, [3]Donders Institute for Brain, Cognition and Behaviour, Centre for Neuroscience, Nijmegen, Netherlands, [4]Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, Netherlands, [5]EUAIMS, London, United Kingdom, [6]Karakter Child and Adolescent Psychiatry University Centre, Nijmegen, Netherlands, [7]Centre for Functional MRI of the Brain (FMRIB), University of Oxford, Oxford, United Kingdom

M028 The relationship among polymorphism of NRXN1, EQ-SQ score and brain structure in healthy adults

Yuka Shiota[1], Izumi Matsudaira[1], Hikaru Takeuchi[2], Chiaki Ono[3], Hiroaki Tomita[3], Ryuta Kawashima[2,4], Yasuyuki Taki[1,2,4,5]
[1]Department of Nuclear Medicine & Radiology, Institute of Development, Aging, and Cancer, Tohoku Univ, Sendai, Japan, [2]Division of Developmental Cognitive Neuroscience, Institute of Development, Aging, and Cancer, Tohok, Sendai, Japan, [3]Department of Disaster Psychiatry, International Research Institute of Disaster Science, Tohoku Univ, Sendai, Japan, [4]Smart-Aging Research Center, IDAC, Tohoku University, Sendai, Japan, [5]Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan

M029 A Diffusion Weighted Imaging Study of Autism Spectrum Disorder in Preschool-Aged Children

Derek Andrews[1], Joshua Lee[1], Marjorie Solomon[1], Sally Rogers[1], David Amaral[1], Christine Wu Nordahl[1]
[1]UC Davis MIND Institute, Sacramento, CA, United States

M030 Altered structural covariance within functional networks in Autism Spectrum Disorders (ASD)

Nada Kojovic[1], John Kochalka[2], Elisa Scariati[1], Vinod Menon[3], Marie Schaer[1]
[1]Developmental Imaging and Psychopathology Laboratory, University of Geneva, Geneva, Switzerland, [2]Stanford Cognitive and Systems Neuroscience Laboratory, Palo Alto, CA, United States, [3]Stanford University, Palo Alto, CA, United States

M031 Effect of Sex on Brain Regional Homogeneity in Autism Spectrum Disorder

Nataliia Kozhemiako[1], Adonay Nunes[1], Vasily Vakorin[1], Urs Ribary[1], Sam Doesburg[1]
[1]Simon Fraser University, Vancouver, BC, Canada

M032* Thalamic GABA:Glu Ratio is Related to Thalamic Connectivity and Sensory Over-Responsivity in ASD

Emily Wood[1], Kaitlin Cummings[1], Joseph O'Neill[1], Jia Guo[2], Mirella Dapretto[1], Susan Bookheimer[1], Shulamite Green[1]
[1]University of California, Los Angeles, Los Angeles, CA, United States, [2]Columbia University, New York, NY, United States

M033 Motor Skills and the Action Observation Network in Children with ASD and DCD

Emily Kilroy[1], Christiana Butera[1], Laura Harrison[1], AJ Jayashankar[1], Priscilla Ring[1], Ryann MacMurdo[1], Sharon Cermak[1], Lisa Aziz-Zadeh[1]
[1]University of Southern California, Los Angeles, CA, United States

M034 Development of Connectivity Profiles of Sensorimotor Regions in Autism Spectrum Disorder

Myrthe Faber[1,2], Christina Isakoglou[1,2], Thomas Wolfers[1,2], Dorothea Floris[1,2], Erik van Oort[1,2], Marianne Oldehinkel[3], Maarten Mennes[1], Jan Buitelaar[1,2,4], Christian Beckmann[1,2,5]
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M035 The Autism Mouse Brain Connectome project

Valerio Zerbi[1], Marija Markicevic[2], Marco Pagani[3], Markus Rudin[4], Michela Matteoli[5], Michela Fagiolini[6], Yuri Bozzi[7], Giovanni Provenzano[8], Abhishek Banerjee[9], Jacob Ellegood[10], Jason Lerch[11], Alessandro Gozzi[3], Nicole Wenderoth[12]
[1]ETH Zürich, Zürich, Switzerland, [2]ETH Zurich, Zurich, Switzerland, [3]Istituto Italiano di Tecnologia, Rovereto, Italy, [4]ETH Zurich, Zurich, [5]Humanitas Clinical and Research Center, Milan, Italy, [6]Children's Hospital Boston Harvard, Boston, MA, United States, [7]Center for Mind/Brain Sci. (CIMeC), Rovereto, Italy, [8]Ctr. for Integrative Biol. (CIBIO), Univ. of Trento, Trento, Italy, [9]University of Zurich, Zurich, [10]Mouse Imaging Ctr., Hosp. For Sick Children, Toronto, Ontario, Canada, [11]University of Toronto, Toronto, Ontario, Canada, [12]ETH Zurich, Neural Control of Movement Laboratory, Zürich, Switzerland

M036 Developmental changes in the neural correlates of visual perspective taking in autism

Yi-Jui Li[1], Susan Shur-Fen Gau[1,2,3], Tai-Li Chou[1,3]
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M037 Alexithymia and Neural Activity of Empathy Networks in Children with ASD During Observation of Faces

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M038 Regulation of personal space by social interactions in adults with autism: an fMRI study

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M039 Communicative Intention in Autism Spectrum Disorder: an fMRI Study

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M040 Resting-state connectivity biomarkers define neuropsychological severity of high-functioning autism

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M041 Increased Functional Connectivity Within the Default Mode Network in Autism Spectrum Disorder

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M042 Comparative Meta-analyses of VBM and fMRI Studies of Cognitive Control in ADHD and Autism
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M043 Neural representations of facial identity and emotion in young adults with and without ASD
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M044 A reproducible functional subnetwork underlying individual differences in autism symptom severity
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M045 Oscillatory activity associated with altered anticipatory motor control in Autism Spectrum Disorders
Florence Brun[1], Fanny Barlaam[2], Anaëlle Bain[1], Marignier Stephanie[3], Judith Vergne[1], Nathalie Touil[4], Alice Roy[5], Sebastien Daligault[6], Claude Delpuech[6], Karim Jerbi[7], Sandrine Sonie[8], Christina Schmitz[1]
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M046 Resting-State Functional Connectivity of Sensory Networks in Children with Autism Spectrum Disorder
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M047 Intrapair variation in monozygotic twin structural connectivity in Autism Spectrum Disorders
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M048 Microstructural white matter alterations in the adult Autism patients with depressive symptoms
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M049 Statistical Analysis of Sex in Autism Spectrum Disorder Using Canonical Correlation
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M050 Association of regional brain volumes with autistic traits across the diagnostic divide: A VBM study
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M051 Focal Abnormalities of Cortical Thickness in Adults with Autism Spectrum Disorders (ASDs)
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M052 Processing social interaction recruits low frontal but high striatal connectivity in autism
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M053 Functional brain organization of an individual allows prediction of social abilities in ASD & ADHD
Evelyn Lake[1], Emily Finn[2], Stephanie Noble[1], Tamara Vanderwal[3], Xilin Shen[4], Monica Rosenberg[1], Marisa Spann[5], Marvin Chun[6], Dustin Scheinost[1], R. Todd Constable[7]
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M054 Neural mechanisms of auditory social attention in youth with autism
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M055 MRI markers of imbalanced cognitive profiles in autism
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M056 Autism moderates the relationship between disturbed sleep and DMN functional connectivity
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M057 Morphological subtypes in autism and attention-deficit/hyperactivity disorder
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M058 Atypical cortico-striatal resting state connectivity in high-functioning autism
Bin Lu[1,2], Zeng-Hui Ma[3], Chao-Gan Yan[1], Jing Liu[3]
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M059 Aberrant brain circuit dynamics associated with distinct restricted/repetitive behaviors in autism
Kaustubh Supekar[1], Srikanth Ryali[1], Percy Mistry[1], Vinod Menon[1]
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M060 Altered Resting-State Functional Connectivity of Brain Network in Asperger Syndrome
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Research Domain Criteria studies (RDoC)

M061 Impulsivity and compulsivity correlate with effective connectivity in corticostriatal circuitry
Linden Parkes[1], Jeggan Tiego[1], Kevin Aquino[1], Leah Braganza[1], Samuel Chamberlain[2], Leonardo Fontenelle[3], Ben Harrison[4], Valentina Lorenzetti[5], Bryan Paton[6], Adeel Razi[1], Alex Fornito[1], Murat Yücel[1]
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M062 Psychopathology latent factor associations to fMRI response are sensitive to modeling approach
Francisco Meyer[1], Kendra Hinton[1], Victoria Villalta-Gil[1], Leah Frazier[1], Bennett Landman[1], Benjamin Lahey[2], David Zald[1]
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M063 Higher striatal and salience network integration underlies disinhibition in a transdiagnostic sample
Xiaozhen You[1,2], Junaid Merchant[1], Kathryn Flaharty[1], Joseph Cherry[1], Mary Skapek[2], Meredith Powers[2], Rachael Clinton[2], Charlotte Jeppsen[2], Srishti Rau[2], Yetta Myrick[2], Keri Rosch[3], Mary Beth Nebel[3], Stewart Mostofsky[3], Madison Berl[2], Lauren Kenworthy[2], Chandan Vaidya[1,2]
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M064 Aberrant Habenula Connectivity in Adolescent Mental Illness
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Schizophrenia and Psychotic Disorders

M065 Patterns of Schizophrenia Symptoms: Hidden Structure in the PANSS Questionnaire
Jeremy Lefort-Besnard[1], Gaël Gaël Varoquaux[2], Birgit Derntl[3], Oliver Gruber[4], Andre Aleman[5], Renaud Jardri[6], Iris Sommer[7], Bertrand Thirion[2], Danilo Bzdok[8]
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M066 Predict treatment response in early schizophrenia by machine learning using white matter integrity
Wei-Chia Lu[1], Chih-Min Liu[2,3], Tzung-Jeng Hwang[2,3], Hai-Gwo Hwu[2,3], Yung-Chin Hsu[4], Wen-Yih Tseng[1,3,5]
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M067 Brain state transitions in healthy controls and chromosome 22q deletion syndrome
Eli Cornblath[1], Arian Ashourvan[1], Jason Kim[2], Richard Betzel[3], Rastko Ciric[1], Graham Baum[2], Xiaosong He[1], Kosha Ruparel[1], Tyler Moore[1], Ruben Gur[1], Raquel Gur[1], Russell Shinohara[2], Theodore Satterthwaite[1], David Roalf[2], Danielle Bassett[1]
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M068 Somatosensory-Motor Dysconnectivity Spans Multiple Transdiagnostic Dimensions of Psychopathology
Valeria Kebets[1], Avram Holmes[2], Csaba Orban[1], Siyi Tang[1], Jingwei Li[1], Nanbo Sun[1], Ru Kong[1], Russell Poldrack[3], B. T. Thomas Yeo[1]
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M069 Natural viewing reveals insular dysfunction in first-episode schizophrenia
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M070 Abnormal morphometric similarity in psychosis is associated with schizophrenia related genes

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M071 Using ROI functional connectivity during attention to classify schizophrenia and its familial risk

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M072 EEG microstates and the schizophrenia spectrum: evidence for compensation mechanisms

Janir Ramos da Cruz[1,2], Ophélie Favrod[1], Maya Roinishvili[3,4], Eka Chkonia[4,5], Andreas Brand[1], Christine Mohr[6], Patrícia Figueiredo[2], Michael Herzog[1]
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M073 Grey matter patterns in First-Episode Psychosis

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M074 Exploring morphometric similarity networks in untreated first-episode psychosis

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M075 Neural correlates of cognition in early-onset schizophrenia: a meta-analysis

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M076* Spatial patterning of brain tissue volume deformation in schizophrenia reflects network architecture

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M077 Divergent developmental trajectories of hippocampal volume in patient with 22q11.2 deletion syndrome

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M078 Dynamics of brain networks provide measures of psychosis and anxiety in 22q11.2 deletion syndrome

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M079 Functional Network Connectivity Impairments and Core Cognitive Deficits in Schizophrenia

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M080 Working memory impairment in schizophrenia: a combined fMRI and 1H-MRS study

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M081 Comparison of two brain parcellations in functional-connectivity-based classification of psychosis

Johanna Weiske[1], Shalaila Haas[1,2], Anne Ruef[1], Linda Betz[1], Giulio Pergola[3], Nikolaos Koutsouleris[1], Lana Kambeitz-Ilankovic[1], Linda Antonucci[1,3]
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M082 Impact of second-generation antipsychotics on white matter structure in adolescent onset psychosis

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M083 Preliminary evidences for a functional biomarker of periodic catatonia

Jack Foucher[1], Clément de Billy[1], Ludovic Jeanjean[2], Alexandre Obrecht[1], Olivier Mainberger[1], Julie Clauss[3], Benoit Schorr[4], Paulo de Sousa[5], Julien Lamy[5], Vincent Noblet[5], Lionel Landré[5], Fabrice Berna[4]
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M084* Multimodal neuromarkers in schizophrenia via cognition-guided MRI fusion

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M085 Schizophrenia reduces intra- and inter-individual diversity of semantic representations in the brain

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M086 Contribution of obesity to subcortical structural differences seen in schizophrenia

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M087 Working Memory Encoding Deficits in Schizophrenia – an MEG Study of Event-Related Fields

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M088 Neurocognitive Correlates of Working Memory in Postpartum Psychosis

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M089 Inefficient Cerebral Recruitment in Schizophrenia: a 7T fMRI and MEG Study

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M090 Abnormal static and dynamic resting-state brain networks in auditory verbal hallucination

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M091 Fronto-Striatal-Thalamic Circuit and Cognition in a High-Risk Population to Develop Schizophrenia

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M092 Striatal Dopamine and Decreased Prediction Error Coding in Unmedicated Schizophrenia Patients

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M093 Genetic risk for schizophrenia is associated with reduced cerebellar volume

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M094 Multimodal analysis of the structural and functional connectivity in psychosis patients

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M095 Influence of prenatal maternal inflammation on neonatal neurodevelopment and communicative behaviour

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M096 Morphological brain correlates of at-risk mental state

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M097 Basal Ganglia Volumetric Changes in Psychotic Spectrum Disorders

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M098 Functional Connectivity of Corticostriatal Circuitry and Psychosis-Like Experiences

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M099 Psychiatric disorders associated with disrupted pallidum functional networks

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M100 Subcortical Brain Volumes in Schizotypy Assessed in a Worldwide ENIGMA Study

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M101 Psychomotricity and functional changes of sensorimotor system in schizophrenia and bipolar disorder

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M102 Progressive subcortical volume loss in treatment-resistant schizophrenia after commencing Clozapine

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M103* Brain networks in UKBiobank: polygenic risk for schizophrenia and psychotic-like experiences

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M104 Genetic Control of the Default Mode Network and Risk for Psychiatric Disorders

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M105 Resting-state functional MRI patterns predict severity of formal thought disorder in schizophrenia

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M106 Multimodal FDG, fractional anisotropy, dopamine receptor, and MRI imaging in schizophrenia

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M107 Electrophysiological and Cognitive Asymmetries Underlying Schizotypy

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M108 Associations between Apathy in Schizophrenia and Dynamic Connectivity during Affective Forecasting

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M109 ENIGMA Schizophrenia DTI findings: Replicating & Explaining Cognitive Deficit & Treatment Resistance

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M110 Brain responses to novelty, emotional and task-driven salience in first episode psychosis patients

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M111 Investigating the structural correlates of apathy within the psychosis continuum

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M112 Cytomegalovirus and Dentate Gyrus Volume in Patients With Psychotic and Bipolar Spectrum Disorders

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M113 Shining a new light on the dysconnectivity theory of schizophrenia : a resting-state MEG study

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M114* Characterizing Individual Variation in Neural Connectivity and Behavior in the Psychosis Spectrum

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M115 General and selective neural mechanisms of pain processing dysfunction in schizophrenia

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M116 Brain Network-based Biomarkers Revealed in Psychiatric Patients with Stabilized Conditions

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M117 Subsystems of default network in schizophrenia: a persistent abnormality from onset to chronic stage

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M118 Neuro-oscillatory Dysfunction during Stop-signal Response Inhibition in Schizophrenia Patients

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M119 Support Vector Machines Based Prediction of Schizophrenia Using Neuroimaging Features

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M120 Gray matter changes associated with sense of reality and theory of mind in first episode psychosis

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M121 Negative symptoms in schizophrenia as a deficit in goal management: an fMRI study

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M122 Single-trial EEG classification in early phase psychosis: an evidence-based guideline

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M123 Structural and functional brain alterations across the psychosis spectrum: a meta-analysis

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M124 Neuroimaging effect of aerobic exercise on cortical thickness in patients with schizophrenia

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M125 Machine learning and structural neuroimaging in first episode psychosis: reconsidering the evidence

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M126 Ideas of reference assessed by the IRIS scale and a virtual reality fMRI paradigm

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M127 Altered Cognition-related Structural Network Strength in First-episode Schizophrenia Patients

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M128 Functional disconnection within presence hallucination network in patients with first-rank symptoms

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M129 Using multivariate analysis to predict functional outcome in response to cognitive training

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M130 Persistent functional brain alterations during naturalistic stimulus after first episode psychosis

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M131 Local Dysconnectivity of brain functional network in First-Episode psychosis and 2 months follow-up

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M132 Grey matter trajectories in psychosis: preliminary results from PAFIP 10 years follow-up

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M133 The effect of second-generation antipsychotics on subcortical volumes in early psychosis

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M134 Effects of Hierarchical Prediction Errors on Effective Connectivity during Social Learning

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M135 Working memory in patients with a first-episode psychosis: a longitudinal fMRI study

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M136 Alpha power in visuospatial working memory reveals possible inhibitory deficit in schizophrenia

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M137 Altered Hippocampal Centrality of Coordinated Changes in Intracortical Microstructure in Psychosis

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M138 Alterations in brain morphology in non-help-seeking adolescents at ultra-high risk for psychosis

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M139 Exploring the Schizophrenia and Bipolar Disorder Continuum: a Morphometric and Psychological Study

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M140 Pre-stimulus theta oscillation predicts ERP amplitude modulation due to corollary discharge

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M141 Modulation by the dlPFC and Hippocampus during refractory periods of learning in schizophrenia

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M142 Differences in resting-state effective connectivity on core networks in first episode schizophrenia
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M143 Multivariate Pattern Analysis Reveals Structural Brain Network Abnormalities in Schizophrenia
Aristeidis Sotiras[1], Guray Erus[2], Monica Truelove-Hill[2], Antonia Kaczkurkin[3], Ganesh Chand[2], Chiharu Sako[2], Dominic Dwyer[4], Ruben Gur[3], Raquel Gur[3], Yong Fan[2], Theodore Satterthwaite[3], Nikolaos Koutsouleris[5], Daniel Wolf[3], Christos Davatzikos[6]
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M144 Simple models identify biological mechanisms of altered structural network in schizophrenia
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M145 Could N-acetylcysteine prevent schizophrenia onset? A preclinical study in the Poly I:C animal model
Marta Casquero-Veiga[1,2], Diego Romero-Miguel[1], Sonia Torres-Sánchez[3,2], Karina MacDowell[4,2,5], Ana Romero-Miranda[1], Joaquín Redondo-Castrejón[1], Esther Berrocoso[2,6,3], Juan Carlos Leza[7,2,5], Manuel Desco[8,1,2,9], Maria Luisa Soto-Montenegro[1,2]
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M146 Insular Cortex metabolic alterations in Schizophrenia Spectrum Disorders: Preliminary results
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M147 Dynamic Functional Connectivity of the Robotically-Induced Presence Hallucination
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M148 Reduced Functional Connectivity between Memory and Reward Circuits in Schizophrenia during Learning
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M149 Clinical High Risk for Psychosis Show Stable Global Functional and Nodal Structural Disconnectivity
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M150 Features of the cerebellar structures in schizophrenia and autism spectrum disorder
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M151 Predicting prodromal psychosis status using multimodal imaging data in at-risk individuals
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M152 Multimodal imaging of hippocampal dysfunction in psychosis reveals heterogeneity of brain function
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M153 The separation of self- and mother-representation in Chinese first-episode schizophrenia
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M154 Altered distribution and connectivity of verbal memory brain networks across stages of schizophrenia
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M155 Altered corpus callosum diffusion property associates with hallucination in first episode psychosis
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Sleep Disorders

M156 Changes in cerebellum and parietal cortex associated with obstructive sleep apnea
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M157 Functional brain alterations in acute sleep deprivation: An ALE meta-analysis
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M158 Patterns of cortical thickness in prodromal stage of synucleinopathies: a cluster analysis study
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M159 Sleep spindles characteristics in adults with Autism Spectrum Disorder and Typical Development
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Stroke

M160 How many different lesion sites can cause selective impairments in verbal short-term memory?
Sharon Geva[1], Teodros Truneh[1], Hayley Woodgate[1], Sophie Roberts[1], Kate Ledingham[1], Rachel Bruce[1], Shamima Khan[1], Megan Docksey[1], Storm Anderson[1], Mohamed Seghier[2,1], Thomas Hope[1], Jennifer Crinion[1], Alex Leff[1], Cathy Price[3]
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M161 Real Time fMRI with Novel MR-Compatible Robotic Device Assesses Neuroplasticity in Chronic Stroke
Shasha Li[1], Mark Ottensmeyer[1], Gianluca De Novi[1], Zeba Qadri[1], Loukas Astrakas[1], A. Aria Tzika[1]
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M162* Machine-learning predictions of stroke recovery using quantitative tractography-based connectivity
Chun-Hung Yeh[1], Xiaoyun Liang[1], Chia-Lin Koh[1], Leeanne Carey[1,2,3], Alan Connelly[1,2]
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M163 Real-time fMRI neurofeedback of laterality index from stroke patients: Preliminary study
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M164 Behavioural profiles & neural correlates of higher-level vision in posterior cerebral artery stroke
Grace Rice[1], Sheila Kerry[2], Ro Julia Robotham[3], Alex Leff[2], Matthew Lambon Ralph[1], Randi Starrfelt[3]
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M165 Common and modality-specific network localization of lesions causing hallucinations
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M166 Changes in motor planning after Constraint-Induced Movement Therapy in chronic hemiplegia
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M167 The Synchronization Lag in Post-stroke: Insights into Motor Function and Structural Connectivity
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M168 Increased intrinsic connectivity for structural atrophy and functional maintenance after stroke
Yiru Yang[1], Yaojing Chen[1], Shudan Gao[1], Zhanjun Zhang[1]
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M169 Transcallosal structural connectivity predicts response to bimanual force-coupled training
Ronan Denyer[1], Jennifer Ferris[1], Mahta Khoshnam[2], Beverley Larssen[1], Kaitlin Attard[1], Lara Boyd[1]
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M170 Recovery of stroke-induced aphasia using a novel BCI-based training: a resting state study
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M171 Dynamic remodeling of functional connectivity after stroke restricted to primary motor cortex
Mitsouko Van Assche[1,2], Elisabeth Dirren[1,2], Alexia Bourgeois[1,2], Reto Meuli[3], Tobias Kober[3,4,5], Andreas Kleinschmidt[1,2], Jonas Richiardi[3,4], Emmanuel Carrera[1,2]
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M172 N-acetylaspartate and Glutamate in Primary Sensorimotor Cortices after Chronic Stroke
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M173 Myelin changes after motor skill practice using the hemiparetic arm in individuals with stroke
Cristina Rubino[1], Hanwen Liu[1], Ronan Denyer[1], Bimal Lakhani[1], Lara Boyd[1]
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M174 Localisation-dependent effects of White Matter Hyperintensities on the Structural Human Connectome
Marvin Petersen[1], Benedikt Frey[1], Eckhard Schlemm[1], Marvin Petersen[1], Bastian Cheng[1], Götz Thomalla[1]
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M175 Aberrant Functional Connectivity of Default Mode Network in Patients with Transient Ischemic Attack
Lingyu Li[1,2,3], Yulin Song[3], Yu Han[4], Chengshu Zhou[3], Dan Zhou[3], Fuding Zhang[3], Qiming Xue[5], Jinling Liu[6], Lijuan Zhao[3], Cairong Zhang[3], Xiujie Han[3], Yating Lv[1,2,3]
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M176 Resting state effective connectivity extracts clinically relevant prognostic information in Stroke
Mohit Adhikari[1], Joseph Griffis[2], Joshua Siegel[2], Gustavo Deco[1], Andrea Insabato[1], Matthieu Gilson[1], Maurizio Corbetta[3]
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M177 Transcallosal anatomy of non-primary motor regions in individuals with chronic stroke
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M178 Lesion Load of Corticospinal Tracts from Higher-Level Motor Regions Predict Stroke Motor Outcomes
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M179 Fiber-specific white matter degeneration after ischaemic stroke
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M180 Fixel-based analysis reveals remote fibres impairment in stroke patients with somatosensory deficits
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M181 Task-Free and Task-Relevant Differential Brain Functional Network Reconfiguration in Stroke Patients
Hsiao-ju Cheng[1,2], Kwun Kei Ng[1], Xing Qian[1], Mengjiao Hu[1,3], Fang Ji[1], Zhong Kang Lu[4], Fatima Narsrallah[5,4], Kai Keng Ang[4], Kai-Hsiang Chuang[5,4], Cuntai Guan[3,4], Haoyong Yu[2], Effie Chew[6,2], Juan (Helen) Zhou[1,4]
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M182 Different Motor Network Changes and Responsiveness to Noninvasive Brain Stimulation for Stroke
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M183 A Comparison of Factors Predicting Recovery for Upper and Lower Extremities after Ischemic Stroke
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M184 Focal corticospinal tract abnormalities in children with perinatal stroke
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M185 Relationship between injured cingulum and impaired consciousness in patients with HIBI
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M186 Alterations in fALFF in mirror neuron system after motor imagery training in stroke patients
Xu Wang[1], Hewei Wang[2], Xin Xiong[1], Changhui Sun[2], Bing Zhu[2], Yiming Xu[2], Zheng Jin[3], Mingxia Fan[4], Shanbao Tong[1], Limin Sun[2], Xiaoli Guo[1]
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M187 Stroke anatomy reclassified
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M188 Relationship between corpus callosum injury and impaired consciousness in patients with HIBI
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M189 Botulinum Toxin-A-Related Changes of the Brain Functional Connectivity in Post-Stroke Spasticity
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M190 Identifying individual functional profiles for a frontoparietal network in aphasic stroke patients
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M191 No response for static faces in the right pSTS due to acquired prosopagnosia
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M192 Brain networks and rotated drawing after stroke: a single case study
Valentina Sebastaini[1], Piero Chiacchiaretta[2], Luigi Pavone[3], Antonio Sparano[3], Giovanni Grillea[3], Sara Spadone[2], Paolo Capotosto[2], Giorgia Committeri[2], Antonello Baldassarre[3]
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M193 Transcallosal Microstructural Integrity and Interhemispheric Inhibition in Chronic Stroke
Erin King[1], Alyssa Roeckner[1], Cassie Fierro[1], Shiyu Lin[1], Jacqueline Palmer[1], Michael Borich[2]
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M194 Serotonergic Modulation of Behavioural and Neural Responses During Motor Learning
Eoin Molloy[1], Karsten Mueller[2], Bernhard Sehm[3], Ahmad Kanaan[4], André Pampel[4], Christopher Steele[5], Vadim Nikulin[2], Pierre-Louis Bazin[6], Nathalie Beinhölzl[4], Gergana Zheleva[4], Fabian Piecha[4], Kristin Ihle[7], Maria Blöchl[4], Ulrike Scharrer[4], Ralf Regenthal[8], Harald Möller[9], Arno Villringer[2], Julia Sacher[2]
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M195 Combining TMS and EEG to assess motor recovery after acute stroke
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M196 The effect of language tasks on neural activation patterns in chronic stroke
Rajani Sebastian[1], Zhuonan Yang[1], Emily Sherry[1], Amy Wright[1], Argye Hillis[1]
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M197 Multi-class Voxel-based Lesion-symptom Mapping in Chronic Stroke Aphasia
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M198 Lesion, structural and functional disconnection in stroke: correlation with behavioral scores
Alessandro Salvalaggio[1,2], Maurizio Corbetta[3,2,4,5,6], Michel Thiebaut de Schotten[7,8,9]
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M199 Functional and Structural Imaging of Sensorimotor Processing in Children with Basal Ganglia Stroke
Cecilia Jobst[1], Samantha Goncalves[1], Justin Foong[1], Nomazulu Dlamini[1], Douglas Cheyne[2,3]
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M200 White-matter connectome neuroplasticity in perinatal stroke relates to clinical motor function
Brandon Craig[1], Alicia Hilderley[1], Xiangyu Long[1], Adam Kirton[1], Helen Carlson[1]
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M201 Characterizing Direct and Indirect Descending Cortical Projections in Post-stroke Individuals
Alejandro Lopez[1], Jiang Xu[1], Justin Liu[1], Steven Eicholtz[1], Michael Borich[1], Trisha Kesar[1]
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M202 Deep Learning-based Detection of DSC-Defined Penumbral Tissue on pCASL in Acute Ischemic Stroke
Kai Wang[1], Qinyang Shou[2], Samantha Ma[1], David Liebeskind[3], Xin Qiao[4], Fabien Scalzo[3], Jeffrey Saver[3], Noriko Salamon[4], Danny Wang[5]
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M203 Evaluating Stroke Lesion Overlap with Subcortical Structures and Post-Stroke Motor Performance
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M204 Cortical Gamma-Aminobutyric Acid (GABA) as a Potential Biomarker for Post-Stroke Motor Dysfunction
Tarushi Tanaya[1], Lisa Krishnamurthy[2], Erin King[1], Trisha Kesar[1], Michael Borich[3]
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M205 Recovery of impaired motor cognition after stroke: a longitudinal lesion-symptom mapping study
Andrea Dressing[1], Markus Martin[2], Kai Nitschke[3], Dorothee Kuemmerer[2], Lena Beume[2], Mariachristina Musso[4], Karl Egger[2], Christoph Kaller[2], Michel Rijntjes[2], Cornelius Weiller[5]
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M206 Predicting Recovery Using Dynamic Connectivity Metrics In a Non-Human Primate Model of Stroke
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M207 Atrophy in hippocampal subfields in the first year after ischemic stroke
Mohamed Salah Khlif[1], Emilio Werden[1], Laura Bird[1], Amy Brodtmann[1]
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M208 MI-4p is a Motor fMRI Biomarker of Intravenous Autologous Mesenchymal Stem Cell Efficacy in Stroke
Assia Jaillard[1], Marc Hommel[2], Thomas Zeffiro[3], Anaick Moisan[4], Issa Goundous[5], Fabrice Hannanu[5], Laurent Lamalle[1], Olivier Detante[1]
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M209 Connectome and dysconnectome analyses to determine patterns of motor recovery after stroke
Philipp Koch[1], Gabriel Girard[1], Chang-Hyun Park[1], Elena Beanato[1], Philip Egger[1], Evangelista Giorgia Giulia[1], Jungsoo Lee[2], Giacomo Koch[3], Adrian Guggisberg[4], Charlotte Rosso[5], Jean-Philippe Thiran[1], Yun-Hee Kim[2], Friedhelm Hummel[6]
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M210 The effect of rehabilitation treatment of Chinese medicine on brain function in stroke patients
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Traumatic Brain Injury

M211 ENIGMA Pediatric Moderate/Severe TBI: Preliminary DTI Analysis
Emily Dennis[1], Karen Caeyenberghs[2], Talin Babikian[3], Alexander Olsen[4], Harvey Levin[5], Chris Giza[3], Robert Asarnow[3], Peter Kochunov[6], Neda Jahanshad[7], Paul Thompson[8], David Tate[9], Elisabeth Wilde[9]
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M212 ENIGMA Military Brain Injury: DTI Meta-Analysis
Emily Dennis[1], Elisabeth Wilde[2,3], Carmen Velez[4], Maya Troyanskaya[5,6], Courtney Haswell[7], Heather Bouchard[7], Mary Newsome[5,6], Randall Scheibel[5,6], Artemis Zavaliangos-Petropulu[8], Benjamin Wade[4], Ann Marie Drennon[9], Gerald York[10], Erin Bigler[3], Tracy Abildskov[3], Brian Taylor[11], Carlos Jaramillo[12], Blessen Eapen[13], Heather Belanger[14], Seth Disner[15], Carol Franz[16], William Kremen[16], Elbert Geuze[17], Kimbra Kenney[18], John Ollinger[18], Grant Bonavia[18], Rajendra Morey[7], Maheen Adamson[19], Xiaojian Kang[20], Inga Koerte[21], Martha Shenton[22,23], Harvey Levin[5,6], Sidney Hinds[24], William Walker[11,25], Peter Kochunov[26], Neda Jahanshad[27], Paul Thompson[8], David Tate[3]
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M213 Cell energy status and cognition: physiological and behavioural effects of creatine supplementation
Philip Dean[1], Annette Sterr[1], Bertram Opitz[1]
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M214 Advanced diffusion-weighted imaging reveals distinct neuropathological processes in concussed youth
Guido Guberman[1], Jean-Christophe Houde[2], Isabelle Gagnon[1], Alain Ptito[1], Maxime Descoteaux[2]
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M215 Tau PET in Iraq and Afghanistan Veterans with Blast Neurotrauma
Meghan Robinson[1], Ann McKee[2], David Salat[3], Ann Rasmusson[3], Lauren Radigan[4], Ciprian Catana[5], William Milberg[3], Regina McGlinchey[3]
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M216 Athletes with sports concussions show distinct tau-PET deposition relative to aging nonathletes
Samuel Guay[1,2], Alexa Pichet Binette[3], PREVENT-AD Research Group[3], Sylvia Villeneuve[3], Louis De Beaumont[1,2]
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M217 Impaired Corpus Callosum Modulates Inter-Hemispheric Functional Connectivity in Chronic Mild TBI
Zhuonan Wang[1,2], Chuanzhu Sun[1], Shan Wang[1], Ming Zhang[2], Lijun Bai[1]
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M218 Redundancy and resiliency of arousal mechanisms in patients recovering from traumatic coma
Marta Bianciardi[1], Saef Izzy[2], Bruce Rosen[1], Lawrence Wald[1], Brian Edlow[3]
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M219 Predictive value of global brain network reorganization after severe traumatic brain injury
Lydia Oujamaa[1,2], Chantal Delon Martin[3], Sophie Achard[4]
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M220 Mapping structural and resting-state connectivity changes after music therapy in TBI patients
Noelia Martínez-Molina[1], Sini-Tuuli Siponkoski[1], Benjamin Ultan Cowley[1], Linda Kuusela[2], Sari Laitinen[3], Milla Holma[4], Mirja Ahlfors[4], Päivi Jordan-Kilkki[4], Katja Ala-Kauhaluoma[5], Susanna Melkas[6], Johanna Pekkola[2], Antoni Rodriguez-Fornells[7], Matti Laine[8], Aarne Ylinen[9], Pekka Rantanen[10], Sanna Koskinen[11], Teppo Särkämö[1]
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M221 Gender Differences in Brain Injury: Functional Outcomes, Brain Structure and Proteomic Biomarkers
Maheen Adamson[1], Max Gray[2], Keith Main[3], Margaret McNerney[4], Stephanie Kolakowsky-Hayner[5], Odette Harris[6], Xiaojian Kang[7]
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M222 Effect of Blue Light Therapy on Cortical Volume and Reaction Time following Mild TBI
Sahil Bajaj[1], Natalie Dailey[1], Adam Raikes[1], John Vanuk[1], Mareen Weber[2], Isabelle Rosso[2], Scott Rauch[2], William Killgore[1]
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M223 Can network spread determine early degenerative changes associated with traumatic brain injury?
Govinda Poudel[1], Juan Dominguez[1], Helena Verhelst[2], Catharine Vander Linden[3], Guy Vingerhoets[4], Ester Cerin[1], Derek Jones[5], Karen Caeyenberghs[1]
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M224 Difference in the ARAS between VS and MCS following traumatic brain injury
HanDo Lee[1], SungHo Jang[2]
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M225 Dissociating PTSD and Depression in Multimodal Neuroimaging Profiles of Veterans with Mild TBI
Benjamin Wade[1], David Tate[2], Carmen Velez[3], Randall Scheibel[4], Heather Belanger[5], Carlos Jaramillo[6], Blessen Eapen[7], Mary Newsome[4], Brian Taylor[8], Sidney Hinds[9], Gerald York[10], Tracy Abildskov[2], Erin Bigler[2], Elisabeth Wilde[2]
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M226 The differential impact of network disconnection on working memory and reasoning after TBI
Amy Jolly[1], Gregory Scott[1], David Sharp[2], Adam Hampshire[1]
[1]Imperial College London, London, United Kingdom, [2]Imperial College, London, United Kingdom

M227 Impaired neurovascular coupling in diffuse axonal injury following severe TBI: a resting state study
Chloé Jaroszynski[1], Lydia Oujamaa[2], Sophie Achard[3], Chantal Delon Martin[4]
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M228 Neural Correlates of Emotion Recognition in Concussed Athletes
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M229 Parameters from Virtual Brain models correlate with cognition of retired ice hockey players
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M230 Random Forest Regression to find White Matter Pathways Implicating Working Memory Scores in mTBI
Jhimli Mitra[1], Chitresh Bhushan[1], Soumya Ghose[1], Radhika Madhavan[2], Ek Tsoon Tan[1], Luca Marinelli[1], Joseph Masdeu[3], Pratik Mukherjee[4], Roland Lee[5], Michael McCrea[6], Gillian Hotz[7], Michael Collins[8], Anthony Kontos[8], Teena Shetty[9]
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M231 Microstructural differences in both the white- and gray-matter tissue distinguish athletes groups
Bradley Caron[1], Lindsey Kitchell[1], Brent McPherson[1], Daniel Bullock[1], Soichi Hayashi[1], Derek Keller[2], Hu Cheng[1], Sharlene Newman[1], Nicholas Port[1], Franco Pestilli[1]
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M232 Resting State Functional MRI can Predict Recovery Profiles in Mild Traumatic Brain Injury
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M233 Longitudinal changes in apparent diffusion coefficient value predicts prognosis for mTBI patients
Soumya Ghose[1], Radhika Madhavan[2], Chitresh Bhushan[1], Jhimli Mitra[1], Ek Tsoon Tan[1], Luca Marinelli[1], Joseph Masdeu[3], Pratik Mukherjee[4], Roland Lee[5], Michael McCrea[6], Gillian Hotz[7], Michael Collins[8], Anthony Kontos[8], Teena Shetty[9]
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M234 Classifying Concussion in Athletes Using Diffusion Tensor Imaging and Cognitive Evaluation
Monica Ly[1], Samantha Scarneo[1], Adam Lepley[1], Kelly Coleman[1], Chi-Ming Chen[1], Douglas Casa[1]
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M235 Gray matter volume change is associated with gray matter network re-organization one year after mTBI
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M236 Local Heterogeneity of Diffusion Tensor Imaging Tractography to Assess Multi-Focal Axonal Injury
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M237 Abnormalities of Deep and Superficial White Matter in Youth with mTBI
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M238 Predicting Outcome after Severe Traumatic Brain Injury
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M239 Traumatic Brain Injury Severity in a Network Perspective: A Diffusion MRI Based Connectome Study
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M240 Dynamic causal modelling of the effects of methylphenidate on corticostriatal connections following
Maria Balaet[1], Sara De Simoni[2], Adam Hampshire[2], David Sharp[3]
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M241 Loss of hemispheric asymmetry in neural sources of visual activity in aging following concussion
Martine Desjardins[1], Jean-Marc Lina[2], Louis De Beaumont[3], Jean-François Gagnon[4], Pierre Jolicoeur[5]
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M242 Default Mode Network & Dorsal Attention Network connectivity in youth with post-concussive syndrome
Rachelle Ho[1], Nick Bock[1], Geoffrey Hall[1], Carol DeMatteo[1]
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M243 Cerebral Blood Flow Changes Associated with Repetitive Head Impact Exposure in Youth Football
Christopher Whitlow[1], Orianna Olson[2], Jillian Urban[2], Elizabeth Davenport[3], Youngkyoo Jung[4], Jeongchul Kim[1], Alexander Powers[2], Joel Stitzel[2], Joseph Maldjian[3]
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M244 Longitudinal quantification of microhemorrhage effects upon white matter after geriatric concussion
Di Fan[1], Maria Calvillo[1], Di Fan[1], Yu Hu[1], Sean Lee[1], Lei Cao[1], Fan Zhang[2], Lauren O'Donnell[2], Andrei Irimia[1]
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M245 White matter degradation after mild traumatic brain injury revealed by diffusion tensor imaging
Kenneth Rostowsky[1], Nikhil Chaudhari[1], Maria Calvillo[1], Sean Lee[1], Andrei Irimia[1]
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M246 Intensity gradient segmentation of brain microhemorrhages from susceptibility weighted imaging
Nikhil Chaudhari[1], Di Fan[1], Maria Calvillo[1], Sean Lee[1], Nahian Chowdhury[1], Kenneth Rostowsky[1], Yu Hu[1], Lei Cao[1], Andrei Irimia[1]
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EMOTION AND MOTIVATION

Emotion and Motivation Other

M247 With a little help from my friends: The role of social proximity in emotion regulation
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M248 Functional connectivity in the processing of monetary and humorous rewards
Yu-Chen Chan[1], Yu-Cheng Chen[1]
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M249 Gender Differences in the Processing of Monetary and Humorous Rewards- An fMRI Study
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M250 The Anxious Brain: structural and functional correlates of anxiety in healthy subjects
Francesca Saviola[1], Edoardo Pappaianni[2], Alessia Monti[3], Alessandro Grecucci[2], Nicola De Pisapia[2]
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M251 Hindered Reappraisal and Biased Suppression Emotion Regulation in Schizotypy: Evidence from Late Pos
Dongni Pan[1], Xuebing Li[1]
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M252 Transient Valence-Dependent Shifts in Intrinsic Network Organization Mediate Mood Congruency Effects
Julian Provenzano[1], Philippe Fossati[2,3], Philippe Verduyn[4], Peter Kuppens[1]
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M253 Exposure to Environmental and Psychological Stress and Neural Response to Own Infant among Mothers
Pilyoung Kim[1], Rebekah Ellis[1], Alexander Dufford[1], Andrew Erhart[1], Melissa Hansen[1], Aviva Olsavsky[1], Leah Grande[1]
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M254 Distinctive MPFC subregions serving comparison to self versus other under promotion motivation
Wi Hoon Jung[1], Hackjin Kim[1]
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M255 Characteristics of emotional disorder following brain tumor surgery depending on the resected area
Riho Nakajima[1], Masashi Kinoshita[1], Hirokazu Okita[2], Mitsutoshi Nakada[1]
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M256 Midbrain involvement in anterior insula-mediated emotion regulation
Andrea Caria[1], Luciana Ciringione[1]
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M257 The neural basis of fear experience: A distributed and degenerate model
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M258 Acute Exercise Effects on Emotional Face Processing: A fMRI Study at Two Different Intensity Levels
Angelika Schmitt[1], Jason Martin[1], Sandra Rojas[2], Ramin Vafa[2], Lukas Scheef[1], Heiko Strüder[2], Henning Boecker[1]
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M259 Reduced amygdala volume associated with mindfulness practice time and improved negative affect
Tammi Kral[1], Kaley Davis[1], Lawrence Tello[1], Melissa Rosenkranz[1], Richard Davidson[1]
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M260 Effects of Exercise on Affective Network Resting State Functional Connectivity: Probing Intensity
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M261 Quantifying connectivity-derived Circuit Scores related to the Negative Valence Domain in Anxiety
Leonardo Tozzi[1], Elena Tuzhilina[1], Brooke Staveland[1], Bailey Golt-Hosselin[1], Sarah Chang[1], David Choi[1], Melissa Shiner[1], Leanne Williams[1]
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M262 High Primary psychopathy traits reveal specific cortical connectivity during emotional stimulation
Silvia Polver[1], Antonio Maffei[1], Alessandro Angrilli[1]
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M263 The neural networks underlying the impact of emotion regulation on emotional intensity judgment
Navot Naor[1], Lina Schaare[2], Christiane Rohr[3], Simone Shamay-Tsoory[4], Hadas Okon-Singer[4]
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M264 Decomposing emotions at the brain level using a novel and interactive emotion elicitation task
Joana Leitao[1], Ben Meuleman[1], Patrik Vuilleumier[2]
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M265 Theta changes in resting state EEG activity after regulating emotions
Gaia Lapomarda[1], Stefania Valer[1], Remo Job[1], Alessandro Grecucci[1]
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M266* Motivated performance while sleep deprived: reduced ACC and insula recruitment and effort-preference
Stijn Massar[1], Julian Lim[1], Karen Sasmita[2], Michael Chee[1]
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M267 A Neural Basis for Embodied Emotion
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M268 Individual differences in hedonic capacity and subjective value representations: an fMRI study
Irene Messina[1], Valentina Vellani[2], Lisa Dommes[3], Julia Bosch[3], Petra Bechoner[3], Julia Stingler[3], Roberto Viviani[4]
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M269 Hippocampus mediates conceptual generalization effects on pain
Leonie Koban[1], Tor Wager[2]
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M270 Amygdala functional connectivity during reappraisal related to early life and recent stress
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M271 Social incentives shape neural circuits underlying cognitive control
MIna Ličen[1], Sergeja Slapničar[1], Anka Slana Ozimič[2], Frank Hartmann[3], Alan Anticevic[4], Grega Repovš[2]
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M272 A meta-analytic connectivity modelling and functional decoding study of emotional processing in OCD
Maria Picó-Pérez[1], Pedro Moreira[1], Patrício Costa[1], Pedro Morgado[1], Carles Soriano-Mas[2]
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M273 Precuneus-related functional co-activation patterns modulated by mood and cognitive control
Julian Gaviria[1], Gwladys Rey[1], Thomas Bolton[2], Dimitri Van De Ville[3], Patrik Vuilleumier[1]
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M274 Cortical processing of naturalistic visual stimuli is modulated by their emotional content
Antonio Maffei[1], Claudio Gentili[1], Raluca Georgescu[2], Daniel David[2], Alessandro Angrilli[1]
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M275 Impersonal causality orientation impacts frontostriatal connectivity during personal choice
Liana Romaniuk[1], Anca-Larisa Sandu[2], Gordon Waiter[3], Christopher McNeil[4], Xueyi Shen[5], Mathew Harris[5], Jennifer MacFarlane[6], Stephen Lawrie[7], Ian Deary[8], Alison Murray[4], Mauricio Delgado[9], Douglas Steele[10], Andrew McIntosh[5], Heather Whalley[5]
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M276 Dynamic network reconfiguration after stress: increased flexibility of the precuneus
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M277 Identifying Emotion Schemas using Convolutional Neural Networks and Human Brain Activity
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M278 Representation and Integration of Goals and Emotional Valence in the Amygdala-Prefrontal Circuitry
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Emotional Learning

M279 Neural correlates of deficient safety learning in low resting heart rate variability individuals
Julia Wendt[1], Jörg König[1], Karla Peh[1], Martin Domin[1], Alfons Hamm[1], Martin Lotze[1]
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M280* Emotional tagging during hippocampal reactivation retrospectively promotes memory integration
Yannan Zhu[1], Lingke Zhang[2], Guillen Fernandez[1], Shaozheng Qin[2]
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M281 Neural substrates of long-term item and source memory for emotional associates: an fMRI study
Carlos Ventura Bort[1], Julia Wendt[2], Jörg König[2], Janine Wirkner[3], Martin Lotze[4], Alfons Hamm[2], Florin Dolcos[5], Mathias Weymar[6]
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M282 VMPFC reactivations explain long-term extinction memory retrieval: A registered direct replication
Chuan-Peng Hu[1,2], Elena Andres[1,2], Anna Gerlicher[3], Benjamin Meyer[1,2], Oliver Tüscher[4,2], Raffael Kalisch[1,2]
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M283 Opposing roles for amygdala and vmPFC in the return of appetitive conditioned responses in humans
Claudia Ebrahimi[1], Stefan Koch[1], Charlotte Pietrock[1], Thomas Fydrich[2], Andreas Heinz[1], Florian Schlagenhauf[1]
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M284 Bad intentions: Resistance to change in neural pattern similarity in response to deliberate harm
Irem Undeger[1], Reneé Visser[2], Armita Golkar[1], Andreas Olsson[1]
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M285 Functional Connectivity Changes Following Emotion Regulation Training
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Emotional Perception

M286 Source localization of early and late event-related potentials related to affective face perception
Anna Alińska[1], Jaroslaw Biedrzycki[1], Łukasz Okruszek[2]
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M287 A rewarding human smile? An fMRI study investigating canine emotion perception
Magdalena Boch[1], Sabrina Karl[2], Isabella Wagner[1], Christian Windischberger[3], Ludwig Huber[2], Claus Lamm[1]
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M288 ALE Meta-Analysis of Audiovisual Affective Processing
Svetlana Shinkareva[1], Chuanji Gao[1], Christine Weber[1]
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M289 Activation in the Amygdala in a Simple and Short Picture Viewing Task
Yasunori Kotani[1], Nobukiyo Yoshida[2], Yoshimi Ohgami[1], Akira Kunimatsu[2], Shigeru Kiryu[3], Yusuke Inoue[4]
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M290* Emotional experience timecourse explains brain connectivity dynamics during naturalistic stimulation
Giada Lettieri[1], Giacomo Handjaras[1], Emiliano Ricciardi[1], Andrea Leo[1], Monica Betta[1], Paolo Papale[1], Pietro Pietrini[1], Luca Cecchetti[1]
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M291 Influence of group membership on emotion categorization: An ultra-high field fMRI Study
Jorge Armony[1,2], Marcia Hidalgo-Marques[3], Khallil Taverna-Chaim[3], Valeria Della Maggiore[4], Julien Doyon[1], Pedro Valdes Sosa[5], Edson Amaro[3], Julie Grèzes[6]
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M292 A Multimodal Investigation of Emotional and Reward Relevant Scene Perception
Megan Filkowski[1], Katelyn Oliver[2], Margaret Tyre[3], Andreas Keil[4], Dean Sabatinelli[3]
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M293 CACNA1C risk variant affects microstructural connectivity of the amygdala
Katharina Koch[1], Sophia Stegmaier[1], Schwarz Lena[1], Erb Michael[2], Mara Thomas[1], Klaus Scheffler[3], Dirk Wildgruber[1], Vanessa Nieratschker[1], Thomas Ethofer[1]
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M294 Representations of emotion from the face, body and voice in the brain, an fMRI decoding study
Maarten Vaessen[1], Kiki Van der Heijden[1], Rebecca Watson[1], Beatrice de Gelder[1,2]
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M295 Comparing emotional modulation of picture-, face-, and word-elicited hemodynamic activity
Lea Marie Stieghorst[1], Martin Wegrzyn[2], Friedrich Wörmann[1], Christian Bien[1], Johanna Kissler[2]
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M296 Enhanced interoceptive inference of corresponding bodily sensations facilitates emotional face perce
Younbyoung Chae[1]
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M297 Bupropion effect on affective network and subjective emotional evaluation
Tomoko Hama[1,2], Michihiko Koeda[1], Yumiko Ikeda[3], Amane Tateno[1], Tokuhiro Kawara[2], Hidenori Suzuki[3], Yoshiro Okubo[1]
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M298 Tune in to the right frequency. EEG time frequency effects during emotion regulation
Alessandro Grecucci[1,2], Simone Sulpizio[3,2], Remo Job[4,2]
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M299* Spatio-temporal dynamics of the cerebral representations of emotion in voice
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M300 Cortico-subcortical interactions underlying anxiety elicitation and regulation during driving
Takafumi Sasaoka[1], Tokiko Harada[2], Daichi Sato[3], Nanae Michida[4], Hironobu Yonezawa[3], Masatoshi Takayama[3], Takahide Nouzawa[3], Shigeto Yamawaki[1]
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M301 Intracranial-EEG evidence of temporal pole - amygdala dynamics with picture, music and movie stimuli
Saurabh Sonkusare[1,2], Vinh Thai Nguyen[1], Rosalyn Moran[3], Johan van der Meer[1], Yudan Ren[1], Nikitas Koussis[1], Sasha Dionisio[4], Michael Breakspear[1], Christine Guo[1]
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M302 Dynamic neuronal changes induced by therapeutic tapping - implications for anxiety treatment
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M303 Repeatability of Facial Emotion Processing in Healthy Controls for Time Points 13 Weeks Apart
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M304 Neurobehavioral response to acute psychosocial stress is a valid measure for clinical interventions
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M305 The human brain basis of visual threat perception in nearby virtual space
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M306 The affective auditory network and symptoms severity in schizophrenia: A meta-analytic and VBM study
Veronika Mueller[1], Edna-Clarisse Cieslik[1], Pia Barisch[1], Andre Aleman[2], Birgit Derntl[3], Oliver Gruber[4], Lydia Kogler[3], Iris Sommer[5], Renaud Jardri[6], Simon Eickhoff[1]
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M307 Visual processing of emotional stimuli following right temporal lobe resection – an fMRI study
Johanna Kissler[1], Lea Marie Stieghorst[2], Malena Mielke[1], Martin Wegrzyn[3], Friedrich Wörmann[2], Christian Bien[2]
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M308 Brain potentials during emotional facial expressions and scenes: An EEG/ERP study
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M309 "When you're smiling": how facial expressions affect visual recognition of emotions
Francesca Benuzzi[1,2], Daniela Ballotta[3,4], Carlo Porro[1,2], Paolo Nichelli[1], Fausta Lui[1,2]
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M310 Multivariate analysis of affective body perception using postural and kinematic features of movement
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M311 Kangaroo Care Intervention Effect on Preterm Adolescents Emotional Empathy Neural Activation Pattern
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M312 Population Variation in Fear Contagion is Associated with right TPJ Connectivity to the Amygdala
Anna-Lisa Schuler[1], Martin Tik[1], Christoph Kraus[1], Daniela Pfabigan[2], Andreas Hahn[1], Katharina Paul[2], Stuart Reed[1], Manfred Klöbl[1], Bastian Auer[2], Rupert Lanzenberger[1], Claus Lamm[2], Christian Windischberger[1]
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M313 Dynamic human and avatar facial expressions elicit different cortical but not subcortical responses
Lorena Kegel[1,2], Julia Bauer[1,2], Peter Brugger[3], Sascha Frühholz[2], Thomas Grunwald[1], Peter Hilfiker[1], Martin Kurthen[1], Miriam Loertscher[4,5], Dieter Mersch[6], Anton Rey[5], Teresa Sollfrank[1], Bettina Steiger[1], Joerg Sternagel[6], Michel Weber[5], Hennric Jokeit[1,2]
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M314 Effective connectivity within the core-system of face perception revisited: a meta-analytic approach
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M315 Sensorimotor contributions to auditory emotion recognition in children: A resting-state fMRI study
Cesar Lima[1], Ana Isabel Correia[2], Paulo Branco[3], Marta Martins[3], Ana Mafalda Reis[4], Nuno Martins[4], São Luís Castro[3]
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M316 Precocious human amygdala responses to subliminal fearful but not angry faces
guex Guex[1], Constantino Méndez-Bértolo[2], Stephan Moratti[3], Bryan Strange[4], Laurent Spinelli[5], Margitta Seeck[6], Patrik Vuilleumier[7], Judith Domínguez-Borràs[8]
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M317 The Impact of the strategy used to create facial emotional stimuli on the neural basis of observers
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M318 Alexithymia, not Autistic Traits, Predicts Eye Gaze and Emotional Face Integration: Behavioral + ERP
Ka Lon Sou[1], Fun Lau[1], Hong Xu[1]
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M319 Effects of left versus right temporal lobe resection on emotional stimuli processing - An EEG-study
Malena Mielke[1], Alexandra Mehlmann[1], Lea Marie Stieghorst[2], Christian Bien[2], Johanna Kissler[1]
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M320 Intranasal Oxytocin Attenuates the Neural Circuitry and Its Connectivity to Dynamic Angry Faces
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M321 Distinct neural patterns of contextual modulation during dynamic facial expression perception
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Reward and Punishment

M322 A Computational Model for Dopamine Transmission in the Human Brain
Kathleen Wiencke[1,2], Annette Horstmann[1,2], Arno Villringer[1,2,3,4], Jane Neumann[1,2,5]
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M323 Acute serotonergic modulation of neural response during punishment – a pharmacological fMRI study
Carolin Lewis[1,2,3], Karsten Mueller[1], Janis Reinelt[1], Ralf Regenthal[4], Hadas Okon-Singer[5], Erika Forbes[6], Arno Villringer[1], Julia Sacher[1]
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M324 Identification of distinct subregions within dopaminergic midbrain and nucleus accumbens
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M325 De-coupling feedback valence and information-gain in reinforcement learning
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M326 Evidence for striatal prediction error signaling during fear extinction in humans
Martina Thiele[1], Kenneth Yuen[2], Anna Gerlicher[3], Raffael Kalisch[4]
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M327 Prediction of sensation-seeking from functional connectivities of the medial orbitofrontal cortex
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M328 Incentive processing modulates activity in a ventral striatum-hippocampus network: Data from the HCP
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M329 Neural representation of positive and negative outcome learning via taste
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M330 Neural Activation in the Reward Network is Associated with Inattentive Symptoms of ADHD
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M331 Intranasal insulin decreases dopamine signaling in the striatum -a combined PET/MRI study
Stephanie Kullmann[1], Dominik Blum[2], Benjamin Jaghutriz[3], Benjamin Bender[4], Hans-Ulrich Haering[3,1], Christian la Fougère[2], Andreas Fritsche[3,1], Matthias Reimold[2], Martin Heni[3,1], Hubert Preissl[1]
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M332 Wanting and liking of food and social rewards: the role of dopamine and opioids
Giorgia Silani[1], Sebastian Korb[1], Claudia Massaccesi[1], Sebastian Götzendorfer[1], Matthäus Willeit[2], Christoph Eisenegger[1]
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M333 Impulsivity modulates neural reward response and motor inhibition: An awake dog fMRI study
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M334 Neural Computations for Aversive Pavlovian Learning in Humans
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M335 Reward system connectivity during self-regulation with non-drug reward imagery in cocaine users
Matthias Kirschner[1,2], Amelie Haugg[2], Philipp Stampfli[2], Etna Engeli[2], Lea Hulka[2], James Sulzer[3], Erich Seifritz[2], Alain Dagher[1], Frank Scharnowski[4], Marcus Herdener[2], Ronald Sladky[4]
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M336 Emotional instability trait is associated with negative correlations in ventral striatal activation
Frida Bayard[1], Nathalie Wrobel[1], Christoph Abé[1], Eva Henje Blom[2], Predrag Petrovic[1]
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M337 Anatomical and functional signatures "at rest" of the human habenula in subclinical traits
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M338 Brain activity during the anticipation (but not delivery) of rewards is diminished in adult ADHD
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M339 Impact of Chronic Pain on Neural Responses to Monetary Reward and Loss
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Sexual Behavior

M340 Kisspeptin enhances brain processing in response to olfactory and visual cues of attraction in men
Lysia Demetriou[1], Lisa Yang[1], Matthew Wall[2], Edward Mills[1], David Zargaran[1], Mark Sykes[1], Joulia Prague[1], Ali Abbara[1], Eugenii Rabiner[2], Alex Coomninos[1], Waljit Dhillo[1]
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M341 Functional Disorder in Lifelong Premature Ejaculation Evaluated by Sparse Representation-Based Brain
Jiaming Lu[1], Jiaxuan Jin[1], Xin Zhang[1], Zhao Qing[1], Sichu Wu[1], Qinglei Zhang[1], Bin Zhu[1], Ming Li[1], Yutian Dai[2], Bing Zhang[1]
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M342 Effects of Pair bond Formation in Prairie vole brain Functional Connectivity
Ma Fernanda Lopez[1], Juan Ortiz[1], Francisco Camacho[1], N Diaz[2], Larry Young[3], Raul Paredes[1], Wendy Portillo[1], Sarael Alcauter[1]
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M343 Central Processing of Affective Penile Touch — An fMRI Study
Gerben Ruesink[1,2], Francis McGlone[3], Håkan Olausson[4,5], Camilla De Jong[2], Marcel Waldinger[6,7], Remco Renken[2,1], Jan-Bernard Marsman[2,1], Janniko Georgiadis[1,2]
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M344 Neural Correlates of Sexual Orientation in Men: Brain Activity During Mental Rotation
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M345 Subcortical Brain Shapes and Cortical Networks Identify Premature Ejaculation Individuals
Bing Zhang[1], Jiaming Lu[1], Jiaxuan Jin[1], Huiting Wang[1], Peng Han[1], Yiming Ma[1], Baibing Yang[2], Xin Zhang[1], Zhao Qing[1], Lihua Yuan[1], Ying Chen[3], Zhishun Wang[3], Yutian Dai[2]
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M346 Structural brain differences related to gender and sexual orientation
Mikhail Votinov[1,2], Katharina S. Goerlich[3], Elke Smith[1], Tobias Wensing[1,4], Thomas Nickl-Jockschat[5], Ute Habel[1,2]
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IMAGING METHODS

MEG

M347 Alterations of Heartbeat Evoked Magnetic Fields (HEFs) during Disgusting Sound Listening
Yutaka Kato[1], Yuichi Takei[2], Satoshi Umeda[3], Hajime Tabuchi[4], Masaru Mimura[4], Masato Fukuda[2]
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M348 The relationship between self-monitoring and resting connectome in bipolar disorder: An MEG study
Yuichi Takei[1], Yutaka Kato[2], Minami Tagawa[1], Takehumi Ohki[3], Noriko Sakurai[1], Masato Fukuda[1]
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M349 Long-term effects of interictal epileptiform discharge on cognitive development and sociality in ASD
Tetsu Hirosawa[1], Paul Sowman[2], Mina Fukai[3], Masafumi Kameya[4], Daiki Soma[3], Daiki Soma[5], Tatsuru Kitamura[6], Kyung-Min An[1], Shoryoku Hino[7], Tetsuya Takahashi[8], Yuko Yoshimura[5], Yoshiaki Miyagishi[5], Mitsuru Kikuchi[5]
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M350 Vector Spherical Harmonic Framework for Assessing the Complexity and Dimensionality of Magnetic Data
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M351 A high-performance compact magnetic shield for optically pumped magnetometer-based MEG
Kaiyan He[1], Shuangai Wan[2], Jingwei Sheng[3], Qin Jie[2], Jia-Hong Gao[1]
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M352 Altered Functional Networks in Gliomas Patients: A Resting State Magnetoencephalographic Study
Fatemeh Shekoohi-Shooli[1], Federico Chella[1,2], Massimo Caulo[1,2], Vincenzo Palatino[1,3], Riccardo Navarra[1,2], Vittorio Pizzella[1,2], Laura Marzetti[1,2]
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M353 MEG spectral signature relates to cognitive functioning in the oldest-old population
Alessandra Griffa[1], Nienke Legdeur[2], Martijn van den Heuvel[1], Cornelis Stam[3], Pieter Visser[2,4], Arjan Hillebrand[3]
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M354 Protracted beta activity in left IFG/AI and delayed response inhibition in anxiety: An MEG study
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M355 Intra-Session Reliability as a Quality Metric for Pre-Surgical Mapping with Magnetoencephalography
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M356 Dynamic organization of brain networks underpinning connectome fingerprinting: a MEG study
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M357 Music reconstruction from MEG data using deep generative neural networks
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M358 Neural Underpinnings of Speech Mental Imagery
Lingxi Lu[1,2,3], Jingwei Sheng[2], Jia-Hong Gao[1,2,4]
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M359 Large-scale brain integration patterns differ in focused-attention and open-monitoring meditation
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M360 Imaging the hippocampal system during a multi-item working memory task using magnetoencephalography
Lars Costers[1], Jeroen Van Schependom[1,2], Jorne Laton[1,3], Johan Baijot[1], Xavier De Tiège[4], Serge Goldman[4], Miguel D'Haeseleer[1,5], Marie D'Hooghe[1,5], Guy Nagels[1,5]
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M361 A new tool for paediatric functional brain imaging
Ryan Hill[1], Niall Holmes[2], Elena Boto[2], Caroline Hartley[3], James Leggett[2], Gillian Roberts[2], Tim Tierney[4], Vishal Shah[5], Mark Woolrich[3], Gareth Barnes[4], Richard Bowtell[2], Rebeccah Slater[3], Matthew Brookes[6]
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M362 Unraveling working memory task with long-range phase synchronization and local synchronization
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M363 Brain networks become more connected according to the progression of amyotrophic lateral sclerosis
Pierpaolo Sorrentino[1], Rosaria Rucco[1], Francesca Jacini[1], Francesca Trojsi[2], Anna Lardone[1], Fabio Baselice[1], Cinzia Femiano[2], Gabriella Santangelo[2], Maria Rosaria Monsurrò[2], Gioacchino Tedeschi[2], Giuseppe Sorrentino[1]
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M364 Associations between speech envelope and auditory cortical response during conversation
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M365 Magnetoencephalography During A Cognitively Demanding Saccadic Eye Movement Task In Anorexia Nervosa
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M366 Neuromotor control of speech movements: Studies with MEG-compatible articulography
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M367 Imaging human cortical responses to intraneural microstimulation using MEG
George O'Neill[1], Roger Watkins[2], Rochelle Ackerley[3], Eleanor Barratt[1], Sengupta Ayan[1,4], Michael Asghar[1], Rosa Sanchez Panchuelo[1], Matthew Brookes[1], Paul Glover[1], Wessberg Johan[2], Susan Francis[1]
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M368 Changes in the cortical motor response in recent-onset and established schizophrenia
Lauren Gascoyne[1], Matthew Brookes[1], Mohammad Katshu[1], Peter Liddle[1], Peter Morris[1]
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M369 Reliability of MEG neural power spectra and synchrony across time and scanner types
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M370 Multiset canonical correlation analysis of MEG reveals stimulus-modality independent language areas
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M371 Perception and Representation of the Dynamic Elements of Expressive Facial Motion in MEG
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M372 Probing cortical excitability using rapid frequency tagging
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M373 The effects of age on brain network dynamics in MEG resting-state data
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M374 Suicidal thoughts are related to theta band connectivity: An MEG study
Allison Nugent[1], Elizabeth Ballard[1], Jessica Gilbert[1], Matthew Brookes[2], Carlos Zarate[1]
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M375 Methylphenidate Normalizes Patterns of Premotor Beta Desynchronization in ADHD Children
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M376 Application of Hidden Markov Models to Detect Bursts of Beta Activity in Resting State MEG Data
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M377 Measuring MEG Functional Connectivity using Coincident Bursts in Transient Beta Oscillations
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M378 Auditory evoked response in young children born very preterm

Yuko Yoshimura[1], Yusuke Mitani[2], Takashi Ikeda[2], Mitsuru Kikuchi[3], Kazutoshi Cho[4], Hidenobu Ohta[5], Akiko Ando[6], Chiaki Hasegawa[2], Kyung-Min An[2], Ken Yaoi[2], Daisuke Saito[7]
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M379 Neural network pattern in ALS patients with or without cognitive impairment

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M380 Resting state connectivity and working memory capacities: A resting-state MEG study

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M381 Spatiotemporal dynamics of visual information integration

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M382 Whole-brain oscillatory modes reveal intra-subject variability in functional connectivity

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M383 The effects of Vipassana meditation on brain network: a magnetoencephalography study

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M384 Brain connectivity in Hereditary Spastic Paraparesis: a magnetoencephalographic study

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M385 Machine learning feature optimization method for diagnosing schizophrenia by using MEG

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M386 Altered small worldness of gamma connectome at resting-state in schizophrenia: A MEG study

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M387 Source localisation of induced beta and theta brain activity in MEG - a repeatability study

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M388 Using VR with OPM-MEG to Perform Visual Neuroscience Experiments

Gill Roberts[1], Niall Holmes[1], Nicholas Alexander[2], Ryan Hill[3], Elena Boto[1], James Leggett[1], Klaus Kessler[2], Richard Bowtell[1], Gareth Barnes[4], Matthew Brookes[5]
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M389 Novel electrical stimulus elicits acute pain-related response in MEG

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M390 Lesions to Ventral and Dorsal Pathways Selectively Impair Object and Action Naming

Lucia Amoruso[1], Nicola Molinaro[2], Shuang Geng[3], Ileana Quiñones[3], Polina Timofeeva[3], Sandra Gisbert-Muñoz[2], Santiago Gil-Robles[4,5], Iñigo Pomposo[5], Manuel Carreiras[6]
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M391 Capturing similarity structure in multifocal MEG responses using fMRI and detailed forward models

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M392 Long lasting effects of cathodic tDCS on brain networks

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M393 NeuroPycon: A Python-based package for advanced MEG, EEG and fMRI connectivity analyses
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M394 Association between Schizotypy and Gamma Band Oscillations measured with Magnetoencephalography
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M395 Detecting high frequency brain oscillations in MEG with Oversampled Temporal Projection
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M396 Effects of cognitive load on cortical oscillations during a pattern learning task using MEG
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M397 Gut-brain interaction: probiotic Bifidobacterium longum 1714 affects MEG resting-state connectivity
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M398 Brain networks controlling the perception of the emotional valance
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M399 Convolutional neural network for epileptic seizure detection using magnetoencephalography signals
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M400 Using multiple head positions to increase MEG sensor density
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MR Spectroscopy

M401 Functional Magnetic Resonance Spectroscopy of response inhibition at 7T
Chris Vriend[1,2], Niels de Joode[1,2], Jannie Wijnen[3], Wietske van der Zwaag[4], Petra Pouwels[1,2], Liesbeth Reneman[1,5], Odile van den Heuvel[1,2], Anouk Schrantee[1,5]
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M402 Dynamic MRS measurements of GABA, glutathione and ethanol
Muhammad Saleh[1], Anna Wang[1], Mark Mikkelsen[1], Georg Oeltzschner[1], Jeff Boissoneault[2], Eric Porges[2], Richard Edden[1]
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M403 A multi-regional neuroinflammatory factor that characterises HIV-infected children at 11 years
Amy Graham[1], Martha Holmes[1], Francesca Little[1], Els Dobbels[2], Mark Cotton[2], Barbara Laughton[2], Andre van der Kouwe[3,4], Ernesta Meintjes[1,5], Frances Robertson[1,5]
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M404 Elevated cortical glutamate levels after TBS in TRD: A surface-based MRS analysis approach
Benjamin Spurny[1], Philipp Moser[2], Rene Seiger[1], Eva Heckova[2], Mathis Godbersen[1], Paul Michenthaler[1], Patricia Handschuh[1], Jakob Unterholzner[1], Murray Reed[1], Georg Kranz[3], Pia Baldinger-Melich[1], Siegfried Kasper[1], Wolfgang Bogner[2], Rupert Lanzenberger[1]
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M405 Longitudinal analysis of brain metabolite levels in perinatally HIV infected children from ages 5-11
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M406 Association Between Functional Connectivity-Guided Cortical GABA and Clinical Pain in Fibromyalgia
James Bishop[1], Matthew Sacchet[1], Keith Sudheimer[1], Merve Gulser[1], Afik Faerman[2], Katy Stimpson[1], Danielle DeSouza[1], David Spiegel[1], Nolan Williams[1]
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M407* 7T Combined fMRI-fMRS, multiscale investigation of the motor cortex during active and resting states
Jacob Levenstein[1], William Clarke[2], Betina Ip[2], Jon Campbell[2], Uzay Emir[3], Peter Bandettini[4], Charlotte Stagg[5]
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M408 Identification of Brain Metabolites Specific to Major Depressive Disorder using 7T 1H-MRS
Youngkyu Song[1], Sungho Tak[1], E-Nae Cheong[1], Chaejoon Cheong[2], Gyunggoo Cho[1]
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M409 Impact of the PRISMA Upgrade on Neurometabolite Levels, Structure Volumes, and Cortical Thickness
Eric Plitman[1], Alyssa Salaciak[1], Marie-Lise Béland[1], Stephanie Tullo[1], Raihaan Patel[1], Christine Tardif[2], M. Natasha Rajah[1], Gabriel A. Devenyi[1], Jamie Near[1], M. Mallar Chakravarty[1]
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M410 Comparison of the Magnetic Resonance Spectroscopy Thermometry measurements in 7T and 3T scanners
Marcin Sińczuk[1], Bartosz Kossowski[1,2], Michał Fiedorowicz[1,3], Nikodem Hryniewicz[1], Ewa Piątkowska-Janko[1,2], Piotr Bogorodzki[1,2,3]
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M411 Applying the 1HMRS method to evaluate levels of GABA and Glx of patients with tinnitus
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M412 Test-retest reliability of GABA and Glx with JPRESS, PRESS, and MEGA-PRESS MRS sequences at 3T
Arwa Baeshen[1], Patrik Wyss[2,3,4], Anke Henning[2,3], Ruth O'Gorman[5], Spyros Kollias[6], Lars Michels[7]
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M413 Simultaneous spectral editing of seven low-concentration brain metabolites at 3T with HERCULES
Georg Oeltzschner[1,2], Muhammad Saleh[1,2], Daniel Rimbault[3], Mark Mikkelsen[1,2], Nicolaas Puts[1,2], Richard Edden[1,2]
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M414 Mechanisms underlying age-related improvements in planning ability through adolescence
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MODELING AND ANALYSIS METHODS

Classification and Predictive Modeling

M415 Distinct brain signature of immature loss sensitivity and reward-related decision making in children
Madeleine Snyder[1], Weidong Cai[2], Ketherine Duberg[3], Aarthi Padmanabhan[1], Travis Bradley[2], Olivia Altamirano[2], Yamilka Alsina[2], Victor Carrion[2], Vinod Menon[3]
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M416 Predicting response to motor therapy in chronic stroke patients using Machine Learning
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M417 Multi-modality, Multi-study automated image-based classification & prediction of Alzheimer's disease
Alle Meije Wink[1], Betty Tijms[1], Viktor Wottschel[1], Silvia Ingala[1], Ernesto Sanz-Arigita[2], Sven Haller[3], Pablo Martinez-Lage Alvarez[4], Wiesje van der Flier[1], Frederik Barkhof[1], Alzheimer's Disease Neuroimaging Initiative[5]
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M418 Identifying subtypes in mood and anxiety disorders with task-based connectivity and machine learning
Christina Young[1], Sahar Harati[1], Tali Ball[1], Andrea Goldstein-Piekarski[1,2], Leanne Williams[1,2]
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M419 High-order Laplacian Regularized Low-rank Representation for Brain Disease Diagnosis
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M420 Can we learn from coupling EEG-fMRI to enhance neuro-feedback in EEG only?
Claire Cury[1,2], Pierre Maurel[1], Lorraine Perronnet[1], Rémi Grionval[2], Christian Barillot[1]
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M421 Emotion analysis based on multi-class common spatial features of scalp EEG
Peiyang Li[1], Haiyong Zhang[1], Tingyi Tan[1], Cunbo Li[2], Xuyang Zhu[2], Wei Wang[1], Zhangyong Li[1], Peng Xu[2], Yin Tian[3]
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M422 Intuitive visualization for convolutional neural networks detecting brain diseases in MRI scans
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M423 Estimating brain age using errors-in-variables
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M424 Image and text understanding of human brain as measured by fMRI using deep neural network
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M425 Dynamic Functional Connectivity Fingerprint from Deep Neural Network for Individual Identification
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M426 DNN With Greedy Layer-Wise Parameter-Free Weight Sparsity Control for fMRI Data Classification
Niv Lustig[1], Jong-Hwan Lee[1]
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M427 Robust predictions of individual reading ability from connectivity across distinct cognitive states
Rongtao Jiang[1,2], Nianming Zuo[1], Chuanjun Zhuo[3], Tianzi Jiang[1,2,4], Shile Qi[5], Vince Calhoun[5,6,7], Jing Sui[1,2,4,5]
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M428 3D convolutional neural network extracts shift/scale-invariant features to classify fMRI volumes
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M429 Discriminating neurofibromatosis and healthy children with multimodal MRI and machine learning
Federico Nemmi[1], Fabien Cignetti[2], Christine Assaiante[3], Stéphanie Maziero[1], Frederique Audic[4], Patrice Péran[1], Yves Chaix[5]
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M430 A whole-brain multimodal discrimination of Parkinsons dDiseas, Multiple System Atrophy and Controls
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M431 Trans-diagnostic/cross-stage neuroimaging markers for risk of schizophrenia and bipolar disorder
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M432 Can (un)supervised feature extraction classify Alzheimer patients better than whole-brain analysis?
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M433 Modeling and Exploring Brain Development with Discriminative Machine Learning
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M434* Early personalized treatment prediction model derived from subgroups in depression
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M435 Are Machine Learning Methods Generalisable in Children and Adolescents?
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M436 Multi-ROI 3D-CNNs: a Generalized Discriminator of Motor Imagery from a Functional Brain Image
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M437 Development of sex differences in brain structure characterized using machine learning
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M438 Quantitative radiomic features in multisite AD: classification, longitude progress, biological basis
Kun Zhao[1,2], Yanhui Ding[1], Ying Han[3], Yong Fan[2], Tong Han[4], Dan Jin[2,5], Bing Liu[2,5,6], Jie Lu[7], Chengyuan Song[8], Pan Wang[9,10], Dawei Wang[11], Qin Wang[11], Kaibin Xu[2], Hongwei Yang[7], Hongxiang Yao[12], Yuanjie Zheng[1], Chunshui Yu[13], Bo Zhou[10], Xinqing Zhang[3], Yuying Zhou[9], Tianzi Jiang[2,5,6], Xi Zhang[10], Yong Liu[2,5,6]
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M439 Sample Data Selection in resting state fMRI Improves the Prediction Accuracy of Behavioral Measures
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M440 Interpreting machine learning models in neuroimaging: a unified framework
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M441 Predicting Tumour Grade and Survival of Brain Tumour Patients Using DTI Texture Analysis in SVM
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M442 Classification of Multiple Sclerosis patients using a histogram-based K-Nearest Neighbors algorithm
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M443 Regional brain connectivity patterns distinguish males from females
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M444 Graph Fourier Transform of temporal signals based on structural connectomes can boost classification
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M445 Classification and Analysis of a Magnetoencephalography Dataset using Convolutional Neural Networks
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M446 From a deep learning model to the brain: Inferring morphological markers and their relation to aging
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M447 A model-based approach to estimating phase response curves of TMS-modulated EEG oscillations
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M448 Investigating Task Effects on Brain Activity During Stimulus Presentation in MEG
Mariya Toneva[1], Otilia Stretcu[1], Barnabas Poczos[1], Tom Mitchell[1]
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M449 Longitudinal prediction of cognitive decline using multimodal MRI
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M450 Multi-modal Data Integration for Early AD Detection and Progression
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M451 Using Machine Learning to Predict Age and Dementia from Neural Frequency and Complexity Measures
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M452 Deep Learning for Accurate Brain Age Prediction from 14503 UK Biobank T1 Images
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M453 Resting-state and task connectome predictive modeling in subjects with mild cognitive impairment
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M454 Classification of schizophrenia patients and healthy controls using structural MRI
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M455 Altered structure of cerebellum in autism spectrum disorder: a new evidence from deep neural network
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M456 Machine-learning in predicting chemo-brain of breast cancer survivors using functional connectome
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M457 An ensemble classifier for autism spectrum disorder prediction by multi-atlas brain imaging
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M458 Predicting the age of healthy adults from structural networks based on Convolutional Neural Network
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M459 Invertible Neural Networks for Interpretable Deep learning on Brain Signals
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M460 Shared brain connectivity patterns modulated by long-term meditation practice
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M461 Intrinsic connectivity-based encoding models predict naturalistic visual representations
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M462 Optimizing deep video representation to match brain activity
Hugo Richard[1], Ana Luísa Pinho[1], Bertrand Thirion[1], Guillaume Charpiat[2]
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M463 Functional Network prediction from region connectivity profiles and application to brain tumor data
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M464 Predicting individual traits based on functional connectivity during different video clips
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M465 Insights from a simple neural architecture predicting general intelligence from resting-state FC
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M466 Problems with Low Sample Sizes in Training Machine Learning Classification Models
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M467 It needs to be prevalent to be relevant: second-level testing of searchlight information maps
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M468 Infant Age Prediction Based on Deep Granular Label Distribution Learning of Cortical Features
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M469 A 2-D MR image classification for gray, white matter and CSF using deep-learning network
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M470 A deep learning neural network that infers brain diffusion properties from T1-weighted MRI
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M471 An empirical comparison of group-level searchlight decoding strategies
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M472 Deep Learning-based Automatic Noisy Component Detection for Automatic Resting-state fMRI Denoising
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M473 Brain Network Differences via Sparse Connectivity Analysis

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M474 Systematic Overestimation of Accuracies in Predictive Structural Magnetic Imaging Studies of MDD

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M475 Deep Chronnectome Learning Via Full Bidirectional Long Short-Term Memory for Schizophrenia Diagnosis

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M476 Brain Age, A New Biomarker

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M477 Classification of Autism based on Resting-state fMRI using Convolutional Neural Networks

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M478 Improving prediction of cognition in chronic stroke using modularity-level functional connectivity

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M479 Genetic algorithms for feature selection when classifying severe chronic disorders of consciousness

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M480 Functional connectivity tells more than behaviors in the classification of neurodevelopment disorder

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M481 Decoding 3D Random Contrast Images based on fMRI

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M482 Prediction of future cognitive scores and dementia onset in Mild Cognitive Impairment patients

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M483 Classifying Major Depression Using GAN Based on Dynamic Functional Network Connectivity

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M484 Event-related potentials predict individual differences in inhibitory control

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M485 Childhood Maltreatment Accelerates Brain Aging in Healthy Adults – A Bayesian Multi-Level Approach

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M486 Detecting Abnormal Functional Connectivity Patterns Using Stacked Autoencoders

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M487 Fine-grained, image-based severity score of brain connectivity in prematurely-born adolescents

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M488 Prediction of depression using multiple volumetric measures, subcortical regions and subfields

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M489 Modeling heterogeneity in task fMRI in a large cohort using deep autoencoders

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M490 Gender Differences in Brain Structure

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M491 Multimodal integration of brain images for MRI based prediction of schizophrenia diagnosis

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M492 A CNN-based classification of healthy elders, early and late MCI and AD using DTI-derived FA images

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M493 An Improved Estimate of the cardiac signal from fMRI by slice averaging and multibranch CNN

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M494 Classification of Central Vertigo Using Machine Learning Algorithm with Clinical Questionnaire

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M495 The problem of correlated trial-by-trial parameter estimates in fMRI decoding – solved

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M496 Quantifying brain age prediction uncertainty from imaging using scalar-on-image quantile regression

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M497 Predicting progression to Alzheimer's disease from clinical and imaging data: a reproducible study

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M498 A social neuro-computational approach to autism: diagnostic validity of inter-brain connectivity

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M499 Predicting subject age in the youth mega sample using connectome-based predictive modelling

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M500 AVRA: Automatic Visual Ratings of Atrophy from MRI images using Deep Learning
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M501 Brain-Signal Decoding Using Features Compared to End-to-End Representation Learning
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M502 Towards sparse hierarchical graph classifiers for autism spectrum disorder identification
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M503 Harnessing the Imagined: Developing Motor Imagery for Real-time fMRI-based Therapy
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M504 Response To Treatment In Depression: Multi-class Predictive Utility Of Morphometric Features
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M505 How serious is data leakage in deep learning studies on Alzheimer's disease classification?
Junhao Wen[1], Elina Thibeau--Sutre[2], Jorge Samper-González[1], Alexandre Routier[3], Simona Bottani[1], Didier Dormont[4], Stanley Durrleman[1], Olivier Colliot[5], Ninon Burgos[6]
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M506 Leveraging shared connectivity to aggregate heterogeneous datasets into a common response space
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M507 Task activation and functional connectivity offer distinct insight into brain-behavior relationships
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M508 Beware of feature selection bias! Example on Alzheimer's disease classification from diffusion MRI
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M509 A combinatorial approach to improve classification accuracy in resting state fMRI data
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M510 Predicting motor behavior using neural encoding models during complex cognitive tasks
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M511 Severity of Symptoms Is Associated with Accelerated Brain Aging in Depressive Patients
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M512 Joint temporo-occipital connectivity reflects higher-order function associated with conscious states
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M513 Graph convolutional network with sparse representation in resting-state fMRI for MDD identification
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M514 Structural-Functional CNN for Predicting Subject-Specific Neurocognitive Measurements
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M515 BOLD power spectral density differentiates patients with pathological consciousness
Sarael Alcauter[1], Manon Carrière[2,3], Federico Raimondo[2], Charlotte Martial[4], Vincent Bonhomme[5,6,7], Muriel Kirsch[5,6], Luaba Tshibandha[8], Steven Laureys[2,3], Fernando Barrios[1], Athena Demertzi[2]
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M516 Dynamic Time Warping for Brain MEG Analysis
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M517 A Data-Driven Clustering of Subjects Based on Brain Activation Reveals Phenotypic Group Differences
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M518 Spectral Graph Wavelet Transform as a feature extractor for machine learning in neuroimaging
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M519 Deep-learning based prediction of IDH genotype in gliomas using perfusion-weighted MRI
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M520 Effects of maternal anxiety during gestation on individual brain aging in 28 years old offspring
Katja Franke[1], Charlotte Sleurs[2], Gergiso Kabtamu Tolosie[3], Leandro Garcia Barrado[3], Matthias Schwab[1], Bea van den Bergh[4]
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M521* Simulated TMS-EEG Biofeedback Using Automated Neural Architecture Search and Transfer Learning
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M522 Patient-tailored prediction of neuropathology in cognitive impairment using neuroimaging biomarkers
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M523 Amyloid PET Positivity Prediction using Multimodal MRI of AD Patient through the Deep Neural Network
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M524 A large-scale fMRI data set at 7T towards the reconstruction of letters and natural images
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M525 Learning function from structure in large-scale networks
Laura Suarez[1], Gregory Kiar[2], Andrew Doyle[3], Alan Evans[3], Bratislav Mišić[2]
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M526 Age and sex inferred from brain morphology using deep-learning
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M527 Predicting Alcohol Dependence from Brain Structure Alone
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fMRI Connectivity and Network Modeling

M528 Dynamic mode decomposition of rest and task fMRI time series
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M529 Physiologic noise co-activation pattern in default mode network
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M530 Framework for Optimized and Precisely-Targeted fMRI Connectivity Neurofeedback
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M531 Oscillatory brain states govern rsfMRI network dynamics in the mouse brain
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M532 Structural determinants of dynamic fluctuations in brain functional network topology
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M533 Intrinsic functional connectivity of the BNST and CeA in pathological anxiety
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M534 Altered Functional Connectivity in Brain White and Gray Matter by Multiple Sclerosis Lesions
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M535 Phase fMRI informs whole-brain connectivity balance in resting state across the lifespan
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M536 Phase fMRI connectivity defines the resting-state brain function hub within subcortical region
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M537 A Graph Representation of Functional Diversity of Brain Regions
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M538 Comparison Study of Bivariate Correlations for Dynamic Brain Functional Connectivity
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M539 Physiological elements in the elderly functional connectome
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M540 Reliability of dynamic functional connectivity using multiplication of temporal derivatives
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M541 Disrupted Functional Connectivity of the Middle Temporal Gyrus Subregions in Children with ASD
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M542 Biotype shows more inter-group differences than DSM categories using dynamic connectivity measures
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M543 Manifold learning on time-varying functional connectivity matrices: A case study on meditation data
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M544 Communication asymmetry in the human connectome: A cortical hierarchy of senders and receivers
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M545 Multiscale decomposition of information transfer in the midcingulate cortex
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M546 Reduced Functional Connectivity of posterior Nucleus basalis Meynert in Amyloid Positive SCD
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M547 High Resolution Resting State Functional Connectivity of the Extended Amygdala
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M548 Trait and state characteristics of anterior insula time-varying connectivity modes
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M549 Brain activity gradient traversals generate functional connectivity
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M550 Amortised inference of stochastic DCMs via temporal convolutional networks
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M551 Network Localization of Cervical Dystonia Based on Causal Brain Lesions
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M552 Prenatal maternal anxiety and amygdala functional connectivity in young children
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M553 Connectivity dynamics between the right anterior insula and the anterior cingulate cortex
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M554 Do the performances of EEG temporal ICA and fMRI spatial ICA vary with source network size?
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M555 Frequency-dependent brain network and its integration
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M556 Prediction of long-term cognitive disorders following stroke using a specific functional network
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M557 Functional brain network detection strategies for arterial spin labeling perfusion MRI
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M558 Analyzing Network Connectivity in Post-Stroke Aphasic Patients
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M559 Reproducibility of subject-specific graph measures using resting-state fMRI
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M560 Influence of cognitive deterioration in MS on global and local network organisation
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M561 Intranasal insulin improves functional connectivity with modular structure in a BMI-related manner
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M562 Functional Connectivity Parcellation of the Human Hypothalamus by Independent Component Analysis
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M563 Family history of alcoholism affects task-switching in human brain networks
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M564 Differentiating Implicit and Explicit Theory of Mind and Associated Neural Networks in CHR youth
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M565 A study of the link between dynamic functional connectivity and structural rich-club organisation
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M566 Hunger status, not oral glucose, affects posterior-anterior insula connectivity: A spectral DCM stud
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M567 Comparing functional connectivity, representational similarity & univariate analyses neural networks
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M568 The connectome in (e)motion - task-evoked changes in functional connectivity during emotional proces
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M569 Associating trait Impulsivity with rs-fmri dynamics of cerebellocortical networks estimated via HMM
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M570 Novel functional subdivisions of the individual human hippocampus
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M571 MOU-EC: a model-based connectivity analysis for fMRI data to explore distributed brain cognition
Matthieu Gilson[1], Gorka Zamora-López[1], Vicente Pallarés[1], Mohit Adhikari[1], Mario Senden[2], Adria Tauste Campo[3], Gustavo Deco[1], Andrea Insabato[1]
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M572 Physical Brain Connectomics: Beyond Graphs and Patterns
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M573 A translational marker of dynamic functional connectivity differentiates anesthesia regimens
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M574 Surface-based versus volumetric fMRI: effects on a hierarchical model of resting-state networks
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M575 Predicting anxiety in novel individuals from whole-brain resting-state functional connectivity
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M576 Altered Neural Correlates of Reward Processing in Adolescents with Severe Obesity
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M577 Finding brain behaviour relationships from functional network models
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M578 Core-periphery network disruption of multimodal brain networks in Alzheimer's Disease
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M579 Resting-state functional connectivity of structurally-defined insular subregions
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M580 Statistical Inference on the Number of Cycles in Structural Brain Networks
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M581 The role of structural connectivity in brain functional dynamics
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M582 A data-driven approach to study the brain dynamics in post stroke
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M583 Inferring group-level differences in functional connectivity using exponential random graph models
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M584 Network Spatial Map Dynamics and Spatial Network Connectivity Disrupted in Schizophrenia Patients
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M585 Individual-Specific Areal-Level Parcellations Improve Functional Connectivity Prediction of Behavior
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M586 Investigation of the reproducibility of resting state fMRI acquired using different receiver coils
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M587 Improving Principal Component Detection in Dynamic Functional Connectivity Analysis
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M588 Inversion of A Large-Scale Circuit Model Reveals A Cortical Hierarchy in The Resting Human Brain
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M589 Controllability Analysis on Functional Brain Networks
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M590 Differential effective connectivity modulations related to win and loss outcomes
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M591 Exploring the dynamics of spinal cord functional activity using hemodynamic-informed transients
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M592 The Janus-like Default Mode Network Integrates External Inputs and Internal Thought
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M593 Changes in directed functional connectivity related to age and sex
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M594 Left dorsolateral prefrontal cortex involvement in context-dependent mind wandering
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M595 Individual heterogeneity in the functional topography of the DMN in medial prefrontal cortex
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M596 Dynamic reconfiguration of functional brain network during 6-week working memory training
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M597 Space-independent community and hub structure of functional brain networks
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M598 Patterns of Ongoing Thought is Associated within the Architecture of the Medial Temporal Lobe
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M599 Disrupted Functional Connectivity Dynamics in Obsessive-Compulsive Disorder
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M600 Disambiguating resting-fMRI functional connectivity information in temporal and spatial domains
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M601 Brain-songs: Non-trivial Temporal Brain States Dynamics Account for Cognition and Motor Capacities
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M602 Functional connectivity changes following early deafness
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M603 Increased resting state connectivity associated with upper extremity motor training
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M604 Cognitive impairment in Parkinson's disease is captured by personalized Virtual Brain models
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M605 Cross-paradigm connectivity: reliability, stability, and individual identifiability
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M606 Dysconnectomics of the fourth Order: Network dysfunction at higher spatial scales in OCD
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M607 Brain Networks identified from node connectivity and node complexity
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M608 Spatiotemporal ontogeny of brain wiring
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M609 Mapping the Community Structure of the Connectome with Weighted Stochastic Block Modeling
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M610 Statistical properties of strengths of structural and functional connectivity
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M611 Correcting module size bias of participation coefficient
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M612 Reliability of Frontostriatal Functional Connectivity: Towards Personalization of TMS in Psychiatry
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M613 The Connectome Basis of Theory of Mind
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M614 Neural correlates of rumination associated with altered brain network dynamics
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M615 Connectivity within DMN Mediates the Association between Circadian Rhythms and Sleep Quality
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M616* Classifying Patients with scDOC using Multislice Modularity of Brain Networks from fMRI Data
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M617 Frequency-Dependent Brain Network Changes of Neonate during Natural Sleep
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M618 A Matched Filter Decomposition of Task fMRI for Extraction of Dynamical Components
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M619 Functional organization of the neonatal brain following prenatal exposure to depression and SSRIs
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M620 Contextual interference induces differential modulations in task-related network connectivity
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M621 Temporal concatenation group ICA leads to artificial splitting of default mode network?
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M622 Variability and reproducibility of functional connectivity estimates in the human brain
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M623 Modulatory effect of the gut microbiota on neural networks that support anxiety sensitivity
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M624 Eigenvector centrality mapping for ultrahigh resolution fMRI data
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M625 Using dynamic causal modelling for real-time feedback of prefrontal connectivity during self-control
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M626 Directional Brain Connectivity Discrepancy Between Healthy Controls and Patients with Epilepsy
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M627 Neurorehabilitation in Parkinson's disease – is there a role for network connectivity measures?
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M628 The time of day influence on resting-state functional connectivity in DMN and EMN
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M629 Alterations in Cortical Correlation Networks associated with Alexithymia
Stefan Frenzel[1], Jan Terock[1], Katharina Wittfeld[2], Johanna König[1], Deborah Janowitz[1], Robin Bülow[3], Norbert Hosten[3], Henry Völzke[4], Harald Freyberger[1], Hans Grabe[1]
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M630 Default mode network sub-partitioning using deep-learning classification at the individual level
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M631 Frequency Dependent Functional Connectivity Architecture in the Human Brain
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M632 Altered cerebro-cerebellar motor/cognition modules of functional connectivity in MSA-C but not SAOA
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M633 Impact of small parcellation changes on global and local brain connectivity metrics
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M634 Spontaneous rs-fMRI activity within the hippocampus respects the classic hippocampal subfields
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M635 FMRI connectivity-derived graph metrics as biomarkers: assessing consistency and fingerprinting po
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M636 Rapid Reconfiguration of the Functional Connectome after Chemogenetic Locus Coeruleus Activation
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M637 Visualization of Human Connectome in Stroke Syndromes
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M638 Exploring relevant spatial scales for analysing brain network dynamics
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M639 Brain functional network segregation and integration in patients with disorders of consciousness
Rajanikant Panda[1], Jitka Annen[2], Olivia Gosseries[2], Athena Demertzi[3], Charlotte Martial[1], Manon Carrière[1], Charlène Aubinet[1], Jean-Flory Tshibanda[4], Steven Laureys[1]
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M640 Disruption of large-scale brain network dynamics across multiple addiction-related processes
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M641 Altered connectomic measures in primary open angle glaucoma: a graph theoretical study
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M642 Can short-term neurobiological embedding of child maltreatment be detected in connectivity patterns?
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M643 Investigating homeostatic brain function: evidence for recursive property of the thermoregulatory NW
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M644 Large-scale Dynamic Causal Modeling of Major Depressive Disorder based on Resting-state fMRI
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M645 A Computational Model of the functional connectivity of the rodent brain
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M646 The localized genetic organization of fMRI functional connectivity
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M647 Dynamic causal modelling of effective connectivity during music perception
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M648 Functional connectivity differences between cognitively impaired and non-impaired active fighters
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M649 Time-Variant Brain Connectivity and Volatility Models: Functional Neuroanatomy of Personality
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M650 Sleep-dependent changes in resting state functional connectivity after topographical navigation
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M651 Molecular Mechanisms of Resting State Functional Networks in Postoperative Delirium Patients
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M652 Delineating Brain Region- and Network-Level Factors Underlying the Pain-Cognition Relationship
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M653 Performance of multivariate connectivity approaches using simulated fMRI data
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M654 Striatal connectivity gradients and their association with schizotypy in a non-clinical sample
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M655 The underlying causal neuronal dynamics of obesity and hunger state
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M656 Functional Network Topology in Parkinsons dDiseas Patients with Mild Cognitive Impairment
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M657 Claustrum Functional Connectivity in Parkinsons dDiseas Patients with Mild Cognitive Impairment
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M658* Multi-Scale Network Regression: A New Low-Rank And Sparse Multivariate Connectivity Analysis Method
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M659 Individual and group-level multivariate resting state fMRI profiles in vascular cognitive impairment
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M660 Evaluation of Effective Connectivity of Driving Performance Using Dynamic Casual Modeling
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M661 Dynamic functional connectivity states in the resting-state are correlated with pain thresholds
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M662 Functional gradients of the human subcortex
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M663 The dynamics of the improvising brain: a study of musical creativity
Patricia Alves da Mota[1], Henrique Fernandes[1,2], Angus Stevner[1,2], Ole Heggli[1], Nuno Sousa[3], Joana Cabral[3,2,1], Peter Vuust[1], Morten Kringelbach[2,1]
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M664 Disruptions in functional connectivity of the insular subdivisions in suicidal military veterans
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M665* Reliability of dynamic network reconfiguration: impact of data length and cognitive states
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M666* Inferring whole-brain effective connectivity from fMRI data
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M667 A Whole Brain Approach to Study Altered Functional Connectivity in Gliomas
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M668 Can resting-state connectivity inform about the induced effects of local brain stimulation?
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M669 Discovering and Characterizing Dynamic Functional Brain Networks
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M670 Resting State Analysis in Multiorgan Failure Reveals Default Mode Network hyperconnectivity
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M671 Differential topological property of brain functional networks during pain and touch processing
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M672 Dynamic Frontostriatal Peak Connectivity in Alcohol Use Disorder
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M673 Interaction Information Along Lifespan Reveals a Redundant Role of the Default Mode Network
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M674 Structure-function multi-scale connectomics is an accurate predictor of brain aging
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M675 Structural embedding of human brain activity using harmonic decomposition shows behavioral relevance
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M676 Brain Network Segregation and Integration During an fMRI Pain Experiment
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M677 Changes in functional connectivity before and after surgery in patients with postoperative delirium
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M678 Ketamine-induced alterations in brain functional connectivity and their reversal by risperidone
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M679 Impact of brain parcellation on parameter optimization of the whole-brain dynamical models
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M680 Amygdala Functional Connectivity in Depression – Disentangling Pathology, Risk, and Resilience
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M681 Brain functional connectivity asymmetry: left hemisphere is more modular
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M682 Morphometric Similarity Network Construction Approaches with Restricted MR Sequences
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M683 Dynamic functional connectivity states during rest estimated from a surface and window-less approach
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M684 Hemispheric Difference in Group, Task and Individual-dependent Variation of Functional Networks
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M685 Resting-state functional connectivity dynamics as biomarkers for post-stroke recovery
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M686 A Reliability Analysis of Spectral DCM of the core DMN for Large Homogeneous Groups of Subjects
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M687 EEG microstate features predict BOLD-fMRI dynamic functional connectivity states
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M688 Intrinsic network interactions explain individual differences in mentalizing ability in adolescents
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M689 Classification of epileptic states from fMRI dynamic functional connectivity using machine learning
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M690 Elaboration Benefits Source Memory Encoding Through Centrality Changes
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M691 Characterization of brain connectivity patterns of MCI patients in comparison to healthy elderly
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M692 Default mode network dynamics predict sequences of cognitive states during naturalistic stimulation
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M693 The effect of global signal regression on DCM estimates of resting state fMRI connectivity
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M694 Time-varying Simultaneous EEG/fMRI Functional Networks of Encoding the Meaning of Novel Words
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M695 Resting State fMRI: The Stability of Functional Connectivity
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M696 Somatosensory Maps to Sensory Profiles in ASD: a Normative Gradient Mapping
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M697 Structural and functional brain correlates of disinhibition in young heavy alcohol users
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M698 Brain Hierarchical Atlas: Multi-Scale versus Optimal Strategies in the Pathological Brain
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M699 Augmented Reality and Functional Connectivity Visualization using ARCore
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M700 Gender difference of intrinsic connectivity network efficiency along low-frequency
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M701 Reliability of Functional Network Parameters in Highly Sampled Individuals
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M702 Default or not default? Resting state network connectivity correlates with learning success
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M703 Brain connectivity is modularly represented in the genome
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M704 Whole-brain network modelling of psilocybin treatment for depression
Jakub Vohryzek[1,2], Joana Cabral[1,2], Louis-David Lord[1,2], Robin Carhart-Harris[3], Gustavo Deco[4,5,6,7], Morten Kringelbach[1,2]
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M705 The association between functional homotopy and laterality of hemispheric functional segregation
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M706 The Epicenter of Non-Fluent PPA Has the Greatest Syntactic Network Centrality in Healthy Individuals
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M707 Evidence of whole body networks: Task-related BOLD oscillations in the brain and the periphery
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M708 Genetic Influences on frontal-subcortical networks in healthy adults
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M709 Modularity and Flexibility Quantify Unique Perceptions of Music and Speech in the Human Brain
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M710 Causal Relationships between Neuromodulatory Centers and DMN regions
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M711 How to Measure Functional Connectivity: Raw vs. Standardised Correlations
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M712 Network Topology of the Mesoscale Marmoset Connectome
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M713 The glucose metabolism of central brain network nodes
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M714 Impact of Autocorrelation in Resting-State Functional Connectivity
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M715 Are Functional Connectivity-based Canonical Brain Network Configurations Metric-dependent?
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M716 Searching the optimal threshold: comparison of different topological filtering schemes
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M717 Changes in resting state networks in cocaine addicts after rTMS treatment on the left DLPFC
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M718 Modulating functional connectivity during motor imagery using rt-fMRI connectivity neurofeedback
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M719 Childhood trauma and polygenic risk for schizophrenia risk project on nucleus accumbens connectivity
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M720 Age-derived Brain Network Destabilization May Reflect Early Warning Signs of Neurometabolic Stress
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M721 Differential Effects of Trait Empathy on Functional Network Centrality
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M722 Connector hub mental illness symptoms are predicted by the functional connectivity of connector hubs
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M723 Aberrant functional connectivity profiles of the AIC and PIC as core markers of depression
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M724 Tools and methods for integrative analysis in network neuroscience
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M725 Development of network topology and functional connectivity of the prefrontal cortex
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M726 Long term brain functional connectivity changes after neonatal ischemic stroke: a rs-fMRI study
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M727 Arousal Level-Dependent Resting State fMRI Connectivity Coupled with Pupil Behavior
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M728 Integrating Structural and Effective Connectivity
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M729 Effective connectivity in a "duration selective" cortical network
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M730 Investigating Preprocessing Strategy Effects on Hub Disruption Index for Human RS-fMRI Data
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M731 Tri-clustering of dynamic functional connectivity
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M732 Large-scale brain networks underlying domain-specific memory, intelligence, and academic performance
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M733 Aberrant effective connectivity in first-episode schizophrenia correlates with positive symptoms
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M734 Temporal community detection via trajectory clustering identifies fluctuating brain networks
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M735 Reorganization of Functional Hubs during Non-Rapid Eye Movement Sleep after Sleep Deprivation
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M736 Resting-State "Physiological" Networks
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M737 Modeling brain dynamics after tumor resection using The Virtual Brain
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M738 Network connectivity explains regional differences in intrinsic activity dynamics
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M739 Resting-state fMRI dynamic functional network connectivity and associations with psychopathy traits
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M740 Hierarchical heterogeneity of circuit properties across human cortex shapes multiple temporal scales
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M741 Predicting task activation from resting connectivity in Schizophrenia patients
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M742 Working Memory Load-dependent Reorganization of Intrinsic Connectivity Networks
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M743* A toolbox for fMRI co-activation pattern analysis: description and illustration
Thomas Bolton[1], Constantin Tuleasca[2], Gwladys Rey[3], Diana Wotruba[4], Julian Gaviria[5], Herberto Dhanis[6], Eva Blondiaux[6], baptiste gauthier[7], Lukasz Smigielski[8], Dimitri Van De Ville[9]
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M744 Serial ketamine therapy induced changes in DMN functional connectivity in major depressive disorder
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M745 A Graph Theory Study of Reward Related Networks in Adolescents Across Psychiatric Symptoms
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M746 Effects of Temporal Filtering on Spectral Dynamic Causal Modeling
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M747 Remapping of functional connections from the subthalamic nucleus in Parkinson's disease
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M748 Longitudinal Functional Correlativity Evaluation by Graph Analysis in Prodromal Alzheimer's Disease
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M749 Precuneal Functional Connectivity Predicts Visual Restitution Training Effects in Chronic Hemianopia
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M750 Data Aggregation and its impact on brain network profiles: Applications of graph theoretic analysis
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M751 Calculating dynamic network reconfiguration using a new, efficient, and intuitive method
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M752 Revealing directional cross-regional functional interplays with sparse coupled hidden Markov models
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M753 Dynamic time warping outperforms correlation in detecting atypical functional connectivity in autism
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M754 LSTM Analysis of fMRI Data for Identifying Distinctive Temporal Dynamics in Schizophrenia Patients
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M755 Dynamic interactions of spatiotemporally overlapping functional networks across sleep stages
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M756 A Simulation-Based Comparison of Dynamic Connectivity Methods
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M757 How Local Perturbations Affect Large-Scale Neural Dynamics: a Simulation Study Using Kuramoto Model
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M758 Extracting and Ranking Features of Functional Connectivity with Deep Learning
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M759 A New Method to Analyze Laterality: Resting State Laterality Networks
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M760 Dynamic Functional Connectivity of Resting fMRI is Less Reliable than Static Functional Connectivity
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M761 Modulatory effects of dynamic fMRI-based neurofeedback on emotion regulation during adolescence
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M762 NiBetaSeries: Tasking State Correlations
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M763 Understanding the impact of parameter choices on the reliability of flexibility in multilayer brain
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M764 Connectomic Profiling of Brain Tumour Patients
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M765 Estimating latent functional connectivity underlying multiple brain states
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M766 Detecting State Changes in Community Structure of Functional Brain Networks
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M767 Neurochemical and connective properties of amygdala in borderline personality disorder
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M768 Modular Segregation of Functional Brain Networks Supports the Development of Attention Function
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M769* Large-scale synchronization of cortical oscillations in the human connectome
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M770 Task Identification based on Functional Connectomes
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M771 The lateralization of intra-hemispheric functional connectivity under resting and tasking state
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M772 Altered Functional Connectivity within Sensorimotor and Cerebellar Networks in ALS
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M773 Multilayer fMRI Networks Based on Information Theory
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M774 Dynamics of segregation and integration in directional brain networks
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Methods Development

M775 A physical model of localized persistent weakly-evanescent cortical brain waves
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M776 Real-time estimation of brain activity from high density EEG
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M777 Behavioral Profiling of Autism Connectivity Abnormalities
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M778 Injecting domain information into linear machine learning models through post-hoc modification
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M779 Neurovascular Coupling: Insights from Multi-modal Dynamic Causal Modelling for fMRI and MEG
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M780 The Structural Complexity of the Cortical Gray Matter at Ultra-High Field MRI
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M781 Disentangling Heterogeneity in Clinical Neuroimaging Data using Tensor Gaussian Predictive Processes
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M782 A local group differences test for subject-level multivariate density outcomes in neuroimaging
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M783 Deep canonical correlation analysis for simultaneous EEG-fMRI data: Evaluation from hand clenching
Hanh Vu[1], Hyun-Chul Kim[1], Jong-Hwan Lee[1]
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M784 Testing for shared information in multivariate patterns by cross-validated representational-matching
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M785 BrainIAK Education: User-Friendly Tutorials for Advanced, Computationally-Intensive fMRI Analysis
Manoj Kumar[1], Cameron Ellis[2], Qihong Lu[1], Hejia Zhang[1], Peter Ramadge[1], Nicholas Turk-Browne[2], Kenneth Norman[1]
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M786 Mapping Large-Scale Directional Networks with Spectral Features of Electrocorticography
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M787 Exploring a hybrid auditory fMRI protocol combining ISSS and Multiband sequences
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M788 Frequency-adaptive broadband (FAB) beamforming for broadband EEG/MEG data
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M789 Intrinsic non-stationarity correction for Fixel-Based Analysis
Robert Smith[1,2], Dennis Dimond[3], David Vaughan[1,4], Donna Parker[1], Thijs Dhollander[1,2], Graeme Jackson[1,4,2], Alan Connelly[1,2]
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M790 Detecting individual voice patches in humans
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M791 Multivariate phase slope index as a measure of the directionality of frequency-specific couplings
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M792 Integrated radiofrequency coil and animal holder design for awake marmoset fMRI
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M793 Estimating and analysing linear transformations between multivariate patterns in fMRI
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M794 Automated cell density mapping in retrograde neuroanatomical tracer data
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M795 GRASP-fMRI: Applying rotated stack of stars EPI to resort the hemodynamic response
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M796 A large-scale network computational model of bilaterally coupled neuron-glia masses
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M797* Rapid Acceleration of the Permutation Test via Slow Random Walks in the Permutation Group
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M798 Group-level Confound Removal for Model-based Stratification of Heterogeneous Populations from fMRI
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M799 Joint analysis of the low rank correlation matrices and clustering based on majorization
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M800 From low-latency to predictive neurofeedback: methods and feasibility check
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M801 Neuronal Signal Recovering from Hemodynamic Response: the Mixture Components Indexing Approach
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M802 Mutual Information for Relationship Structure and Trialwise Effect Size of Input, Brain and Behavior
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M803 Cluster Independent Component Analysis for analyzing multi-subject resting state fMRI data
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M804 Introducing Bioimage Suite Web: A Simple, Modern, & Powerful Neuroimaging Software Suite
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M805 New Approach for Analysis of Resting-state Functional MRI: Convolutional Auto-Encoder
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M806 Linked independent component analysis for multimodal data fusion in very large neuroimaging datasets
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M807 On Computing Age Trajectories of Brain Volumes Using Additive Mixed Models
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M808 The co-alteration profile of the cingulate cortex
Jordi Manuello[1], Lorenzo Mancuso[2], Linda Ficco[2], Greta Polchi[2], Alessia Teneggi[2], Donato Liloia[3], Andrea Nani[3], Tommaso Costa[3], Sergio Duca[4], Franco Cauda[2]
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M809 MMRI: a novel approach to assess the reproducibility of task fMRI data
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M810 A computational approach for individualized energy landscape analysis
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M811 Correcting for circular inference without data splitting
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M812 Modelling state switching behaviour in MEG with probabilistic recurrent neural networks
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M813 A Novel Framework for the Detection of Nonlinear Interactions in the Human Brain
Mina Jamshidi Idaji[1], Klaus-Robert Müller[2], Burkhard Maess[1], Arno Villringer[1], Vadim Nikulin[1]
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M814* Clustering the brain with "CluB": A new toolbox for quantitative meta-analysis of neuroimaging data
Manuela Berlingeri[1], Francantonio Devoto[2], Francesca Gasparini[3], Saibene Aurora[3], Silvia Corchs[3], Lucia Clemente[4], Laura Danelli[5], Isabella Cattinelli[6], Marcello Gallucci[7], Ricccardo Borgoni[4], Alberto Borghese[6], Eraldo Paulesu[2]
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M815 Empirical performance of the nonparametric rotation test on fMRI time series
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M816 Evaluation of ultrafast simultaneous multislice (SMS) EPI acquisition for resting state fMRI
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M817 Fast Detection of Brains with Abnormalities Using Recursive Agglomerative Clustering
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M818 An automated deep neural network for denoising task-based fMRI data
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M819 Adaptive filtering with anatomical priors: Integrating structural and effective connectivity
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M820 A Novel Approach to Temporally Dynamic Probabilistic MEG Source Reconstruction with RNNs
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M821 Computational study of a memory trace model of temporal preparation
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M822 Topological gene-expression networks recapitulate brain anatomy and function
Alice Patania[1], Pierluigi Selvaggi[2], Mattia Veronese[3], Ottavia Dipasquale[4], Giovanni Petri[5], Paul Expert[6]
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M823 Laplace-domain diffuse optical spectroscopy for brain imaging
Kalpesh Mehta[1], Ali Hasnain[1], Xiaowei Zhou[1], Nanguang Chen[1]
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M824 Energy-Period Characteristics of Brain Networks in Group fMRI Resting-State Data
Dietmar Cordes[1], Muhammad Kaleem[2], Zhengshi Yang[1], Xiaowei Zhuang[1], Tim Curran[3], Karthik Sreenivasan[1], Virendra Mishra[1], Rajesh Nandy[4]
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M825 Local sulci width estimation applied to compare patients with Alzheimer's disease and Controls
Julieta Mateos[1], Sarael Alcauter[2], Alfonso Gastelum Strozzi[3], Fernando Barrios[4], Ernesto Bribiesca[5], Jorge Marquez[3]
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M826* Multivariate meta-analytic tools to explore associations between cognitive functions & brain regions
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M827 Novel Matrix Regression for Discovering Covariate-related Functional Connectivity Variations
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M828 Towards the Connectomic Basis of Brain Reserve
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M829* LISA as a general tool for statistical inference in fMRI
Gabriele Lohmann[1,2], Johannes Stelzer[1,2], Klaus Scheffler[1,2]
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M830 Characterization of Resting-State Networks in Terms of the Hurst Exponent
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M831 Deep Convolutional Neural Networks for automatic classification of EEG/MEG Independent Components
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M832 Modular Structure of Anatomical Brain Networks across the Human Lifespan
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M833 Matching Methods for Observational Data with Small Group Sizes, Applied to Autism Spectrum Disorder
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M834 Evaluating Statistical Hierarchical Models to Pool Full fMRI Images Across Studies
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M835 Valid circular inference of fMRI using ARI: False-positive and power analysis using realistic data
Wouter Weeda[1], Martha Van Kempen[1], Jonathan Rosenblatt[2], Livio Finos[3], Aldo Solari[4], Jelle Goeman[5]
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M836 Evaluating Wavelet Coherence Based Connectivity Estimators
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M837 Silent fMRI with visual and auditory stimulation using 3D radial T2*-weighted ZTE-BURST sequence
Marta Lancione[1], Guido Buonincontri[2,3], Luca Cecchetti[1], Mauro Costagli[2,3], Jan Kurzawski[4], Emilano Ricciardi[1], Rolf Schulte[5], Ana Beatriz Solana[5], Michela Tosetti[2,3]
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M838 The ARIbrain App: A versatile application for fMRI data analysis based on valid circular inference
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M839 Gyrification-based Patterns of Structural Covariance
Rachele Sanfelici[1], Anne Ruef[1], Aristideis Sotiras[2], Alessandro Pigoni[3], Nora Penzel[1], Julian Wenzel[1], Linda Antonucci[1], Dominic Dwyer[1], Nikolaos Koutsouleris[1]
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M840 A meta-analysis on homotopic co-activations, interhemispheric functional connectivity revisited
Lorenzo Mancuso[1], Tommaso Costa[2], Andrea Nani[2], Jordi Manuello[3], Donato Liloia[2], Gabriele Gelmini[2], Giorgio Giuliano[1], Sergio Duca[4], Franco Cauda[1]
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M841* Tedana: Robust and extensible software for multi-echo denoising
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M842 An affordable method for electrode localization for standalone EEG or simultaneous EEG-fMRI scanning
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M843 Connectome sorting by Consensus Clustering increases separability in group neuroimaging studies
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M844 Assessing small sample bias in coordinate-based meta-analyses: diagnostics for ALE
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M845 Comparing the cortical thickness between FreeSurfer and a euclidean distance transform approach
Juan José Velázquez-Reyes[1], Julieta Mateos[2], Sarael Alcauter[3], Fernando Barrios[4], Jorge Marquez[1]
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M846* Estimating Directed Functional Connectivity using Echo-State Networks
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M847 Tract Edge Diffusion Statistics; measuring diffusivity at the boundary of the white matter
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M848 MAPPING INDIVIDUAL DIFFERENCES IN FAMILIES WITH ADHD: BEYOND CLASSICAL CASE-CONTROL-SIBLING ANALYSES
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M849 Vocal peaks: data-driven fMRI region of interest analysis uncovers nonVocal upregulated synchrony
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M850* Inter-species Comparison and Alignment between Human and Non-human Primate
Ting Xu[1], Karl-Heinz Nenning[2], Daniel Margulies[3], Damien Fair[4], Charles Schroeder[5], Georg Langs[2], Michael Milham[1]
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M851 MMM: A multilevel model for multimodal learning of brain connectivity using fMRI and diffusion MRI
Ying Guo[1], Yingtian Hu[1]
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M852 Automatic seed selection for resting state fMRI data analysis by using machine learning
Mingyi Li[1], Katherine Koenig[1], Jian Lin[1], Mark Lowe[1]
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M853 Improved reconstruction of white matter tissue close to brain tumors using single-shell 3-tissue CSD
Hannelore Aerts[1], Thijs Dhollander[2], Daniele Marinazzo[1]
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M854 Optimal Cutting of the Cortex for Cytoarchitectonic Visualization: a Neuronavigation-Based Approach
Jennifer Novek[1,2], Trisanna Sprung-Much[1,2], Erika Nolan[1,2], Stephen Frey[3], Michael Petrides[1,2]
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M855* QDECR: A flexible, extensible vertex-wise analysis framework in R
Sander Lamballais[1], Henning Tiemeier[2], Meike Vernooij[1], Mohammad Ikram[1], Ryan Muetzel[1]
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M856 Categorizing cortical dysplasia lesions by surgical outcome using network functional connectivity
Mark DiFrancesco[1], Abdullah Bdaiwi[1], James Leach[1], Francesco Mangano[1], Hansel Greiner[1]
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M857 An Extremely Simple, Valid and Sensitive Statistical Test for High-dimensional Biological Data
Eric Maris[1], Linda Geerligs[1]
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M858 MEG based functional microscopy using traveling wave priors: a new technology for exploring epilepsy
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M859 A validation of the MACS toolbox for EEG data analysis and second-level fMRI
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M860 Deep Non-Linear ICA Reveals Site-Invariant Functional MRI Features
Noah Lewis[1], Rogers Silva[2], Aapo Hyvärinen[3], Vince Calhoun[2]
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M861 Deep Learning for High-Resolution Image Segmentation
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M862 Real-Time, python-based and amplifier-agnostic EEG-fMRI artifact correction
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M863 Network Structural Dependency in the Human Connectome Across the Lifespan
Ai Wern Chung[1], Markus Schirmer[2,3,4], Natalia Rost[2], P. Ellen Grant[1]
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M864 Turn it sideways: a new approach for determining the specificity of functional ROIs
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M865 Combined signal level and multivoxel pattern analysis for cognitive task activity
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M866 A Structural Image Processing Pipeline for the Baby Connectome Project
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M867 Submodule Extraction and Network Dissimilarity based on Harmonic Holes
Hyekyoung Lee[1], Moo Chung[2], Hongyoon Choi[3], Hyejin Kang[4], Seunggyun Ha[3], Yu Kyeong Kim[5], Dong Soo Lee[4]
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M868 An EM algorithm to optimally estimate BOLD signals from multi-echo fMRI data without ICA
Ming Bo Cai[1], Yael Niv[1]
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M869 Prospective Neurotyping of Inhibitory Response in the ABCD Study
Nicholas Allgaier[1], Bader Chaarani[2], Daniela Cornejo[3], Donald Hagler[4], Anders Dale[4], Alexandra Potter[1], Hugh Garavan[1]
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M870 Machine Learning Approach for Differentiating Voiding Dysfunction with Functional Connectivity
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M871 Neural flows: identifying reorganization of brainwave dynamics across neuroimaging modalities
Paula Sanz-Leon[1], James Roberts[1]
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Multivariate modeling

M872 Bi-stability in the critical human brain
Sheng H Wang[1], Tuomas Puoliväli[1], Gabriele Arnulfo[2], Felix Siebenhühner[3], Lino Nobili[2], Satu Palva[4], Matias Palva[5]
[1]University of Helsinki, Helsinki, Finland, [2]University of Genoa, Genoa, Italy, [3]University of Helsinki, Helsinki, Uusimaa, [4]University of Glasgow; University of Helsinki;, Glasgow, UK & Helsinki, Finland, [5]University of Glasgow; University of Helsinki;, Glasgow, UK & Helsinki, Finland

M873 On Early Brain Folding Patterns Using Biomechanical Growth Modeling
Xiaoyu WANG[1], Amine Bohi[2], Mariam Al Harrach[3], Mickael Dinomais[3], Julien Lefèvre[2], François Rousseau[1]
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M874 Functional subdivisions around FEF revealed by multi-modal modeling of movie-evoked activity
Hiroto Yamaguchi[1,2], Satsohi Nishida[2,1], Tomoya Nakai[2,1], Shinji Nishimoto[2,1]
[1]Osaka University, Osaka, Japan, [2]Center for Information and Neural Networks (CiNet), NICT, Osaka, Japan

M875 Predicting General Intelligence from Fine-Grained Functional Connectivity
Ma Feilong[1], J. Swaroop Guntupalli[2], Samuel Nastase[3], Yaroslav Halchenko[1], James Haxby[1]
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M876 A dynamical systems framework to uncover the drivers of large-scale cortical activity
Arian Ashourvan[1], Sergio Pequito[2], Maxwell Bertolero[1], Jason Kim[1], Danielle Bassett[1], Brian Litt[1]
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M877 Multiblock Components Analysis for Brain Imaging Data
Atsushi Kawaguchi[1]
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M878 Deciphering the Progression of PET Alterations using Surface-Based Spatiotemporal Modeling
Igor Koval[1], Arnaud Marcoux[1], Ninon Burgos[1], Stéphanie Allassonnière[2], Olivier Colliot[3], Stanley Durrleman[1]
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M879 Assimilation of a surprizing flavor stimulus to an expected one decoded by MVPA
Alberto Rodríguez-Izquierdo[1], Olga Davidenko[2], Béatrice Claise[3], Abdlatif Benmoussa[1], Gilles Fromentin[2], Daniel Tomé[2], Nachiket Nadkarni[4,5], Nicolas Darcel[2], Jean-Marie Bonny[6]
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M880* Sequential Encoding and Decoding of Dynamic Task Data
Cameron Higgins[1], Yunzhe Liu[2], Zeb Kurth-Nelson[2,3], Ray Dolan[2,4], Timothy Behrens[1,4], Diego Vidaurre[1], Mark Woolrich[1]
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M881 Group-level activation detection in task fMRI with canonical correlation analysis
Xiaowei Zhuang[1], Zhengshi Yang[1], Tim Curran[2], Rajesh Nandy[3], Dietmar Cordes[1]
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M882 Representational connectivity: comparing the sensitivity of dissimilarity metrics to noise
Eva Berlot[1], Jörn Diedrichsen[1]
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M883 Prediction of Neurocognitive Profiles in Youth from Resting State fMRI
Saige Rutherford[1], Mike Angstadt[1], Wesley Thompson[2], Monica Luciana[3], Alex Weigard[1], Luke Hyde[4], Mary Heitzeg[1], Chandra Sripada[1]
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M884 Spatial statistical inference for fMRI: examining specificity and sensitivity
Divya Brundavanam[1], Andre Marquand[2], Christian Beckmann[3], Erik van Oort[4]
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M885 Toolkit of multivariate methods for investigating brain-behaviour associations
Fabio Ferreira[1,2], Agoston Mihalik[1,2], Richard Nguyen[1,2], Janaina Mourao-Miranda[1,2]
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M886 Functional Connectedness Predicts Brain Size and Crystallized Intelligence
Kaustubh Patil[1,2], Robert Langner[2,1], Felix Hoffstaedter[1,2], Simon B. Eickhoff[1,2]
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M887 Ensemble of Clustered Knockoffs for robust multivariate inference on fMRI data
Binh Nguyen[1], Jérôme-Alexis Chevalier[1], Bertrand Thirion[1]
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M888 Sparse vs. non-sparse methods to uncover structural brain-behaviour relationships in adolescence
Agoston Mihalik[1,2], Fabio Ferreira[1,2], Michael Moutoussis[2,3], Gabriel Ziegler[2,4,5], Maria Rosa[1,2], Gita Prabhu[2,3], Leticia Oliveira[6], Mirtes Pereira[6], Adams Rick[1,2,3], Edward Bullmore[7,8,9,10], Peter Fonagy[11], Ian Goodyer[7,8], Peter Jones[7,8], NSPN Consortium[12,13], John Shawe-Taylor[14], Ray Dolan[2,3], Janaina Mourao-Miranda[1,2]
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M889 Atlas-based classification for identification of informative brain regions in fMRI data
Juan E. Arco[1], Paloma Díaz-Gutiérrez[1], Javier Ramírez[2], María Ruz[1]
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M890* Automated Online Code Generation for Training and Testing Machine Learning Models Using PHOTON
Ramona Leenings[1], Nils Winter[1], Claas Kaehler[1], Daniel Emden[1], Dominik Grotegerd[1], Nils Opel[1], Xiaoyi Jiang[1], Udo Dannlowski[1], Tim Hahn[1]
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M891* Towards universal brain encoding with multivariate regression and large scientific corpora
Jérôme Dockès[1], Russell Poldrack[2], Fabian Suchanek[3], Bertrand Thirion[4], Gaël Gaël Varoquaux[4]
[1]INRIA, Saclay, France, [2], [3]Télécom ParisTech, Paris, France, [4]Parietal Team, INRIA, Gif-sur-Yvette, France*

M892 A study on the effect of incorrect estimation of dimension in ICA for fMRI using AMARI index
Rajesh Nandy[1], Md Abdullah Mamun[1]
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M893 A "Mega-Localizer" FMRI Task for the Study of Functional Cortical Specialization
Bradley Buchsbaum[1], Christa Dang[1], Ashley Bondad[1]
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M894 Robust fMRI Hyperalignment based on repeated movie stimuli
Hendrik Mandelkow[1], Jacco de Zwart[1], Jeff Duyn[1]
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M895 Interpretable shared response model for fmri data
Hugo Richard[1], Bertrand Thirion[2], Jonathan Pillow[3]
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M896 Improving the Replicability of Brain Connectivity Analysis Findings Via Latent Network Topology
Shuo Chen[1], Peter Kochunov[1], L. Elliot Hong[1]
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M897 Can we trust the results of canonical correlation analysis of brain imaging data: a stability test
Qingqing Yang[1], Meng Liang[1]
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DISORDERS OF THE NERVOUS SYSTEM

Anxiety Disorders

T001 Use of a Riemannian-geometry-based classifier to diagnose PTSD with resting-state EEG data
Yong-Wook Kim[1,2], Sungkean Kim[1,2], Miseon Shim[3], Min Jin Jin[2], Seung-Hwan Lee[2,4], Chang-Hwan Im[1]
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T002 Altered functional connectivity with the hippocampus and cingulate in post-traumatic stress disorder
Paolo Nucifora[1], Mitchel Kling[2,3], Richard Ross[2,3], J Scott[2,3], Holly Barilla[2,3], Janeese Brownlow[2,3], Philip Gehrman[2,3], Seema Bhatnagar[2,4]
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T003 Increased Gray Matter Covariation in a Frontoparietal Network in Pediatric Social Anxiety Disorder
Zhen Liu[1], Yang Hu[2], Yiwen Zhang[2], Wenhong Cheng[1], Zhi Yang[2]
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T004 Accelerated epigenetic aging as a predictor of vulnerability to depression
Klara Mareckova[1], Anna Pačínková[2], Anja Klasnja[3], Lenka Anrýsková[4], Kateřina Stano Kozubik[5], Milan Brazdil[6], Tomáš Paus[7]
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T005 Neural correlates of NOS1-ex1f-VNTR allelic variation in panic disorder and agoraphobia
Isabelle Ridderbusch[1], Yunbo Yang[1], Heike Weber[2], Alfons Hamm[3], Alexander Gerlach[4], Andreas Stroehle[5], Bettina Pfleiderer[6], Volker Arolt[6], Hans-Ulrich Wittchen[7], Ulrike Lueken[8], Andreas Reif[9], Juergen Deckert[2], Tilo Kircher[1], Benjamin Straube[1]
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T006 Neural predictors for maladaptive stress coping
Marcus Grueschow[1], Katharina Schultebraucks[2], Bonanno George[3], Christian Ruff[1], Birgit Kleim[1]
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T007 Adolescent brain development modulates corpus callosum aberrance in social anxiety disorder
Zhi Yang[1,2], Zhen Liu[2], Yiwen Zhang[1], Ningning Li[1], Yang Hu[1], Wenhong Cheng[1,2]
[1]Shanghai Mental Health Center, Shanghai, China, [2]School of Medicine, Shanghai Jiaotong University, Shanghai, China

T008 Trait Anxiety Associated with Differences in BOLD Activation during Fear Generalization Task
Ashley Huggins[1], Carissa Weis[1], Elizabeth Parisi[1], Kenneth Bennett[1], Christine Larson[1]
[1]University of Wisconsin Milwaukee, Milwaukee, WI, United States

T009 The predictive value of neural reward processing in exposure therapy outcome
Silvia Papalini[1], Iris Lange[2], Jindra Bakker[2], Stijn Michielse[3], Machteld Marcelis[2], Marieke Wichers[4], Bram Vervliet[5], Jim van Os[6], Therese Van Amelsvoort[2], Liesbet Goossens[2], Koen Schruers[2]
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T010 The emotion regulatory network associates differently with different PTSD symptom clusters
Toshinori Chiba[1,2], Kentaro Ide[1,3], Ai Koizumi[4], Vincent Taschereau-Dumouchel[5], Masafumi Funatsu[6], Shuken Boku[2], Sumie Kato[6], satoshi Umeda[7], Akira Fujikawa[7], Akitoyo Hishimoto[2], Yuka Horiuchi[8], Miyako Shirakawa[3], Toru Maruyama[7], Law Hakwan[5], Ichiro Sora[2], Mitsuo Kawato[1]
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T011 Cortico-subcortical functional connectivity in states of sustained anxiety in humans
Benjamin Meyer[1], Raffael Kalisch[1], Helena Metzker[1]
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T012 Anxiolytic effects of a prebiotic in healthy females is associated with elevated brain GABA levels
Nicola Johnstone[1], Chiara Milesi[2], Olivia Burn[2], Tom van den Borgert[3], Kathryn Hart[4], Paul Sowden[5], Phil Burnet[6], Kathrin Cohen Kadosh[7]
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T013 Amygdala-targeted Neurofeedback Intervention for Post-Traumatic Stress Disorder
Tom Fruchtman-Steinbok[1]
[1]Tel Aviv University, Tel Aviv, Israel

T014 Representation of Threat Anticipation and Behavior in a Human Approach/Avoidance Conflict Test
Aslan Abivardi[1,2], Saurabh Khemka[1,2], Dominik Bach[1,2,3]
[1]Computational Psychiatry Research, Department of Psychiatry, University of Zurich, Zurich, Switzerland, [2]Neuroscience Center Zurich, University of Zurich, Zurich, Switzerland, [3]Wellcome Centre for Human Neuroimaging and Max Planck UCL Centre for Computational Psychiatry and Ageing Research, University College London, London, United Kingdom

T015 Trait anxiety in glaucoma predicts greater gray matter volume in the parahippocampal gyrus
Izumi Matsudaira[1], Yasuko Tatewaki[2], Kazuko Omodaka[3], Ryuta Kawashima[4], Toru Nakazawa[3], Yasuyuki Taki[5]
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Eating Disorders

T016 Bariatric surgery induces sustained neuroplasticity of abnormal brain structures in obese patients
Yuanyuan Wang[1], Yueyan Ding[1], Lei Liu[1], Chunxin Hu[1], Wenchao Zhang[1], Jingyuan Li[1], Karen M. von Deneen[1], Gang Ji[2], Gene-Jack Wang[3], Yi Zhang[1]
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T017 Altered functional network connectivity of resting-state networks in obese subjects
Yueyan Ding[1], Yuanyuan Wang[1], Chunxin Hu[1], Lei Liu[1], Wenchao Zhang[1], Jingyuan Li[1], Gang Ji[2], Yongzhan Nie[2], Gene-Jack Wang[3], Yi Zhang[1]
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T018 Reward and Anxiety Network Activity Predicts Psychometrics in Anorexia Nervosa and Anxious Controls
Elizabeth Burnette[1], Teena Moody[1], Monica S Wu[1], Courtney Sheen[2], Jessica Goldbeck[2], Michael Strober[1], Jamie Feusner[1]
[1]UCLA, Los Angeles, CA, United States, [2]UCLA, Los Angeles, CA, United States

T019 Hungry brains: A meta-analytical review of brain activation imaging studies on food perception
Francantonio Devoto[1], Laura Zapparoli[2], Rolando Bonandrini[1], Manuela Berlingeri[3], Anna Ferrulli[4], Livio Luzi[4], Giuseppe Banfi[5], Eraldo Paulesu[1]
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T020 Neural correlates of probabilistic reversal learning in anorexia nervosa
Fabio Bernardoni[1], Daniel Geisler[1], Joseph King[1], Franziska Ritschel[1], Ilka Boehm[2], Stefan Ehrlich[1], Michael Smolka[3]
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T021 Decoding satiation: machine learning on fasted and fed resting state data
Grace Shearrer[1], Jennifer Sadler[2], Nicollette Acosta[2], Kyle Burger[2]
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T022 Altered global brain network topology as a trait marker in patients with anorexia nervosa
Daniel Geisler[1], Viola Borchardt[2,3], Ilka Boehm[1], Joseph King[1], Tam Friederike[1,4], Michael Marxen[5], Ronald Biemann[6], Veit Roessner[4], Martin Walter[7,2], stefan ehrlich[1,4]
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T023 Behavioural and neural evidence that High ADHD symptoms are linked to enhanced food reward
Elizabeth Martin[1], Panagiota Kaisari[1], Colin Dourish[2], Pia Rotshtein[1], Suzanne Higgs[1], Maartje Spetter[1]
[1]School of Psychology, University of Birmingham, Birmingham, United Kingdom, [2]P1vital, Wallingford, Oxfordshire

T024 A longitudinal fMRI study of delay discounting during weight restoration therapy in anorexia nervosa
Arne Doose[1], Joseph King[1], Fabio Bernardoni[1], Daniel Geisler[1], Franziska Ritschel[1], Sophie Pauligk[1], Konrad Pásztor[1], Kerstin Weidner[2], Veit Roessner[3], Michael Smolka[4], Stefan Ehrlich[1]
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T025 Increased prefrontal activity and sustained effects of emotion regulation in anorexia nervosa
Sophie Pauligk[1], Maria Seidel[1], Sophia Fürtjes[1], Ilka Boehm[2], Joseph King[1], Daniel Geisler[1], Fabio Bernardoni[1], Alexander Strobel[3], Thomas Goschke[3], Stefan Ehrlich[1]
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T026 Age influences structural brain restoration during weight gain therapy in anorexia nervosa
Lisa-Katrin Kaufmann[1,2], Jürgen Hänggi[2], Lutz Jäncke[3], Volker Baur[1], Marco Piccirelli[4], Spyros Kollias[5], Ulrich Schnyder[6], Chantal Martin-Soelch[7], Gabriella Milos[1]
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T027 Oxytocin effects on resting brain perfusion in females with/without bulimia-binge eating disorder
Daniel Martins[1], Monica Leslie[2], Sara Rodan[1], Fernando Zelaya[1], Janet Treasure[2], Yannis Paloyelis[1]
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Medical illness with CNS impact (e.g. chemotherapy, diabetes, hypertension)

T028 Longterm impact of prenatal exposure to chemotherapy on attentional neurodevelopment: an ERP study
Jeroen Blommaert[1], Rob Zink[1], Sabine Deprez[1], Ivan Myatchin[1], Patrick Dupont[1], Tineke Vandenbroucke[1], Charlotte Sleurs[1], Kristel Van Calsteren[1], Frédéric Amant[2], Lieven Lagae[1]
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T029 Racial diversity in studies included in imaging meta-analyses of type 2 diabetes, obesity and stroke
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T030 White matter integrity contributes to cognitive heterogeneity in type 2 diabetes patients
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T031 Predicting cognitive deficits after surgical resection of diffuse low-grade gliomas
Rafael Romero-Garcia[1], Mallory Owen[1], Moataz Assem[2], Pedro Coelho[3], Jessica Ingham[4], Alexa Mcdonald[4], Emma Woodberry[4], Luca Villa[1], Rohit Sinha[5], Thomas Santarius[5], Yaara Erez[2], John Suckling[1], Michael Hart[6]
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T032 Task load dependent hyperdeactivation of the default mode network after treatment for breast cancer
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T033 CBF and BOLD Responses in Pediatric Patients with Sickle Cell Anemia
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T034 Hippocampal Volume, Cognitive Reserve and Memory Problems in Breast Cancer Survivors
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T035 Alterations of brain connectivity in anemic subjects using fMRI under hypoxic and hyperoxic states
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T036 Brain Plasticity in Lung Cancer Patients Undergoing a Physical Activity Program: A VBM Study
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T037 Longitudinal analysis of manually segmented volumes in a HIV-infected and uninfected children cohort
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T038 Alterations in Resting-State Regional Homogeneity in Patients with Crohn's Disease in Remission
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T039 Detrimental Effects of Negative Messages on Social Cognitive Processing in Breast Cancer Patients
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T040 Interactive effects of cannabis and HIV infection on striatal-cortical functional connectivity
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T041 Longitudinal Evaluation of White Matter Integrity to Predict Glioblastoma Recurrence
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T042 Effects of Vascular Risk Factors on White and Gray Matter Perfusion in Cognitively Normal and MCI
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T043 Brain responses to hypoglycemia: do patients with type 1 diabetes differ from healthy controls?
Antonietta Canna[1,2], Heidi Ghron[3,1], Daniele Mascali[4,1], Pavel Filip[5,1], Amir Moheet[6], Anjali Kumar[6], Xiufeng Li[1], Evan Olawsky[7], Lynn Eberly[7], Fabrizio Esposito[2], Elizabeth Seaquist[6], Silvia Mangia[1]
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Obsessive-Compulsive Disorder and Tourette Syndrome

T044 Intentional inhibition in Tourette syndrome

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T045 Effects of Bergen 4-Day Treatment on Resting-State Graph Features in Obsessive-Compulsive Disorder

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T046 Mapping Cortical and Subcortical Asymmetry in OCD: Findings from the ENIGMA Consortium

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T047 Motor over Memory: dACC hyper-modulation in OCD is more pronounced during basic motor tasks

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T048 Checking and washing rituals are reflected in altered cortical thickness in OCD

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T049 Functional Connectivity of Putamen and Thalamus in Subclinical Obsessive-Compulsive Symptoms

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T050 Working memory and dysfunctional connectomics in youth with OCD

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T051 Static and Dynamic Functional Network Connectivity in Adolescent onset and Adult onset OCD Patients

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T052 Sustained Attention Induces Dysfunctional Cortical-Thalamic Effective Connectivity in OCD

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T053 Aberrant Causal Reasoning in Obsessive-Compulsive Disorder (OCD)

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T054 Disorder-Specific Hyper-Connectivity in Pediatric OCD Relative to Pediatric Anxiety

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T055 Subtype relevant alterations of regional neural activity in obsessive-compulsive disorder

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Other Psychiatric Disorders

T056 Cortical morphometry alterations in patients with functional constipation

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T057 White matter microstructural alterations in patients with functional constipation

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T058 An fMRI Investigation of Hot and Cool Executive Functions in Adults with ADHD

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T059 Objective Neurobehavioral Indices Guides Novel Classification of Recent Trauma Survivors

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T060 Regional Brain Structural Differences between ADHD Individuals with and without Treatment Response

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T061 Dyscalculia Disease Signature Obtained Using Effective Connectivity Modeled by DBN

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T062 A critical review of imaging-genetics studies in ADHD – a heterogeneous neurodevelopmental disorder

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T063 Neurofunctional Effects of Methylphenidate and Atomoxetine in ADHD during Sustained Attention

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T064 Numerical Processing in Post-Traumatic Stress Disorder

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T065 Association of Lower fractional anisotropy and higher inattention symptoms in older adults with ADHD

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T066 Cerebellar cortical thinning in developmental prosopagnosia links with face recognition symptoms

Jan Van den Stock[1], Daphne Stam[1], François-Laurent De Winter[1], Filip Bouckaert[1], Lies Van Assche[1], Maarten Van Den Bossche[1], Louise Emsell[1], Mathieu Vandenbulcke[1]
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T067 Baseline Functional MRI Results from the Canadian Psychiatric Risk and Outcome (PROCAN) Study

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T068 Children with Dyscalculia Show Hippocampal Hyperactivity During Symbolic Number Perception

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T069 Implicit markers of suicidality within borderline personality disorder: Leveraging neuronal priming

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T070 Early diagnostic intervention of Survey-based Deep Neural Network and Multivariate Bayesian SVM
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T071 Children with dyscalculia show left hemisphere connectivity deficiency
Metehan Çiçek[1,2], Nazife Ayyıldız[2], Sertaç Üstün[1], Emre Kale[2], Öykü Mançe Çalışır[2,3], Pınar Uran Şenol[4], Özgür Öner[5], Sinan Olkun[6]
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T072 Gray matter volume in antisocial personality disorder and psychopathy: An image-based meta-analysis
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T073 Voxel-Based Morphometry and Machine Learning Classification of Grey Matter in Conduct Disorder
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T074 Dimensions of Psychopathology are Dissociably Linked to Brain Structure in Youth
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T075 Exploring White Matter Functional Networks in Subtypes of ADHD Using Clustering Analysis
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T076 Reduced structure-function coupling converge to brain hubs and correlates with chronic ADHD
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T077 Resting State Functional Connectivity of Children with and without Dyscalculia*
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T078 Spatiotemporal dynamics underlying successful cognitive therapy for posttraumatic stress disorder
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T079 Brain response to negative facial expressions in conduct disorder in the multisite FemNAT-CD study
Stephane De Brito[1], Jack Rogers[2], Areti Smaragdi[3], Karen Gonzalez[3], Ruth Pauli[1], Rosalind Baker[4], Roberta Clanton[4], Phillipa Birch[4], Lisandra Ferreira[4], Abigail Brown[4], Gregor Kohls[5], Kerstin Konrad[6], Beate Herpertz-Dahlmann[6], Anne Martinelli[7], Christine Freitag[8], Graeme Fairchild[9]
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IMAGING METHODS

Anatomical MRI

T080 Impact of Smoothing Weights on Voxel-Based Quantification (VBQ) analysis
Geoffrey Salvoni[1], Siawoosh Mohammadi[2], Nadège Corbin[3], John Ashburner[3], Martina Callaghan[3], Christophe Phillips[1]
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T081* **The effect of sample size on brain template variability**
Guoyuan Yang[1], Meizhen Han[1], Sizhong Zhou[1], Weiwei Men[1], Jianqiao Ge[1], Jia-Hong Gao[1]
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T082 **An fMRI amygdala neurofeedback training normalize amygdala and hippocampal volumes**
Beni Mulyana[1,2], Masaya Misaki[1], Kymberly Young[3], Vadim Zotev[1], Jennifer Stewart[1], Samuel Cheng[2], Jerzy Bodurka[1,4]
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T083 **MR Contrast in Human Locus Coeruleus: A Cautionary Tale of Misleading Post Mortem MRI Results**
Evgeniya Kirilina[1,2], Charlotte Lange[3], Carsten Jäger[1], Tilo Reinert[1], Thomas Lohmiller[4], Siawoosh Mohammadi[5,1], Tobias Streubel[5,1], Malte Brammerloh[1,3], Anneke Alkemade[6], Birte Forstmann[6], Andreas Herrler[7], Alexander Schnegg[8], Markus Morawski[9], Nikolaus Weiskopf[1,3]
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T084 **Cortical thickness and volume over time in young people at high genetic risk for bipolar disorder**
Gloria Roberts[1], Rhoshel Lenroot[2], Bronwyn Overs[3], Janice Fullerton[3], Vivian Leung[1], Angela Stuart[1], Andrew Frankland[1], Florence Levy[1], Dusan Hadzi-Pavlovic[1], Michael Breakspear[4], Philip Mitchell[1]
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T085 **The effect of face-masking structural MR images on the reliability of brain measures**
Elizabeth Buimer[1], Hugo Schnack[1], Neeltje van Haren[1,2], Pascal Pas[1], Hilleke Hulshoff Pol[1], Rachel Brouwer[1]
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T086 **Volume of Motor Area Predicts Motor Impulsivity**
Hui Ai[1], Yuanyuan Xin[2], Yuejia Luo[1], Pengfei Xu[3], Ruolei Gu[4]
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T087 **Revisiting anatomical abnormalities in congenital amusia – A multisite study**
Megha Sharda[1], Philippe Albouy[2], Isabelle Peretz[1]
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T088 **Predicting molecular composition with MRI**
Shir Filo[1], Oshrat Shtangel[1], Aviv Mezer[1]
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T089 **Association of MRI-detected brain volume change with prenatal exposure to heavy metal in teenage**
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T090 **Evolution of White Matter Connectivity and Cortical Myelination in Hominoids: Wild Chimpanzee Pilot**
Cornelius Eichner[1], Evgeniya Kirilina[2,3], Michael Paquette[1], Toralf Mildner[4], Torsten Schlumm[4], Kerrin Pine[2], Christa Müller-Axt[4], Ilona Lipp[2], Harald Möller[4], Guillermo Gallardo[4], Roman Wittig[5], Catherine Crockford[5], Nikolaus Weiskopf[2], Angela Friederici[1], Alfred Anwander[1]
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T091 **Non-invasive detection of age-related molecular profiles in the human brain**
Shir Filo[1], Oshrat Shtangel[1], Aviv Mezer[1]
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T092 **Screen media utilization and brain structure in children**
Jingnan Du[1], Wei Cheng[1], Jianfeng Feng[1]
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T093 **Anatomical changes in the remaining occipital cortex of hemispherectomy subjects with blindsight**
Loraine Georgy[1], John Lewis[1], Gleb Bezgin[1], Alan Evans[1], Alain Ptito[1,2]
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T094 **Effect of scanner version on brain morphometric measures derived from T1-weighted MRI**
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T095 **Quantifying Gray Matter Differences in Schizophrenia**
Kelly Rootes-Murdy[1], Elaheh Zendehrouh[1], Vince Calhoun[2], Jessica A. Turner[1]
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T096 Identifying Subjects with Cerebral Microbleeds in Big Datasets: a Pipeline for Candidate Selection

Vaanathi Sundaresan[1], Christoph Arthofer[2,3], Giovanna Zamboni[4], Stamatios Sotiropoulos[2,1,3], Peter Rothwell[4], Robert Dineen[2,3], Dorothee Auer[2,3], Mark Jenkinson[1], Ludovica Griffanti[1]
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T097 T1 gradient-echo and T1 spin-echo sequences detection of hypointense lesions in Multiple Sclerosis

Caterina Lapucci[1], Simona Schiavi[1,2], Nicola Romano[3], Laura Saitta[4], Matteo Pardini[1], Matilde Inglese[1,5], Luca Roccatagliata[3,4]
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T098 The Brain Structures Associated with Performance in the Block Design Cognitive Test

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T099 In Vivo Reproducible Human Amygdala Nuclei Segmentation by MR Imaging at High (7T) Magnetic Field

Siyan Fan[1], Daniel Coman[1], Maolin Qiu[1], Harry Pantazopoulos[2], Sabina Berretta[2], Julie Fudge[3], Anjali Sankar[1], Linda Spencer[1], Graeme Mason[1], Douglas Rothman[1], Hilary Blumberg[1]
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T100 Human Brain Structural Change Related to Chronic Methylmercury Poisoning

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T101 MOTION-RESOLVED 3D MAGNETIC RESONANCE IMAGING OF THE HUMAN EYE

Benedetta Franceschiello[1], Lorenzo Di Sopra[2], Ionta Silvio[3], David Zeugin[4], Michael Notter[5], Jessica Bastiaansen[2], João Jorge[6], Jérôme Yerly[7], Matthias Stuber[7], Micah Murray[8]
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T102 Middle Cerebral Artery distinctness improvement in MR imaging using High-Resolution SE-WB techniqu

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T103 7 Tesla MRI followed by histological 3D reconstructions in whole-brain specimens

Anneke Alkemade[1], Kerrin Pine[2], Evgeniya Kirilina[3], Pierre-Louis Bazin[4], Max Keuken[5], Martijn Mulder[5], Rawien Balesar[5], Josephine Groot[6], Robert Trampel[2], Nikolaus Weiskopf[7], Andreas Herrler[8], Harald Möller[9], Birte Forstmann[1]
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T104 Individual differences in TPH2 genetics determine the impact of early life stress on the brain

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T105 The development of a valid, reliable, harmonized segmentation protocol for the hippocampal subfields

Rosanna Olsen[1], Ana Daugherty[2], Renaud La Joie[3], Laura Wisse[4], Katrin Amunts[5,6], Jean Augustinack[7], Arnold Bakker[8], Andrew Bender[9], David Berron[10], Marina Boccardi[11], Martina Bocchetta[12], M. Mallar Chakravarty[13], Gael Chetelat[14,15], Robin de Florès[4], Jordan DeKraker[16], Song-Lin Ding[17], Ricardo Insausti[18], Olga Kedo[5], Susanne Mueller[3], Noa Ofen[2], Daniela Palombo[19], Naftali Raz[2], Craig Stark[20], Lei Wang[21], Paul Yushkevich[4], Qijing Yu[2], Valerie Carr[22]
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T106* Cortical parcellation using Surface-based Melbourne Children's Regional Infant Brain atlases

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T107 Cortical and subcortical alterations in migraine without aura

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T108 Morphometric Co-Alteration Networking in Schizophrenia: A Voxel-Based and Meta-Analytical Analysis

Donato Liloia[1], Andrea Nani[1], Jordi Manuello[2], Tommaso Costa[1], Paola Rocca[3], Claudio Brasso[3], Lorenzo Mancuso[4], Greta Polchi[4], Sergio Duca[5], Franco Cauda[4]
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T109 Association of cardiorespiratory fitness and gray matter volume in the general population (N=2.103)

Katharina Wittfeld[1], Carmen Jochem[2], Marcus Dörr[3], Ulf Schminke[4], Sven Gläser[3], Martin Bahls[3], Marcello Markus[3], Stephan Felix[3], Michael Leitzmann[2], Ralf Ewert[3], Robin Bülow[5], Henry Völzke[6], Martin Lotze[7], Deborah Janowitz[8], Sebastian Baumeister[9], Hans Grabe[8]
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T110 Multi-shot inversion recovery EPI with SMS excitation for high spatial resolution T1-mapping

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T111 Rapid protocol for brain T1 and T2* mapping: STrategically Acquired Gradient Echo at 1.5 T MRI

Maria Marcella Lagana[1], Yongsheng Chen[2,3], Laura Pelizzari[1], Pietro Cecconi[1], Francesca Baglio[1], E. Mark Haacke[2,3]
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T112 Cortical thickness changes in teenagers exposed to Manganese

Daniele Corbo[1], Lorella Mascaro[2], Claudia Ambrosi[2], Roberto Lucchini[3], Roberto Gasparotti[1]
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T113 Vitamin D concentration and cortical thickness in healthy human adults

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T114 In vivo hippocampal subfield volumes in bipolar disorder – a multisite ENIGMA mega-approach

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T115 Changes in sub-cortical brain volumes are associated with photoperiod

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T116 A combined univariate and multivariate game theory - based analysis of motor deficits in stroke

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T117 Assessment of brain abnormality of patients in smoking cessation with retrieval-extinction procedure

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T118 Enhancing the specificity of MRI measurements to biophysical components with ex-vivo gene expression

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T119 Is VLSM a valid tool for determining the functional anatomy of the brain?

Audrey Arnoux[1], Monica Toba[2], Marco Duering[3], Momar Diouf[4], Joel Daouk[5], Jean-Marc Constans[5], Laurent Puy[1], Melanie Barbay[1], Olivier Godefroy[1]
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T120 The effect of membrane lipids on quantitative Magnetization Transfer exchange constants

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T121 **Brain morphology in pure and comorbid ADHD with conduct disorder and oppositional defiant disorder**

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T122 **Structural deficits of frontostriatal white-matter in attention-deficit/hyperactivity disorder**

Sourena Soheili-Nezhad[1,2], Marcel Zwiers[1,2], Sophie Akkermans[1,2], Jilly Naaijen[1,2], Daan van Rooij[1,2], Marianne Oldehinkel[1,2,3], Jaap Oosterlaan[4], Dirk Heslenfeld[4], Catharina Hartman[5], Pieter Hoekstra[5], Barbara Franke[1,2,6], Jan Buitelaar[1,2,7], Christian Beckmann[1,2,8], Emma Sprooten[1,2]
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T123 **9.4T MRI reveals mesoscopic cortical gray matter vasculature in vivo**

Omer Faruk Gulban[1], Valentin Kemper[1], Dimo Ivanov[1], Benedikt Poser[1], Federico De Martino[1]
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T124 **Social-cognition cortical development covaries with amygdala size in children with Williams syndrome**

Jonathan Kippenhan[1], Franchesca Kuhney[1], Philip Kohn[1], Tiffany Nash[1], Michael Gregory[1], Carolyn Mervis[2], Daniel Eisenberg[1], Leah Sorcher[1], Madeline Hamborg[1], Shannon Grogans[1], Karen Berman[1]
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T125 **Degree Centrality of Co-alteration Networks: The Meta-analytic Hubs of Pathological Spread**

Lorenzo Mancuso[1], Andrea Nani[2], Jordi Manuello[3], Donato Liloia[2], Gabriele Gelmini[2], Sergio Duca[4], Tommaso Costa[2], Franco Cauda[1]
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T126 **The tissue intensity ratio as an index of atypical cortical development in autism spectrum disorder**

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T127 **Morphometry features in different types of epilepsy**

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T128 **Quantifying myelin: validating MR biomarkers with classical histology and mass spectrometry**

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T129 **Evaluation of Multi-Site Reliability in Regional Brain Volumes Without Harmonized Protocols**

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T130 **Persistent Brain Structural Anomalies in ADHD Across Childhood and Adulthood**

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T131* Construction of 4D Cortical Surface Atlases for the Baby Connectome Project
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T132 Quantifying spatial variability of white matter hyperintensity using information theory
Jin-Ju Yang[1], Gilsoon Park[1], Hee Jin Kim[2], Sang Won Seo[2], Jong-Min Lee[1]
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T133 Neuroanatomical basis for the cognitive and motivational pathways of ADHD in adolescents
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T134 That's what counts - lager amygdala-hippocampus formation associates with higher income
Martin Lotze[1], Carsten Schmidt[2], Christian Gaser[3], Alexander Lischke[4], Martin Domin[5]
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T135 A unified multi-scale probabilistic atlas of the human gray matter
Yasser Alemán-Gómez[1,2,3], Alberto Fernández-Pena[4], Emeline Mullier[5], Sebastien Tourbier[6], Alessandra Griffa[7], Philipp Baumann[8,1], Meritxell Bach Cuadra[3,9,10], Patric Hagmann[6]
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T136 Personality Traits and its Association with Hippocampus Volume in Psychologically Healthy Individual
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T137 Resilience mediates the relationship between depressive symptoms and caudal ACC morphology
Katharina Brosch[1], Tina Meller[1], Frederike Stein[1], Simon Schmitt[1], Dominik Grotegerd[2], Janik Goltermann[2], Udo Dannlowski[2], Igor Nenadic[1], Tilo Kircher[1], Axel Krug[1]
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T138 Neuroanatomy of elementary school late talking children
Agnieszka Kacprzak[1,2], Katarzyna Chyl[1], Agnieszka Debska[3], Gabriela Dzięgiel[1], Bartosz Kossowski[1], Magdalena Łuniewska[1], Joanna Plewko[1], Anna Grabowska[1], Ewa Haman[2], Katarzyna Jednoróg[1]
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T139 The correlation of symptom dimensions and gray matter volume in a transdiagnostic cohort
Frederike Stein[1], Gunnar Lemmer[1], Simon Schmitt[1], Katharina Brosch[1], Elena Fischer[1], Tina Meller[1], Dominik Grotegerd[2], Arne Nagels[3], Igor Nenadic[1], Udo Dannlowski[2], Tilo Kircher[1], Axel Krug[1]
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T140 Autism Spectrum Disorder and Childhood Apraxia of Speech:early common and distinct cortical features
Eugenia Conti[1,2], Alessandra Retico[3], Paolo Bosco[1], Letizia Palumbo[3], Giovanna Spera[3], Laura Biagi[1], Simona Fiori[1], Michela Tosetti[1], Giovanni Cioni[1,2], Filippo Muratori[1,2], Anna Chilosi[1], Sara Calderoni[1,2]
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T141 Stability of MRI radiomic features of the hippocampus: An analysis of test-retest variability
Zhuoran Li[1], Huichuan Duan[1], Kun Zhao[1], Yanhui Ding[1], Yuanjie Zheng[1]
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T142 A series of population-specific Indian brain templates and atlases for ages 6 to 60 years
Bharath Holla[1], Paul Taylor[2], Daniel Glen[2], John Lee[2], Chirag Ahuja[3], Urvakhsh Mehta[1], Ganesan Venkatasubramanian[1], Pramod Pal[1], Jitender Saini[1], Rebecca Kuriyan[4], Kumaran Kalyanaraman[5], Debasish Basu[3], Dimitri Orfanos[6], Gareth Barker[7], Robert Cox[2], Gunter Schumann[7], Rose Bharath[1], Vivek Benegal[1]
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T143 T1/FLAIR as a surrogate for T1/T2 in the assessment of myelination
Mira Bajaj[1], Daniel Pine[2], Anderson Winkler[1]
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T144 Hippocampal subfields alterations in terrorist attack survivors with post-traumatic stress disorder
Charlotte Postel[1], Alison Mary[1], Jacques Dayan[1], Florence Fraisse[1], Bérengère Guillery-Girard[1], Fausto Viader[1], Vincent de le Sayette[1], Denis Peschanski[2], Francis Eustache[1], Pierre Gagnepain[1]
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T145 Long-term brain changes associated to human pregnancy

Magdalena Martínez-García[1,2], María Paternina[3], Erika Barba-Müller[4], Lara Wierenga[5], Yasser Alemán-Gómez[6], Clara Pretus[7], Luis Marcos-Vidal[8], Laura Beumala[9], Cristina Pozzobon[10], Marisol Picado[9], Florencio Lucco[10], Juan Soliva[9], Adolf Tobeña[9], Jiska Peper[11], Eveline Crone[11], Agustín Ballesteros[10], Daniel Martín de Blas[12], Laura Carretero-Gómez[13], Oscar Vilarroya[9], Manuel Desco[14], Elseline Hoekzema[11], Susanna Carmona[3]
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T146 Hemispheric Difference in Brain Plasticity: Evidence from Unilateral Brain Damage Patients

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T147 Structural Imaging Predictors of Mild Traumatic Brain Injury in a Paediatric Population

Ayushi Shukla[1], Ashley Ware[1], Naomi Goodrich-Hunsaker[2], Elisabeth Wilde[3], Tracy Abildskov[3], Erin Bigler[3], Daniel Cohen[4], Leslie Mihalov[4], Ann Bacevice[5], Barbara Bangert[6], H. Gerry Taylor[4], Keith Yeates[1], Catherine Lebel[1]
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T148 Sex differences in structural variability of brain regions in development and young adulthood

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T149 Changes in hippocampal regional morphology after treatment with ECT and ketamine in major depression

Antoni Kubicki[1], Van Ngo[1], Joana Louriero[1], Megha Vasavada[1], Benjamin Wade[1], Stephanie Njau[1], Shantanu Joshi[1], Eliza Congdon[2], Randall Espinoza[2], Katherine Narr[3]
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T150 White matter bottleneck in small vessel disease: lesion symptom mapping study of language-executive

Ileana Camerino[1], Nathalie Meyer[1], Joanna Sierpowska[1], Anil Tuladhar[1], Andrew Reid[2], Roy Kessels[3], Frank Erik de Leeuw[4], Vitória Piai[1]
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T151 Genetic Contributions to Multivariate Structural Brain Networks

Amanda Rodrigue[1], Aaron Alexander-Bloch[2], Emma Knowles[3], Samuel Mathias[1], Josephine Mollon[3], Marinka Koenis[4], Jessica A. Turner[5], Vince Calhoun[6], David Glahn[7]
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T152 Predicting clinically isolated syndrome conversion to multiple sclerosis. A study using PRoNTo

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T153 Sex Differences in Limbic Network and Risk-taking Propensity in Healthy Individuals

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T154 Sexual dimorphism in the human hypothalamus revealed by 3T-MRI

Kevin Thomas[1], Frauke Beyer[2], Gesa Lewe[2], Rachel Zsido[2], Stephanie Schindler[3], Peter Schoenknecht[4], Arno Villringer[2], Julia Sacher[2], A. Veronica Witte[2]
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T155 FKBP5 promoter methylation is associated with structural changes in stress processing brain circuits

Thomas Kremer[1], Junfang Chen[1], Anais Harneit[1], Urs Braun[1], Ren Ma[1], Markus Reichert[1], Zhenxiang Zang[1], Gabriela Gan[1], Carolin Mößnang[1], Kristina Schwarz[1], Janina Schweiger[1], Tracie Ebalu[1], Lena Geiger[1], Oksana Berhe[1], Torsten Wüstenberg[1], Xiaolong Zhang[1], Fabian Streit[1], Stephanie Witt[1], Marcella Rietschel[1], Emanuel Schwarz[1], Andreas Meyer-Lindenberg[1], Heike Tost[1]
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T156 Accelerated T1 brain Imaging utilizing Compressed sense

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T157 How brain volume predicts skill acquisition in a real-time strategy game

Natalia Kowalczyk[1], Paweł Dobrowolski[2], Maciek Skorko[2], Maciek Gaca[1], Monika Myśliwiec[1], Bartosz Kossowski[3,4], Nikodem Hryniewicz[3], Weronika Dębowska[3], Aneta Brzezicka[1,5]
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T158 Cortical Morphometry in Mild Pediatric Head and Orthopedic Injury Using Two Automated Approaches
Ashley Ware[1], Naomi Goodrich-Hunsaker[2], Ayushi Shukla[3], Elisabeth Wilde[4], Tracy Abildskov[4], Erin Bigler[4], Daniel Cohen[5], Leslie Mihalov[6], Ann Bacevice[7], Barbara Bangert[8], H. Gerry Taylor[6], Keith Yeates[3], Catherine Lebel[1]
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T159 The association between Body Mass Index and gyrification in developing children
Elisabet Blok[1], Cathelijne Steegers[1], Ryan Muetzel[1], Gwen Dieleman[1], Pauline Jansen[1], Manon Hillegers[1], Stefan Ehrlich[2], Jan van der Ende[1], Tonya White[3]
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T160 Surface-Based Detection of Cortical Dysplasia Type IIb
Leonie Henschel[1], Bastian David[2], Fabiane Schuch[2], Christian Elger[2], Elke Hattingen[3], Theodor Rüber[2,4,5], Martin Reuter[1,6]
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T161 Structural Neural Similarity in Human Brain Anatomy among Mother-teen Dyads
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T162 Brain aging assessed with longitudinal magnetic resonance imaging (MRI): effects of scanner vendor
Christina Boyle[1], Christopher Ching[2], Sophia Thomopoulos[3], Artemis Zavaliangos-Petropulu[4], Adam Mezher[5], Matt Bernstein[6], Bret Borowski[7], Clifford Jack[8], Michael Weiner[9], Paul Thompson[10]
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T163 Age Trajectory and Gender Effects of Volume and R1 in Deep White Matter and Subcortical Structures
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T164 Gender difference in asymmetry of small world hemispheric network: A cortical thickness study
Yong-Ho Choi[1], Bo-Hyun Kim[1], Jong-Min Lee[1]
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T165 Precon_all: A Preclinical Cortical Surface Generation Pipeline for Animal Brains
Robert Austin Benn[1], Ting Xu[2], Jose Pedro Manzano[1], Paula Montesinos[3], Javier Sanchez-Gonzalez[3], Michael milham[2], Eugene Duff[4], Borja Ibanez[1]
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T166 A 'Simple' Re-Executable Publication: IQ in Typically Developing Children
Satrajit Ghosh[1], Goncalves Mathias[2], David Keator[3], Tom Gillespie[4], Jeffrey Grethe[5], Steven Hodge[6], Yaroslav Halchenko[7], Jean-Baptiste Poline[8], David Kennedy[9]
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T167 Automated quantification and scoring of the perivascular space using multi-modal structural MRI
Farshid Sepehrband[1], Giuseppe Barisano[1], Nasim Sheikh-Bahaei[2], Ryan Cabeen[1], Meng Law[3], Arthur Toga[1]
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T168 Age associated changes in cortical structure and complexity
Daniel Cox[1], Aleksandra Kudra[1], Martyn McFarquhar[1]
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Diffusion MRI

T169 MEDUSA: a GPU-based tool to create realistic phantoms of the brain white matter microstructure
Kévin Ginsburger[1], Felix Matuschke[2], Fabrice Poupon[1], Jean-François Mangin[1], Markus Axer[2], Cyril Poupon[1]
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T170 Inter-subject Variability in Anatomical Connectivity and its Dependence on Spatial variation of ROI
Meizhen Han[1], Guoyuan Yang[1], Sizhong Zhou[1], Boyan Xu[1], Hai Li[1], Weiwei Men[1], Jianqiao Ge[1], Jiahong Gao[1]
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T171 A Comparison of Free Water Mapping Techniques in Diffusion MRI
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T172 **A Diffusion Tensor Imaging Study on Incomplete Traumatic Spinal Cord Injury: A Longitudinal Study**
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T173 **"'Musical training Induces Plasticity in Human Brain White Matter'"**
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T174* **MicroLearn: Framework for machine learning, reconstruction and microstructure modeling**
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T175 **Mapping brain structural alterations in teenage after prenatal heavy metal exposure using GQI**
Jun-Cheng Weng[1,2], Chao-Yu Shen[3,4], Jeng-Dau Tasi[5], Yen-Ning Hsu[4], Shu-Li Wang[6]
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T176 **Prenatal exposure to perfluorochemicals and later brain structure change revealed by GQI**
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T177 **A head motion correction algorithm for arbitrary q space sampling schemes with high b values**
Matthew Cieslak[1], Philip Cook[1], Scott Grafton[2], Mark Elliott[1], David Roalf[1], Danielle Bassett[1], Desmond Oathes[1], Theodore Satterthwaite[1]
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T178 **Genetic properties of hub connectivity in the human brain**
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T179 **The External Capsule and Cognition: A High Angular Resolution Diffusion MRI Study**
Christian Bocti[1,2,3], Geneviève Nolze-Charron[1], Raphael Dufort-Rouleau[1], Jean-Christophe Houde[1], Mathieu Dumont[4], Christian-Alexandre Castellano[1], Stephen Cunnane[1,5], Dominique Lorrain[1,5], Tamas Fulop[1,5], Maxime Descoteaux[1,4]
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T180 **Comparison of Standardized and Study-Specific DTI Templates of the Adult Human Brain**
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T181 **Plasticity of the corticospinal and rubrospinal tract after cervical myelopathy: DTI study**
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T182 **Voxelwise tissue-typing of pediatric brain lesions using manifold embedding**
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T183 **Impaired glymphatic system activity in Parkinson's disease: A DTI along the perivascular space study**
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T184 **Individual parcellation of structural connectivity with machine learning**
Hantian Zhang[1,2], Lingzhong Fan[1,2], Luqi Cheng[3], Tianzi Jiang[1,2]
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T185 **Age-related changes in frontoparietal microstructure impair visual object processing but not verbal**
José Bourbon-Teles[1,2,3,4], Nádia Canário[1,2,3,4], Lília Jorge[1,2,3,4], Miguel Castelo-Branco[1,2,3,4]
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T186 **Abnormal White Matter in Parkinson's disease: A Diffusion Tensor Imaging Study**
Yichen Zhang[1], Qinyuan Chen[1], Biao Huang[2], Huiqing Hu[1], Wanqun Yang[2], Siqi Liu[1], Jingwu Chen[2], Shufei Zhang[1], Qinda Huang[1], Ruiwang Huang[1]
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T187 **DMRI detects structural abnormalities in optic chiasm**
Robert Puźniak[1], Khazar Ahmadi[1], Joern Kaufmann[2], Andre Gouws[3], Antony Morland[3], Franco Pestilli[4], Michael Hoffmann[5]
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T188 **Nonlinear Alignment of Whole Tractograms with the Linear Assignment Problem**
Emanuele Olivetti[1], Pietro Gori[2], Pietro Astolfi[3], Giulia Bertó[4], Paolo Avesani[3]
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T189 **Infant White Matter Microstructure is Affected by Maternal Experiences of Childhood Maltreatment**
Banu Ahtam[1], Jennifer Khoury[2], Ai Wern Chung[1], Yangming Ou[1], Michelle Bosquet Enlow[2,3], Karlen Lyons-Ruth[2], P. Ellen Grant[1]
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T190 **Analysis of the Corticospinal Pathway by Magnetic Resonance Tractography in Patients with Stroke**
Rodrigo Martin[1], Oscar Marrufo[2], Adriana Cruz[1], Jorge Hernández-Franco[3], Lorena Palafox[3], Chanel Palencia[3], Cecilia Camberos-Angulo[3], María de los Remedios Quijada-Cruz[3], Alfredo Rodriguez[4]
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T191 **Same brain, different look? – A scanner and preprocessing pipeline comparison for diffusion imaging**
Ronja Thieleking[1], Rui Zhang[1], Alfred Anwander[1], Arno Villringer[1], A. Veronica Witte[1]
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T192 **Microstructural Diffusion MRI Changes In Patients With Mild Cognitive Impairment Of Various Origin**
Alzbeta Minsterova[1], Patricia Klobusiakova[1], Irena Rektorova[1]
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T193 **5D relaxation-diffusion MRI characterization of nerve fibers in heterogeneous tissue environments**
João P. de Almeida Martins[1,2], Chantal Tax[3], Filip Szczepankiewicz[4,5], Carl-Fredrik Westin[4,5], Maxime Chamberland[3], Derek Jones[3], Daniel Topgaard[1,2]
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T194 **Tract-specific statistics based on diffusion-weighted probabilistic tractography**
Andrew Reid[1], Saad Jbabdi[2], Felix Hoffstaedter[3], Simon B. Eickhoff[3]
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T195 **Automatic Stem-based Segmentation of Inferior Fronto-Occipital Fasciculus**
Pietro Astolfi[1], Alessandro De Benedictis[2], Silvio Sarubbo[3], Emanuele Olivetti[4], Diego Sona[5], Paolo Avesani[1]
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T196 **Temporal Diffusion Ratio (TDR): A Diffusion MRI method to map large axons in the living human brain**
Flavio Dell'Acqua[1], Robert Dallyn[1], Andrea Chiappiniello[2], Ahmad Beyh[1], Chantal Tax[3], Derek Jones[3], Marco Catani[1]
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T197 **Motor network topology in MS: structural connectivity changes accounting for density reduction**
Maria Petracca[1], Simona Schiavi[2,3], Matteo Battocchio[2], Mohamed Mounir El Mendili[1], Swetha Paduri[1], Lazar Fleysher[4], Alessandro Daducci[2], Matilde Inglese[1]
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T198 **Focused ultrasound lesioning of peripheral nerves - diffusion imaging visualization and assessment**
Matthew Walker[1,2], Jidan Zhong[2], Adam Waspe[3,1], Karolina Piorkowska[3], James Drake[3,1], Mojgan Hodaie[1,2]
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T199 **Tracking the time course of structural plasticity in motor learning: motor sequence vs adaptation**
Florencia Jacobacci[1,2], Gonzalo Lerner[1], Arnaud Boré[3], Marcia Hidalgo-Marques[4], Edson Amaro[4], Jorge Armony[5], Jorge Jovicich[6], Julien Doyon[5], Valeria Della-Maggiore[1,2]
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T200 **High Resolution FLAIR-DTI Protocol to Image the Trigeminal Nerve**
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T201 **Heritability of Tissue Microstructure in Gray Matter using Advanced Diffusion MRI**
Madhura Baxi[1,2], Maria Di Biase[2], Amanda Lyall[2,3], Nikos Makris[2,3], Marek Kubicki[2,3], Yogesh Rathi[2,3]
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T202 **Adjusting for vascular contamination in DWI studies of white matter microstructure with SWI**
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T203 Harmonization of retrospective diffusion MRI data: an essential tool for multi-site studies
Suheyla Cetin Karayumak[1], Natalia Chunga[1], Benjamin Reid[1], Nathaniel Somes[1], Aristotle Voineskos[2], Philip Szeszko[3], Anil Malhotra[4], Martha Shenton[5], Marek Kubicki[1], Yogesh Rathi[1]
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T204 Declarative memory improvement with perforant path integrity and proximity of deep brain stimulation
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T205 Investigating white matter hyperintensities in ischemic stroke using advanced diffusion MRI
Will Khan[1], Natalia Egorova[2], Mohamed Salah Khlif[3], Remika Mito[4], Thijs Dhollander[5], Amy Brodtmann[6]
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T206 DTI showed abnormality of cerebellar afferent and efferent white matter
Xiangkui Li[1], Yanan Zhang[1], Youwei Ren[1], Sisi Jiang[1], Cheng Luo[1], Dezhong Yao[1]
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T207 Cervical Myelopathy Shows Impaired White Matter Tracts Involving Cognitive Functions
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T208 Effect of rTMS on ascending reticular activating system in a patient with disorder of consciousness
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T209 Myelin Mapping by multi-shell q-space diffusion MRI : A cross-sectional study in adolescence
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T210 Mapping Visual Field Specific Short V1–V2 Connections using High Resolution dMRI and fMRI
Fakhereh Movahedian Attar[1,2], Evgeniya Kirilina[1,3], Daniel Hänelt[1,2], Robert Trampel[1], Luke Edwards[1], Kerrin Pine[1], Nikolaus Weiskopf[1,4]
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T211 The influence of circadian rhythm and sleep on brain microstructure
Svenja Brodt[1], Monika Schönauer[2], Michael Erb[3], Klaus Scheffler[3], Steffen Gais[1]
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T212* QFib: Fast and Accurate Compression of White Matter Tractograms
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T213 Within Animal Comparison of Tract-tracing and High Resolution Tractography Yields High Correlations
Achille Teillac[1,2], Yujie Hou[3], Loïc Magrou[3], Camille Lamy[3], Pierre Misery[3], Nathalie Richard[1], Maxime Descoteaux[4], Chuyang Ye[5], Zhiming Shen[6], Kenneth Knoblauch[3], Henry Kennedy[3,6], Bassem Hiba[1]
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T214 Alterations in Microstructural Lateralization in Chronic Schizophrenia: Diffusion Kurtosis Imaging
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T215 Estimating power in ultra-strong gradient MRI: a cross tract and metric microstructural assessment
Kristin Koller[1], Suryanarayana Rudrapatna[1], Maxime Chamberland[1], Erika Raven[1], Greg Parker[1], Chantal Tax[1], Mark Drakesmith[1], Tobias Wood[2], John Evans[1], Derek Jones[1]
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T216 Prediction of Multi-Shell from Single-Shell dMRI Data via Graph Convolutional Neural Networks
Geng Chen[1], Yoonmi Hong[1], Jaeil Kim[2], Yongqin Zhang[3], Jiquan Ma[4,1], Dinggang Shen[1], Pew-Thian Yap[1]
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T217 Behaviorally-relevant cytoarchitectonic insular traits: bridging dMRI microstructure and cognition
Demian Wassermann[1], Weidong Cai[2], Guillermo Gallardo-Diez[3], Mark Pinsk[4], Vinod Menon[5]
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T218 Differentiating Schwannoma from Meningioma in CPA Using ADC of DWI and Machine Learning
Lihua Yuan[1,2], Bing Zhang[2], Jiaming Lu[2], Ying Chen[1], Ruxue Guo[1], Xiujuan Liu[1], Ning Sun[1], Zhishun Wang[1,3]
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T219 Landmark Localization On Color Coded Diffusion Anisotropy Images Using Convolutional Neural Networks
Ahmet Emin Yetkin[1], Andac Hamamci[1]
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T220 Water Anisotropy within the Default Mode Network predicts Mood Shifts following Sleep Deprivation
Sahil Bajaj[1], Adam Raikes[1], William Killgore[1]
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T221 Multiple sclerosis fatigue, interoception and white matter structural abnormalities
Iulia Bogdan[1], James Scott[1], Waqar Rashid[2], Marco Bozzali[1], Charlotte Rae[3,4], Mara Cercignani[1]
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T222 Can DTI and 3D-SHORE Based Indices Differentiate RRMS from PMS Patients?
Lorenza Brusini[1], Federica Cruciani[1], Muge Akinci[2], Ilaria Boscolo Galazzo[3], Francesca Benedetta Pizzini[4], Jorge Jovicich[5], Silvia Francesca Storti[6], Massimiliano Calabrese[7], Gloria Menegaz[6]
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T223 The Timecourse of White Matter Reorganization During Prolonged Braille Learning in Sighted Subjects
Malwina Molendowska[1], Bartosz Kossowski[1], Jacek Matuszewski[1], Łukasz Bola[2], Marcin Furtak[1], Marcin Szwed[3], Katarzyna Jednoróg[4], Artur Marchewka[1]
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T224 Association of edge strength with specific load of White Matter Hyperintensities
Benedikt Frey[1], Marvin Petersen[1], Eckhard Schlemm[1], Carola Mayer[1], Bastian Cheng[2], Christian Gerloff[1], Götz Thomalla[1]
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T225 Monitoring brain diffusion responses in proton-therapy cancer treatment: A pediatric case study
Lisa Novello[1], Nivedita Agarwal[1,2,3], Stefano Lorentini[2], Sabina Vennarini[2], Domenico Zacà[1,4], Ofer Pasternak[5], Jorge Jovicich[1]
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T226 White matter in low back pain patients with depression and anxiety: a preliminary DTI study
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T227 The effect of age and psychiatric disorder on head motion and its impact on white matter integrity
Sabine Dziemian[1], Nicolas Langer[1]
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T228 Allometric scaling of corpus callosum fiber length in human brain
Liyuan Yang[1], Gaolang Gong[1]
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T229 Diffusion Kurtosis Imaging of Gray Matter in Autism Spectrum Disorder
Faye McKenna[1,2], Laura Miles[1], Jeffrey Donaldson[1], Francisco Castellanos[3,4], Mariana Lazar[1,2]
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T230 FiberVis: a tool for a fast fiber tractography visualization and segmentation
Ignacio Osorio[1], Danilo Bonometti[1], Diego Carrasco[1], Andrea Vasquez[1], Narciso Lopez[1], Cyril Poupon[2], Jean-Francois Mangin[2], Pamela Guevara[1]
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T231 White Matter Abnormalities in Phenylketonuria Characterized by Diffusion Kurtosis Imaging
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T232 Diffusion Imaging of Neonates by Group Organization (DINGO): Cohort Analysis of Neonatal DTI
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T233 The Effects of Fiber Response Functions on Orientation Estimation in Baby Diffusion MRI
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LANGUAGE

Language Acquisition

T234 Neuronal correlates of foreign language learning in adulthood: A combined EEG and fNIRS study
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T235 Longitudinal evidence for subcortical learning systems involved during adult L2 acquisition
Helyne Adamson[1], Tomás Goucha[2], Alfred Anwander[2], Matthias Schwendemann[1], Martin Lišaník[1], Angela Friederici[2]
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T236 Electrophysiological correlates of online word learning in 9 year-old children
Neus Ramos[1,2], Emma Segura[1,2], Gemma Cardona[1,2], Clément François[3,2], Antoni Rodríguez-Fornells[4,2]
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T237 The influence of selective attention on foreign language processing: Evidence from ERP
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T238 Letter and speech sound association in early blind and sighted adults
Joanna Plewko[1], Gabriela Dzięgiel[2], Marcin Szczerbiński[3], Karolina Domańska[4], Marcin Szwed[5], Artur Marchewka[6], Katarzyna Jednoróg[1]
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T239 The Striatum is Shaped by Bilingual Experience and Musical Training
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T240 Syntactic processing in 5-year-olds: An MEG study
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T241 Brain Connectivity Predicts Second-Language Learning Success
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T242 Short term white matter changes after one month of language learning
Maren Johannböke[1], Joanna Bartkiewicz[1], Vera Cruz e Silva[2], Elisabeth Hartl[1], Soheyl Noachtar[1], Christian Vollmar[1]
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T243 Neural correlates of syntactic and ambiguity processing in late proficient Mandarin Chinese learners
Chia-Ho Lai[1], Chia-Lin Lee[1,2], Shu-Kai Hsieh[1], I-Wen Su[1], Te-Hsin Liu[3], Chia-Rung Lu[1], I-Ni Tsai[3], Tai-Li Chou[2,1]
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Language Comprehension and Semantics

T244 Brain activity during sentence picture verification of affirmative and negative sentences
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T245 The influence of family reading history on Chinese classifier processing: An fMRI study
Chi-Lin Yu[1], Shu-Hui Lee[1], Ting Chen[2], Chuan-Ching Liao[2]
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T246 Skill effects on the neural correlates of semantic processing to Chinese classifiers in children
Shu-Hui Lee[1], Chi-Lin Yu[1], Chuan-Ching Liao[2], Ting Chen[2]
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T247 Reliability of a multi-sensory pre-surgical fMRI language paradigm; an ICC & DCM analysis
Karsten Specht[1], Erik Rødland[2]
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T248 Neural basis of irony in patients with Multiple Sclerosis : an exploratory fMRI study
Quentin Duché[1], Florian Chapelain[2,3], Elise Bannier[1,4], Jean-Christophe Ferré[1,4], Philippe Allain[5,6], Philippe Gallien[2], Virginie Dardier[3], Christian Barillot[1]
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T249* Morse Code: A Window on Language Encoding in the Brain
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T250 The Neural Network for Sentence Comprehension: Evidence from Aphasia
Sabrina Beber[1], Rita Capasso[2], Chiara Maffei[3], Gabriele Miceli[4]
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T251 How cognitive abilities modulate the brain network for auditory lexical access in healthy seniors
Stefan Heim[1], Barbara Wellner[2], Bruno Fimm[1], Katrin Amunts[2]
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T252 Visualizing the interdependence of motor and language systems using lesion-symptom mapping analyses
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T253 Intonation guides sentence processing in the left inferior frontal gyrus
Constantijn van der Burght[1], Tomás Goucha[1], Angela Friederici[1], Jens Kreitewolf[2], Gesa Hartwigsen[1]
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T254 The role of decision making during word-picture verification: evidence from model-based fMRI
Cyril Pernet[1], Constantinos Eleftheriou[2]
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T255 The Functional Gradient of Semantic Processing
Xiuyi Wang[1], Zhiyao Gao[1], Daniel Margulies[2], Jonathan Smallwood[1], Elizabeth Jefferies[1]
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T256 Word abstractness is an emerging property of language, mirrored in neural activity
Annika Hulten[1], Marijn van Vliet[1], Sasa Kivisaari[2], Lotta Lammi[1], Tiina Lindh-Knuutila[1], Ali Faisal[1], Riitta Salmelin[3]
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T257 Information flow in abstract and concrete word processing revealed by Granger Causality analysis
Mansoureh Fahimi Hnazaee[1], Elvira Khachatryan[1], Marc Van Hulle[1]
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T258 An fMRI study on the effect of bilingualism in semantic processing during encoding and retrieval
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T259 Lexical processing involves both hemispheres while pre-lexical processing is left-lateralized
Azalea Reyes Aguilar[1,2], Giovanna Licea Haquet[2], Brenda Arce López[2], Magda Giordano[2]
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T260 Task and resting state fMRI revealed impaired language processing in the older adults
Nanxi Fei[1], Jianqiao Ge[1], Meizhen Han[1], Guoyuan Yang[1], Sizhong Zhou[1], Jia-Hong Gao[1]
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T261 Absence of trade-off between negative and positive ERPs indicates syntactic processing
Shingo Tokimoto[1], Yayoi Miyaoka[2], Naoko Tokimoto[3]
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T262* Constructing meanings of objects from bits of information
Sasa Kivisaari[1,2], Marijn van Vliet[1], Annika Hulten[1], Tiina Lindh-Knuutila[1], Ali Faisal[1], Riitta Salmelin[1]
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T263 No modulation of Auditory Steady State and Visual Gamma Band Responses by semantics in EEG/MEG
Olaf Hauk[1], Marit Keemink[1,2], Seyedeh-Rezvan Farahibozorg[3,1], Gavin Perry[4], Srivas Chennu[5,1]
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T264 Abstract and concrete conceptual representation in the inferior parietal lobe: an fNIRS study
Maria Montefinese[1,2], Paola Pinti[3,4], Ettore Ambrosini[1,5,6], Ilias Tachtsidis[3], David Vinson[2]
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T265 Semantic processing in the inferior parietal cortex and in the dorsal stream
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T266* Overlapping connectivity gradients underlie functional multiplicity in the anterior temporal lobe
Myrthe Faber[1,2], Izabela Przezdzik[1,2], Guillen Fernandez[1,2], Christian Beckmann[1,2,3], Koen Haak[1,2]
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T267 Brain Mechanisms Underlying Generalization of Concepts Across Languages
Usman Ayub Sheikh[1], David Soto[1], Manuel Carreiras[1]
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T268 Effective Connectivity of Semantic Verbal Fluency: A Model of Dual Streams
Isabella Arrigo[1], Pedro da Silva[1], Renata Leoni[2]
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T269 Hemispheric differences in connectivity in semantic sites and their contribution to cognition
Tirso Gonzalez Alam[1], Jonathan Smallwood[1], Theodoros Karapanagiotidis[1], Elizabeth Jefferies[1]
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T270 Predicting language-elicited event-related potentials by learning from behavioral data
Dan Schwartz[1], Tom Mitchell[1]
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T271 Encoding of semantic similarity for abstract and concrete concepts: an fMRI study
Maria Montefinese[1], David Vinson[2]
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T272 Representation of concrete and abstract word meaning
Karen Meersmans[1], Antonietta Gabriella Liuzzi[1,2], Rose Bruffaerts[1], Simon De Deyne[3], Gerrit Storms[4], Patrick Dupont[1], Rik Vandenberghe[1]
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T273 Task-specific neural correlates of basic semantic composition
Astrid Graessner[1], Emiliano Zaccarella[1], Angela Friederici[1], Gesa Hartwigsen[1]
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T274 Investigating the neural correlates of spatial demonstratives using naturalistic fast fMRI
Roberta Rocca[1], Marlene Staib[1], Kristian Tylén[1], Kenny Coventry[2], Torben Lund[1], Mikkel Wallentin[1]
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T275 The role of ATL and IPS in representing social and quantity concepts: a State-Dependent TMS study
Eleonora Catricalà[1], Francesca Conca[1], Anna Fertonani[2], Carlo Miniussi[3,2], Stefano Cappa[1,2]
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T276 Integrating form and meaning in the left parietal cortex: Evidence from agreement comprehension
Ileana Quinones[1], Nicola Molinaro[2], Cesar Caballero-Gaudes[2], Simona Mancini[1], Horacio Barber[3], Manuel Carreiras[4]
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T277 **Speech comprehension in noise – contribution of domain-specific and domain-general control regions**
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T278 **Cortical Dynamic Network of Predictive Speech Processing of Individual Words**
Zhaowei Liu[1], Su Shu[1], Lingxi Lu[1], Yaoyu Zhang[1], Jingwei Sheng[1], Jianqiao Ge[1], Jiahong Gao[1]
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Language Other

T279 **Spontaneous synchronization to speech reveals neural mechanisms facilitating language learning**
M. Florencia Assaneo[1], Pablo Ripolles[2], Joan Orpella[3], Wy Ming Lin[4], Ruth de Diego-Balaguer[3], David Poeppel[5]
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T280 **Musicians differ in hemispheric asymmetry in relation to their language lateralization pattern**
Esteban Villar-Rodríguez[1], Jesús Adrián-Ventura[1], María-Ángeles Palomar-García[1], Mireia Hernández[2], Gustau Olcina-Sempere[1], Lidon Marin-Marin[1], Cesar Avila[1]
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T281 **The Broca Neurocorrelates of Gestural Communication in Baboon**
Yannick Becker[1], Konstantina Margiotoudi[1], Muriel Roth[2], Bruno Nazarian[2], Romain Lacoste[3], Jean-Luc Anton[2], Olivier Coulon[4], Samain-Aupic Léonard[1], Adrien Meguerditchian[1]
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T282 **Comprehension of language in social contexts**
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T283 **Modulation of communicative intention through facial expression and its neural correlate**
Jalil Rasgado[1], Magda Giordano[1]
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T284 **Neural correlates of emotional prosody comprehension in right and left handers**
Agnieszka Pluta[1,2], Marta Marciniak[3], Jakub Wojciechowski[4], Tomasz Wolak[5]
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Reading and Writing

T285 **Is the Pen Mightier than the Word? A High-Density EEG Study**
Ruud Van der Weel[1], Audrey van der Meer[1]
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T286 **Examining the role of Discrepant IQ and Reading Ability in Reading Network Activation**
Rita Barakat[1], Stephen Gonzalez[1], Maya Rajan[1], Anisa Azad[1], Anthony Krafnick[2], Max Orozco[1], Hadley McGregor[1], Jason Zevin[1], Frank Manis[1], Kristi Clark[1]
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T287* **Brain circuit for word processing differentiate children with distinct reading and spelling deficits**
Agnieszka Debska[1], Katarzyna Chyl[2], Gabriela Dzięgiel[3], Agnieszka Kacprzak[2], Magdalena Łuniewska[2], Joanna Plewko[4], Artur Marchewka[5], Anna Grabowska[2], Katarzyna Jednoróg[4]
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T288 **Removal of Ocular Artifacts from Magnetoencephalographic Natural Reading Data: Recommended Methods**
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T289 **Inter-Subject Correlation During Long Narratives Uniquely Reveals fMRI Correlates of Reading Ability**
David Jangraw[1], Emily Finn[1], Peter Molfese[1], Kenneth Pugh[2,3], W Mencl[2,3], Stephen Frost[3,4], Gang Chen[1], Peter Bandettini[1]
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T290 **Sex and DYX1C1 genotype effects on pediatric cortical thickness and surface area**
Anthony Krafnick[1], Tanya Evans[2]
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T291 **Functional alterations in children with dyslexia and isolated spelling deficits**
Chiara Banfi[1], Karl Koschutnig[1], Melanie Gangl[1], Ferenc Kemény[1], Andreas Fink[1], Kristina Moll[2], Karin Landerl[1]
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T292 **Resting State Functional Connectivity in Chinese Developmental Dyslexics Applying Near Infrared Spec**
Yueh-Lin Lee[1], Zih-Yun Yang[1], Tzu-Chi Liao[1], Hsin-Chin Chen[1]
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T293 **The Development of the Neuronal Network for Tactile Reading and Speech Processing in Early Blind**
Gabriela Dzięgiel[1], Joanna Plewko[1], Marcin Szczerbiński[2], Karolina Domańska[3], Artur Marchewka[1], Marcin Szwed[4], Katarzyna Jednoróg[1]
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T294 Development of the handwriting network: A coupled fMRI and kinematics study in middle-age children
Sarah Palmis[1], Jean-Luc Velay[1], Elie Fabiani[1], Michel Habib[1], Jean-Luc Anton[2], Bruno Nazarian[2], Sein Julien[2], Marieke Longcamp[1]
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T295 Examining Chinese Homophone Density Effect Applying Near Infrared Spectroscopy
Hsin-Chin Chen[1], Zih-Yun Yang[1], Yueh-Lin Lee[1]
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T296 Delineating the cognitive-neural substrates of writing
Haobo Chen[1], Xiaoping Pan[2], Wai-Ling Bickerton[3], Johnny King L Lau[4], Jin Zhou[2], Beinan zhou[5], Lara Harris[6], Pia Rotshtein[3]
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T297 Visual-processing and executive-function regions are related to subsequent reading memory
Tzipi Horowitz-Kraus[1,2], Rola Farah[3], Rebecca Coalson[4], Steven Petersen[5], Bradley Schlaggar[6]
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T298 Functional connectivity identifies infants at risk of dyslexia and predicts phonological development
Silvina Ferradal[1], Xi Yu[1], Danielle Sliva[2], Jade Dunstan[1], Clarisa Carruthers[1], Joseph Sanfilippo[1], Jennifer Zuk[1], Lilla Zöllei[3], Emma Boyd[3], Borjan Gagoski[1], P. Ellen Grant[4], Nadine Gaab[1]
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T299 Disentangling Language Processing from Decision Making: a Multimodal and Computational Approach
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T300 Cortical structures in the reading network correlate with reading proficiency in early bilinguals
Hsin-Yu Lin[1], Chiao-Yi Wu[1], Beth O'Brien[2], Marilyn Yeo[3], Yuvadarshini Ilang Kumaran[1], Brenda Rapp[4], Michael McCloskey[4], Kenichi Oishi[5], John Desmond[6], SH Annabel Chen[1,3,7]
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T301 Speech neural system plays different roles in reading : comparison between children and adults
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T302 Intrinsic Functional Connectivity Mediate the Relationship Between Parental Education and Reading
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T303 Magnocellular and parvocellular contributions to visual object and word recognition
Maddi Ibarbia[1], Pedro Paz-Alonso[1]
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T304 Critical Neural Correlates of Lexicality, Consistency, and Imageability Effects in Reading Aloud
Olga Boukrina[1], Bing Yao[1], Mateusz Kowalczyk[2], A.M. Barrett[1], William Graves[3]
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T305 Cognitive Correlates of N1 Print Tuning Effects
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T306 Exploring Connectivity in Exner's Area: A Dysgraphia Case Study
Maeliosa Ni Almhain[1], Stephanie Forkel[1], Claudia Cramer[1], Naianna Robertsson[2,1], Ahmad Beyh[2,1], Gabriele Miceli[3,4], Flavio Dell'Acqua[2], Marco Catani[1,2]
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T307* Links between White Matter Microstructure and Components of Reading vary in Reading-Related Tracts
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T308 Neural adaptation to words and pseudo-homophones in healthy adults
Sarah Di Pietro[1,2], Gorka Fraga-González[1], Alexandra Brem[1], Iliana Karipidis[1], Silvia Brem[1,2]
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T309 Structural and functional contributions to the relationship between reading and spatial attention
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T310 An fMRI study of the cerebellum's role in reading and math disabilities
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T311 Structural connectivity defines the function of VWFA: Beyond just word reading
Lang Chen[1], Demian Wassermann[2], Daniel Adams[1], Guillermo Gallardo-Diez[3], John Kochalka[4], Vinod Menon[5]
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T312 **Right Prefrontal Connectivity Predicts Response to Reading Intervention: An Independent Replication**
William Mencl[1], Ryan Staples[2], Stephen Frost[1], Robin Morris[3], Kenneth Pugh[4]
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T313 **Neurocognitive basis of audiovisual integration deficits in Chinese dyslexic children**
Zhichao Xia[1], Xin Cui[1], Ting Yang[1], Xiangping Liu[1], Hua Shu[1]
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T314 **Reading in Czech: fMRI evidence for a dual-route neural architecture in a shallow orthography**
Marek Barton[1], Irena Rektorova[1], Vojtech Zvoncak[2], Radek Marecek[1], Steven Rapcsak[3]
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T315 **Functional connectivity as a biomarker for specific learning disorders with impairment in reading**
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T316 **Neuroanatomical signature of the Chinese Character Spurt**
Xin Cui[1], Zhichao Xia[1], Hua Shu[1]
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T317 **Understanding the multimodal brain structural phenotype associated with reading performance**
Clare Palmer[1], Wesley Thompson[1], Donald Hagler[1], Anders Dale[1], Terry Jernigan[1]
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Speech Perception

T318 **Transforming acoustic input into a hierarchy of linguistic representations**
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T319 **Lip-reading enables the brain to synthesize auditory features of unknown silent speech**
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T320 **Cortical sensitivity to phonemes forming words: An EEG steady-state study**
David Bridwell[1], Jithangi Wanigasinghe[2], Naiyma Martin[3], Perera KAUP[2], Chamika Janith Perera[4], Thilina Dulantha Lalitharatne[4], Seema Bansal[5], Deepti Kanade[6], Piyadasa Kodituwakku[7], Vince Calhoun[8], John Phillips[9]
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T321 **Development of speech-in-noise perception during childhood: Insights from speech-brain tracking**
Julie Bertels[1], Florian Destoky[1], Maxime Niesen[1], Sara-Zohra Arrouf[1], Vincent Wens[1], Xavier De Tiège[1], Mathieu Bourguignon[1]
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T322 **Simultaneous representation of syllable features in temporal and sensorimotor cortex**
Mario E. Archila-Melendez[1], João Correia[2], Giancarlo Valente[1], Rob Rouhl[1], Vivianne van Kranen-Mastenbroek[1], Erik Gommer[1], Bernadette Jansma[1], Mark Roberts[1]
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T323 **Speech Perception Network Underpins the Generalization of Speech Category in Non-speech Contexts**
Gangyi Feng[1,2], Zhenzhong Gan[3], Danting Meng[3], Suiping Wang[3], Patrick Wong[1,2], Bharath Chandrasekaran[4]
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T324 **Impact of noise on neural tracking of hierarchical linguistic structures**
Maxime Niesen[1], Mathieu Bourguignon[1], Marc Vander Ghinst[1], Julie Bertels[1], Vincent Wens[1], Sergio Hassid[1], Serge Goldman[1], Xavier De Tiège[1]
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T325* **Resting-State Perisylvian Beta-Gamma MEG Power Predicts Words-in-Noise Recognition**
Thomas Houweling[1], Robert Becker[1], Alexis Hervais-Adelman[1]
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T326 **Eye Movements Reveal Bilinguals' Phonological Units in Spoken Word Recognition**
Yu-Cheng Lin[1], Pei-Ying Lin[2]
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T327 **Phoneme-level processing in low-frequency MEG responses to speech explained by acoustic features**
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T328 **Formant model reconstruction from vowel listening brain activity in the pars triangularis**
Alessandra Rampinini[1], Giacomo Handjaras[2], Andrea Leo[2], Luca Cecchetti[2], Monica Betta[2], Giovanna Marotta[3], Emilano Ricciardi[4], Pietro Pietrini[2]
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T329 **The modality dependent and independent representations of Letters and Numbers: an fMRI study at 3T**
Francesco Gentile[1], Dora Gozukara[1], Milene Bonte[1]
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Speech Production

T330 **Lateralized processing of spectral and temporal speech features during speech production**
Mareike Flögel[1], Susanne Fuchs[2], Christian Alexander Kell[1]
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T331 Ventral-stream white matter pathways associated with performance on a morpheme-based production task
Maya Yablonski[1], Benjamin Menashe[1], Michal Ben-Shachar[1]
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T332 Hemisphere Complementarity for Language and Body Recognition
Robin Gerrits[1], Lise Van der Haegen[1], Marc Brysbaert[1], Guy Vingerhoets[1]
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T333 Test-retest reliability of naming-related evoked activity in magnetoencephalography recordings
Heidi Ala-Salomäki[1,2], Mia Liljeström[1], Jan Kujala[1], Riitta Salmelin[1]
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T334 Quantitative MRI correlates of the ability to articulate novel word forms in adolescents
Saloni Krishnan[1], Daniel Papp[1], Harriet Smith[1], Hannah Willis[1], Kate Watkins[1]
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T335 Decreased Gray-matter Volume of Insula as a Correlate of Singers' Enhanced Sensorimotor Cont
Hanjun Liu[1], Wenda Wang[2]
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T336 Speech rate associations in cerebellar pathways of adults who stutter
Sivan Jossinger[1], Vered Kronfeld-Duenias[1], Avital Zislis[1], Ofer Amir[2], Michal Ben-Shachar[1]
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T337 The N2 Changes during Switching but Not Repetition of Language in Bilingual Picture Naming
Xiaochen Zheng[1], Ardi Roelofs[1], Hasan Erkan[2], Kristin Lemhöfer[1]
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T338 Mapping human laryngeal motor cortex during vocalisation
Nicole Eichert[1], Rogier Mars[1,2], Kate Watkins[1]
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T339 Cerebral localization and network of articulatory system suggested by direct electrical stimulation
Masashi Kinoshita[1], Riho Nakajima[1], Xiaoliang Liu[1], Mitsutoshi Nakada[1]
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T340 The neural correlates of noun and verb production at single word and connected speech levels
Reem Alyahya[1], Ajay Halai[2], Paul Conroy[1], Matthew Lambon Ralph[2]
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T341 Investigating the Neural Correlates of Argument Structure Processing: An fMRI Study
Ekaterina Delikishkina[1], Angelika Lingnau[2,1], Gabriele Miceli[3,4]
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T342 Reduced volumes of the dorsal striatum in people who stutter
Hannah Willis[1], Jennifer Chesters[1], Emily Connally[1], Patricia Gough[1], Peter Howell[2], David Ward[3], Kate Watkins[1]
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T343 Using novel phonetics and tractography to distinguish Apraxia of Speech from Aphasia in acute stroke
Claudia Cramer[1], Stephanie Forkel[1], Ahmad Beyh[1], Maeliosa Ni Almhain[1], Naianna Robertsson[1], Nina Dronkers[2,3], Laura Goldstein[4], Flavio Dell'Acqua[1], Marco Catani[1]
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T344 Critical Networks for Competitive Selection and Compensatory Activation in Aphasic Picture Naming
Grant Walker[1], Julius Fridriksson[2], Gregory Hickok[1]
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T345 An fMRI study of initiation and inhibition of manual and speech responses in people who stutter
Charlotte Wiltshire[1], Jennifer Chesters[1], Máiréad Healy[1], Saloni Krishnan[1], Kate Watkins[1]
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T346 The dynamics and task-dependency of motor-to-sensory transformation
Xing Tian[1], Wenjia Zhang[1]
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T347 The Role of the Frontal Aslant Tract in Speech and Language Processing
Allison Zhong[1], Maria Ivanova[2], Brian Curran[3], And Turken[3], Nina Dronkers[2]
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LIFESPAN DEVELOPMENT

Aging

T348 Regional Age-Related Atrophy in an Amyloid-PET Negative Cohort
Lauren Koenig[1], Sarah Keefe[1], Laura Marple[1], Justin Long[1,2], Brian Gordon[1], John Morris[1,2], Michelle Miller-Thomas[1], Gregory Day[1,2], Joshua Shimony[1], Tammie Benzinger[1]
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T349 The neural signature of impaired dual tasking in Idiopathic REM sleep behaviour disorder patients
Kaylena Ehgoetz Martens[1], Elie Matar[1], James Shine[1], Joseph Phillips[2], Matthew Georgiades[1], Ronald Grunstein[3], Glenda Halliday[1], Simon Lewis[1]
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T350 Fiber-specific White Matter Reductions Associated with Motor Performance Decline in Aging
Hamed Zivari Adab[1], Sima Chalavi[1], Thijs Dhollander[2], Dante Mantini[1], Stephan Swinnen[1,3]
[1]Movement Control and Neuroplasticity Research Group, Biomedical Sciences Group, KU Leuven, Leuven, Belgium, [2]The Florey Institute of Neuroscience and Mental Health, Melbourne, Australia, [3]Leuven Brain Institute (LBI), Leuven, Belgium

T351 Altered connection properties during dynamic decision making in older adults
Xuerui Peng[1], Chao Xie[2,3], Xu Lei[1], Jing Yu[1]
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T352 Age-related differences in the neural correlates of self-generated thoughts at rest
David Maillet[1], Roger Beaty[2], Kieran Fox[3], Areeba Adnan[4], Gary R Turner[4], R Nathan Spreng[5]
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T353 BOLD modulation and white matter diffusivity contributions to cognitive aging: A lifespan SEM study
Christina Webb[1], Karen Rodrigue[1], David Hoagey[1], Chris Foster[1], Kristen Kennedy[1]
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T354 The Effect of Age on Resting state fMRI Carbon dioxide Response Function
Azin Esmaelbeigi[1,2], M. Aras Kayvanrad[1,2], J.Jean Chen[1,2]
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T355 Mental motor representations across the adult life-span: behavioural and fMRI evidence
Laura Zapparoli[1], Eraldo Paulesu[2]
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T356 Brain-predicted age difference as a neuromarker of cognitive function
Rory Boyle[1], Lee Jollans[1], Laura Rueda-Delgado[1], Rossella Rizzo[2], Ezgi Fide[3], Görsev Yener[4,3,5], Daniel Carey[6], Ian Robertson[1,7], Derya Emek-Savaş[8,3,7], Yaakov Stern[9], Rose Anne Kenny[6,10], Robert Whelan[1,7]
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T357 Age-Related Distance-Dependent Connectivity Changes in Hub Regions over the Adult Lifespan
Epifanio Bagarinao[1], Hirohisa Watanabe[1], Satoshi Maesawa[1], Daisuke Mori[1], Kazuya Kawabata[2], Kazuhiro Hara[2], Hiroki Tanabe[3], Shuji Koyama[1], Minoru Hoshiyama[1], Haruo Isoda[1], Shinji Naganawa[4,1], Gen Sobue[1]
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T358 Cardio- and neurovascular factors are independently associated with resting BOLD signal variability
Kamen Tsvetanov[1,2], Richard Henson[3], Simon Jones[1], Henk-Jan Mutsaerts[4], Delia Fuhrmann[3], Lorraine Tyler[2], Cam-CAN[3], James Rowe[1,3]
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T359 Default mode network connectivity in healthy aging. Results from two longitudinal aging studies
Franziskus Liem[1], Paul Robinson[2], Jessica Oschwald[1], Susan Mérillat[1], Lutz Jäncke[1], Sherry Willis[3]
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T360 Reconfiguration of functional networks during cognitive control across the adult lifespan
Jenny Rieck[1], Giulia Baracchini[1], Dan Nichol[1], Hervé Abdi[2], Cheryl Grady[1,3]
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T361 Whole-brain structural health status mediates the effect of age on cognition
Xiaowei Song[1,2,3], Hui Guo[4,2,1], Yunting Zhang[4], Ryan D'Arcy[2,5]
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T362 Cardiovascular risk factors and the accumulation of age-related whole-brain structural changes
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T363 Metabolic Support of Mental Task Performance Is Preserved in Cognitively Normal Aging
Andrei Vlassenko[1], Lars Couture[1], Tony Durbin[1], Marcus Raichle[1], Manu Goyal[1]
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T364 Altered functional connectivity of precuneus and PCC in the ninth decade of life and beyond
Jiyang Jiang[1], Perminder Sachdev[1], Tao Liu[2], Adam Theobald[1], Henry Brodaty[1], Wei Wen[1]
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T365 A 1/f χ neural noise perspective on age-related changes in cognitive and emotion control
Stefanie Enriquez-Geppert[1,2], Simin Berend[1,3], Clemens Dickhut[4], Manouche Bösterling[1], Svea Hieke[1], Marloes Greve[1], Bradley Voytek[5], Andre Aleman[6,1]
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T366* Functional differentiation of transmodal cortices across the lifespan
Richard Bethlehem[1], Casey Paquola[2], Jakob Seidlitz[1], Konrad Wagstyl[1], Boris Bernhardt[2], Cam-CAN[3], Kamen Tsvetanov[4]
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T367 Predicting Age from Neuroimaging using Automated Machine Learning
Jessica Dafflon[1], Federico Turkheimer[1], James Cole[1], Robert Leech[1], Peter Hellyer[1]
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T368 QMRI grey matter microstructural changes predict healthy aging and identify Multiple Sclerosis
Asier Erramuzpe[1], Roey Schurr[1], Aviv Mezer[1]
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T369 Accelerated aging in posterior dorsal default mode network in mild cognitive impairment patients
Kai Xu[1], Xin Li[2]
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T370 Six-year changes in the cortical thickness covariance network in older adults: MAS Cohort
Heidi Foo[1], Jiyang Jiang[1], Wei Wen[1], Perminder Sachdev[1]
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T371 Microstructural changes of white matter tracts across late lifespan on 7,167 UK Biobank participants
Gordon Waiter[1], Yung-Chin Hsu[2,3], Yun-Jing Kang[2], Te-Wei Kao[2], Chen Chang-Le[2], Pin-Yu Chen[2], Wen-Yih Isaac Tseng[2,4]
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T372 Age-related Changes in the Topological Organization of Brain Structural Connectome with Normal Aging
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T373 4-year increases in functional homotopy are associated with reduced white matter and memory
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T374 A Deep Learning Model of Brain Ageing in the UK Biobank MRI
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T375 A longitudinal study of functional reorganization of inter-network connectivity in healthy aging
Brigitta Malagurski[1], Franziskus Liem[1], Jessica Oschwald[1], Susan Mérillat[1], Lutz Jäncke[1,2]
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T376 The dorsal cingulum white-matter integrity predicts both loneliness and resilience in older adults
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T377 Exposure to air pollution and noise is associated with cognition and brain structure in older adults
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T378 Intrinsic resting-state activity in older adults with video game experience
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T379 Changes in the intracranial volume from early adulthood to the sixth decade of life
Yaron Caspi[1], Rachel Brouwer[1], Hugo Schnack[1], Marieke van de Nieuwenhuijzen[1], Wiepke Cahn[2], Rene Kahn[2], Wiro Niessen[3], Aad van der Lugt[3], Hilleke Hulshoff Pol[1]
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T380 The organizational principles of aging topographic maps
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T381 Netrank: A Multiplex Community Network approach for profiling Neurocognitive Ageing
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T382 Youth-Like Functional Connectivity Changes After Non-Pharmacological Interventions in the Elderly
Rui Li[1], Juan Li[1], Xinyi Zhu[1], Shufei Yin[2], Lijuan Huo[1]
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T383 Using Brain Cortical Thickness to Predict Chronological Age: Evidence from an Adult Lifespan Sample
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T384 Machine learning methods for age prediction using cortical thickness and cerebral blood flow
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T385 Age-related changes in cortical myelin, thickness and neurite in adult human
Akihiro Sasaki[1,2,3,4], Hikaru Fukutomi[1], Kyosuke Watanabe[1,3], Yusuke Morito[2], Kanako Tajima[2], Kyoko Ebisu[2], Miho Iwasaki[2], Kei Mizuno[1,2,3,4], Takuya Hayashi[1,2], Yasuyoshi Watanabe[1,2,4]
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T386 Early White Matter Tract Alteration in Subjective Cognitive Decline and Mild Cognitive Impairment
Shih-Ni Chen[1], Pin-Yu Chen[1,2], Chang-Le Chen[1], Yung-Chin Hsu[3], Yu-Ling Chang[4], Ming-Jang Chiu[5], Wen-Yih Isaac Tseng[1,2,6]
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T387 PMd-seeded functional connectivity during the learning of a bimanual task in young and older adults
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T388 Total and Regional Brain Atrophy Analysis in a Population Based Normative Sample from UK Biobank
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T389 Multiplex networks: a novel framework for structural brain connectivity
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T390 White matter diffusion changes across adulthood: analysis of 18,090 individuals from 9 cohorts
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T391 Frequency-Specific Link of the Cingulo-Opercular Network with Visual Processing Speed in Aging
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T392* Modelling cognition, aging, cerebrovascular health, and brain network integrity in UK Biobank data
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T393 Positive mood boosts memory training gains (via enhanced amygdala-hippocampus connectivity)
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T394 Disentangling the relation of structural and functional connectivity reorganization in older adults
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T395 Multi-shell diffusion imaging reveals gender-specific trajectories of white matter changes in aging
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T396 Lifespan Variability in Local Spatiotemporal Consistency of Brain Activity During Movie-watching
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T397 Neuroplasticity and Cognitive Benefits Associated with Chronic Intranasal Oxytocin in Aging
Natalie Ebner[1], Kristoffer Månsson[2], Tian Lin[1], Desiree Lussier[1], Marilyn Horta[1], Ian Frazier[1], Peiwei Liu[1], Devon Weir[1], David Feifel[3], Håkan Fischer[2]
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T398 Neuroimaging-Derived Brain-Age in Midlife Relates to CAIDE Dementia Risk Scores
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T399 Effects of age and DRD2 polymorphisms on fronto-striatal brain activity and cognitive performance
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T400 Brain activity during altered perception of hand movement in the elderly
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T401 Age-related differences in prefrontal networks during a logical reasoning task
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T402 Neurophysiological Mechanisms of Attentional Ageing: A Multi-level Analysis of Event-Related Fields
Hesham ElShafei[1], Remy Masson[1], Camille Fakche[1], Lesly Fornoni[2], Anne CACLIN[3], Aurélie Bidet-Caulet[1]
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T403 Effects of age on the BOLD hemodynamic response function and on parameters of the balloon model
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T404 Amyloid-β relates to lower structural degree and higher local efficiency in the posterior cingulate
Laura Jonkman[1], Martijn Steenwijk[1], Yvon Galis[1], Nicky Boesen[1], Annemieke Rozemuller[1], Jeroen Geurts[1], Frederik Barkhof[1,2], Linda Douw[1], Wilma van de Berg[1]
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T405 Using naturalistic stimuli to investigate the aging brain
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T406 Correlating brain morphology, circadian rhythm, and affectivity
Florence Steiner[1], Nina Sigg[1], Marco Caviezel[1], Thomas Leyhe[1], Tobias Melcher[1]
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T407 Lagged Coupled Changes between White Matter Microstructure and Processing Speed in Healthy Aging
Jessica Oschwald[1], Susan Mérillat[1], Franziskus Liem[1], Christina Röcke[1], Mike Martin[2], Lutz Jäncke[3]
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T408 Brain age estimation using kernel-based regression – comparison of different methods
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T409 A clinical fMRI protocol for cognitive-motor dual task
Oana Rus-Oswald[1,2], Julia Reinhardt[1,3], Céline Bürki[2], Stephanie Bridenbaugh[2], Christoph Stippich[1], Reto Kressig[2], Maria Blatow[1]
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T410 Brain aging and Psychometric Intelligence
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T411 4-week Intranasal Oxytocin Increases Insula Volume and Associated Empathy Scores in Aging
Elisha Myers[1], Desiree Lussier[1], Marilyn Horta[1], Ian Frazier[1], Rebecca Polk[2], David Feifel[3], Natalie Ebner[4]
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T412 Differences in response inhibition in healthy aging and its link to activation laterality
Bianca Kollmann[1], Alexandra Sebastian[1], Andreas Fellgiebel[1], Stefan Teipel[2], the German AgeGain Study Group[3], Oliver Tüscher[4]
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T413 Cross-hemispheric Connectivity Benefits in Normal Aging and MCI
Daisy Banta[1], Olga Lucia Gamboa Arana[1], Mariam Hovhannisyan[1], Courtney Crowell[1], Simon Davis[1]
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T414 Compensatory brain connectivity in SuperAgers: a Joint-ICA of rs-fMRI and FDG-PET
Wyllians Borelli[1], José Osmar Filho[2], Eduardo Leal-Conceição[1], Michele Andrade[1], Lucas Schilling[1], Cristina Matushita[1], Louise Hartmann[1], Ana Maria da Silva[1], Mirna Portuguez[1], Jaderson Costa da Costa[1], Alexandre Franco[2]
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T415 Dopamine-Dependent Cognitive Processes after Menopause: An fMRI Study
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T416 Graph mining on Aging using Brain Structural Networks
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T417 Aging Related Brain Morphometric Alterations : A Comparative Approach
Yashar Zeighami[1], Mahsa Dadar[1], Claude Lepage[2], Louis Collins[1], Lindsay Lewis[3], Alan Evans[4]
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T418 Age-dependent Links between Neural Variability and Visual Sampling Behavior during Scene Viewing
Niels Kloosterman[1], Marija Tochadse[1], Alistair Perry[1], Douglas Garrett[1]
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T419 Lower asymmetry in older adults during memory retrieval revisited: no evidence for compensation
James Roe[1], Didac Vidal-Pineiro[1], Markus Sneve[1], Kristiina Kompus[2], Douglas Greve[3], Kristine Walhovd[1], Anders Fjell[1], Rene Westerhausen[1]
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T420 Aging-related differences in the structural and functional basis of attentional flexibility
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T421 Vertex-wise gyrification associates with age and cognition in late life: The Rotterdam Study
Sander Lamballais[1], Eline Vinke[1], Hieab Adams[2], Meike Vernooij[3], Mohammad Ikram[4], Ryan Muetzel[3]
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T422 Grey matter volume & whole-brain pattern organization across lifespan and Alzheimer's disease
Alexa Pichet Binette[1], Julie Gonneaud[1], Judes Poirier[1], John Breitner[1], Sylvia Villeneuve[1], Etienne Vachon-Presseau[1], Alzheimer's Disease Neuroimaging Initiative[2], PREVENT-AD Research Group[1]
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T423 Detailed shape measures capture age-related neural differences better than volumetric approaches
Sophia Borgeest[1], Tim Kietzmann[1], Delia Fuhrmann[1], Richard Henson[1], Rogier Kievit[1]
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T424 Combining structural MRI images and MEG recordings for Biological brain age prediction
Arna Ghosh[1], Alba Xifra-Porxas[1], Georgios Mitsis[1], Marie-Hélène Boudrias[1]
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T425* The Oscillatory Neural Dynamics of Selective Attention Are Predicted by Epigenetic Measures of Aging
Alex Wiesman[1], Michael Rezich[1], Jennifer O'Neill[1], Brenda Morsey[1], Tina Wang[2], Trey Ideker[2], Susan Swindells[1], Howard Fox[1], Tony Wilson[1]
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T426 Altered diffusion properties in white matter hyperintensities: a function of age and blood pressure
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T427 Brain metabolites assessed by 1H-MRS in healthy aging and mild cognitive impairment
Antoine Hone-Blanchet[1], Lisa Krishnamurthy[2], Qixiang Lin[1], Salman Shahid[1], Candace Fleischer[1], Allan Levey[1], James Lah[1], Deqiang Qiu[1], Bruce Crosson[1]
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T428 The Relationship between Loneliness and Cognitive Function in The Elderly
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T429 Adult Age Differences in Inhibitory Control as Revealed by the Drift-Diffusion Model and fMRI
Arthur Tsai[1], Siddharth Nayak[1], Chih-Chan Hsu[1], Chii-Shyang Kuo[1], Shuo-Heng Li[1], Joshua Goh[2,3,4], Yi-Ping Chao[5], Jingling Li[6], Su-Ling Yeh[2,3,4]
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T430 Reduced Hippocampal Volume in Subjective Cognitive Decline: A Voxel-Based Morphometric Study
Giovanna Bubbico[1], Mariella Lauriola[2], Gianna Sepede[3], Angelo Di Iorio[4], Roberto Esposito[5], Mauro Gianni Perrucci[6], Armando Tartaro[3]
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Lifespan Development Other

T431 Inhibition of a response to a social stimulus: a developmental fMRI study

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T432 Corticosteroids and Regional Variation in Thickness of the Human Cerebral Cortex Across the Lifespan

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T433 Morphometric Similarity Across the Life Span: A Longitudinal Study

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T434 Large-scale brain modes reorganize between infant sleep states and carry prognostic information

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T435 Lifespan trajectories of the macro- and microstructure of the anterior and posterior hippocampus

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T436 Lifespan change in asymmetry of superior longitudinal fasciculus

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T437 Genetic markers for brain plasticity

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T438 Traces of childbirth in the female brain

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T439 Metacognitive questionnaire using adolescent-parent response difference

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T440 Brain correlates of air pollution in cognitively healthy individuals at risk of Alzheimer's disease

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T441 Larger Regional Brain Volumes in Alcohol-Exposed Infants Born to Mothers on Choline Supplementation

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T442 Sex differences in cerebral white matter across the lifespan

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T443 Group-level Structural Correlation with Age in the Life-span Brain on 6000+ subjects

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T444 Functional Connectivity Predicts Individual Longitudinal Development in Inhibitory Control Ability

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T445 Developmental trajectory of striatal reward processing and the modulatory role of urban upbringing

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T446 Differential Coupling between Subsequent Memory BOLD Response and Performance Across the Life-span

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T447 A prospective MRI study of the human father's brain changes within the default mode network

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T448 Neural Profiles of Socioeconomic Status in Multi-parametric MRI Maps

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T449 Linking Individual Differences in Brain Development to Behavioral Heterogeneity in Autism Spectrum

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T450 Thalamic volume associations with altered resting cortical power in children born very preterm

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T451 Perivascular spaces in 881 adults: correlation with physiological, behavioral, and volumetric data

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T452* Spatio-Temporal Patterns of Age-Related Gene Expression and Cortical Morphology

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T453 Associations Between Prenatal Alcohol Exposure and White Matter Microstructure in Young Children
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Normal Brain Development: Fetus to Adolescence

T454* Associations Between Neighborhood SES and Functional Brain Network Development
Ursula Tooley[1], Allyson Mackey[1], Rastko Ciric[1], Kosha Ruparel[1], Tyler Moore[1], Ruben Gur[1], Raquel Gur[1], Theodore Satterthwaite[1], Danielle Bassett[1]
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T455 Miniature pigs: a neuroimaging/spectroscopy model for human adolescent brain white mater development
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T456 Optimization of State Transition Trajectory Supports Development of Executive Function During youth
Zaixu Cui[1], Jennifer Stiso[1], Graham Baum[1], Jason Kim[1], David Roalf[1], Richard Betzel[2], Gu Shi[3], Zhixin Lu[1], Cedric Xia[1], Rastko Ciric[1], Desmond Oathes[1], Tyler Moore[1], Russell Shinohara[1], Kosha Ruparel[1], Christos Davatsikos[1], Fabio Pasqualetti[4], Raquel Gur[1], Ruben Gur[1], Danielle Bassett[1], Theodore Satterthwaite[1]
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T457 Parental education predicts functional connectivity of the hippocampus and amygdala 10 years later
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T458 Network segregation is associated with executive function development in Chinese children
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T459* Predicting deviations from the norm in the developing brain using cortico-genetic fingerprinting
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T460 Corpus callosum microstructure discriminates SSRI-exposed male and female term-born neonates
Kayleigh Campbell[1,2], Lynne Williams[1], Ursula Brain[3], Bruce Bjornson[1], Ruth Grunau[3], Dan Rurak[2], Steven Miller[4], Tim Oberlander[1,3]
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T461 Structural and functional network organisation in the developing human connectome project
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T462 Altered structure-function coupling in preterm babies from the developing human connectome project
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T463 Effects of alloparenting status for brain development in children: Resting-state fMRI study
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T464 Disrupted synchrony and metastability in preterm babies from the developing human connectome project
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T465 Joint Modelling of Brain Tissue Intensity and Shape Across the Perinatal Period in the dHCP
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T466 Developmental change of cross-modal inhibition during a finger motor task in humans
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T467 Developmental modelling of perinatal brain microstructure: effects of preterm birth - a dHCP study
Ralica Dimitrova[1], Daan Christiaens[1], Maximilian Pietsch[1], Thomas Wolfers[2], Dafnis Batalle[3], Jana Hutter[1], Lucilio Cordero-Grande[1], Price Anthony[1], Emer Hughes[1], Andre Marquand[2], Serena Counsell[1], J-Donald Tournier[1], Jo Hajnal[1], Stephen Smith[4], Daniel Rueckert[5], A David Edwards[1], Jonathan O'Muircheartaigh[3]
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T468 Structural and functional connectivity in the emerging scene processing network
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T469 Spatio-Temporal Changes of Transient Fetal Zones of the Human Brain Revealed by in-utero MRI
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T470* Genetic influences on cortical functional connectivity during longitudinal adolescent development
Jalmar Teeuw[1], Rachel Brouwer[1], João Guimarães[2,1], Philip Brandner[3,1], Marinka Koenis[4,1], Suzanne Swagerman[5], Maxime Verwoert[1], Dorret Boomsma[5], Hilleke Hulshoff Pol[1]
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T471 Gradient profiles of myelin and microstructure metrics across the developing brain
Erika Raven[1], Maxime Chamberland[1], Sila Genc[2], Kate Duffy[1], Chantal Tax[1], Greg Parker[1], Derek Jones[1]
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T472 Influence of neighbourhood on brain and mental health: A large scale MRI study of 4523 children
Neha Bhutani[1], Budhachandra Khundrakpam[1], Suparna Choudhury[2], Karys Peterson- Katz[2], Ian Gold[2], Alan Evans[1]
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T473* Association Between Intelligence and Cortical Thickness in Adolescents:Evidence from the ABCD Study
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T474 Aberrant gyrification mediates the link between gestational age and adult IQ after premature birth
Dennis Hedderich[1], Josef Bauml[1], Marcel Daamen[2], Aurore Menegaux[1], Peter Bartmann[2], Henning Boecker[2], Claus Zimmer[1], Dieter Wolke[3], Christian Gaser[4], Christian Sorg[1]
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T475 Development of long-term network uniqueness in the functional connectomes of the school-age children
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T476 Neonatal white matter microstructure and emotional development during pre-school years in children
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T477 Mapping the hemispheric asymmetries of cortical microstructure in infants with multi-modal MRI
Cindy Rolland[1], Jessica Lebenberg[2], François Leroy[1], Eric Moulton[2], Parvaneh Adibpour[1], Denis Rivière[3], Cyril Poupon[3], Lucie Hertz-Pannier[3], Jean-François Mangin[3], Ghislaine Dehaene-Lambertz[4], Jessica Dubois[1]
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T478 Infant diet influences early postnatal development of gamma coherence across cortical hemispheres
Linda Larson-Prior[1,2], Yuyuan Gu[2], Aline Andres[2,1], Heather Downs[2], Jayne Bellando[2,1], Kelly Jarratt[2], Thomas Badger[2,1], R.T. Pivik[2,1]
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T479 White matter micro- and macro-structural development in early childhood
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T480 The Developing Human Connectome Project: Neonatal imaging markers of spatiotemporal gene expression
Gareth Ball[1,2], Jakob Seidlitz[3,4], Antonios Makropoulos[5], Andreas Schuh[5], Jelena Božek[6], Jo Hajnal[1], Daniel Rueckert[5], Stephen Smith[7], Lucilio Cordero-Grande[1], Emer Hughes[1], Anthony Price[1], Emma Robinson[1], A David Edwards[1]
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T481 White matter connectivity sub-networks associated with pubertal onset and attention difficulties
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T482 Brain Responses to Human Voice Stimuli Reflect Development and Intelligence in Young Children
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T483 Frequency specificity of spontaneous brain activity in developing infant brain
Liming Hsu[1], Han Zhang[1], Xuyun Wen[1], Bin Jing[1], Tae-Eui Kam[1], Li Wang[1], Zhengwang Wu[1], Pew-Thian Yap[1], Kristine Baluyot[1], Brittany Howell[2], Martin Styner[1], Essa Yacoub[2], Geng Chen[1], Taylor Potts[1], John Gilmore[1], Joseph Piven[1], Keith Smith[1], Kamil Ugurbil[2], Hongtu Zhu[1], Heather Hazlett[1], Jed Elison[2], Weili Lin[1], Dinggang Shen[1], for UNC/UMN Baby Connectome Project Consortium[3]*
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T484 Time-varying Features of Functional Connectomes During Preterm Development
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T485 Rest functional brain maturation during the first year of life
Hervé Lemaître[1], Pierre Augé[1], Jean-Marc Tacchella[1], Ana Saitovitch[1], Ludovic Fillon[1], David Grévent[1], Nathalie Boddaert[1], Monica Zilbovicius[1]
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T486 Habituation and Novelty Detection of young infants in rural Africa and the UK: an auditory ERP study
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T487 The intrinsic link between Language, Attention and Executive Control revealed by fetal rs-fMRI
Pasquale Della Rosa[1], Matteo Canini[1], Paolo Cavoretto[1], Mirko Pozzoni[1], Antonella Iadanza[1], Silvia Pontesilli[1], Roberta Scotti[1], Paola Scifo[1], Massimo Candiani[1], Andrea Falini[1], Cristina Baldoli[1]
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T488 The development of the two-streams visual system during the first two years of life
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T489 Associations between testosterone and estradiol with amygdala subnuclei in adolescents
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T490 Magnetoencephalographic Signatures of Hierarchical Rule Learning in Fetuses
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T491 Long-range Connectivity in the Developing Brain Based on Morphometric Similarity: A dHCP study
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T492 Task-specific neural signatures of working memory in childhood
Monica Rosenberg[1], Kristina Rapuano[1], Richard Watts[1], May Conley[1], Steven Martinez[1], BJ Casey[1]
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T493 Cerebral Blood Flow Increases Across Early Childhood
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T494 Graph theoretical analysis of age-related differences in the episodic memory network in children
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T495 Beta oscillations correlate differentially with social bargaining through development
Pablo Billeke[1], Patricia Soto-Icaza[2], Alejandra Figueroa[1], Josefina Larrain-Valenzuela[3], Francisco Zamorano[4]
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T496 Comparison of brain volumes in term and preterm babies from the Developing Human Connectome Project
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T497 Fetal resting-state in the developing Human Connectome Project
Vyacheslav Karolis[1], Sean Fitzgibbon[2], Emer Hughes[3], Mary Rutherford[4], Laura McCabe[4], Lucilio Cordero-Grande[3], Anthony Price[5], Mark Jenkinson[2], Daniel Rueckert[6], A David Edwards[7], Jo Hajnal[3], Stephen Smith[8], Eugene Duff[2]
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T498 3-tissue compositional data analysis of developing HCP (dHCP) diffusion MRI data
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T499 In Vivo Development of Proliferative Compartments and Periventricular Crossroads Assessed by MRI
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T500 Functionally Dependent Improvement of Brain Network Communication Speed in the First Two Years
Sheng-Che Hung[1], Weiyan Yin[2], Jessica Cohen[1], Peter Mucha[3], Tengfei Li[4], Bingxin Zhao[5], Hongtu Zhu[6], Weili Lin[7]
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T501 Development of White Matter Under the Middle Temporal Gyrus in Individual Infant Brain
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T502 FMRI study of the neural correlates of associative learning in newborn infants
Sofia Dall'Orso[1], William Fifer[2], Peter Balsam[2], Jacqueline Brandon[3], Camilla O'Keeffe[3], David Edwards[3], Etienne Burdet[1], Tomoki Arichi[3]
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T503 Screen exposure related to increased theta/beta and theta/gamma band ratio in preschoolers
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T504 Brain activity during transitive and social action observation in adults and adolescents
Mathieu Lesourd[1], Alia Afyouni[1,2], Franziska Gerinswald[1,2], Lisa Raoul[1,2], Fabien Cignetti[3], Julien Sein[4], Bruno Nazarian[4], Jean-Luc Anton[4], Marie-Hélène Grosbras[1,2]
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T505 Folding dynamics of the Central Sulcus : a longitudinal study on preterms
Héloïse de Vareilles[1], Zhongyi Sun[1], Manon Benders[2], Clara Fischer[1], François Leroy[3], Linda de Vries[2], Floris Groenendaal[2], Denis Rivière[1], Jessica Dubois[3], Jean-Francois Mangin[1]
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T506 Early structural brain development in non-human primate
Akiko Uematsu[1,2], Junichi Hata[2,3], Makoto Fukushima[4], Noriyuki Kishi[5], Ayako Murayama[2], Shinsuke Koike[1], Hideyuki Okano[6]
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T507 The Developmental Characteristics of the Brain Diverse Club
Weiyan Yin[1], Jessica Cohen[1], Peter Mucha[1], Weili Lin[1]
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T508 Functional Segregation of the Sensory–motor and Associative Networks in Adolescence
Zeus Gracia-Tabuenca[1], Martha Moreno[1], Fernando Barrios[1], Sarael Alcauter[1]
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T509 Default Mode Network compensates for immature executive functional brain network during childhood
Menglu Chen[1], Lei Hao[1], Jiahu Xu[1], Yanli Zhao[1], Ying He[1], Ting Tian[1], Min Jiang[1], Jiahong Gao[2], Shuping Tan[3], Yong He[1], Sha Tao[1], Qi Dong[4], Shaozheng Qin[1]
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T510 **Forming A Functionally Flexible Brain During Early Infancy: The Brain Flexible Club**
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T511 **Premature brain maturation in offspring of mothers experiencing objective stress during gestation**
Katja Franke[1], David Laplante[2], Guillaume Elgbeili[2], Suzanne King[3]
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T512 **Premature Birth and Maternal Psychiatric Disorders Alter Hippocampal connectivity during Infancy**
Yuanyuan Chen[1], Andrew Salzwedel[1], Rebecca Stephens[2], Barbara Goldman[2], John Gilmore[2], Wei Gao[1,3]
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T513 **Characterizing the emergence of circuitry underlying cognitive control and reward motivation**
Kristina Rapuano[1], Monica Rosenberg[1], Richard Watts[1], BJ Casey[1]
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T514 **Prenatal Drug Exposure Alters Amygdala Functional Connectivity Growth During the First Year**
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T515 **Hemispheric Asymmetries of Macaque Cortical Properties during Early Brain Development**
*Jing Xia[1,2], Fan Wang[2], Zhengwang Wu[2], Li Wang[2], Caiming Zhang[1], Dinggang Shen[*2,3], Gang Li[*2]*
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T516 **The Predictive Architecture of Infant Functional Connectivity for 4-year Behavioral Outcomes**
Yuanyuan Chen[1], Andrew Salzwedel[1], Rebecca Stephens[2], Barbara Goldman[2], John Gilmore[2], Wei Gao[1,3]
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T517 **Aerobic fitness associated with structural organization of hippocampal subfields in male adolescents**
Sandhya P. Chakravartti[1], Bonnie Nagel[2], Megan Herting[3]
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T518 **Neural correlates of cognitive flexibility in typically developing children**
Bryce Dirks[1], Willa Voorhies[2], Dina Dajani[1], Paola Odriozola[3], Casey Burrows[4], Jason Nomi[1], Meaghan Parlade[1], Michael Alessandri[1], Jennifer Britton[1], Lucina Uddin[1]
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T519 **Brain Structure and Mental Health in Youth with Prenatal Alcohol Exposure and Postnatal Adversities**
Quinn Andre[1], Carly McMorris[1], Chantel Ritter[1], Preeti Kar[1], Ben Gibbard[1], Christina Tortorelli[2], Catherine Lebel[1]
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T520 **Sexual Dimorphism in Human Newborn Functional Connectivity of the Reward System**
Jerod Rasmussen[1], Alice Graham[2], Sonja Entringer[3], Philipp Töpfer[3], Damien Fair[4], Pathik Wadhwa[5], Claudia Buss[3]
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T521 **Characterising infant pain using neural pain signatures**
Eugene Duff[1], Sean Fitzgibbon[2], Tor Wager[3], Rebeccah Slater[2], Fiona Moultrie[4], Sezgi Goksan[5], Luke Baxter[1]
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T522 **The Impact of Within-volume Motion Correction on Newborn Diffusion Tensor Imaging**
Jerod Rasmussen[1], Martin Styner[2], Damien Fair[3], Alice Graham[4], Pathik Wadhwa[1], Thomas O'Connor[5], Claudia Buss[6]
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T523 **Maternal cannabis use during pregnancy effects fetal hippocampal functional connectivity**
Jasmine Hect[1], Toni Lewis[1], Brenden Coyle[1], Tamara Qawasmeh[1], Chris Trentacosta[1], Moriah Thomason[2]
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T524 **Reliability of multimodal MRI data in youth at risk for mental illness**
Vladislav Drobinin[1,2], Holly Van Gestel[2], Carl Helmick[2], Chris Bowen[1,2], Rudolf Uher[1,2]
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T525 **Functional Connectome Fingerprint of the Neonatal Human Brain**
Qiushi Wang[1,2,3], Xuhong Liao[4], Yuehua Xu[1,2,3], Tengda Zhao[1,2,3], Zhilei Xu[1,2,3], Yong He[1,2,3]
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T526 Month-by-month brain functional network development during the first two years of life
Han Zhang[1], Gang Li[1], Xuyun Wen[2], Bin Jing[2], Li-Ming Hsu[3], Tae-Eui Kam[4], Zhengwang Wu[5], Li Wang[6], Pew-Thian Yap[5], Kristine Baluyot[5], Brittany Howell[7], Martin Styner[5], Essa Yacoub[7], Geng Chen[5], Taylor Potts[5], John Gilmore[5], Joseph Piven[5], Keith Smith[5], Kamil Ugurbil[7], Hongtu Zhu[5], Heather Hazlett[5], Jed Elison[7], Dinggang Shen[8], Weili Lin[9], for UNC/UMN Baby Connectome Project Consortium[10]
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T527 Machine learning and ultrasound indices: Predicting a child's age
Marie Arsalidou[1,2], Evgeny Khalezov[1], Ekaterina Kondrateva[3], Nikolay Skuratov[3,4], Svetlana Sushchinskaya[3], Maxim Sharaev[3], Alexander Bernstein[3], Evgeny Burnaev[3]
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T528 Estimating Brain Maturation in Developing Adolescents with Multicontrast MRI
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T529 Prediction of age in preterm infants using automated analysis of EEG
Nathan Stevenson[1], Lisa Oberdorfer[2], Tobias Werther[2], Katrin Klebermass-Schrehof[2], Michael Breakspear[1], Sampsa Vanhatalo[3], James Roberts[1]
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T530 Functional Network Connectivity for Early Language and Motor Milestone Development
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T531 An adolescent brain development index validated across multiple cohorts
Monica Truelove-Hill[1], Guray Erus[1], Vishnu Bashyam[1], Chiharu Sako[1], Theodore Satterthwaite[1], Daniel Wolf[1], Christos Davatzikos[1]
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T532 Effect of dopamine on developmental changes in frontostriatal connectivity in a reward learning task
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T533 Infant resting-state fMRI analysis pipeline for UNC/UMN Baby Connectome Project
Han Zhang[1], Xuyun Wen[2], Bin Jing[3], Li-Ming Hsu[4], Tae-Eui Kam[5], Zhengwang Wu[6], Li Wang[7], Gang Li[8], Weili Lin[2], Dinggang Shen[1], for UNC/UMN Baby Connectome Project Consortium[9]
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T534 Differential macaque cortical thickness development in the light of maternal interleukin-6 and diet
Julian Ramirez[1], Alice Graham[1], Elina Thomas[1], Robert Hermosillo[1], Jennifer Zhu[1], Darrick Sturgeon[1], Emma Schifsky[1], Jacqueline Thompson[1], Jennifer Bagley[1], Samantha Papadakis[1], Muhammed Bah[1], AJ Mitchell[1], Eric Feczko[1], Elinor Sullivan[1,2], Damien Fair[1]
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T535 Contributions of changes in frontal glutamate levels to emotion processing through adolescence
Orma Ravindranath[1], Finnegan Calabro[2], Will Foran[1], Hoby Hetherington[2], Victor Yushmanov[3], Beatriz Luna[1]
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T536 Maturation of subcortical and cortical responses to lexical tones in the first two years of life
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T537 Assessing Age-Related White Matter Microstructure of the Connections Between the Thalamus and Cortex
Stefanie Bodison[1], Ryan Cabeen[2], Kirsten Lynch[2], Arthur Toga[2]
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MODELING AND ANALYSIS METHODS

Bayesian Modeling

T538 Bayesian network change point detection for resting state fMRI
Lingbin Bian[1], Adeel Razi[1], Tiangang Cui[1], Jonathan Keith[1]
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T539 A Spatial Bayesian GLM for Cortical Surface Task fMRI Analysis
Amanda Mejia[1], Yu Ryan Yue[2], David Bolin[3], Finn Lindgren[4], Martin Lindquist[5]
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T540 Bayesian Connective Field Modeling: a Markov Chain Monte Carlo approach
Azzurra Invernizzi[1], Koen Haak[2], Joana Carvalho[1], Remco Renken[1], Frans Cornelissen[1]
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T541 Synthesizing PET from MRI Using Conditional Flow-Based Generative Models
Haoliang Sun[1], Vikas Singh[1], Vivek Prabhakaran[1], Ronak Mehta[1], Hao Zhou[1], Sterling Johnson[1]
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T542 Efficient Inter-Subject Correlation Analysis for Naturalistic data via ROI-Based Multilevel Modeling
Gang Chen[1], Paul Taylor[1], Harvey Qu[2], Peter Molfese[1], Peter Bandettini[1], Robert Cox[1], Emily Finn[3]
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T543 Measuring and Suppressing M/EEG Connectivity Leakage
Deirel Paz-Linares[1,2], Eduardo Gonzalez-Moreira[1,3], Adil Deniz Duru[4], Pedro Valdes Sosa[1,2]
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T544 Model comparison with multimodal data: Concurrent Bayesian inference on imaging and behavioural data
Darije Custovic[1], Adam Hampshire[1]
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T545 Human adaptive learning during passive listening of oddball sequences
Francoise Lecaignard[1,2], Pauline Duret[1,2,3], emmanuel maby[1,2], Gaetan Sanchez[1,2], Christina Schmitz[1,2], Jérémie Mattout[1,2]
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T546 An Integrative Approach to Matrix-Based Analyses in Neuroimaging Connectomics
Gang Chen[1], Paul-Christian Bürkner[2], Paul Taylor[1], Zhihao Li[3], Lijun Yin[4], Daniel Glen[1], Joshua Kinnison[5], Robert Cox[1], Luiz Pessoa[5]
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T547 Hierarchical Bayesian Models of Social Inference for Probing Persecutory Delusional Ideation
Katharina Wellstein[1], Andreea Diaconescu[2], Lars Kasper[3], Christoph Mathys[4], Klaas Enno Stephan[5]
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T548 Blue-wavelength Light Strengthens the Default Mode Network following Mild TBI: A DCM-DTI Study
Sahil Bajaj[1], Adam Raikes[1], Adeel Razi[2], William Killgore[1]
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T549 A Bayesian model-based fMRI analysis of risk and volatility processes in humans
Vincenzo Fiore[1], Xiaosi Gu[1]
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T550 Informing Bayesian Functional Connectivity Modeling with Structural Connectivity Priors
Sameer Manchanda[1], Carolyn Murray[1], Sanmi Koyejo[2]
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Segmentation and Parcellation

T551 A simulation framework for validating surface-based cortical parcellation methods
Roy Haast[1], Giancarlo Valente[2], Kamil Uludag[3,2]
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T552 Influence of parcellation granularity on heritability of brain cortical brain structure
Sofie Valk[1], B. T. Thomas Yeo[2], Peter Kochunov[3], Felix Hoffstaedter[1], Simon Eickhoff[4]
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T553 Structural brain differences in patients with schizotypal personality disorder
Junbin Huang[1], Yishan Luo[2], Lin Shi[3], Jing Shen[4], Qing Zhang[4], Sijian Chen[5], Liang Zhang[5], Yueji Sun[6]
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T554 Toblerone: partial volume estimation on the cortical ribbon
Tom Kirk[1,2], Timothy Coalson[3], Flora Kennedy McConnell[1,2], Michael Chappell[1,2]
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T555 Deep Learning speeds up gapless Cytoarchitectonic Mapping in the Human Brain
Christian Schiffer[1], Hannah Spitzer[1], Kai Kiwitz[2], Katrin Amunts[1,2], Timo Dickscheid[1]
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T556 A Fully Convolutional Network-based Segmentation of the Deep Cerebellar Dentate Nucleus from 7T MRI
Jinyoung Kim[1], Rémi Patriat[1], Jordan Kaplan[1], Noam Harel[1]
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T557 Multimodal segmentation of liquor spaces
Roberto Viviani[1], Anna-Maria Paul[2], Julia Stingl[2]
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T558 Type of physical activity correlates with hippocampal subfield volume
Sara Lozano-Seoane[1], Laura Ezama-Foronda[1], Niels Janssen[1,2,3]
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T559 Accuracy of automated amygdala MRI segmentation tools in the IMAGE-HD Huntington's disease cohort
Bonnie Alexander[1], Nellie Georgiou-Karistianis[2], Richard Beare[3], Lotta Ahveninen[4], Julie Stout[4], Yifat Glikmann-Johnston[4]
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T560 Automatic recognition of cortical sulci using a CNN-based approach
Léonie Borne[1], Jean-Francois Mangin[2], Denis Rivière[3]
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T561 Multimodal parcellations and extensive behavioral profiling tackling hippocampus' gradient
Anna Plachti[1], Simon Eickhoff[1], Felix Hoffstaedter[2], Kaustubh Patil[3], Angela Laird[4], Peter Fox[5], Katrin Amunts[3], Sarah Genon[6]
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T562 Robust and accurate modeling of whole-head anatomy for individualized non-invasive brain stimulation
Oula Puonti[1], Koen Van Leemput[2], Guilherme Bicalho Saturnino[2], Jesper Nielsen[2], Hartwig Siebner[1], Kristoffer Madsen[1], Axel Thielscher[1]
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T563 Brain Tissue and Lesion Segmentation from MRI Using an Unsupervised Convolutional Autoencoder
Hans Atlason[1], Askell Love[2,3], Sigurdur Sigurdsson[4], Vilmundur Gudnason[4,2], Lotta Ellingsen[1,5]
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T564 Bagging Halves Data Needs for Reliable Functional Parcellation
Aki Nikolaidis[1], Anibal Heinsfeld[1], Ting Xu[1], Pierre Bellec[2], Joshua Vogelstein[3], Michael milham[1]
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T565 Comparing delineations of the Subthalamic Nucleus at 7 and 3 Tesla MRI
Bethany Isaacs[1,2], Martijn Mulder[3,1], Josephine Groot[1], Pierre-Louis Bazin[1,4], Birte Forstmann[1], Anneke Alkemade[1]
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T566 Evaluating Brain Parcellation using the Multi-Domain Task Battery
Jörn Diedrichsen[1], Maedbh King[2], Carlos Hernandez Castillo[1], Da Zhi[1], Richard Ivry[2]
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T567 Knowing what you know in brain segmentation using deep neural networks
Patrick McClure[1], Nao Rho[1], John Lee[1], Jakub Kaczmarzyk[2], Charles Zheng[1], Satrajit Ghosh[2], Dylan Nielson[1], Adam Thomas[1], Peter Bandettini[1], Francisco Pereira[1]
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T568 Hierarchical spectral clustering for global-to-local segmentation in frontotemporal degeneration
Rik Vandenberghe[1], Dorothy Gors[2], Rose Bruffaerts[3], Mathieu Vandenbulcke[3], Philip Vandamme[4], John van Swieten[5], Barbara Borroni[6], Daniela Galimberti[7], Raquel Sanchez-Valle[8], Robert Laforce Jr[9], Fermin Moreno[10], Matthis Synofzik[11], Caroline Graff[12], Maria Tartaglia[13], James Rowe[14], Elizabeth Finger[15], Fabrizio Tagliavini[16], Alexandre de Mendonça[17], Isabel Santana[18], Chris Butler[19], Simon Ducharme[20], Alex Gerhard[21], Adrian Danek[22], Johannes Levin[22], Markus Otto[23], Jonathan Rohrer[24], Patrick Dupont[3], Paul Suetens[25], Peter Claes[26]
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T569 Global-to-local segmentation of cortical shape using hierarchical spectral clustering
Alejandra Ortega Castrillon[1], James Thompson[2], Peter Claes[1]
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T570 Domain adaptation for inter-dataset segmentation in T1w MRI: a deep learning approach
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T571 Vessel segmentation using MP2RAGE images at 7T MRI
Uk-Su Choi[1,2], Hirokazu Kawaguchi[3], Tobias Kober[4], Ikuhiro Kida[1,2]
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T572 **Manual versus automated segmentation of data from 9-10-year-old children on different scanners**
Steven Randall[1], Christopher Warton[1], Leah Morgan[2], Allison Moreau[2], Mark Cotton[3], Barbara Laughton[3], Andre van der Kouwe[4,2,5], Ernesta Meintjes[6,7], Martha Holmes[8]
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T573 **Fetal Cortical Plate Segmentation using Fully Convolutional Neural Network with Plane Fusion**
Jinwoo Hong[1], Gilsoon Park[1], Hyuk Jin Yun[2], Kiho Im[2], Jong-Min Lee[1]
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T574 **Influence of parcellation atlas on quality of classification of neurodegenerative diseases**
Michaela Montilla[1], Martin Gajdoš[1]
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T575 **Cortical parcellation with Convolutional Neural Nets : accuracy over multiple T1 MRI sequences**
Benjamin Thyreau[1], Yasuyuki Taki[2]
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T576 **A novel approach for manual segmentation of the amygdala and hippocampus in neonate MRI**
Niloofar Hashempour[1], Jetro Tuulari[2], Harri Merissari[3], Kristian Lidauer[2], Iirsi Luukkonen[2], Saunavaara Jani Petteri[4], Riitta Parkkola[5], Tuire Lähdesmäki[6], Satu Lehtola[2], Maria Keskinen[2], John Lewis[7], Noora Scheinin[2], Linnea Karlsson[2], Hasse Karlsson[2]
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T577 **Individual whole-brain parcellation reveals individual variability in functional connectivity**
Shunsuke Okumura[1], Keisuke Nakamura[1], Satoru Hiwa[1], Tomoyuki Hiroyasu[1]
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T578 **Deep neural networks for quick MRI brain segmentation with automated QC**
Abhijit Guha Roy[1], Christian Wachinger[1]
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T579 **STUN: Spatial Transformer U-Net for segmentation of the hippocampus from MR images**
Nicola Dinsdale[1], Naiara Demnitz[1], Thomas Wassenaar[1], Claire Sexton[1], Janet Withall[2], Afroditi Stathi[3], Ana Namburete[1], Mark Jenkinson[1]
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T580 **CBPtools: A python package for multi-modal regional connectivity-based parcellation**
Niels Reuter[1,2], Sarah Genon[2], Shahrzad Kharabian Masouleh[2], Tobias Kalenscher[3], Felix Hoffstaedter[2,1], Kaustubh Patil[2,1], Simon B. Eickhoff[2,1]
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T581 **Non-negative matrix factorization of hippocampal-cortical resting state functional connectivity**
Raihaan Patel[1,2], Anthony Chen[1,3], Sejal Patel[1,4,5], M. Mallar Chakravarty[1,2,6]
[1]Cerebral Imaging Centre, Douglas Mental Health University Institute, Montreal, QC, Canada, [2]Department of Biological and Biomedical Engineering, McGill University, Montreal, QC, Canada, [3]Department of Neuroscience, McGill University, Montreal, QC, Canada, [4]Campbell Family Mental Health Research Institute, Centre for Addiction and Mental Health, Toronto, ON, Canada, [5]Institute of Medical Science, University of Toronto, Toronto, ON, Canada, [6]Department of Psychiatry, McGill University, Montreal, QC, Canada

T582 **Evaluation of T1 Hypointensity and T2 Hyperintensity White Matter Lesion Segmentation Algorithms**
Elijah Rockers[1], Kelvin Wong[1], Quentin Funk[1], Jon Xue[2], Joseph Masdeu[1], Belen Pascual[1]
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T583 **Evaluation of Planar and Volumetric Convolutional Neural Networks for Brain Segmentation**
Gabriele Valvano[1], Nicola Martini[2], Andrea Leo[1], Gianmarco Santini[3], Daniele Della Latta[2], Emiliano Ricciardi[1], Dante Chiappino[2], Pietro Pietrini[1]
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T584 **Evaluating different functional parcellations of the basal ganglia**
Carlos Hernandez[1], Maedbh King[2], Ian Harding[3], Jörn Diedrichsen[1], Richard Ivry[2]
[1]Western University, London, Ontario, Canada, [2]University of California, Berkeley, Berkeley, CA, United States, [3]Monash University, Melbourne, Victoria

T585 **A novel method for estimating connectivity-based parcellation of the human brain from diffusion MRI**
Ana Coelho[1], Henrique Fernandes[2], Ricardo Magalhaes[1], Pedro Moreira[1], Nuno Sousa[1]
[1]Life and Health Sciences Research Institute (ICVS) - School of Health Sciences, University of Minho, Braga, Portugal, [2]Aarhus University, Aarhus, Denmark

T586 **Structural covariance analysis to develop a data-driven voxelwise grey matter volume atlas system**
Riya Paul[1], Michael Czisch[1], Bertram Müller-Myhsok[1], Philipp Sämann[1]
[1]Max Planck Institute of Psychiatry, Munich, Germany

T587 **Detection of White Matter Hyperintensities in T1 without FLAIR**
Robert Dahnke[1], Gabriel Ziegler[2], Christian Gaser[1]
[1]Jena University Hospital, Jena, Germany, [2]DZNE, Otto von Guericke University, Magdeburg, Germany

T588 **Evaluation of non-invasive structural and functional MRI-based cortical parcellation**
Kelvin Mok[1,2], Sethu Boopathy Jegathambal[1,2], David Rudko[1,2], Amir Shmuel[1,2]
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T589 Unraveling the Dynamic States of Individual Brain Functional Parcellation
Amal Boukhdhir[1], Max Mignotte[2], Yu Zhang[1], Pierre Bellec[3]
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T590 Ultra High Resolution Segmentation Showing Hippocampal Dentation From Common T1w Images
Lawrence Ver Hoef[1,2], Anandh Kilpattu Ramaniharan[1], Goutham Selladurai[1]
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T591 Human hippocampal subfield volume variability and mood across one complete reproductive cycle
Caitlin Taylor[1], Laura Pritschet[1], Evan Layher[1], Tyler Santander[1], Shuying Yu[1], Scott Grafton[2], Emily Jacobs[2]
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T592* Atlases of cognition with large-scale human brain mapping
Gael Varoquaux[1], Yannick Schwartz[1], Russell Poldrack[2], baptiste gauthier[3], Danilo Bzdok[4], Jean-Baptiste Poline[5], Bertrand Thirion[6]
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T593 Longitudinal Automatic Segmentation of Hippocampal Subfields (LASHiS) using multi-contrast MRI
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T594 Efficient MRI segmentation of traumatic brain injury data using active learning
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T595 3D UNet with convolutional block attention module for white matter hyperintensities segmentation
Gilsoon Park[1], Jinwoo Hong[1], Jin-Ju Yang[1], Jong-Min Lee[1]
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T596 Time-Varying Brain Network Parcellation using TMS-EEG
Molly Lucas[1], Yinming Sun[1], Wei Wu[1], Yu Zhang[1], Russell Toll[1], Matthew Menezes[1], Parker Longwell[1], Emmanuel Shpigel[1], Karen Monuszko[1], Hersh Trivedi[1], Kamron Sarhadi[2], Amit Etkin[3]
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T597 Individually tailored segmentation method for distorted hypothalamus in craniopharyngioma patient
Miwoo Lee[1,2,3], A Ram Hong[4], Jung Hyun Lee[5], Jung Hee Kim[6], Yong Hwy Kim[5], Hyung Jin Choi[1,2]
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Task-Independent and Resting-State Analysis

T598 Network extraction method using hierarchical ICA-based approach: a simultaneous EEG-fMRI study
Takeshi Ogawa[1], Hiroki Moriya[2], Nobuo Hiroe[3], Takashi Yamada[4], Motoaki Kawanabe[1], Jun-ichiro Hirayama[3]
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T599 The Norepinephrine Transporter Gene and Brain Activity in Attention-Deficit/Hyperactivity Disorder
Chi-Yung Shang[1], Hsiang-Yuan Lin[1], Susan Shur-Fen Gau[1]
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T600 Functional significance of resting-state fMRI in relation with fixational eye movement
Tetsuya Iidaka[1], Tomohiro Kogata[1], Hiroyuki Yamamoto[1]
[1]Nagoya University, Nagoya, Japan

T601 Task-potency investigations in autism spectrum disorder
Tristan Looden[1], Roselyne Chauvin[2,1], Maarten Mennes[1], Jan Buitelaar[2,1,3], Christian Beckmann[2,1,4]
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T602 Disrupted network topology in premenstrual dysphoric disorder is related to childhood maltreatment
Rotem Dan[1], Inbal Reuveni[2], Laura Canetti[1], Marta Weinstock[1], Ronen Segman[2], Gadi Goelman[1], Omer Bonne[2]
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T603 Musical prodigies have enhanced intrinsic functional connectivity in parieto-frontal brain networks
Megha Sharda[1], Michael Weiss[1], Isabelle Peretz[1]
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T604 Age and gender effects on resting-state networks after mild traumatic brain injury
Mayra Bittencourt-Villalpando[1], Harm van der Horn[2], Edith Liemburg[2], Natasha Maurits[2], Joukje van der Naalt[2]
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T605* Fractal dimension enables the functional differentiation of resting state networks
Camillo Porcaro[1,2,3], Marco Marino[4], Liu Quanying[5,6], Jessica Samogin[7], Franca Tecchio[1,8], Carlo Cottone[1], Dante Mantini[9,10]
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T606 Altered functional connectivity of prefrontal cortex in a rat Fetal Alcohol Spectrum Disorder model
Shiyu Tang[1], Su Xu[1], Jaylyn Waddell[1], Rao Gullapalli[1], Sandra Mooney[1]
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T607 Distance-based Functional Criticality in the Human Brain: Intelligence and Emotional Intelligence
Lili Jiang[1], Kaini Qiao[1], Chunlin Li[1]
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T608 Contributions of covert self-driven cognition to resting state dynamic functional connectivity
Javier GonzalezCastillo[1], Cesar Caballero-Gaudes[2], Natasha Topolski[3], Francisco Pereira[1], Daniel Handwerker[4], Peter Bandettini[1]
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T609 Using machine learning to predict individual language task activation from resting state fMRI
Yang Wang[1], Alexander Coehn[1], Chen Niu[2], Ziyi Chen[1], Andrew Kalnin[3], Brenna McDonald[4], Kristine Mosier[4], Andrew Saykin[4]
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T610 Deconstructing increased network clustering with magnetoencephalography in glioma patients
Shanna Kulik[1], Jolanda Derks[1], Tianne Numan[1], Philip De Witt Hamer[1], Arjan Hillebrand[2], Martin Klein[1], Jeroen Geurts[1], Jaap Reijneveld[1], Cornelis Stam[2], Menno Schoonheim[1], Linda Douw[3]
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T611 Changes in FMRI network dynamic connectivity following 40 Hz visual stimulation
David Bridwell[1], Vince Calhoun[2]
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T612 Validation of permutation tests comparing fMRI inter-subject correlations between groups
Jussi Tohka[1], Frank Pollick[2], Juha Pajula[3], Jukka-Pekka Kauppi[4]
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T613 Multiple separable factors influence the reliability of resting-state functional connectivity
Evan Gordon[1], Timothy Laumann[2], Abraham Snyder[2], Caterina Gratton[3], Steven Petersen[2], Nico Dosenbach[2], Steven Nelson[1]
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T614* Ultra-high-order ICA: fine overlapping functional parcellations and spatiotemporal reconfiguration
Armin Iraji[1], Zening Fu[1], Thomas DeRamus[1], Shile Qi[1], Srinivas Rachakonda[1], Yuhui Du[1], Vince Calhoun[1]
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T615 Early Life Stress Alters Intrinsic Amygdala-prefrontal Connectivity – Cross-cultural Validation
Xinqi Zhou[1], Fei Xin[1], Congcong Liu[1], Lei Xu[1], Xiaoxiao Zheng[1], Jialin Li[1], Meina Fu[1], Keshuang Li[1], Ayline Maier[2], Dirk Scheele[2], Rene Hurlemann[2], Simon Eickhoff[3,4], Keith Kendrick[1], Benjamin Becker[1]
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T616 Slow inspiration desynchronizes phase coherence in the human brain
Shen-Mou Hsu[1], Chih-Hsin Tseng[1], Chao-Hsien Hsieh[1], Chang-Wei Hsieh[2]
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T617 EEG-fMRI preprocessing methods in children with drug resistant focal epilepsy: a preliminary study
Ludovic Fillon[1,2,3], Monika Eisermann[4,3], Thomas Blauwblomme[5,3], Jennifer Boisgontier[1,2,3], Volodia Dangouloff-Ros[1,2,3], Jean-Marc Tacchella[1,2,3], Hervé Lemaître[1,2,3], David Grévent[1,2,3], Louise Tyvaert[6], Emma Losito[4,3], Ana Saitovitch[1,2,3], Monica Zilbovicius[1,2,3], Rima Nabbout[7,3], Anna Kaminska[4,3], Nathalie Boddaert[1,2,3]
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T618 Resting state network activity predicts occurrence of spontaneous replay
Cameron Higgins[1], Yunzhe Liu[2], Zeb Kurth-Nelson[2,3], Diego Vidaurre[1], Ray Dolan[2,4], Timothy Behrens[1,4], Mark Woolrich[1]
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T619 Inefficient use of shared functional processes in the ADHD brain: analysis across three tasks
Roselyne Chauvin[1,2], Marianne Oldehinkel[3,1,2], Jan Buitelaar[1,2,4], Christian Beckmann[1,2,5], Maarten Mennes[2]
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T620 Test-retest reliability of the rs-fMRI blind HRF retrieval approach
Sofie Van Den Bossche[1], Guorong Wu[2], Štefan Holiga[3], Fabio Sambataro[4], Alessandro Bertolino[5], Juergen Dukart[6], Daniele Marinazzo[1]
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T621* **Parvalbumin interneurons underlie in-vivo brain function and schizophrenia risk**
Kevin Anderson[1], Meghan Collins[1], Rowena Chin[1], Tian Ge[2], Monica Rosenberg[1], Avram Holmes[1]
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T622 **The Hippocampal Rostro-caudal Gradient: Evidence from Functional Connectivity Measures and ReHo**
Gianluca Saetta[1], Eraldo Paulesu[2], Maurizio Sberna[3], Manuela Berlingeri[4]
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T623 **Understanding the function of human amygdala using connectopic mapping**
Izabela Przezdzik[1], Koen Haak[1], Guillen Fernandez[1], Christian Beckmann[1]
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T624 **Test-Retest Reliability of Resting-State BOLD Signal Variability Measures**
Jason Nomi[1], Taylor Bolt[2], Aaron Heller[1], Lucina Uddin[1]
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T625 **Functional interactions in hemianopics: a node-based connectivity study of resting fMRI signal**
Caterina Pedersini[1], Joan Guardia-Olmos[2], Marc Montala-Flaquer[2], Nicolo' Cardobi[1], Javier Sanchez-Lopez[1], Giorgia Parisi[1], Silvia Savazzi[1,3,4], Carlo Marzi[1,4]
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T626 **Cognitive vulnerability to sleep deprivation is associated with two dynamic connectivity states**
James Teng[1], Ju Lynn Ong[1], Amiya Patanaik[2], Jesisca Tandi[1], Michael Chee[1], Julian Lim[1]
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T627 **Topography and behavioral relevance of the global signal in the dynamic resting human brain**
Jingwei Li[1], Taylor Bolt[2], Danilo Bzdok[3], Jason Nomi[4], B. T. Thomas Yeo[1], Lucina Uddin[4], R. Nathan Spreng[5,6]
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T628 **Prism adaptation enhances decoupling between the default mode network and the attentional networks**
Meytal Wilf[1], Andrea Serino[1], Stephanie Clarke[1], Sonia Crottaz-Herbette[1]
[1]University Hospital Lausanne (CHUV), Lausanne, Switzerland

T629 **Long-range phase synchronization of high-gamma activity in human cortex**
Gabriele Arnulfo[1,2], Sheng H Wang[2], Nitin Williams[2], Hirvonen Jonni[2], Marco Fato[1], Lino Nobili[1], Francesco Cardinale[3], Annalisa Rubino[3], Alexander Zhigalov[4], Satu Palva[5,2], Matias Palva[5,2]
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T630 **Association between physiological processes and time-varying resting-state functional connectivity**
Alba Xifra-Porxas[1], Michalis Kassinopoulos[1], Georgios Mitsis[1]
[1]McGill University, Montreal, Quebec, Canada

T631 **Effects of Infantile Hydrocephalus on Functional Connectivity of Resting State Networks**
Ikhlas Hashi[1], Estelle Ansermet[2], Roy Eagleson[3], Sandrine de Ribaupierre[4,5,6]
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T632 **Test-Retest Reliability Comparison of Spontaneous Brain Activities between OEF and BOLD Contrasts**
Yang Yang[1], Yayan Yin[2], Jie Lu[2], Qihong Zou[1], Jia-Hong Gao[1]
[1]Center for MRI Research, Peking University, Beijing, China, [2]Department of Radiology, Xuanwu Hospital, Capital Medical University, Beijing, China

T633 **Positive & negative individual traits are explained by spatio-spectrally distinct MEG brain networks**
Robert Becker[1], Alexis Hervais-Adelman[1]
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T634 **Eyes open or eyes closed at rest? How eye state affects functional connectivity**
Elisenda Bueichekú[1], Jesús Adrián-Ventura[1], Víctor Costumero[2], Cesar Avila[1]
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T635 **Selective-stopping strategies are associated with different resting-state signatures**
Yuranny Cabral-Calderin[1], Anya Dietrich[2], Michael Wibral[2], Oliver Tüscher[3]
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T636 **Vigilance-dependent EEG correlates of the fMRI Default Mode Network**
Sarah Goodale[1], Catie Chang[2]
[1]Vanderbilt University, Nashville, TN, United States, [2]Vanderbilt University, Nashville, TN, United States

T637 **Estradiol shapes resting-state functional connectivity strength over a complete reproductive cycle**
Laura Pritschet[1], Tyler Santander[1], Evan Layher[1], Caitlin Taylor[1], Shuying Yu[1], Michael Miller[1], Scott Grafton[1], Emily Jacobs[1]
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T638 **Age-Related Differences in Brain Functional Connectivity and Associations with Sleep-Activity Cycles**
Megan McMahon[1], Kimberly Ray[1], Derek Pisner[1], Laura Gandy[1], David Schnyer[1]
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T639 **Short and Long-term Hypothalamic Response to Sugars and Artificial Sweeteners**
James Higgins[1], Yiben Yang[1], Theodore Angelopoulos[2], Stephen Bravo[3], James Rippe[2], Ji-Ping Wang[1], Todd Parrish[1]
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T640 Resting-state functional connectivity of premotor regions differently involved in grasping actions
Luciano Simone[1], Luca Fornia[2], Luca Viganò[3], Henrietta Howells[1], Andrea Bellacicca[1], Guglielmo Puglisi[4], Antonella Leonetti[1], Lorenzo Bello[5], Gabriella Cerri[1]
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T641 Longitudinal Functional and Behavioral Markers of Stable Individual Characteristics
Adam Eichenbaum[1], Dan Lurie[1], Jessica Cohen[2], Mark D'Esposito[1]
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T642 Reorganization of the DMN in Information Processing: the role of Precuneus and Posterior Cingulate
Pedro da Silva[1], Carlo Rondinoni[2], Renata Leoni[3]
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T643 Functional resting-state abnormalities in schizophrenia and bipolar disorder patients
Anastasia Benedyk[1], Maximilian Lueckel[1], Roman Kessler[2], Andreas Jansen[3]
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T644 Time of day is associated with reductions of BOLD signal amplitude and functional connectivity
Csaba Orban[1], Ru Kong[1], Jingwei Li[1], Michael Chee[2], B. T. Thomas Yeo[1,2,3,4]
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T645 Beyond the test-retest reliability: the impact of the intra- and inter-individual variation
Annachiara Korchmaros[1], Jae Wook Cho[1], Anibal Heinsfeld[1], James Haxby[2], Michael Milham[1], Ting Xu[1]
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T646 Test-retest reliability of functional connectivity gradients
Seok-Jun Hong[1], Ting Xu[1], Anthony Mekhanik[1], Michael Milham[1,2]
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T647 Prediction of cognitive control ability using resting state cortico-subcortical connectivity
Xiao Yang[1]
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T648 Dynamics of infraslow global activity in the resting state fMRI
Behnaz Yousefi[1], Shella Keilholz[2]
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T649 Resting state community structure in cocaine dependence
Amardeep Kedia[1], Nalin Abrol[1], Eduardo Garza-Villarreal[2], Vinoo Alluri[1]
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T650 Analysis of the Whole Brain Functional Connectivity as a Neurobiological Basis for Behavioral Scales
Hae-Yoon Choi[1,2], Hyunseok Bahng[2,3], Joohan Kim[4], Soowon Jo[1,2], Yoonkyung Choi[1,2,5], Hae-Jeong Park[1,2,3,5]
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T651 Dynamic functional network connectivity in healthy older and younger adults
Manesh Girn[1], Amber Lockrow[1], Roni Setton[1], Laetitia Mwilambwe-Tshilobo[1], Gary Turner[2], R Nathan Spreng[1]
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PERCEPTION AND ATTENTION

Attention: Auditory/Tactile/Motor

T652 Reinterpreting the P3a to distracting sounds: an index of their arousing properties
Rémy Masson[1], Aurélie Bidet-Caulet[1]
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T653 Population receptive field and attentional field modeling in somatosensory cortex using 7T fMRI
Alexander Puckett[1], Saskia Bollmann[2], Keerat Junday[1], Markus Barth[2], Ross Cunnington[1]
[1]Queensland Brain Institute, The University of Queensland, Brisbane, QLD, Australia, [2]Centre for Advanced Imaging, The University of Queensland, Brisbane, QLD, Australia

T654 Increase of both bottom-up and top-down attentional processes in high dream recallers
Perrine Ruby[1], Rémy Masson[1], Benoit Chatard[1], Laure Bottemanne[1], Raphael Vallat[1], Aurélie Bidet-Caulet[1]
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T655 EEG complexity of children with ADHD measured by multiform entropies
Zirui Zhang[1], Xiaoli Li[2]
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T656 Development of Top-Down and Bottom-Up attentional balance from childhood to adulthood
Roxane Hoyer[1], Hesham ElShafei[1], Julie Hemmerlin[1], Romain Bouet[1], Aurélie Bidet-Caulet[1]
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Attention: Visual

T657 Spatiotemporal dynamics of exogenous attention: evidence from human intracerebral recordings
Tal Seidel Malkinson[1], Dimitri Bayle[2], Alexia Bourgeois[3], Katia Lehongre[4], Vincent Navarro[5], Claude Adam[5], Paolo Bartolomeo[6]
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T658 Striatal Dopamine in Attentional Inhibition: Too Much, Too Little, or Just Enough
Grace Whitaker[1], Ellen Poliakoff[2], Joanna Neill[2], Wael El-Deredy[1]
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T659 A combined EEG-fMRI experiment of detection without localisation in change blindness
Catriona Scrivener[1], Asad Malik[1], Michael Lindner[1], Etienne Roesch[1]
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T660 Processing Targets and Distractors in Serial Visual Search. An fMRI - Eye Tracking Study
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T661 Attention to Action Categories Shifts Semantic Tuning Toward Targets Across the Brain
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T662* A new attention node in macaque and human temporal cortex connects to fronto-parietal areas
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T663 Prism Adaptation Differentially Modulates Resting-State Functional Connectivity
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T664 Alpha and alpha-beta phase synchronization in the recruitment of the dorsal attention network
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T665 The effect of single and dual sensory stimuli on positive and negative BOLD responses
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T666 Beta band communication flow within DAN controls attentional processes
Sara Spadone[1], Miroslaw Wyczesany[2], Stefania Della Penna[3], Maurizio Corbetta[4], Paolo Capotosto[1]
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T667 Unexpected impact of upper hemifield on visual attention indexes: a new good practice for N2pc users
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T668 Residual correlations reveal top-down selective attention mechanisms in healthy and depressed adults
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T669 Spatially-Specific Attention Mechanisms Are Sensitive to Competition During Visual Search
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T670 Timing of brain activity during shifts of visuospatial attention: A bioelectrical neuroimaging study
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T671 Temporal Variability of Brain Networks Predicts Individual Differences in bistable perception
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T672 Right hemisphere dominance in unconscious visual attention in hemianopic patients
Javier Sanchez-Lopez[1], Caterina Pedersini[1], Nicolo' Cardobi[1], Giorgia Parisi[1], Silvia Savazzi[1], Carlo Marzi[1]
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T673 Dissecting "Spatial Neglect" with the EEG
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T674 Beyond dorsal and ventral: engagement of large-scale networks in update of object-based attention
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T675 Concurrent TMS-fMRI and MVPA reveals a causal role of right dlPFC in driving selective attention
Jade Jackson[1], Eva Feredoes[2], Anina Rich[3], Michael Linder[2], Alexandra Woolgar[4,5]
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T676 Different rhythm modulations serve different mechanisms during reorienting of visuospatial attention
Sara Spadone[1], Viviana Betti[2], Carlo Sestieri[1], Vittorio Pizzella[3], Maurizio Corbetta[4], Stefania Della Penna[1]
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T677 An Electrophysiological Study Contrasting Selective Attention vs. Perceptual Expectation
José Peñalver[1], David López-García[1], María Concepción Castellanos[1], María Ruz[1]
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T678 Use of Attention Networks to Overcome Visual Cortex Deficits in Schizophrenia
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T679 Aging affects the association between visual short-term memory capacity and thalamo-cortical tracts
Aurore Menegaux[1], Felix Bäuerlein[2], Aliki Vania[3], Natan Napiorkowski[3], Julia Neitzel[4], Adriana Ruiz-Rizzo[3], Hermann Müller[3], Christian Sorg[1], Kathrin Finke[5]
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T680 Extracting connectomes from EEG signals during a visual attention task
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T681 Speed-accuracy trade-off and its relation to top-down attention
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T682 When style matters: low dimensionality in visual exploration dynamics
Andrea Zangrossi[1,2], Giorgia Cona[3,2], Miriam Celli[4], Marco Zorzi[4,2], Maurizio Corbetta[5,2]
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T683 Phasic alerting effects are associated with iFC in the cingulo-opercular network
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T684 Multimodal signatures of selective attention dynamics across the adult lifespan
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T685 Effect of 40 Hz tACS of parietal cortex on endogenous spatial attention
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T686 Dynamic computation of feature-based attentional priorities: evidence from fMRI
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T687 On the Plasticity of Functional Connections Between Sensory Cortex and Attention Networks
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T688 Objects seen as scenes: neural circuitry for attending whole or parts
Marlis Ontivero-Ortega[1], Mitchell Valdes-Sosa[1], Jorge Iglesias-Fuster[1], Agustin Lage-Castellanos[1], Jinnan Jinnan Gong[2], Cheng Luo[2], Ana Maria Castro-Laguardia[1], Maria Antonieta Bobes[1], Daniele Marinazzo[3], Dezhong Yao[2]
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T689 Retinotopic mapping of attention field in the human brain
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T690 Neural Responses in Primary Visual Cortex Following Deafferentation of Retinal Input
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T691 Heterogeneous Catecholaminergic Modulation of Asynchronous LFP Activity in Attention
Vicente Medel[1], Samy Castro[2], Martín Irani[1], Joaquin Valdés[1], Brice Follet[1], Jean-Philippe Lachaux[3], Nicolas Crossley[1], Tomas Ossandon[1]
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T692 Convergent Functional Network Connectivity Changes in Attention Capture and Awareness
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T693 Neural Representation of Visual Features during Optimal and Sub-optimal Attentional States
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T694 Causal contribution of the right posterior parietal cortex to components of visuospatial attention
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Chemical Senses: Olfaction, Taste

T695 Valenced Smells Cause Transient Emotional States in Resting State
Heather Carlson[1], David Sander[1], Sylvain Delplanque[1], Christelle Porcherot[2], Isabelle Cayeux[2], Patrik Vuilleumier[1]
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T696 An MRI-compatible Headspace Odorant Emitter
Lior Gorodisky[1], Tali Weiss[1], Ethan Livne[1], Noam Sobel[1]
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T697 Human Olfaction Without an Olfactory Bulb
Tali Weiss[1], Timna Soroka[1], Lior Gorodisky[1], Thijs Dhollander[2], Noam Sobel[1]
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T698 Human Non-Olfactory Cognition is Phase-Locked with Inhalation
Ofer Perl[1], Aharon Ravia[1], Mica Rubinson[2], Ami Eisen[2], Timna Soroka[1], Nofar Mor[1], Lavi Secundo[1], Noam Sobel[1]
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Consciousness and Awareness

T699 The Resting State Functional Connectivity of the Human Claustrum
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T700 Anosognosia for Hemiplegia: a tripartite disconnection syndrome
Valentina Pacella[1], Chris Foulon[2], Paul Jenkinson[3], Sara Bertagnoli[4], Renato Avesani[4], Valentina Moro[4], Aikaterini Fotopoulou[5], Michel Thiebaut de Schotten[2]
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T701 Effective connectivity in the action representation system during aware and unaware tool processing
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T702 Lack of relationship between subjective experience and the complexity of the EEG signal
Paweł Orlowski[1], Martyna Płomecka[1], Marcin Koculak[2], Inga Griskova-Bulanova[3], Michał Bola[1]
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T703 The symmetric brain networks of agency and prior beliefs. Evidence from fMRI in healthy humans
Giuseppe Zito[1,2,3], Salome Heim[3], Kallia Apazoglou[4], Roland Wiest[1,2], Selma Aybek[3]
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T704 How brain-network topology shapes neural responses according to Mindfulness disposition?
Jean-Baptiste Billaud[1], Iéa Boyer[2], Denis Ducreux[3], Marion Trousselard[2]
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T705 Robust EEG-based Cross-Site and Cross-Protocol Prediction of Diagnosis in Disorders of Consciousness
Denis Engemann[1], Federico Raimondo[2], Jean-Remi King[3], Benjamin Rohaut[4], Gilles Louppe[5], Frédéric Faugeras[6], Jitka Annen[7], Helena Cassol[7], Olivia Gosseries[7], Diego Fernandez-Slezak[8], Steven Laureys[9], Lionel Naccache[4], Stanislas Dehaene[10], Jacobo Sitt[11]
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T706 Human consciousness is supported by dynamic complex patterns of brain signal coordination
Athena Demertzi[1], Enzo Tagliazucchi[2], Stanislas Dehaene[3], Gustavo Deco[4], Pablo Barttfeld[5], Federico Raimondo[6], Charlotte Martial[1], Davinia Fernández-Espejo[7], Benjamin Rohaut[6], Henning Voss[8], Nicholas Schiff[9], Adrian Owen[10], Steven Laureys[1], Lionel Naccache[6], Jacobo SITT[6]
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T707 Body Awareness Results in Characteristic Dynamic Functional Connectivity States
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T708 EEG signal diversity reflects capability for behavioral responsiveness during propofol sedation
Michał Bola[1], Paweł Orłowski[1], Martyna Płomecka[1], Artur Marchewka[1]
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T709 Brain mechanisms underlying conscious and unconscious decoding of conditioned expectation for pain
Yiheng Tu[1,2], Joel Park[1], Seppo Ahlfors[2], Sheraz Khan[2], Natalia Egorova[3], Jin Cao[1], Jian Kong[1,2]
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T710 ERPs and pupillometry reveal brain responses to acoustic contrasts with and without conscious report
Sergio Osorio[1,2], Rodrigo Henriquez[1,2], Rosario Gajardo[1,2], Brice Follet[3,2], Francisco Aboitiz[1,2]
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T711 TMS-induced Numbsense: Unconscious Touch Perception Without Primary Somatosensory Cortex
Lua Koenig[1], Tony Ro[1]
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T712 **Common spatiotemporal brain dynamics distinguish conscious from various unconscious states**
Zirui Huang[1], Jun Zhang[2], Anthony Hudetz[1]
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T713 **Functional parcellation of the meditative brain based on the amplitude of low-frequency fluctuation**
Tomoki Furuie[1], Satoru Hiwa[1], Tomoyuki Hiroyasu[1]
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T714 **Intra- and inter-individual variation in the resting- and meditative-state functional connectivity**
Yuki Otsuka[1], Satoru Hiwa[1], Tomoyuki Hiroyasu[1]
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T715 **An fMRI study on the attentional state induced by breath-counting meditation**
Shoko Yamamoto[1], Satoru Hiwa[1], Tomoyuki Hiroyasu[1]
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T716 **Fluctuations in fMRI and MEG Informational Measures Relate to Wakeful Arousal and Behaviour**
Daniel Bor[1], Aleksi Ikkala[1], Darren Price[1], Sridharrajan Jagannathan[1], Thomas Varley[2], Emmanuel Stamatakis[1], Tristan Bekinschtein[1]
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T717 **Correlates of confidence in the early phase of the BOLD response to backwardly masked visual stimuli**
Cilia Jäger[1], Sarah Glim[1], Cristiana Dimulescu[1], Anja Ries[1], Christian Sorg[2], Afra Wohlschlaeger[1]
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T718 **Is P3b a correlate of consciousness? Event-related potentials to subliminal self-related stimuli**
Łucja Doradzińska[1], Michał Wójcik[2,1], Marta Paź[1], Maria Nowicka[1], Anna Nowicka[1], Michał Bola[1]
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T719 **Decoding across sensory modalities reveals common supramodal signatures of conscious perception**
Gaetan Sanchez[1], Thomas Hartmann[2], Marco Fusca[2], Nathan Weisz[2]
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T720 **"Dynamics" of Anticorrelations from Vegetative/Unresponsive to Minimally Conscious State**
Sara Palermo[1], Mario Stanziano[2], Mario Cirillo[3], Maria Antonietta Scafuro[4], Anna Estraneo[5], Luigi Trojano[6], Francesco Sardanelli[7], Michele Papa[8]
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T721 **Time-delay properties of brain dynamics are linked with the level of consciousness**
Jorge Rudas[1], Darwin Martínez[2], Gabriel Castellanos[3], Athena Demertzi[4], Andrea Soddu[5], Steven Laureys[6], Francisco Gómez[7]
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T722 **Combining TMS, virtual reality and psychophysics to investigate bodily self-consciousness**
Matteo Franza[1,2,3,4,5], Giuliana Sorrentino[1,2,6,4,5], Nathan Faivre[1,2,7,4,5], Michela Bassolino[1,2,3,4,5], Olaf Blanke[1,2,8,4,5]
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T723 **Inter-individual Variability of Functional Connectivity in Awake and Anesthetized Rhesus Monkeys**
Ting Xu[1], Darrick Sturgeon[2], Julian Ramirez[2], Seán Froudist-Walsh[3], Daniel Margulies[4], Charles Schroeder[5], Damien Fair[2], Michael milham[1]
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T724 **Modulation of continuous flash suppression (CFS) depth by spatial attention**
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T725 **Competitive frontoparietal interactions mediate implicit inferences**
Martijn Wokke[1,2], Tony Ro[3]
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T726 **Differential Frontal Alpha Oscillations Could Reflect Distinct Mechanisms of Loss of Consciousness**
Martin Irani[1], Andrea Sanchez[1], Santiago Arce[2], Victor Contreras[2], Jose Egaña[3], Ignacio Cortinez[2], Pablo Sepulveda[4], Ranganatha Sitaram[1]
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T727 **Confirming dissociation during hypnosis without tasks execution**
Pablo Vázquez[1], Clemens Bauer[2], Susan Whitfield-Gabrieli[2], Fernando Barrios[1]
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T728 **Neural correlates of the DMT experience**
Christopher Timmermann[1], Leor Roseman[1], David Erritzoe[1], Lisa Luan[1], Enzo Tagliazzuchi[2], Sharad Haridas[1], Jonathan Martell[1], Robert Leech[1], David Nutt[1], Robin Carhart-Harris[3]
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T729 A hypnotherapist in mind time travel during self-hypnosis. A rs-fMRI case study
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T730 Decoding how the Blind Brain Sees the Unseen: A study on Affective-Blindsight using MEG
Vanessa Hadid[1], Annalisa Pascarella[2], Tarek Lajnef[3], Sophie Andrée-Vinet[4], Dang K. Nguyen[5], Karim Jerbi[6], Franco Lepore[7]
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Perception and Attention Other

T731 Independent Modulators of Ongoing Neural Activity Predict Future Perceptual Performance
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T732 Problem-Focused Coping in Thermal Discomfort Stress is Associated with Individual Differences
Kelssy Kawata[1], Shohei Yamazaki[1], Kanan Hirano[1], Yumi Hamamoto[1], Hajime Oi[2], Akitake Kanno[1], Ryuta Kawashima[1], Motoaki Sugiura[1]
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T733 Interoceptive accuracy and its relation to exteroceptive processing in the insular cortex
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T734 Internal brain dynamics assessment by heart rate variability
Tara Chand[1], Zumrut Sen[2], hamidreza Jamalabadi[2], Meng Li[3], Sarah Alizadeh[2], Martin Walter[2]
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Perception: Auditory/ Vestibular

T735 The effects of masking therapy in tinnitus patients: longitudinally altered brain activity
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T736 Deviance detection is the dominant component of auditory contextual processing in the lateral STG
Yohei Ishishita[1,2], Naoto Kunii[1], Seijiro Shimada[1], Kenji Ibayashi[1], Mariko Tada[3], Kenji Kirihara[3], Kensuke Kawai[2], Takanori Uka[4], Kiyoto Kasai[3], Nobuhito Saito[1]
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T737 Human Area MST – a cortical visual motion, ocular motor, or vestibular module?
Theresa Raiser[1,2,3], Ria Rühl[1,2], Leoni Ophey[1,2], Matthias Ertl[2], Virginia Flanagin[2], Peter zu Eulenburg[1,2]
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T738 A comparative fMRI study of voice-selective regions in primates
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T739 Neural mechanisms of sensory mismatch in virtual reality environment
Jeong Hye Park[1], Han Jae Jeon[2], JyaeHyoung Yu[1], Sung Kwang Hong[1]
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T740 Changes of hemispheric specialization in schizophrenia patients with auditory verbal hallucinations
Pengfei Tang[1], Ling-Li Zeng[1], Limin Peng[1], Yiming Fan[1], Dewen Hu[1]
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T741 EEG theta band phase clustering corresponds to vestibular discrimination of body accelerations
Matthias Ertl[1], Manuel Klaus[1], Thomas Brandt[2], Fred Mast[1], Marianne Dieterich[3]
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T742 Cortical and subcortical contributions in the formation of auditory predictions
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T743 Tracking the dynamic functional network interactions during goal-directed auditory tasks with fMRI
Gaoyan Zhang[1]
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T744 Specific Functional Connectivity with OP3 related to Acoustic Trauma Tinnitus
Chantal Delon Martin[1], Anne Kavounoudias[2], Chloe Jaroszynski[3], Assia Jaillard[4], Agnes Job[5]
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T745 The amount of sensory attenuation is correlated with the power of beta modulation in motor area
Omid Abbasi[1], Joachim Gross[1]
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T746 The effect of prematurity on auditory cortical structure in the developing Human Connectome Project
Daniel Cromb[1], Tanya Poppe[1], Ralica Dimitrova[1], Jonathan O'Muircheartaigh[1], Lucilio Cordero-Grande[1], Anthony Price[1], Emer Hughes[1], Antonios Makropoulos[2], Andreas Schuh[2], Jo Hajnal[1], Stephen Smith[3], Daniel Rueckert[2], A David Edwards[1]
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T747 An fMRI Study on Patients with Tinnitus and Associated Sensorineural Hearing Loss
Hellen Della-Justina[1], Graziela Buffon[1], Franciane Vargas[2], Rafael Moraes[2], Arnolfo Carvalho Neto[3], Humberto Gamba[1]
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T748 Transient oscillatory entrainment mechanisms in auditory cortex
Emily Coffey[1], Isabelle Arseneau-Bruneau[2], Xiaochen Zhang[3], Sylvain Baillet[4], Robert Zatorre[5]
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T749 When temporal prediction errs: ERP responses to delayed action-feedback onset
Ana Pinheiro[1], Francisco Gutierrez[1], Michael Schwartze[2], Sonja Kotz[2]
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T750 Altered resting-state connectivity is associated with high-frequency sensorineural hearing loss
Tomasz Wolak[1], Agnieszka Pluta[2,1], Katarzyna Ciesla[3], Henryk Skarżyński[4]
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T751 Connectivity between auditory areas in musicians and non-musicians during formant-discrimination
Michael Boos[1], Stefan Elmer[1], Lutz Jäncke[1,2]
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T752 Speech-neural coherence reveals top-down reconstructive processes
Sankar Mukherjee[1], Alice Tomassini[1], Leonardo Badino[1], Aldo Pastore[1], Alessandro D'Ausilio[1]
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T753 Intracranial electrophysiology of human superior temporal sulcus
Kirill Nourski[1], Mitchell Steinschneider[2], Ariane Rhone[1], Hiroto Kawasaki[1], Matthew Howard[1]
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T754 Ain't no sound loud enough (ANSL) - addressing scanner noise in auditory fMRI experiments
Michael Ernst[1], Omer Faruk Gulban[2], Michael Notter[3], Peer Herholz[4]
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T755 Neural representations of authentic and social laughter predict discrimination performance in MEG
Anne-Lise Saive[1], Nicolas Déom[1], Gabrielle Toupin[1], Arthur Dehgan[1], Sinead Chen[2], Jens Kreitewolf[3], Sophie Scott[4], Karim Jerbi[1]
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T756 Spatial Processing in the Auditory Cortex: Optimized for Scene Analysis or Localization?
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T757 An EEG Biomarker for Sound Localization Capacities in Cochlear Implant Users
Giulia Righetti[1], Eusebia Schäfer[1], Ana-Elena Vedoveli[1], Anke Tropitzsch[1], Hans-Otto Karnath[1], Christoph Braun[1], Yiwen Li Hegner[1]
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Perception: Multisensory and Crossmodal

T758 Direct Structural Connection between Auditory-temporal and Visual-occipital motion selective regions
Ane Gurtubay[1], Ceren Battal[1], Chiara Maffei[2], Mohamed Rezk[1], Stefania Mattioni[1], Jorge Jovicich[3], Olivier Collignon[1]
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T759 Phase-locked and non-phase-locked corticomuscular coupling evoked by salient sensory events
Giacomo Novembre[1], Yifei Guo[2], Rory Bufacchi[1], Marina Kilintari[2], John Rothwell[2], Giandomenico Iannetti[1]
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T760 Attention influences how the brain integrates audiovisual signals into spatial representations
Ambra Ferrari[1], Uta Noppeney[1]
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T761 Stickiness perception in different sensory modalities: an fMRI study
Yosup So[1], Junsuk Kim[1]
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T762 Identifying human brain regions for haptic-visual congruency processing during stiffness judgments
Juan Liu[1], Akiko Callan[1], Atsushi Wada[1], Hiroshi Ando[1]
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T763 Neural correlates of multisensory recalibration
Hame Park[1,2,3], Christoph Kayser[1,2,3]
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T764* **How input modality and visual experience affect the neural encoding of categorical knowledge**
Stefania Mattioni[1,2], Mohamed Rezk[1], Karen Cuculiza Mendoza[2], Ceren Battal[1,2], Roberto Bottini[2], Markus van Ackeren[2], Nikolaas Oosterhof[2], Olivier Collignon[1,2]
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T765 **Is there alpha and beta attenuation in sensorimotor cortex during perception of graspable objects?**
Kerri Bailey[1], Saber Sami[1], Fraser Smith[1]
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T766 **Neurophysiological biomarkers of odor-color synesthesia – an ICA of resting-state fMRI data**
Helena Melero[1], Emilio Sanz-Morales[1], Mario Gil-Correa[1], Susana Borromeo[1], Norberto Malpica[1]
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T767 **Causal inference in the multisensory brain**
Yinan Cao[1], Christopher Summerfield[1], Hame Park[2], Bruno L. Giordano[3], Christoph Kayser[2]
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T768 **Decoding auditory space in hMT+/V5 and the planum temporale of the sighted and the blind individuals**
Ceren Battal[1,2], Mohamed Rezk[1,2], Stefania Mattioni[1,2], Valeria Occelli[2], Roberto Bottini[2], Giorgia Bertonati[2], Stefano Targher[3], Olivier Collignon[1,2]
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T769 **Combined Functional and Structural Mapping of Superior Temporal Sulcus**
John Pyles[1], Emily Grossman[2], Austin Marcus[1], Michael Tarr[1]
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Perception: Pain and Visceral

T770 **Support vector machine learning predicts subgroups of urological chronic pelvic pain patients**
Eric Ichesco[1], Scott Peltier[1], Jason Kutch[2,3], Jennifer Labus[3], Katherine Martucci[4], Daniel Clauw[1], Richard Harris[1]
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T771 **Are insular gamma-band oscillations related to the activation of the spinothalamic system?**
Giulia Liberati[1], Maxime Algoet[1], Emanuel van den Broeke[1], Susana Ferrao Santos[2], José Géraldo Ribeiro Vaz[2], Christian Raftopoulos[2], André Mouraux[1]
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T772 **Investigating reliability of pain-related BOLD signal using the intra-class correlation coefficient**
Jade Jackson[1], Owen O'daly[1], Elena Makovac[1], Sonia Medina[1], Alfonso de Lara Rubio[1], Stephen McMahon[1], Steven Williams[1], Matthew Howard[1]
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T773 **Impact of Neuropathic Pain on Brain Connectivity in Patients with Spinal Cord Injury**
Vincent Huynh[1], Robin Lütolf[2], Armin Curt[3], Spyros Kollias[4], Michèle Hubli[3], Lars Michels[4]
[1]University of Zürich / Balgrist University Hospital, Zürich, Switzerland, [2]ETH Zurich / Balgrist University Hospital, Zürich, Switzerland, [3]Balgrist University Hospital, Zürich, Switzerland, [4]University Hospital of Zürich, Zürich, Switzerland

T774 **Dynamic longitudinal cortical remodeling after peripheral radiosurgery for trigeminal neuralgia**
Peter Shih-Ping Hung[1,2], Alborz Noorani[1,2], Jia Y. Zhang[2], Mojgan Hodaie[1,2]
[1]University of Toronto, Toronto, Ontario, Canada, [2]Krembil Research Institute, Toronto, Ontario, Canada

T775 **Pre-treatment cortical thickness predicts long-term outcome to radiosurgery for trigeminal neuralgia**
Peter Shih-Ping Hung[1,2], Jia Y. Zhang[2], Alborz Noorani[1,2], Mojgan Hodaie[1,2]
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T776 **Disruption of Functional Brain Hubs During Resting and Evoked Pain States in Fibromyalgia**
Ishtiaq Mawla[1], Chelsea Kaplan[2], Tony Larkin[2], Eric Ichesco[1], Vitaly Napadow[3], Marco Loggia[4], Robert Edwards[5], Daniel Clauw[1], Richard Harris[1]
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T777 **Resting state functional connectivity can predict progression of chronic pelvic pain**
Sonja Fenske[1], Jason Kutch[1]
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T778 **High system segregation in resting fMRI predicts effects of top-down bias on pain perception**
Christopher O'Grady[1], Manyoel Lim[2], Amita Goyal[3], Mary Lynch[2], Steven Beyea[4], Javeria Hashmi[2]
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T779 **Blue light activates pulvinar nuclei in congenital idiopathic photophobia: A case report**
Athanasios Panorgias[1], Danielle Lee[2], Katie Silva[2], David Borsook[2], Eric Moulton[2]
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T780 **The Heartbeat-Evoked Potential as a Correlate of Cardiac Prediction Errors - a Model-Based EEG Study**
Birte Toussaint[1], Lilian Weber[1], Katharina Wellstein[1], Gina Paolini[1], Yu Yao[1], Klaas Stephan[1,2], Frederike Petzschner[1]
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T781 **Decoupling of resting-state networks following placebo analgesia is related to pain reduction**
Isabella Wagner[1], Markus Rütgen[1], Allan Hummer[2], Christian Windischberger[2], Claus Lamm[1]
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T782 The effect of painful laser stimuli on EEG gamma activity in migraine patients and healthy subjects
Iege Bassez[1], Eleonora Vecchio[2], Katia Ricci[2], Marianna Delussi[2], Daniele Marinazzo[1], Marina de Tommaso[2]
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T783 Effects of 8-week mindfulness training on BOLD fMRI response during an interoceptive attention task
Michael Datko[1,2], Jacqueline Lutz[2], Richa Gawande[2], My Ngoc To[2], Tenzin Desel[1], Vitaly Napadow[1,3], Jean King[4], Willoughby Britton[5], Eric Loucks[6], Zev Schuman-Olivier[2,3], Gaelle Desbordes[1,3]
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T784 Focus of attention modulates the heartbeat evoked potential
Frederike Petzschner[1], Lilian Aline Elizabeth Weber[2], Katharina Wellstein[3], Gina Paolini[4], Cao Tri Do[5], Klaas Stephan[2]
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T785 EEG Imaging and Neuromodulation of Pain in Head and Neck Cancer Patients Undergoing Radiotherapy
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T786 Hippocampal and trigeminal nerve volume predict outcome of surgery for trigeminal neuralgia
Hayden Danyluk[1,2], Esther Lee[1], Tejas Sankar[1,2]
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T787 Trigeminal neuralgia in MS: determining plaque distribution and radiosurgical response
Cathy Meng Fei Li[1], Peter Shih-Ping Hung[1], Powell Chu[2], Mojgan Hodaie[1]
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T788 Neurochemical changes associated with the short-term treatment outcome in chronic migraine
David Niddam[1], Kuan-Lin Lai[2], Shang-Yueh Tsai[3], Yi-Ru Lin[4], Jong-Ling Fuh[2], Shuu-Jiun Wang[2]
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T789 How pain and avoided pain drive learning: Two brain systems for pain-avoidance learning?
Marieke Jepma[1], Mathieu Roy[2], Albert Dahan[3]
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T790 Impact of Neuropathic Pain on Brain Structure in Patients with Spinal Cord Injury
Vincent Huynh[1], Robin Lütolf[2], Armin Curt[3], Spyros Kollias[4], Michèle Hubli[3], Lars Michels[4]
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T791 Understanding neural mechanisms of temporal dynamics of integrating predictions into pain perception
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T792 TN pain relief leads to a bilateral volumetric increase in hippocampal subfields
Alborz Noorani[1,2], Peter Shih-Ping Hung[1,2], Jia Y. Zhang[2], Mojgan Hodaie[1,2]
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T793 Brain metabolites relate to pain symptoms and etiology of chronic pancreatitis
Tine Hansen[1,2], Janusiya Muthulingam[1,2], Søren Schou Olesen[2,3], Asbjørn Drewes[2,3], Jens Frøkjær[1,2]
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T794 Individual pattern of pain-related cortical activity in patients with chronic migraine
Pauline Jahn[1], Anne Stankewitz[1], Viktor Witkovsky[2], Alina Shindy[1], Andreas Straube[1], Enrico Schulz[1]
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T795 Correlation of cold pain thresholds with the GMV in healthy subjects: a VBM study
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T796 Motor system corticospinal reorganization in complex regional pain syndrome type 1 – a case report
Marie-Philippe Harvey[1], Marylie Martel[1], Francis Houde[1], Samuel Maher-Bussières[2], Elysa Emery[2], Yannick Tousignant-Laflamme[2], Guillaume Leonard[1,2]
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T797 Community organization of brain networks and hub disruptions in chronic pain
Camille Fauchon[1], David Meunier[2], Kasey Hemington[1], Joshua Cheng[1], Rachael Bosma[1], Natalie Osborne[1,3], Anton Rogachov[1,3], Andrew Kim[1,3], Robert Inman[1,4], Karen Davis[1,3,5]
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T798 Brain mechanisms of social touch-induced analgesia
Marina Lopez-Sola[1], Stephan Geuter[2], Leonie Koban[3], James Coan[4], Tor Wager[5]
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T799 **Integrity of structural pathways of the brain predicts effects of top-down bias on pain perception**
Guillermo Aristi[1], Manyoel Lim[1], Amita Goyal[2], Chris Bowen[1,3], Steven Beyea[4,3], Mary Lynch[4,5], Javeria Hashmi[1]
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T800 **Words Hurt: Common and Distinct Neural Substrates Between Physical and Semantic Pain**
Eleonora Borelli[1,2], Fausta Lui[1,2], Francesca Benuzzi[1,2], Cristina Cacciari[1,2], Carlo Porro[1,2]
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T801 **Gender/Sex specific pharmacotherapy to block transition to chronic back pain**
Diane Reckziegel[1], Kenta Wakaizumi[1], Bogdan Petre[1], Lejian Huang[1], Pascal Tétreault[1], Mariam Ghantous[1], Rami Jabakhanji[1], Taha Abdullah[1], Alexis Baria[1], James Griffith[1], Marwan Baliki[1], Thomas Schnitzer[1], Apkar Apkarian[1]
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T802 **Brain representation of nociception is less complex than stimulus independent pain representation**
Bogdan Petre[1], Lauren Atlas[2], Stephan Geuter[3], Leoni Koban[4], Marina Lopez-Sola[5], Anjali Krishnan[6], Mathieu Roy[7], Choong-Wan Woo[8], Tor Wager[1]
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T803 **Decreased brain responses to pressure-induced abdominal discomfort in functional dyspepsia**
Jieun Kim[1], Seulgi Eun[2], Seok-Jae Ko[3], Jae-Woo Park[3], Kyungmo Park[4], Jun-Hwan Lee[1]
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T804 **Anti-inflammatory reduce interoceptive afferent entrainment of limbic reactivity in Crohn's Disease**
Marcus Gray[1], Nick Talley[2], Carolyn Mountford[3], Gerald Holtmann[4]
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T805 **Data Mining Reveals Discrete Neurobiological Systems That Contribute to Pain Processing**
Julio Yanes[1], Katherine Bottenhorn[2], Taylor Salo[3], Michael Riedel[3], Angela Laird[2], Jennifer Robinson[1]
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Perception: Tactile/Somatosensory

T806 **Power-Law Dynamics in Cortical Excitability as Probed by Early Somatosensory Evoked Potentials**
Tilman Stephani[1,2], Gunnar Waterstraat[3], Stefan Haufe[4], Gabriel Curio[3,5], Arno Villringer[1,6], Vadim Nikulin[1,7]
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T807 **Age-related differences in the neural correlates of social affective touch**
Federica Riva[1], Giorgia Silani[1], Helena Hartmann[1], Claus Lamm[1]
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T808 **The hierarchical updating of Bayesian belief underpinning tactile learning**
Bin Wang[1,2], Burkhard Pleger[1,2,3]
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T809 **Individual single digit fMRI maps in primary somatosensory cortex at 3T: a methods comparison**
Till Steinbach[1,2], Amanda Kaas[3], Jens Frahm[1], Renate Schweizer[1,2]
[1]Max Planck Institute for Biophysical Chemistry, Goettingen, Germany, [2]Leibniz ScienceCampus, Goettingen, Germany, [3]Dept. of Cognitive Neuroscience, Maastricht University, Maastricht, Netherlands

T810 **Population Receptive Field Mapping of Whole-Body Tactile Perception and Imagery**
Shir Hofstetter[1,2], Zohar Tal[1], Ran Geva[3], Wietske Zuiderbaan[2], Serge Dumoulin[2], Amir Amedi[1]
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T811 **Structural change in primary somatosensory cortex following acupuncture for chronic low back pain**
Hyungjun Kim[1], Ishtiaq Mawla[2], Jeungchan Lee[3], Kylie Isenburg[4], Jessica Gerber[5], Jieun Kim[6], Suk Tak Chan[4], Ortiz Ana[4], Wasan Ajay[7], Robert Edwards[8], Randy Gollub[9], Bruce Rosen[10], Vitaly Napadow[11]
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T812 **Distinction of self-produced touch and social touch in healthy participants and ADHD patients**
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T813 Tactile and motor representations of hands with 6 fully developed fingers
Michel Akselrod[1,2], Carsten Mehring[3], Luke Bashford[3], Mike Mace[4], Hansol Choi[3], Maximilian Blüher[3], Anna Buschhoff[3], Tobias Pistohl[3], Roy Salomon[5], Andre Cheah[6], Olaf Blanke[7], Etienne Burdet[4], Andrea Serino[1]
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T814 Probabilistic maps of the lower limb cortical representation in human brain: An fMRI study
Melissa Bass[1], Yira Ramirez-Garzon[1], Sarael Alcauter[2], Fernando Barrios[3], Erick Pasaye[4]
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T815 Sub-cortical activity encodes tactile hardness information during active object exploration
Jihyun Kim[1], Junsuk Kim[2], Jiwon Yeon[3], Jang-Yeon Park[4], Dongil Chung[1], Sung-Phil Kim[1]*
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T816 Characterizing the population receptive fields of the hand dorsum and palm
Raffaele Tucciarelli[1], Elisa Infanti[2], Luigi Tamè[1], Matthew Longo[1]
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T817 Somatosensory maps of intraoral surfaces in humans
Davide Bono[1], Patrick Haggard[1], Fred Dick[2]
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T818* The "Creatures" of the Human Cortical Somatosensory System
Noam Saadon-Grosman[1,2], Yonatan Loewenstein[1], Shahar Arzy[2]
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Perception: Visual

T819 Uncertainty Effect on Memory Encoding and Reactivation: An fMRI Study
Dong-Yu Yang[1,2], Darrell Worthy[1], Yei-Yu Yeh[2]
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T820 Visuomotor responses in the human cingulate sulcus visual area
Ria Maxine Ruehl[1], Leoni Ophey[1], Matthias Ertl[2], Peter zu Eulenburg[1]
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T821 A novel approach for the assessment of population receptive field mapping results
Allan Hummer[1], Markus Ritter[2], Michael Woletz[1], Maximilian Pawloff[2], Martin Tik[1], Ursula Schmidt-Erfurth[2], Christian Windischberger[1]
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T822 OCT results corroborate population receptive field maps in patients with retinal disease
Allan Hummer[1], Maximilian Pawloff[2], Michael Woletz[1], Markus Ritter[2], Graham Holder[3,4], Ursula Schmidt-Erfurth[2], Christian Windischberger[1]
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T823 Neural mechanism of refixation in free viewing: evidence from eye-movement related brain activity
Andrey Nikolaev[1], Radha Nila Meghanathan[1], Cees van Leeuwen[1]
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T824 Investigating face processing by combining temporal (EEG) and spatial (fMRI) decoding information
Ilkka Muukkonen[1], Kaisu Ölander[1], Jussi Numminen[2], Viljami Salmela[1,3]
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T825 Temporal contiguity training does not affect size tolerance for objects in lateral occipital cortex
Chayenne Van Meel[1], Hans Op de Beeck[1]
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T826 State anxiety influences P300 and P600 ERP over parietal regions in the hollow mask illusion
Vasileios Ioakeimidis[1], Nareg Khachatoorian[1], Corinna Haenschel[1], Thomas Papathomas[2,3], Attila Farkas[2], Marinos Kyriakopoulos[4,5], Danai Dima[1,6]
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T827 Corticothalamic Prediction and Attention via Control Systems Analysis
Tara Babaie-Janvier[1,2], Peter Robinson[1,2]
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T828 Tracking Aesthetic Engagement: Behavioral and Brain Responses to Artistic Landscape Videos
Ayse Ilkay Isik[1], Edward Vessel[1]
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T829 Isolating Perceptual and Conceptual Objects Representations Across Time -- an MEG study
Scott Fairhall[1], Giuliano Giari[2], Elisa Leonardelli[1], Yuan Tao[3], Mayara Machado[4]
[1]University of Trento, Trento, Italy, [2]Universität Tübingen, Tübingen, Germany, [3]John Hopkins, Baltimore, United States, [4]Max Planck Institute for Human Development, Berlin, Germany

T830 Suppressive occipito-parietal interactions for visual perceptual learning
Polytimi Frangou[1], Vasilis Karlaftis[1], Uzay Emir[2], Marta Correia[3], Caroline Nettekoven[4], Emily Hinson[4], Stephanie Larcombe[4], Holly Bridge[4], Charlotte Stagg[4], Zoe Kourtzi[1]
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T831 Gamma-Band Correlations in Primary Visual Cortex
Xiaochen Liu[1], Paula Sanz-Leon[2], Peter Robinson[1]
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T832 Neurovascular coupling varies depending on expectation levels in visual areas
Hanna Rooslien[1], Szonya Durant[1], Jonas Larsson[1]
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T833 Perceptual filling-in of the blind spot is not based on activation of monocular region in V1
Yulia Revina[1], Gerrit Maus[1]
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T834 Digit processing in typically developing kindergartners: Evidence from task-evoked connectivity
Benjamin Conrad[1], Gavin Price[1]
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T835 White Matter Plasticity of Visual Artists Revealed by Diffusion Spectrum Imaging
Tzu-Yi Hong[1,2], Hsin-Yen Yu[3], Ching-Ju Yang[4], Wei-Chi Li[1,2], Wen-Yih Isaac Tseng[5], Li-Fen Chen[1,2], Jen-Chuen Hsieh[1,6]
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T836 Representational complexity of perpetual information modulates DMN activity during decision making
Mohamed Seghier[1], Mohamed Fahim[1], Oury Monchi[2], Claudine Habak[1]
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T837 Task-dependent functional organizations of the visual ventral stream
Han-Gue Jo[1], Thilo Kellermann[1], Junji Ito[2], Sonja Grün[2], Ute Habel[1]
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T838 Decoding cortical responses to continuous visual stimuli
Michael Woletz[1], Allan Hummer[1], Martin Tik[1], Christian Windischberger[1]
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T839 (Des)inhibition, the side-effect of adaptation in bistable perception
Alexandre Sayal[1], Teresa Sousa[1], João Duarte[1], Gabriel Costa[1], Miguel Castelo-Branco[1,2,3,4]
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T840 Beyond Predictive Processing: fMRI pattern decoding reveals active inference in early visual cortex
Sebo Uithol[1], Katherine Bryant[2], Ivan Toni[3], Rogier Mars[4]
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T841 Who is who? Supramodal processing of familiarity
Ana Maria Castro Laguardia[1], Jaime Vila[2], María Antonieta Bobes[1]
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T842 Ultra-high field fMRI reveals cortical depth specificity for adaptation in the human visual cortex
Elisa Zamboni[1], Valentin Kemper[2], Nuno Goncalves[1], Ke Jia[1], Rainer Goebel[2], Zoe Kourtzi[1]
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T843 Object-Based Visual Search in Cerebral Visual Impairment Using a Virtual Reality and EEG Paradigm
Christopher Bennett[1], Emma Bailin[1], Corinna Bauer[1], Laura Dubreuil Vall[2], Peter Bex[3], Lotfi Merabet[1]
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T844 Triple hemifield input to the visual cortex in a patient with chiasmal hypoplasia
Khazar Ahmadi[1], Alessio Fracasso[2], Robert Puźniak[1], Andre Gouws[3], Renat Yakupov[4], Oliver Speck[5], Joern Kaufmann[6], Franco Pestilli[7], Serge Dumoulin[8], Antony Morland[3], Michael Hoffmann[1]
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T845 How the human brain represents the strength of prior expectations
Helen Blank[1], Christian Büchel[1]
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T846 Ground activation in object perception: Evidence for inhibitory competition and predictive coding
Laura Cacciamani[1], Rachel Skocypec[2], Colin Flowers[2], Diana Perez[2], Mary Peterson[2]
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T847 The dynamics of spontaneous brain activity underlie internally-generated perception in the blind
Avital Hahamy[1,2], Marlene Behrmann[3], Rafael Malach[4]
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T848 Behavioral and functional connectivity analysis of Kanizsa illusory contour perception
Rio Sugino[1], Satoru Hiwa[1], Keisuke Hachisuka[2], Fumihiko Murase[2], Tomoyuki Hiroyasu[1]
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T849 Response to short-term deprivation of the human adult visual cortex measured with 7T BOLD
Paola Binda[1], Jan Kurzawski[2], Claudia Lunghi[3], Laura Biagi[4], Michela Tosetti[5], Maria Concetta Morrone[6]
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T850 Pattern Similarity in Neural Representations for the Inversion Effect of Face and Chinese Character
Chun-Hui Li[1], Bo-Cheng Kuo[1]
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T851 Retinotopic Organization in the Human Cerebellum
Tomas Knapen[1], Daniel van Es[2], Wietske van der Zwaag[3]
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T852 (Un)crowding modulates recurrent connectivity in the visual cortex
Maya Jastrzebowska[1], Vitaly Chicherov[1], Bogdan Draganski[2], Michael Herzog[1]
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T853 Spontaneous resting-state patterns reflect naturalistic activations in higher-order visual areas
Francesca Strappini[1], Meytal Wilf[1], Ofer Karp[1], Hagar Goldberg[1], Michal Harel[2], Edna Haran-Furnan[2], Tal Golan[3], Rafael Malach[2]
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T854 EEG as an implicit measure for perceptual discrimination, categorization, and generalization
Jaana Van Overwalle[1,2], Sander Van de Cruys[1,2], Bart Boets[3,2], Johan Wagemans[1,2]
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T855 Awake Macaque Imaging on 7T Human Scanner Platform
Meizhen Qian[1], Jiaming Hu[1], Pinyi Wang[1], Yang Gao[1], Xiaotong Zhang[1], Anna Roe[1]
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T856 Extending pRF models from fMRI to MEG: A stimulus-referred forward model to predict MEG measurements
Akhil Edadan[1,2], Eline Kupers[3], Noah Benson[3], Wietske Zuiderbaan[2], Serge O. Dumoulin[2,4,1], Jonathan Winawer[3,5]
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T857 Spatial asymmetries in free visual exploration and line bisection tasks–correlation and time-course
Kathrin Chiffi[1,2], Lorenzo Diana[1,2], Matthias Hartmann[1,3,4], Giuseppe Zito[2,5], René Müri[1,2,6], Aleksandra Eberhard-Moscicka[1,2]
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T858 The Selectivity of Facial Motion in Human Visual Cortex
Hui Zhang[1,2], Zixiang Wei[1], Xueping Wang[1], Yunhong Wang[1]
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T859 Enhanced access to human anterior temporal face patch by using dynamic shimming and AC/DC coils
Shahin Nasr[1,2], Nick Arango[3], Jacob White[3], Lawrence Wald[2,1], Jason Stockmann[1,2]
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T860 Predictive Coding of Occluded Motion with fMRI in Humans
Sanne Schoenmakers[1], Johannes Franz[1], Alard Roebreock[1]
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T861 Representation of Information in right Fusiform Gyrus for Perceptual Decision
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T862 Selectivity for individual body parts within body selective visual cortex
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T863 The neural processing of multiple interacting versus non-interacting bodies
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T864 Individual differences in category representation in ventral visual cortex of the congenitally blind
Job van den Hurk[1], Mona Rosenke[2], Hans Op de Beeck[3], Kalanit Grill-Spector[4], Kevin Weiner[5]
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T865 Multimodal Functional Connectivity Mapping of Brain Regions Involved in Skilled Visual Perception
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T866 Neural correlates of multiple-items social scene perception : An EEG study
Parvaneh Adibpour[1], Nicolas Goupil[1], Mitra Taghizadeh Sarabi[1], Jean-Remy Hochmann[1], Liuba Papeo[1]
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T867 Localization of temporal monocular crescent in human primary visual
Shahin Nasr[1,2], Cristen LaPierre[2], Christopher Vaughn[2], Jason Stockmann[1,2], Jonathan Polimeni[2,1]
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T868 Micro-probing the visual cortex: high-resolution mapping of neuronal subpopulations
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T869 Adaptive network connectivity in the human brain
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T870 Cortical mechanisms of the persistence of visual alpha entrainment
Mónica Otero[1,2], Pavel Prado[1,2], Alejandro Weinstein[3,4], María-José Escobar[1,2], Wael El-Deredy[3,4]
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T871 Deep Neural Network modeling of human face selective columns
Shany Grossman[1], Guy Gaziv[1], Erin Yeagle[2], Michal Harel[1], Pierre Mégevand[2], David Groppe[2], Simon Khuvis[2], Jose L Herrero[2], Michal Irani[1], Ashesh Mehta[2], Rafael Malach[1]
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T872 Aligning subject population responses by reconstructing activity patterns in sensory space
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T873 Altered Neural Network Dynamics During the Visual Processing in Early Deaf Individuals
Evgenia Bednaya[1], Francesco Pavani[2], Emiliano Ricciardi[1], Pietro Pietrini[1], Davide Bottari[1]
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T874 Changes in pRFs during perceptual filling-in of an artificial scotoma in humans
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T875* The temporal dynamics of neuronal responses in human visual cortex
Iris Groen[1], Jingyang Zhou[1], Gio Piantoni[2], Dora Hermes[2], Adeen Flinker[3], Orrin Devinsky[3], Werner Doyle[3], Nick Ramsey[2], Natalia Petridou[2], Jonathan Winawer[1]
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T876 Curvature coding in the human ventral stream
Paolo Papale[1], Andrea Leo[1], Giacomo Handjaras[1], Luca Cecchetti[1], Pietro Pietrini[1], Emiliano Ricciardi[1]
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T877 Heritability of Visual Category-Selectivity
Jiahui Guo[1], Bradley Duchaine[1]
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T878 Similarities between Visual Object Representations in Lateral Occipital Complex
Kayla Ferko[1,2], Anna Blumenthal[3], Daria Proklova[1,2], Chris Martin[3], Ali Khan[4,5], Stefan Köhler[6,2]
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T879 Anticipating movement through a virtual environment from activity in V2
Angus Paton[1], Yulia Lazarova[1], Lucy Petro[1], Lars Muckli[1]
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T880 Representation of Perceptual Organization in Early Visual Cortex
Hao Wu[1], Badong Chen[1], Zhentao Zuo[2], Tiangang Zhou[2], Yan Zhuo[2], Yihong Gong[1], Zejian Yuan[1], Nanning Zheng[1]
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T881 Development and evolution of sulcal morphology in place-selective regions of ventral temporal cortex
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Sleep and Wakefulness

T882* Selective enhancement of visual perceptual learning by tactile sensation during sleep
Yoshiyuki Onuki[1,2], Oti Lakbila-Kamal[2], Bo Scheffer[2], Eus Van Someren[2,3,4], Ysbrand Van der Werf[5]
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T883 Circadian phenotype impacts default mode functional connectivity, attention and sleepiness
Elise Facer-Childs[1], Brunno Campos[2], Benita Middleton[3], Debra Skene[3], Andrew Bagshaw[1]
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T884 Functional connectivity of the motor network varies with circadian phenotype
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T885 Altered Brain Architectures Determined by Dynamic Functional Connectivity after Sleep Deprivation
Changhong Li[1], Judith Fronczek-Poncelet[1], Denise Lange[2], Eva Hennecke[2], Tina Kroll[1], Andreas Matusch[1], Daniel Aeschbach[2,3], Andreas Bauer[1,4], Eva-Maria Elmenhorst[2], David Elmenhorst[1,5]
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T886* PyActigraphy, a comprehensive toolbox for actigraphy data analysis
Grégory Hammad[1], Mathilde Reyt[1], Michele Deantoni[1], Christophe Phillips[1], Christina Schmidt[1,2], Vincenzo Muto[1]
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T887 The Functional Connectivity of Attention and Consciousness-Related Network during Human NREM Sleep
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T888 EEG microstates correlate with fMRI during deep sleep

Jing Xu[1], Shuqin Zhou[2], Guangyuan Zou[2], Jiayi Liu[2], Zihui Su[3], Qihong Zou[2], Jia-Hong Gao[2]
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T889 Association between sleep-wake regulation and brain morphology in young and older adults

Michele Deantoni[1], Grégory Hammad[2], Micheline Maire[3], Mohamed Ali Bahri[2], Christian Berthomier[4], Christian Cajochen[3], Christina Schmidt[2]
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T890 Impact of Sleep Restriction and Simulated Microgravity on Speech Perception: An ERP Study

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T891 Oscillatory networks of REM sleep: a whole-brain characterization using MEG

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T892 Poor but Different: Distinct Profiles of Sleep, Behavior and RSFC in Healthy Sleepers

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T893 Dynamic Engagement of Cingulo-Opercular Network in Vigilance Task along the Process of Sleep Inertia

Shuo Chen[1], Chia-Wei Li[2], Yi-Chia Kung[3], Ming-Kang Li[4], Fan-Chi Hsiao[5], Shang-Cheng Chiu[5], Chi-Yung Liu[4], Chia-Yuen Chen[6], Chun-Chuan Chen[7], Changwei Wu[4]
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T894 Connectivity Instability during NREM Sleep Reflects Altered Properties of Information Integration

Yi-Chia Kung[1], Chia-Wei Li[2], Shuo Chen[3], Chia-Ju Sharon Chen[4], Chun-Yi Zac Lo[5], Bharat Biswal[6], Changwei Wu[7], Ching-Po Lin[8]
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T895 Inter-individual variability in N2 sleep is associated with cortical morphology

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T896 Daily Caffeine Consumption Reduces Human Grey Matter in Hippocampus Independent of Sleep Pressure

Yu-Shiuan Lin[1,2,3], Janine Weibel[4,2], Hans-Peter Landolt[5,6], Francesco Santini[7,8], Corrado Garbazza[1,2], Martin Meyer[1,2], Helen Slawik[1,2], Stefan Borgwardt[9], Christian Cajochen[10,2], Carolin Reichert[11,2]
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T897 Optimizing prediction models of sleep as confound for large scale resting state fMRI studies

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T898 Relationships between changes in sleep quality and white matter microstructure across adult life

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DISORDERS OF THE NERVOUS SYSTEM

Addictions

W001 A dual-process exploration of binge drinking: behavioral and electrophysiological evidence
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W002 Resting-state EEG delta predicts neurofeedback treatment long-term response in nicotine addiction
Jed Bu[1], Ru Ma[1], Yongjun Zhang[1], Yan Cheng[1], Shinan Sun[2], Xiaochu Zhang[1]
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W003 Gray matter volume abnormalities in compulsive sexual behavior, gambling and alcohol use disorder
Małgorzata Draps[1], Guillaume Sescousse[2], Artur Marchewka[3], Jacek Mateuszewski[3], Agnieszka Duda[4], Michał Lew-Starowicz[5], Maciej Kopera[6], Andrzej Jakubczyk[6], Marcin Wojnar[6], Mateusz Gola[1]
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W004 Predicting Adolescent Cannabis Use vs. Binge Drinking Using Random Forests
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W005 The difference of brain structural changes induced by heroin and methamphetamine
Yunxia Shen[1], Mingwu Lou[2], Wenbin Liang[2], Xinjun Sun[3], Lin Lu[2], Yanyi Chen[2]
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W006 Cortical surface morphology in long-term cannabis users: A multi-site MRI study
Yann Chye[1], Chao Suo[2], Valentina Lorenzetti[3], Albert Batalla[4], Janna Cousijn[5], Anna Goudriaan[5], Rocio Martin-Santos[6], Sarah Whittle[7], Nadia Solowij[8], Murat Yücel[2]
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W007 Identifying Smokers At Higher Risk For Relapse: A Neuroimaging-based Classification Algorithm
David Frank[1], Paul Cinciripini[1], Menton Deweese[2], Maher Karam-Hage[1], George Kypriotakis[1], Jason Robinson[1], Rachel Tyndale[3], Damon Vidrine[4], Francesco Versace[1]
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W008 Convergent evidence from alcohol-dependent humans and rats of progressive white matter alterations
Silvia De Santis[1], Patrick Bach[2], Laura Pérez-Cervera[1], Alejandro Cosa-Linan[2], Georg Weil[2], Sabine Vollstädt-Klein[2], Derik Hermann[2], Falk Kiefer[2], Peter Kirsch[3], Roberto Ciccocioppo[4], Wolfgang Sommer[2], Santiago Canals[1]
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W009 Sexual trauma is associated with orbitofrontal network strength in women with stimulant dependence
Tasha Poppa[1], Vita Droutman[1], Inna Arnaudova[2], Hortensia Amaro[3], David Black[1], John Monterosso[1]
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W010 Anterior and Posterior Cerebral WM Show Different Patterns of Alterations in Young Adult Smokers
Fuchun Lin[1], Xu Han[2], Yao Wang[2], Weina Ding[2], Yawen Sun[2], Yan Zhou[2], Hao Lei[1]
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W011 Altered frontostriatal connectivity related to depression in excessive internet use
Ji-Won Chun[1], Jihye Choi[2], Min Kyung Hu[2], Jin-Young Kim[2], Hyun Cho[3], Dong Jin Jung[2], Jung-Seok Choi[2], Dai-Jin Kim[2]
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W012 Pavlovian-to-instrumental transfer is associated with hazardous alcohol use in young adults
Hao Chen[1], Stephan Nebe[2], Sören Kuitunen-Paul[1], Maria Garbusow[3], Daniel Schad[4], Michael Rapp[4], Quentin Huys[5], Andreas Heinz[3], Michael Smolka[1]
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W013 Disentangling cue-induced wanting and liking in smokers with parametric fMRI
Amelie Haugg[1], Andrei Manoliu[2], Ronald Sladky[3], Lea Hulka[2], Matthias Kirschner[1], Annette Bruehl[1], Erich Seifritz[2], Boris Quednow[2], Marcus Herdener[2], Frank Scharnowski[3]
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W014 Altered Periaqueduct Gray Connectivity with Default Mode Network in Alcohol Use Disorder
Reza Momenan[1], David George[1]
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W015 Striatal hyper-activation underlies adolescent vulnerability to substance use: an fMRI meta-analysis
Brenden Tervo-Clemmens[1], Alina Quach[2], Finnegan Calabro[1], Beatriz Luna[1]
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W016 Sex Differences in the Neural Substrates of Cigarette Craving, Withdrawal, and Relief
Maylen Perez Diaz[1], Dara Ghahremani[1], Paul Faulkner[1], Joseph O'Neill[1], Jeffrey Alger[2], Edythe London[1]
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W017 Decreased connectivity in the default mode network in heavy drinkers after acute alcohol exposure
Xiaojing Fang[1], Yacila Deza Araujo[2], Johannes Petzold[2], Philipp Riedel[2,3], Maik Spreer[2], Michael Marxen[2], Ulrich Zimmermann[2], Michael Smolka[4]
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W018 Focused reductions in dynamic functional connectivity precipitated by nicotine abstinence in smokers
John Fedota[1], Thomas Ross[1], Tianwen Chen[2], Allison Matous[1], Michael McKenna[1], Juan Castillo[1], Betty Jo Salmeron[1], Vinod Menon[2], Elliot Stein[1]
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W019* Brain Mediates Association between Methylation and AUDIT Score: A Longitudinal Study
Jiayu Chen[1], Shile Qi[1], Zening Fu[2], Dongdong Lin[3], Jing Sui[4], Yuhui Du[5], Gunter Schumann[6], Vince Calhoun[3], Jingyu Liu[1]
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W020 Increased Functional Connectivity between DMN and FPN in Adolescents with Familial History of SUD
Xiaofu He[1,2], Diana Rodriguez Moreno[2], Tong Li[1,3], Huilan Tang[2], Yael Cycowicz[1,2], Zhishun Wang[1,2], Lawrence Amsel[1,2], George Musa[1,2,4], Keely Cheslack-Postava[1,2], Adam Bisaga[1,2], Lupo Geronazzo-Alman[1], Michaeline Bresnahan[4], Christina Hoven[1,2,4]
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W021 Alteration in fronto-limbic connectivity in adolescents with excessive smartphone use
Arom Pyeon[1,2], Ji-Won Chun[1], Jihye Choi[1], Jin-Young Kim[1,2], Min Kyung Hu[1,2], Hyun Cho[1], Dai-Jin Kim[1,2]
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W022 Reduced resting state functional connectivity of thalamus and sleep impairment in alcohol dependence
Jingjing Liu[1], Dahua Yu[2], Kai Yuan[1]
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W023 The structural properties of major white matter tracts in young smokers
Wanye Cai[1], Dahua Yu[2], Kai Yuan[1]
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W024 Classifying and characterizing nicotine use disorder using machine learning and white matter tracts
Meng Zhao[1], Dahua Yu[2], Kai Yuan[1]
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W025 Functional MRI studies of delayed memory task in problematic smartphone use of adolescence
Jinyoung Kim[1], Ji-Won Chun[2], min kyung hu[3], Dai-Jin Kim[4]
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W026 Identification of imaging biomarkers in Internet Gaming Disorder using random forest classifier
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W027 Altered frontoparietal activation underlying the selective attention in problematic smartphone users
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W028 Over-learning of prediction errors in early relapsers with cocaine addiction
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W029 Disparity of Functional Connectome in Methamphetamine Dependence with and without Psychosis Symptoms
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W030 Enhanced reward seeking in Internet gaming disorder: Evidence form fMRI study
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W031 Structural and functional bases of executive and decision-making deficits in alcohol use disorder
Caterina Galandra[1], Chiara Crespi[2], Gianpaolo Basso[3], Marina Manera[1], Ines Giorgi[4], Giovanni Vittadini[4], Mauro Frascaroli[4], Paolo Poggi[5], nicola canessa[6]
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W032 Sex-dependent role of dopamine receptor D2 during adolescent development
Rachel Schroeder[1], Marissa Laws[2], Shady El Damaty[2], Veronica Mucciarone[3], Benson Stevens[4], Valery Darcey[2], Emma Rose[5], Diana Fishbein[5], John VanMeter[3]
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W033 Longitudinal Changes in Dorsal Attention Network in Patients With Gaming Disorder
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W034 Methamphetamine-associated Psychosis is Associated with Decreased Frontal Perfusion
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W035 Prenatal exposure to maternal cigarette smoking and structure of the human corpus callosum
Lassi Björnholm[1], Juha Nikkinen[2], Vesa Kiviniemi[3], Solja Niemelä[4], Mark Drakesmith[5], John Evans[5], G. Bruce Pike[6], Louis Richer[7], Zdenka Pausova[8], Juha Veijola[1], Tomáš Paus[9]
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W036 Neural Subcomponents of Response Inhibition in ADHD and Alcohol Use Disorder
Sarah Gerhardt[1], Mathias Luderer[2], Rahila Nuriyeva[1], Georg Meyer zu Schwabedissen[1,3], Johanna Seidt[4], Oliver Hennig[4], Barbara Alm[4], Derik Hermann[1], Wolfgang Sommer[1,5], Falk Kiefer[1], Esther Sobanski[6,4], Sabine Vollstaedt-Klein[1]
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W037 Nicotine alters intra-and inter-regional resting-state fMRI of the vmPFC and hippocampus
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W038 Altered ventromedial prefrontal cortex response underlying co-occurring alcoholism and early trauma
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W039 Probabilistic delayed discounting activation related to craving and relapse in alcohol-use disorder
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W040 Alcohol and Methamphetamine Use Disorders: Random Forest Classifier Reveals Cerebral Correlates
William Hoffman[1,2], Alex Hickok[1], Holly McCready[2,1], Laura Dennis[2,1], Milky Kohno[2]
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W041 High field diffusion MRI assessment of white matter fractional anisotropy in cocaine use disorder
Sarah King[1], Anna Zilverstand[1], Rafael O'Halloran[1], Nelly Alia-Klein[1], Rita Goldstein[2]
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W042 Effects of excessive substance use on inhibitory control in patients with ADHD
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W043 Effects of cannabis use disorder on cognition, brain structure, and function
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W044 Multisource fMRI Neurofeedback Training for Downregulation of Food and Alcohol Craving
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W045 Substance Dependence Associated with Accelerated Age-Related Decline in Cortical Thickness
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W046 Striatal dopamine D2-type receptor availability in stimulant users: associations with impulsivity
Megan McClintick[1,2], Larissa Mooney[1,2], Mark Mandelkern[2,3], Roger Donovick[2], Kaitlin Kinney[1], Megan Fry[1], Elizabeth Rizor[1], Nathaniel Ginder[1,2], Judah Farahi[2], Edythe London[1,4,5,2]
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W047 Cue-reactivity to odor and visual cannabis stimuli

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W048 Psychophysiological and Speech Correlates of Incubation of Cue-induced Cocaine Craving

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Alzheimer's Disease and Other Dementias

W049 Structural correlation networks of hippocampal subfields: hubs changes in Alzheimer's disease

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W050 The orientational distortion changes of white matter in Alzheimer's disease

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W051 Illuminating Alzheimer's disease through functional, structural and metabolic neuroimaging

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W052* Predicting novel definitions of neurodegenerative disease from CSF protein levels and genotype

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W053 Dynamic Brain Functional Connectivity in presymptomatic Frontotemporal Dementia: a GENFI study

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W054 Electroencephalographic (EEG) Network Measures in Primary Progressive Aphasia and Apraxia of Speech

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W055 Association between fMRI connectomes and plasma biomarkers in subjective memory complainers

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W056 Detection of Alzheimer's disease using paragraph vectors of spoken samples

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W057 Salience network atrophy links neuron-type specific degeneration to loss of empathy in FTD

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W058 Does obesity cause neuroglia early changes? A causal insight into Alzheimer's Disease risk factors

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W059* Comparison between Alzheimer's & Lewy body disease-related atrophy patterns across the disease span

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W060 Multi-modal Factor Exploration of Atrophy, Cognitive and Tau Heterogeneity in Alzheimer's Disease

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W061 Effect of Age and APOE on Hippocampal Subfields in Cognitively Normal Subjects (N=1168, single site)

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W062 Structural Covariance Networks among Normal, High Risk, and Cognitively Impaired Older Individuals

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W063 Parietal cortex contributions to episodic memory dysfunction in neurodegenerative syndromes

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W064 Distinct tract covariance changes in single-domain and multiple-domain mild cognitive impairment

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W065 Looking beyond atrophy: cortical mean diffusivity in Alzheimer's disease

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W066 The Influence of Amyloid-β Deposition on Mild Cognitive Impairment Patients' Brain Structure

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W067 Neuronal hyperactivity for disorientation in early stages of Alzheimer's disease

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W068 Individualized Structural Connectome for Diagnostic & Prognostic Prediction for Alzheimer's Disease

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W069 Cerebellar white matter changes are linked to cognitive dysfunction in frontotemporal dementias
Yu Chen[1,2,3], Ramon Landin-Romero[1,2,3], Fiona Kumfor[1,2,3], Muireann Irish[1,2,3], John R. Hodges[1,3,4], Olivier Piguet[1,2,3]
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W070 [18F]-THK5351 PET Imaging in Primary Progressive Aphasia
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W071 Polymorphism in MAGI2 gene modifies the effect of amyloid β on neurodegeneration
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W072 EEG Phase Synchrony Characteristics of Alzheimer's Disease
Eunpyo Kim[1], Sehyeon Jang[1], Jeonghwan Gwak[2], Kyu Yeong Choi[3], Byeong Kim[4], Jong-In Song[1], Kun Ho Lee[1], Sung Chan Jun[1]
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W073 Amyloid and cerebrovascular burden divergently impact brain functional network changes over time
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W074 Multimodal neuroimaging assessment of individualised disease trajectories in dementia
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W075 Alzheimer's disease and small vessel disease have distinct effects on the white matter network
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W076 Distance Disintegration Delineates the Brain Connectivity Failure of Alzheimer's Disease
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W077 Bilingualism and Mild Cognitive Impairment: a DTI-TBSS study on the fornix
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W078 Behavioural symptoms of dementia and functional connectivity changes. A network-based study
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W079 Predicting conversion to Alzheimer's with MRI Asymmetry Indices of Hippocampus subfields
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W080 Changes in gray matter volume after bilateral salpingo-oophorectomy prior to natural menopause
Suzanne Witt[1,2], Maria Engström[2], Åsa Rydmark Kersley[3], Elisabet Classon[2], Nina Lykke[2], Margrit Shildrick[2], Cecilia Åsberg[2], Cheryl Grady[4], Elvar Theodorsson[2], Jan Ernerudh[2,3], Elisabeth Åvall Lundqvist[2], Preben Kjølhede[2,3], Gillian Einstein[5]
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W081 Longitudinal changes in microstructure and functional connectivity in a rat model of Alzheimer
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W082* Functional connectivity associated with tau levels in aging, Alzheimer's, and small-vessel disease
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W083 EEG Theta Oscillations in MCI/Alzheimer's:Can EEG Inform Us about Cognitive Symptoms?A Meta-Analysis
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W084 Parcellation of the anterior temporal lobes in semantic variant PPA caused by TDP-43-C pathology
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W085 Fiber-Specific White Matter Morphometry in MCI Following a 6-Month Exercise Intervention
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W086 Sleep-disordered Breathing and Alzheimer's disease; A Voxel-based Morphometry and BrainAGE study

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W087 Longitudinal Changes of Volumes and Complexity of Subcortical Regions in Five Cognitive Subgroups

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W088 Classification of Alzheimer's disease, Mild Cognitive Impairment and healthy adults with EEG and MRI

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W089* A BIN1 genetic risk variant is associated with higher tau and worse memory independent of amyloid

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W090 MRI-based frontotemporal dementia probability scores: a longitudinal presymptomatic biomarker study

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W091 Functional connectivity alterations in the noradrenergic system in late-life major depression

Inés Del Cerro[1,2,3], Virginia Soria[2,3,4], Ignacio Martínez-Zalacaín[1,2,3], Andrés Guinea-Izquierdo[1,2,3], Jordi Gascón-Bayarri[5], Mikel Urretavizcaya[2,3,4], Carlos Aguilera[6], Ramón Reñé[5], José Manuel Menchón[3,4,2], Carles Soriano-Mas[2,4,7]
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W092 White matter tract integrity and functional connectivity disruption in mild cognitive impairment

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W093 A data-driven staging of in-vivo tau deposition is consistent with Braak's post-mortem staging

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W094 Multimodal PET/MRI Study of Connectivity in Cognitively Impaired Patients with Parkinsons dDiseas

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W095 Symptom-onset prediction in genetic frontotemporal dementia with multimodal MRI-based classification

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W096 Abnormal Dynamic Functional Connectivity in Alzheimer's Disease

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W097 High Tau-PET in absence of beta-amyloid deposition is associated with FDG-PET hyper-metabolism

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W098 Disentangling Alzheimer's disease and cognitive frailty: A paired associates oddball task in MEG

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W099 Left frontal connectivity attenuates the negative effect of tau pathology on memory performance

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W100 Neuropathological correlates of MRI imaging biomarkers in primary tauopathies

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W101 How Alzheimer Disease affects brain networks during memory encoding?
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W102 Functional signature of conversion in patients with Mild Cognitive Impairment
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W103 Decreased Default Mode Network Connectivity in Patients with Postoperative Cognitive Dysfunction
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W104 Predicting memory impairment using resting-state brain connectomes in older adults
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W105 Tract-specific white matter change associated with multiple cognitive domains in Alzheimer's disease
Remika Mito[1,2], Jo Robertson[1], Leonid Churilov[1,2], Thijs Dhollander[1,2], David Raffelt[1], Christopher Rowe[1,3,4], Amy Brodtmann[1,2,5], Victor Villemagne[1,6,4], Alan Connelly[1,2]
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W106 Topological changes in temporal lobes in Mild Cognitive Impairment: a magnetoencephalography study
Pierpaolo Sorrentino[1], Anna Lardone[2], Rosaria Rucco[3], Francesca Jacini[4], Fabio Baselice[2], Emahnuel Troisi Lopez[2], Marco Aiello[5], Carlo Cavaliere[6], Valentino Manzo[7], Anna Carotenuto[7], Alessandro Iavarone[8], Carmine Granata[9], Giuseppe Riva[10], Arjan Hillebrand[11], Giuseppe Sorrentino[2]
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W107 Sulcal morphometry as a predictor of conversion from MCI to AD in ADNI
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W108 Transcriptional Pattern behind Functional Connectivity Change of BNM in Different Dementia States
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W109 Targeting hippocampal hyperactivity with real-time fMRI neurofeedback in mild cognitive impairment
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W110 Amygdala volumes correlate with non-emotional memory retrieval in older women but not men
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W111 Impact of the APOE-ε4 risk variant for AD on the functional architecture of the resting brain
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W112 Dysfunctional brain dynamics and their origin in Lewy body dementia
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W113 Predicting future cognitive decline of memory clinic patients using multimodal MRI
Frank de Vos[1,2,3], Tijn Schouten[1,4,3], Mark Bouts[1,2,3], Rogier Feis[5,3], Mark de Rooij[1,3], Jeroen van der Grond[5], Serge Rombouts[1,2,3]
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W114 Network Diffusion Model Predicts the Progression of Brain Atrophy in Alzheimer's Disease
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W115 Characterization of a « Temporoparietal Junction » Subtype of Alzheimer's Disease

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W116 Alzheimer's disease subtypes, a longitudinal perspective

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W117 Grey Matter Age Prediction as a Biomarker for Risk of Dementia: A Population-based Study

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W118 The cortical neuroanatomy in relation to specific neuropsychological deficits in AD spectrum

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W119 A Multiomics Approach to Heterogeneity in Alzheimer's Disease: Focused Review and Roadmap

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W120 Local metabolism impairments modify topological FC in Alzheimer disease: A PET/MR study

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W121 RsEEG functional cortical source connectivity in patients with MCI due to Alzheimer's and Lewy body

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W122 Is atrophy in DMN regions related to abnormalities of resting state cortical sources in ADD?

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W123 Metabolic validation of the TgF344-AD rat model of Alzheimer's disease: a longitudinal study

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W124 Functional Brain Connectome Associated with Atrophy and Hypometabolism in Posterior Cortical Atrophy

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W125 A Multi-modal Deep Learning Framework for the Prediction of Neurodegeneration
Simeon Spasov[1], Luca Passamonti[2], Andrea Duggento[3], Pietro Lio[4], Nicola Toschi[5]
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W126 Connectivity and Cognition in African Americans and Caucasians with Dementia
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W127 Spatio-temporal protein dynamics across brain networks: application to Alzheimer's disease
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W128 Baseline Amyloid (18F-AV-45 PET) Distributions by Consensus Diagnosis from the ADDS Consortium
David Keator[1], Julie Price[2], William Kreisl[3], Michael Yassa[1], Michael Phelan[1], Eric Doran[1], Christy Hom[1], Dana Nguyen[1], Florence Lai[2], Margaret Pulsiver[2], Diana Rosas[2], Sharon Krinski-McHale[4], Nicole Schrupf[3], Wayne Silverman[1], Ira Lott[1]
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W129 GABA and Glx levels in patients with early-stage AD and CBS: Initial results from the ActiGliA study
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W130 Cardiorespiratory Fitness is Associated with Hippocampal Cognitive Reserve in Amnestic MCI
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W131 Impaired fMRI response in sub-hippocampal structures: how prior knowledge impairs memory in AD
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W132 Machine Learning Based Automated Staging of 18F-Florbetaben PET images Background
Jun Pyo Kim[1], Jeonghun Kim[2], Yeshin Kim[3], Seung Whan Moon[1], Yu Hyun Park[1], Sole Yoo[4], Hee Jin Kim[1], Duk L. Na[1], Sang Won Seo[1]
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W133 The trajectory of neuropathology reveals subtypes of Alzheimer's disease – a data-driven approach
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W134 Different atrophy signatures for AD and FTD are associated with different CSF biomarker profiles
Mariona Ruiz-Peris[1], Roser Sala-Llonch[1], Neus Falgàs[2], Albert Lladó[2], Mircea Balasa[2], Sergi Borrego[2], Anna Antonell[2], Kaj Blennow[3], Henrik Zetterberg[3], Nuria Bargallo[2], Raquel Sanchez-Valle[2]
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W135 Comparison of Neurodegeneration and Amyloid Deposition Summary Measures in Predicting Cognition
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W136 Associations between cerebral blood flow and structural and functional brain imaging measures in MCI
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W137 MRI texture analysis of the hippocampus in healthy controls and patients with MCI or AD
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W138 Relationship between Emotion Regulation Strategy and Neuroimaging Biomarkers of Alzheimer's Disease

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W139 Abnormal modular structure in the Alzheimer's brain

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W140 Sub regional hippocampal atrophy, cognitive decline and its associations to Tau-PET pathology in AD

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W141 Asymmetry in hippocampal texture predicts conversion to AD independent of amyloid status

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W142 The incidence of dementia in relation to cognitive reserve, brain reserve and cognition

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W143 Relationship of verbal memory to default mode network volume differs by sex and amyloid status

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W144 Labeled Cortical Distance Mapping Reveals Temporal Lobe Morphometry in Primary Progressive Aphasia

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W145 Sex moderates amyloid and ApoE4 effect on prefrontal/default mode network resting state connectivity

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W146 Differences in Patterns of White Matter Hyperintensities in Neurodegeneration and Healthy Aging

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W147 Brain network dynamics in older age cognitive frailty and dementia - a MEG resting-state study

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W148 Associating Alzheimer's disease risk genes with the Default Mode Network

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W149 Estimating Alzheimer's Risk from Memory Performance: A Behavioural Partial Least Squares Analysis

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W150 Comparing Harmonization Approaches across ADNI3 Diffusion MRI Protocols

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W151 Structural and functional changes of the insula across the frontotemporal dementia spectrum

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W152 Functional connectivity in older age cognitive frailty and dementia - a MEG resting-state study

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W153 Multimodal Prediction of Progression to Alzheimer's Disease
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W154 Prediction of 7-year progression from subjective cognitive decline to MCI
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W155 Tracking individual trajectories of joint structural and dynamic functional connectivity in dementia
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W156 Deep Residual Learning for Binary and Multi-Class Diagnostic/Prognostic Classification
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W157 Longitudinal cortical changes underlying speech production deficits in primary progressive aphasia
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W158 A different type of primary progressive aphasia; a case report of dysprosody and word deafness
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W159 Dynamic Causal Modeling of Task fMRI and the Impact of Alzheimer's Disease on Pain Perception
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W160 Altered structural covariance networks in Alzheimer's dementia with small vessel disease
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Epilepsy

W161 Data-driven MRI Biotyping of Epileptogenic Malformations of Cortical Development
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W162* Hierarchical Organization of The Cerebral Cortex is Disrupted in Temporal Lobe Epilepsy
Fatemeh Fadaie[1], Hyo Lee[1], Benoit Caldairou[1], Ravnoor Gill[1], Boris Bernhardt[1], Seok-Jun Hong[1], Andrea Bernasconi[1], Neda Bernasconi[1]
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W163 Predicting Surgical Outcome in Temporal Lobe Epilepsy Patients Using Machine Learning
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W164 Imaging protocol and data processing stream for VNS fMRI at 3T for stimulation parameter adjustments
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W165 Changes in the functional Language Connectome after Temporal Lobe Resection
Karl-Heinz Nenning[1], Pamela Thompson[2], Mahinda Yogarajah[2], Andrew McEvoy[3], Victor Schmidbauer[1], Michelle Schwarz[1], Gudrun Geisel[1], Karin Trimmel[1], Gregor Kasprian[1], Matthias Koepp[2], Georg Langs[1], John Duncan[2], Silvia Bonelli[1]
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W166 Comparison of Manual and Automated Tractography in Patients with Refractory Temporal Lobe Epilepsy
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W167 Widespread Alterations in Functional Connectome Embedding Following Temporal Lobe Epilepsy Surgery
Sara Larivière[1], Yifei Weng[2], Reinder Vos de Wael[1], Zhengge Wang[3], Andrea Bernasconi[1], Neda Bernasconi[1], Zhiqiang Zhang[2], Boris Bernhardt[1]
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W168* Distance-Enriched Functional Connectomics in Drug-Resistant Temporal Lobe Epilepsy
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W169 Localizing value on sublobar scale of statistical SPECT analysis in intractable TLE: ISAS vs SISCOM
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W170 Distinct laterality of tract alteration in left and right subtypes of mesial temporal lobe epilepsy
Hu Hsi-Yuan[1], Chen Chang-Le[1], Shih Yao-Chia[1,2], Liou Horng-Huei[3,4], Yung-Chin Hsu[5], Wen-Yih Isaac Tseng[1,4,6]
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W171* Characterizing the optimal control energy trajectory in temporal lobe epilepsy
Xiaosong He[1], Jennifer Stiso[1], Jason Kim[1], Zhixin Lu[1], Eli Cornblath[1], Tommaso Menara[2], Fabio Pasqualetti[2], Michael Sperling[3], Joseph Tracy[3], Danielle Bassett[1]
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W172 Contralateral functional connectivity changes after temporal lobe epilepsy surgery
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W173* Deep learning DWI connectome improves detection of language network alteration in epilepsy children
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W174 Identification of eloquent cortical areas using ECoG in patients with drug resistant epilepsy
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W175 Multimodal imaging in focal epilepsy: cases with no BOLD response in standard EEG-fMRI analysis
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W176 Enhanced Fast-VESTAL to Locate Interictal Epileptic Discharges in Patients with Epilepsy
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W177* NR4A1 Associated Multimodal Neuroimaging Patterns Impaired in Mesial Temporal Lobe Epilepsy
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W178 Feasibility of using machine-learning to guide sEEG implantation in focal epilepsy
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W179 Accelerated Brain Aging in Temporal Lobe Epilepsy
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W180 Cannabidiol-induced changes in attention fMRI activation in treatment-resistant epilepsy
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W181 Sleep EEG in Children with Focal Epilepsy: Disruptions in Slow Wave Activity and Topography
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W182 BOLD Response to Interictal Epileptiform Discharges Helps Predict Surgical Outcome in Focal Epilepsy
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W183 Epilepsy Connectome Project: Neural Correlates of Personality Traits in Temporal Lobe Epilepsy
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W184 Hippocampal functional connectivity associations with cognitive skills in temporal lobe epilepsy
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W185 Altered respiratory pulsatility in epilepsy patients brain
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W186 Brain connectivity with or without epileptic spikes: a simultaneous scalp and intracranial EEG study

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W187 EEG-connectivity informed by EEG-fMRI-connectivity in epilepsy with and without spikes

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W188 Hypothalamus resting state functional connectivity in childhood narcolepsy type-1

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W189 Hemodynamic Response Function Modelling from Generalized Spike-wave Discharges Event Related Data

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W190 Integration of multi-shell diffusion imaging derived metrics in tractography reconstructions

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W191 Hemodynamic correlates of emotion regulation in left-sided temporal lobe epilepsy

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W192 Reduced network connectivity in brains of STX1B mutation carriers is correlated with gene expression

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W193 High frequency oscillations and seizures share neural substrates: evidence from multi-unit activity

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W194 A new method for investigating hippocampal integrity

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W195 Mesoscopic reorganization of fMRI connectivity in patients with temporal lobe epilepsy

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W196 EEG topography analysis as a biomarker of epilepsy

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W197 Local and whole-brain functional connectivity based on scalp EEG as a marker of epileptogenic zone

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W198 Cannabidiol changes resting-state functional connectivity in treatment-resistant epilepsy
Rodolphe Nenert[1], Jane Allendorfer[2], E. Martina Bebin[1], Tyler Gaston[1], Leslie Grayson[1], James Houston[2], Jerzy Szaflarski[1]
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W199 Study of brain connectivity changes to characterize epileptic seizures after traumatic brain injury
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W200 Pediatric Longitudinal Cortical Thickness Pipeline Maps Atrophy in Rasmussen's Encephalitis
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W201 Functional reorganization after surgical hemispherotomy for intractable epilepsy
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W202 White matter involvement in Mild Mesial Temporal Lobe Epilepsy: a cohort MRI study
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W203 Differences between pre-operative and post-operative connectivity in patients with focal epilepsy
Elhum Shamshiri[1], Margherita Carboni[2,3], Eric Menetre[1], Giannarita Iannotti[4,1], Sebastien Tourbier[5], Margitta Seeck[1], Shahan Momjian[4], Karl Schaller[4], Patric Hagmann[5], Serge Vulliemoz[1]
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W204 EEG topography is altered by hidden epileptic activity: a simultaneous scalp-intracranial EEG study
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W205* Conditional generative adversarial networks support the detection of focal cortical dysplasias
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W206 Fixel-based analysis reveals antibody-specific white matter alterations in limbic encephalitis
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W207 Volumetry of hippocampal subfields reflects serostatus in patients with limbic encephalitis
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W208 Brainstem atrophy in focal epilepsy destabilizes brainstem-cortex interactions:A path towards SUDEP?
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Parkinson's Disease and Movement Disorders

W209 Decoding the microstructural correlate of in-vivo brain atrophy patterns in corticobasal syndrome

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W210 Impact of Mild Cognitive Impairment in Parkinson's Disease in the Functional Connectome

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W211 Longitudinal Variations in Neuromelanin MRI Signal in Parkinsons dDiseas

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W212 Evaluation of the Effect of Lower Extremity Exercise on Motor Network Functional Activity in PD

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W213 Robust detection of longitudinal white matter trajectories in premanifest Huntington's Disease

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W214 Atrophy and aging in Parkinson's: evidence from meta-analysis, patient and population samples

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W215 No Structural Brain Differences in 'de novo' Parkinsonian Patients

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W216 Temporal

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W217 Dynamic Contrast Enhanced MRI reveals blood-brain barrier disruption in Parkinson's disease

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W218 Identification of Parkinson's disease patients based on resting-state between-network connectivity

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W219 Co-variation of D1 and D2 Receptor Blockage Links Functional Mode in Parkinsonian Macaques

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W220 Disease severity dependent white-matter degeneration in Friedreich ataxia: The IMAGE-FRDA Study

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W221 Cognitive Decline is Reflected with Decreased Theta Responses in Parkinson's and Lewy Body Disease

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W222 Structural Connectivity Changes Underlies Impulsivity and Gambling Behaviours in Parkinson's Disease

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W223 The Decrease of EEG Theta Power in Longitudinally Followed Patients with Parkinson's Disease

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W224 Levodopa-induced pattern of putamen activity in Parkinson's disease

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W225 Brain Abnormalities Detection in de novo Parkinsonian Patients

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W226 Diffusion and perfusion parameters within subcortical gray matter in early Parkinson's disease

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W227 Atrophy characterization of cortical and subcortical gray matter in Huntington's disease

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W228 Voice Analysis in Early Parkinson's Disease and Correlation with Neuroimaging

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W229 DBM in a German multicenter SCA14 cohort reveals structural changes in cerebellum and forebrain

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W230 Linking stage-specific plasma biomarkers to gray matter atrophy in patient with Parkinson's disease

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W231 Longitudinal MR-Morphometry in Brains of Patients with Sporadic Parkinsons dDiseas

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W232 A longitudinal fixel analysis of cortico-striatal white matter in premanifest Huntington's disease
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W233 Functional Connectivity in Parkinson's Disease during Executive, Visuospatial and Memory Processing
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W234 Substantia nigra locations of iron-content and free-water abnormalities in Parkinson's disease
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W235 Brain functional activity during action observation of gait in Parkinson's disease
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W236 Integrated morphometric, molecular, and clinical characterization of Parkinson's disease pathology
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W237 Cerebellar atrophy in patients with Cervical Dystonia: a Volumetric MRI study
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W238 The structural connectome of isolated task-specific focal dystonia
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W239 Combined Structural and Functional Connectivity as Biomarkers for Disease Progression in MS
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W240 A Deep Learning Model for Predicting Cognitive and Motor Impairments in Parkinsons dDiseas
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W241 A new approach to functional atlas based morphometry reveals cortical atrophy in Parkinson's disease
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W242 Resting state spatial activation patterns as a biomarker for Parkinson's disease
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W243 Resting-state connectivity stratifies premanifest Huntington's disease by cognitive decline rate
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W244 Bilateral hippocampal connectivity predicts cognitive dysfunction in Parkinsons dDiseas
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W245 Abnormal Sensorimotor Processing in Cervical Dystonia in Functional Magnetic Resonance Imaging
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W246 Gender difference in brain atrophy in de novo Parkinson's disease
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W247 Neuronal avalanches in Parkinsons dDiseas during magnetoencephalographic resting state
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W248 Brain atrophy in Parkinson's disease with polysomnography-confirmed REM sleep behavior disorder

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W249 Alteration of functional brain networks in very early-stage, drug naïve Parkinson's disease

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W250 Memory-guided saccade deficits correlate with structural neurodegeneration in Huntington's disease

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W251 Identifying altered resting-state network in Parkinson's disease with mild cognitive impairment

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W252 Altered resting-state switching dynamics in Parkinsons dDiseas

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W253 Freezing of Gait in Parkinsons dDiseas is a Derangement of Network Dynamics

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W254 DTI measures to track cognitive decline in Parkinson's disease with MCI and Dementia

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W255 Common and specific subregional pathology in the striatum for Schizophrenia and Parkinson's disease

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W256 "Dying-back" Degeneration Leads to Cortical Thinning in Pure Hereditary Spastic Paraplegia

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W257 Cortical activity time locked to oscillatory events in the STN of Parkinson patients

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W258 Gender differences in Parkinson's disease: a neuroimaging investigation

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W259 Neurobiological subtypes in the Parkinson's disease

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W260 Disentangling gray matter neural correlates of apathy domains in Huntington's disease

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W261 The substantia nigra pars compacta in Parkinson's disease: a diffusion tensor imaging study

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W262 Using machine-learning methods for identification of multi-modal predictors of dementia in Parkinson

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W263 Hypersexual impulse control disorders in Parkinson's disease: a resting state fMRI study

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W264 Structural Changes in Neurocognitive Networks Related with Cognitive Decline in Parkinson's Disease

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W265 Intra-network functional connectivity changes of the frontoparietal network in Parkinson's disease

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W266 A longitudinal MRI study of functional brain connectome in a large cohort of PD patients

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W267 Structural connectome of brainstem nuclei in premanifest synucleinopathy:REM sleep behavior disorder

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W268 Functional network connectivity predicts spreading of cortical atrophy in Parkinson's disease
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W269 Braak model investigation in Parkinson disease using multimodal MRI biomarkers
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W270 Poorer memory performance is linked to decline in the strength of connectivity in multiple sclerosis
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W271 MAPT, APOE4 and Risk of Dementia in early Parkinsons dDiseas
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W272* Imaging the Locus Coeruleus in Parkinsons dDiseas with Ultra-high 7T MRI
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W273 International mega-analysis of cortical and subcortical morphometry in Parkinsons Disease: ENIGMA-PD
Ysbrand Van der Werf[1], Joanna Bright[2], Max Laansma[1], Boris Gutman[3], Christian Rummel[4], Ines Debove[5], Cristiane Rocha[6], Clarissa Yasuda[7], Kathleen Poston[8], Roland Wiest[9], Fernando Cendes[7], Odile A. van den Heuvel[1], Riccardo Galli[1], Fabrizio Piras[10], Gianfranco Spalletta[10], Jason Druzgal[11], Matthew Barrett[12], Toni Pitcher[13], Tracy Melzer[13], Sarah Al-bachari[14], Laura Parkes[14], Rob de Bie[1], Mario Rango[15], Corey McMillan[16], Neda Jahanshad[17], Paul Thompson[18]
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W274 Dynamic functional connectivity signature of cognitive decline in Parkinson's disease
Eleonora Fiorenzato[1], Antonio Strafella[2], Jinhee Kim[2], Roberta Schifano[1], Luca Weis[1], Angelo Antonini[3], Roberta Biundo[1]
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W275 Robust multivariate models of longitudinal subcortical change in premanifest Huntington's disease
Eduardo Castro[1], Pablo Polosecki[1], Dorian Pustina[2], John Warner[2], Andrew Wood[2], Cristina Sampaio[2], Guillermo Cecchi[1]
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W276 7T MRI reveals the correlation of perivascular spaces with clinical features in Parkinson's disease
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W277 Automatic Diagnosis of Spasmodic Dysphonia with Structural MRI and Machine Learning
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W278 7T MRI reveals structure and functional connectivity change at angular gyrus in Huntington's disease

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GENETICS

Genetic Association Studies

W279 Polygenic Risk for Autism Spectrum Disorder and Abnormal Deep Grey Matter Development

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W280 Genetics of planum temporale asymmetry: limited relevance to disorders and cognitive variability

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W281 Unearthing the Evolutionary History of Genetic Variants Influencing Human Sulcal Widening

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W282 Human brain arousal in the resting state: a genome-wide association study

Philippe Jawinski[1], Holger Kirsten[2], Christian Sander[3], Janek Spada[3], Christine Ulke[3], Jue Huang[3], Ralph Burkhardt[4], Markus Scholz[2], Tilman Hensch[3], Ulrich Hegerl[3]
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W283 Identification of three novel genetic loci associated with global brain glucose metabolism

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W284 The associations of (Pro)renin receptor to Dopaminergic systems

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W285 Human Handedness: Genetics, Microtubules and Brain Language Areas

Akira Wiberg[1], Michael Ng[1], Yasser Al Omran[1], Fidel Alfaro-Almagro[2], Jonathan Marchini[3], David Bennett[4], Stephen Smith[2], Dominic Furniss[1], Gwenaelle Douaud[2]
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W286 GWAS of the white matter micro-structure suggests multigenic architectures: a UKBiobank study

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W287 Axon guidance pathway contributed to working memory in a Chinese sample

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W288 Updates from the ENIGMA-CNV working group: 15q11.2 structural variants influence cortical morphology

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W289 Genetic association study of cortical thickness for identifying risk genes in AD using random forest

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W290 On the genetic bases of incomplete hippocampal inversion: a genome-wide association study

Claire Cury[1,2], Marzia Antonella Scelsi[2], Roberto Toro[3], Vincent Frouin[4], Eric Artiges[5], Andreas Heinz[6], Henrik Walter[7], Hervé Lemaître[8], Jean-Luc Martinot[5], Jean-Baptiste Poline[9], Michael Smolka[10], Gunter Schumann[11], Andre Altmann[2], Olivier Colliot[12]
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W291 Association between polygenic risk with cognition and brain structure in normal developing children
Matthias Kirschner[1,2], Budhachandra Khundrakpam[1], Uku Vainik[1], Noor Al-Sharif[1], Alan Evans[1], Alain Dagher[1]
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W292 The influence of polygenic risk for psychiatric disorders on cortical complexity in healthy subjects
Simon Schmitt[1], Frederike Stein[2], Roman Kessler[3], Katharina Brosch[2], Tina Meller[2], Till Andlauer[4], Alex Krug[2], Tilo Kircher[2], Igor Nenadic[2]
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W293 ENIGMA task-based fMRI: A workgroup studying the genetic basis of task-evoked brain activity
Ilya Veer[1], Lea Waller[1], Tristram Lett[1], Susanne Erk[1], Henrik Walter[1]
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W294 Interaction between chronic stress and KYNA-related genes on PFC activity during working memory
Leonardo Fazio[1,2], Marco Papalino[1], Graziella Amico[1], Pasquale DiCarlo[1], Barbara Gelao[1], Raffaella Romano[1], Popolizio Teresa[2], Alessandro Bertolino[1], Giulio Pergola[1], Giuseppe Blasi[1]
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W295 Probabilistic modeling of the genetic influence on brain structure and schizophrenia diagnosis
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W296 A novel SNP affecting CSMD1 increases intrinsic amygdala connectivity and prosocial behavior
Kevin Bickart[1], Valerio Napolioni[1], Yongha Kim[1], Raiyan Khan[1], Jonas Richiardi[2], Andre Altmann[3], Michael Greicius[4], IMAGEN Consortium[5]
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W297 Shared Genetic Influence on Cognition and Functional Brain Connectivity
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Genetic Modeling and Analysis Methods

W298 Investigating the common effect of haploinsufficiency on neuroimaging traits
Clara Moreau[1], Catherine Schramm[2], Guillaume Huguet[2], Sebastian Urchs[3], Kuldeep Kumar[2], Elise Douard[1], Alan Evans[4], Gunter Schumann[5], Mallar Chakravarty[6], Pierre Bellec[3], Aurelie Labbe[7], Celia Greenwood[8], Sebastien Jacquemont[2]
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W299 Autoregressive Mixed Models of Longitudinal Brain Changes, Cognition and Genetics in ADNI
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W300 Investigating the genetics underpinnings of linked-brain structure associated to memory processes
Joao Guimaraes[1,2,3], Thomas Wolfers[1,2], Linda de Voogd[4,1,2], Marieke Klein[3], Emma Sprooten[1,2,3], Janita Bralten[3,1], Elena Shumskaya[1,3], Barbara Franke[3,1,5], Alberto Llera[1], Christian Beckmann[1,2,6]
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W301 Heritability of Amygdala Nuclei Volumes in Adolescent Twins
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W302 Mapping shared genetic risk for Parkinsons dDiseas & Insomnia to the Human Brain in UK Biobank
Linda Ding[1], Philip Jansen[2], Alyssa Zhu[1], Joanna Bright[1], Paul Thompson[3], Danielle Posthuma[2], Eus Van Someren[4], Neda Jahanshad[1]
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W303 Genetic Architecture of the Structural and Functional Connectome
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W304 Dopamine Synthesis and Network Connectivity are Related to Neanderthal-Derived Genetic Variation

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W305 Brain activation subtypes are organized into two highly pleiotropic clusters in the HCP data

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Genetics Other

W306 Genetic ancestry and polygenic traits encoded in resting-state fMRI networks

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W307 Heritability estimates of arterial-spin labeling and rs-MRI data for Amish Connectome Project

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W308 Genetic relationships between schizophrenia, bipolar disorder, IQ and ICV through polygenic scoring

Sonja de Zwarte[1], Rachel Brouwer[1], Lysanne van Beek[1], Andre Aleman[2], Wiepke Cahn[1], Kristel van Eijk[3], Lieuwe de Haan[4], Lydia Krabbendam[5], Bochao Lin[3], Jurjen Luykx[1,3], Machteld Marcelis[6], Jan-Bernard Marsman[2], Stijn Michielse[6], Jim van Os[6,1,7], For Genetic Risk and Outcome of Psychosis (GROUP) Investigators[8], Rene Kahn[1,9], Neeltje van Haren[1,10]
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W309 Influence of processing pipeline on cortical thickness measurement and its heritability estimates

Shahrzad Kharabian Masouleh[1], Yashar Zeighami[2], Francois Chouinard-Decorte[3], Felix Hoffstaedter[4], Claude Lepage[5], Lindsay Lewis[6], Alan Evans[7], Simon B. Eickhoff[8], Sarah Genon[9], Sofie Valk[4]
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W310 Impact of a schizophrenia risk variant of MIR137 on emotion-related brain connectivity

Anna Digiovanni[1], Tiziana Quarto[1], Giulio Pergola[1,2], Leonardo Fazio[1], Raffaella Romano[1], Antonio Rampino[1,3], Popolizio Teresa[3], Giuseppe Blasi[1,3], Alessandro Bertolino[1,3]
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W311 Hemispheric relation of heritability of white-matter connectivity in human brain

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Neurogenetic Syndromes

W312 Integration of transcriptomic and sMRI data in a common neurogenetic developmental disorder

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W313 Transcriptomic Underpinnings of Altered Brain Organization in Neurodevelopmental Disorders

Jakob Seidlitz[1,2], Ajay Nadig[1], Siyuan Liu[1], Richard Bethlehem[2], Petra Vértes[2], Sarah Morgan[2], František Váša[2], Rafael Romero-Garcia[2], François Lalonde[1], Liv Clasen[1], Jonathan Blumenthal[1], Joan Han[3], Damon Polioudakis[4], Luis de la Torre-Ubieta[4], Daniel Geschwind[4], Nancy Lee[5], Declan Murphy[6], Edward Bullmore[2], Armin Raznahan[7]
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W314 X-chromosome insufficiency alters receptive fields across the human early visual cortex

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W315 Cerebellar lobule atrophy as predictor of cognitive status in Friedreich's ataxia patients

Camilla Russo[1], Giuseppe Pontillo[1], Sirio Cocozza[1], Teresa Costabile[1], Filomena Abate[1], Agnese Liguori[1], Enrico Tedeschi[1], Walter Del Vecchio[2], Francesca Paciello[1], Mario Quarantelli[2], Francesco Saccà[1], Alessandro Filla[1], Arturo Brunetti[1]
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W316 Effects of HPA-axis dysregulation on psychopathology and brain maturation in 22q11 Deletion Syndrome

Corrado Sandini[1], Maelle Chambaz[2], Maude Schneider[3], Marco Armando[4], Daniela Zoller[5], Marie Schaer[1], Carmen Sandi[6], Dimitri Van De Ville[7], Stephan Eliez[1]
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W317 White matter development in 22q11.2 Deletion Syndrome and association with risk factors of psychosis
Joëlle van der Molen[1], Maria Padula[2], Daniela Zöller[1,3], Corrado Sandini[1], Maude Schneider[1], Marie Schaer[1], Stephan Eliez[1]
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W318 Structural and functional network abnormalities in the human brain of XYY syndrome
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W319 The anterior hippocampus is the primary contributor to smaller hippocampal size in Down Syndrome
Katherine Koenig[1], Se-Hong Oh[2], Melissa Stasko[3], Elizabeth Lissmore[3], Elizabeth Roth[3], Anne Birnbaum[3], Thomas Scheidemantel[4], Hudson Taylor[4], Nancy Roizen[4], Stephen Ruedrich[4], Alberto Costa[3]
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W320 Cortico-cortical vs Corticospinal Tract differences in 22q Deletion syndrome: A Fixel-based Analysis
Julio Villalon[1], Talia Nir[2], Neda Jahanshad[3], Leila Kushan[4], Christopher Ching[5], Carrie Bearden[4], Paul Thompson[6]
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Transcriptomics

W321 Gene Expression Correlates of the Cortical Network Underlying Sentence Processing
Xiang-Zhen Kong[1], Nathalie Tzourio-Mazoyer[2,3,4], Marc Joliot[5,3,4], Evelina Fedorenko[6,7,8], Jia Liu[9], Simon Fisher[10,11], Clyde Francks[12,11]
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W322* Multimodal gradients across mouse cortex and their human correspondence
Ben Fulcher[1], John Murray[2], Valerio Zerbi[3], Xiao-Jing Wang[4]
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W323 In-vivo mapping of cell types related to brain microstructure through gene expression
Marzia Antonella Scelsi[1], Maira Tariq[1], Jonathan Schott[1], Gary Zhang[1], Andre Altmann[1]
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W324 Expression signatures of receptor genes in primary cortical areas
Thomas Muehleisen[1,2,3], Cemil Kerimoglu[4], Dominique Hilger[1], Andre Fischer[4], Sven Cichon[1,2,5]
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W325* A molecular gradient along the longitudinal axis of the human hippocampus informs brain function
Jacob Vogel[1], Renaud La Joie[2], Michel Grothe[3], Alex Diaz-Papkovich[1], Andrew Doyle[1], Etienne Vachon-Presseau[4], Claude Lepage[1], Reinder Vos de Wael[1], Yasser Iturria-Medina[1], Boris Bernhardt[1], Gil Rabinovici[2], Alan Evans[1]
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W326 Transcriptional Signatures of Hierarchically Organized Chronnectome Architecture in the Human Brain
Jin Liu[1], Mingrui Xia[1], Xindi Wang[1], Xuhong Liao[1], Yong He[1]
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W327 Transcriptomic correlates of structural covariance
Yohan Yee[1,2], Leon French[3,2], Benjamin Darwin[1], Jacob Ellegood[1], Jason Lerch[1,2]
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W328 Receptor gene expression in the human brain is correlated with receptor density and is area specific
Daniel Zachlod[1], Sebastian Bludau[2], Thomas Muehleisen[3,4], Nicola Palomero-Gallagher[5,6,7], Karl Zilles[8,6,7], Katrin Amunts[9,4,10]
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IMAGING METHODS

BOLD fMRI

W329 Disrupted brain functional topological organization in patients with functional constipation
Lei Liu[1], Chunxin Hu[1], Yueyan Ding[1], Yuanyuan Wang[1], Jingyuan Li[1], Wenchao Zhang[1], Karen M. von Deneen[1], Jixin Liu[1], Yongzhan Nie[2], Yi Zhang[1]
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W330 Slice-Leakage Artefact in Simultaneous Multi-Slice Echo-Planar Imaging Data
Carolyn McNabb[1], Michael Lindner[1], Shan Shen[1], Kou Murayama[1,2], Laura Burgess[1], Tom Johnstone[3]
[1]University of Reading, Reading, United Kingdom, [2]Kochi University of Technology, Kochi, Japan, [3]Swinburne University of Technology, Melbourne, Australia

W331 Changes in The Origin of fMRI Global Signal Following One Night of Total Sleep Deprivation
Ehsan Shokri Kojori[1], Nora Volkow[2], Sukru Demiral[3], Dardo Tomasi[3], Peter Manza[3], Corinde Wiers[3], Gene-Jack Wang[3]
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W332 Comparison of feature selection methods based on discrimination and reliability for fMRI data
Wenyan Xu[1], Zonglei Zhen[2], Qing Li[1], Xia Wu[1]
[1]College of Information Science and Technology, Beijing Normal University, Beijing, China, Beijing, China, [2]State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, Beijing, China

W333 Deactivation of default mode network during touch
Timmy Strauss[1], Robin Kämpe[2], J. Paul Hamilton[2], hakan Olausson[2], Fabian Rottstädt[3], Claudia Raue[4], Ilona Croy[3]
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W334 Seed-based test-retest reliability of rsfMRI at 3T and 7T
Ajay Nemani[1], Mark Lowe[2]
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W335 Frequency Responses of White Matter BOLD Signal to Visual Stimuli
Arabinda Mishra[1], Muwei Li[1], Adam Anderson[1], Allen Newton[1], Zhaohua Ding[1], John Gore[1]
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W336 Neuro-electrical evidence of sympathetic activity contributing to fMRI signals
Pinar Ozbay[1], Catie Chang[2], Dante Picchioni[1], Hendrik Mandelkow[1], Miranda Chappel-Farley[3], Peter van Gelderen[1], Jacco de Zwart[1], Jeff Duyn[1]
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W337 Denoising pain related task multi-echo fMRI data by group ICA
Qingbao Yu[1], Richard Reynolds[2], Lauren Atlas[3]
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W338 Common Neural and Transcriptional Correlates of Inhibitory Control Modulating Memory and Emotion
Wei Liu[1], Nils Kohn[1], Guillen Fernandez[1]
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W339 Corticostriatal Reward Sensitivity Predicts Weight Loss Following a 12-Month Intervention
Jamie Peven[1], Shannon Donofry[1], John Jakicic[1], Renee Rogers[1], Jennifer Watt[1], Kirk Erickson[1]
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W340 Difference in functional characteristics of task-fMRI and resting state fMRI
Yul-Wan Sung[1], Seiji Ogawa[2]
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W341 Task related regional difference in temporal characteristics of fMRI signals
Yul-Wan Sung[1], Seiji Ogawa[2]
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W342 Striatum activation as evidence for neurofeedback learning and reward processing? - a placebo study
Doris Grössinger[1], Guilherme Wood[1], Matthias Witte[2], Karl Koschutnig[1], Manuel Ninaus[3], Silvia Kober[1]
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W343 TSNR Dependence on Cortical Orientation Relative to the B0 Field Axis
Olivia Viessmann[1], Jingyuan Chen[1], Klaus Scheffler[2], Lawrence Wald[1,3], Jonathan Polimeni[1,3]
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W344 A multi-target motor imagery training using EEG-fMRI Neurofeedback: an exploratory study on stroke
Simon Butet[1], Giulia Lioi[2], Mathis Fleury[2], Anatole Lécuyer[3], Christian Barillot[2], Isabelle Bonan[1]
[1]CHU Rennes, Médicine physique et de réadaptation, Rennes, France, [2]Univ Rennes, Inria, CNRS, Inserm, IRISA, EMPENN ERL U1228, Rennes, France, [3]Univ Rennes, Inria, CNRS, IRISA, Hybrid Project Team, Rennes, France

W345 How are BOLD Measures and Connectivity Affected by Noise Removal in Resting-state and Task fMRI?
Bianca De Blasi[1], Lorenzo Caciagli[2], Silvia Francesca Storti[3], Matthias Koepp[2], Gloria Menegaz[3], Anna Barnes[4], Ilaria Boscolo Galazzo[3]
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W346 Low-level neural mechanisms support working memory performance in healthy ageing
Patrycja Naumczyk[1], Karolina Finc[2], Krzysztof Jodzio[1]
[1]University of Gdansk, Gdansk, Poland, [2]Centre for Modern Interdisciplinary Technologies, Torun, Poland

W347 Stress-induced changes of intra- and inter-network functional connectivity in healthy subjects
Miao Zhong[1,2], Wenjie Jiang[1], Junjing Wang[1], Xiaojin Liu[1], Lihong Liu[3], Meiqi Niu[1], Ling Zhao[1], Ruiwang Huang[1]
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W348 Positive effects of physical workout on working memory in healthy ageing
Patrycja Naumczyk[1], Agnieszka Sabisz[2], Beata Brzeska[2], Angelika Sawicka[3], Krzysztof Jodzio[1], Paweł Winklewski[2], Edyta Szurowska[2], Robert Olek[3], Arkadiusz Szarmach[2]
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W349 The impact of physiological correction on spectral power and resting-state functional connectivity
M. Aras Kayvanrad[1,2], Stephen Strother[3], Jean Chen[2]
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W350 The modular organization of the cingulate cortex
Elisabeth Caparelli[1], Hong Gu[1], Thomas Ross[1], Yihong Yang[1]
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W351 Replicability of group activations across two independent samples – Validation of a human fMRI test
Miriam Kampa[1], Anita Schick[2], Alexandra Sebastian[3], Tim Klucken[1], Michèle Wessa[4], Oliver Tüscher[3], Raffael Kalisch[2], Kenneth Yuen[2]
[1]Dep. of Clinical Psychology, University of Siegen, Siegen, Germany, [2]Neuroimaging Center (NIC), Johannes Gutenberg University Medical Center, Mainz, Germany, [3]Dept. of Psychiatry and Psychotherapy, Johannes Gutenberg University Medical Center, Mainz, Germany, [4]Dep. of Clinical Psychology and Neuropsychology, Johannes Gutenberg University, Mainz, Germany

W352 Studying brain function during auditory stimulation with quantitative susceptibility mapping
Mauro Costagli[1], Marta Lancione[2], Luca Cecchetti[3], Pietro Pietrini[3], Mirco Cosottini[4], Emiliano Ricciardi[3], Michela Tosetti[1]
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W353 Dual spin populations create functional contrast in human fMRI
Amanda Taylor[1], Jung Hwan Kim[1], Vimal Singh[2], Josef Pfeuffer[3], David Ress[1]
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W354 Neural correlates of temporal order judgment: an fMRI study utilizing control of the task difficulty
Jan Nikadon[1], Mateusz Chojnowski[1], Joanna Dołżycka[2], Joanna Gorgol[3], Tomasz Wolak[4], Bibianna Bałaj[5], Monika Lewandowska[6], Joanna Dreszer[7]
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W355 Neurofeedback of Frontostriatal Network Connectivity: Feasibility of a Novel Schizophrenia Treatment
Franziska Weiss[1], Martin Fungisai Gerchen[1], Peter Kirsch[1]
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W356 Assessing somato- and mototopic organisation in Focal Hand Dystonia using high-resolution 7T fMRI
Daisie Pakenham[1], Michael Asghar[1], Paul Glover[1], George O'Neill[1], Ayan Sengupta[1], Denis Schluppeck[1], Rosa Sanchez Panchuelo[1], Miles Humberstone[1], Susan Francis[1]
[1]University of Nottingham, Nottingham, United Kingdom

W357* RtQC:An open-source toolbox for real-time fMRI quality control (live software presentation at OHBM)
Stephan Heunis[1], Lydia Hellrung[2], Johan van der Meer[3], Carles Falcón[4], Yury Koush[5], David Mehler[6], Gustavo Pamplona[7], Frank Scharnowski[8], Stavros Skouras[9]
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W358 Increased dorsolateral PFC-recruitment during emotion regulation in anxiety-prone individuals
Anne-Kathrin Brehl[1], Nils Kohn[1], Aart Schene[2], Guillen Fernandez[3]
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W359 Filtering Spurious Fluctuations of Sliding Window Correlation
Victor Vergara[1], Anees Abrol[2], Vince Calhoun[3]
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W360 Resting State fMRI Analysis of the DMN Network of Patients with Stroke, treated with BonTA
Rodrigo Martin[1], Oscar Marrufo[2], Adriana Cruz[1], Jorge Hernández-Franco[3], Lorena Palafox[4], Chanel Palencia[3], Cecilia Camberos-Angulo[3], María de los Remedios Quijada-Cruz[3], Alfredo Rodriguez[5]
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W361 Functional MRI of Arousals in Sleep
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W362 Emerging functional connectivity differences in language-related networks in infants at risk for ASD
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W363 Coupling of local functional connectivity and BOLD signal variability predicts cognitive performance
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W364 Identifying functional resting state networks in silence using Looping Star
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W365 Translational model for fMRI activation in impaired cerebrovascular reactivity
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W366 Evaluation of Resting State Functional Connectivity Classification Pipelines for Chronic Back Pain
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W367 Improved cluster-wise model based on back propagation neural network
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W368 The neural basis of the craving induced by smoking prohibited symbols in smokers
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W369 Detecting fast sub-second activation sequences with sequential fMRI pattern analysis
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W370 The association between autonomic reactivity and conditioned pain modulation is mediated by the PAG
Elena Makovac[1,2], Giovanni Calcagnini[3], David Hohenschurz-Schmidt[1], Alessandra Venezia[1], Ottavia Dipasquale[1], Jade Jackson[1,2], Sonia Medina[1,2], Steven Williams[1], Stephen McMahon[2], Matthew Howard[1]
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W371 Assessing uncertainty of visual cortical areas from resting state fMRI activity recorded at 3T
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W372 Neural representation of prospective decisions during spatial navigation in a virtual subway network
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W373 Comparison of brain activation according to the action observation for hand grasp patterns
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W374 Fluid Intelligence Predicts Novel Rule Implementation in a Frontoparietal Control Network
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W375 The neural basis of the binaural integration of speech: A combined tACS-fMRI study
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W376 Simple Data Acquisition Choices can Adversely Affect Preprocessing Strategies in Resting State fMRI
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W377 Excitation/inhibition balance in the aMCC influences resting state activity in the CEN
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W378 A novel, multimodal approach informed by PET to study the brain pharmacodynamic response under MDMA
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W379 Testing vascular contributions to BOLD spin-echo EPI signals with cortical B0 orientation effects
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W380 Delayed Cerebral Hemodynamic Responses in Patients with Chronic Fatigue Syndrome (ME/CFS)
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W381 Detectability of ocular dominance and orientation preference in V1 using fMRI
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W382 Increased alexithymia is associated with reduced neural reactvity towards negative stimuli
Xiaoxiao Zheng[1], Lei Xu[1], Jialin Li[1], Meina Fu[1], Fei Xin[1], Feng Zhou[1], Congcong Liu[1], Keshuang Li[1], Benjamin Becker[1], Keith Kendrick[1]
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W383 Increased Global Interaction across Functional Brain Modules as Concentration of Propofol Increased
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W384 Reliability of Stationary and Non-stationary Functional Connectivity Across Multiple Frequency Bands
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W385 Characterization of Inter-hemispheric Symmetry of Functional Networks in Brain White Matter
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W386 Alteration in regional homogeneity in first-episode bipolar disorder and major depressive disorder
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W387 Altered functional connectivity in the hippocampal subregions of taxi drivers
Limin Peng[1], Ling-Li Zeng[1], Yiming Fan[1], Hui Shen[1], Dewen Hu[1]
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W388 Knowing where to switch the direction: a study with a virtual subway map
Siqi Liu[1], Yihe Weng[1], Senning Zheng[1], Shuai Wang[1], Huiyuan Huang[1], Jie Song[1], Qing Qi[1], Lu Zhang[1], Ruiwang Huang[2]
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W389 Contextual interference differently modulates activity in regions of the default mode network
Lisa Pauwels[1], Jolien Gooijers[1], Celine Maes[1], Hamed Zivariadab[1], Thiago Santos Monteiro[1], Geneviève Albouy[1], Stefan Sunaert[2,1], Stephan Swinnen[1], Sima Chalavi[1]
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W390 CoordsFinder – software enables systematic search for area-based meta-analyses
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W391 Patterns of neuronal variability in the sensorimotor network mediate affective temperaments
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W392 Tracking functional and structural brain plasticity in patients with visual snow
Lars Michels[1], Njoud Aldusary[1], Patrick Freund[2], Marco Piccirelli[1], Arwa Baeshen[1], Jamuna Alghamdi[3], Bujar Saliju[4], Shila Pazahr[1], Reza Mazloum[1], Fahad Alshehri[1], Klara Landau[4], Spyros Kollias[1]
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W393 EPI based distortion- and resolution-matched T1-Like anatomy for submillimeter-resolution fMRI at 7T
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W394 Optimizing single echo and multi echo 7T fMRI sequences for studying cortical and subcortical areas
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W395 Sampling rate effects on resting state fMRI metrics
Niko Huotari[1], Lauri Raitamaa[1], Heta Helakari[1], Janne Kananen[1], Ville Raatikainen[1], Viola Borchardt[2], Jussi Kantola[1], Vesa Kiviniemi[1], Vesa Korhonen[3]
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W396 Efficacy of EEG-fMRI Neurofeedback in stroke in relation to the DTI structural damage: a pilot study
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W397 Dynamic up- and down-regulation of large-scale cortical networks during task-on and task-off periods
Katarzyna Kazimierczak[1], Karsten Specht[1], Justyna Beresniewicz[1], Kristiina Kompus[1], Rene Westerhausen[2], Renate Grüner[3], Lars Ersland[4], Kenneth Hugdahl[1]
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W398 Effects of neurofeedback on the activities of the motor-related areas using execution and imagery
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W399 Emotion Regulation Using Implicit Closed-Loop Amygdala Neurofeedback
Apurva Watve[1], Amelie Haugg[1], Yury Koush[2], David Willinger[1], Annette Bruehl[1], Philipp Stämpfli[1], Frank Scharnowski[3], Ronald Sladky[3]
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W400 Pain-elicited brain responses: a person's ID?
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W401 Deconvolution of fMRI Data using a Paradigm-Free Iterative Approach based on PDEs
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W402 Differential effects of antipsychotic exposure on CBF, vascular reactivity and reward related BOLD
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W403 Facial Movement Influences face Processing: An fMRI study
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W404 Influence of Suffix and Gender on Inflection of Italian Nouns: A Rapid Event-related fMRI Study
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W405 Dynamic neural disruptions associated with antisocial behavior
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W406 Temporal Characteristics of the EEG-alpha Associations with the BOLD fMRI Signal in Resting-State
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W407 The attentional ventral network at the base of the Attentional Boost Effect
Giulia Bechi Gabrielli[1], Sabrina Fagioli[2], Emiliano Macaluso[3], Pietro Spataro[4], Laura Serra[5], Marco Bozzali[6], Clelia Rossi-Arnaud[7]
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W408 Reliable 3D mapping of ocular dominance columns in humans using GE-EPI fMRI at 7 T
Daniel Haenelt[1,2], Nikolaus Weiskopf[1], Roland Mueller[1], Shahin Nasr[3,4], Jonathan Polimeni[3,4], Roger Tootell[3,4], Martin Sereno[5], Robert Trampel[1]
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W409 Luminance signals in the human brain
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W410 The endocannabinoid system as a predictor of fear extinction learning – An fMRI study
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W411 The smell of babies – natural reward for the maternal brain
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W412 Accelerated Clustered Sparse fMRI Volume Acquisition in Language Mapping
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W413 Mapping the neural correlates of mood and anxiety disorders: A meta-analysis of task-fMRI studies
Delfina Janiri[1], Dominik Moser[2], Gaelle Doucet[2], Maxwell Luber[2], Alexander Rasgon[2], Won-Hee Lee[3], James Murrough[2], Gabriele Sani[4], Simon B. Eickhoff[5], Sophia Frangou[3]
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W414 Use of functional correlation tensors for fMRI monitoring of neuroplasticity during motor learning
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W415 Predictive utility of functional connectivity vs. voxel activation: being connected is key!
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W416 Hysteresis measure of whole brain connectivity by first order average derivative strength
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W417 Population Receptive Fields' Size and Complex Visual Dysfunction: a Posterior Cortical Atrophy Model

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W418 Improvement of spatial and temporal resolution of fMRI for olfactory brain regions

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W419 Combining in-plane acceleration (GRAPPA) with simultaneous multi-slice (multiband) in functional MRI

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W420 Resting state functional abnormalities in Alzheimer´s disease revealed using ALFF analysis

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W421 Language FMRI Predicts Naming Outcome in Left Temporal Lobe Epilepsy Surgery: A Multicenter Study

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W422 Supplementary motor network connectivity is associated with motor performance and frailty

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W423 Is there a specialization for taste quality in Primary Gustatory Cortex: A 7 Tesla fMRI study

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W424 Neurophysiological effects of polyphenol-rich whole coffee cherry extract in older adults

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W425 Dynamic Properties of Task-Positive Network During Working Memory Predict Better Task Performance

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W426 Neural Substrates of Implicit Intention for Adults with Autism Spectrum Disorder

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W427 Assessment of back-reconstruction methods for Multi-Subject Spatial Independent Component Analysis

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W428 Temporal complexity of fMRI within resting state networks

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W429 An fMRI investigation of gait disturbances in diabetic peripheral neuropathy

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W430 Spatial ICA analysis of functional networks modulated by sensory stimuli of different modalities

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W431 Reliability of brain response to natural stimuli: robustness in representing individual difference
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W432 Feedforward and feedback pathways of human somatosensory system during pain and touch processing
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W433 Investigating the Spatiotemporal Properties of the Hemodynamic Response to Hypercapnia
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W434 Impaired cognitive performance under psycho-social stress in cannabis dependence
Weihua Zhao[1], Kaeli Zimmermann[2], Xinqi Zhou[1], Feng Zhou[1], Meina Fu[1], Christian Dernbach[2], Dirk Scheele[2], Bernd Weber[3], Monika Eckstein[4], René Hurlemann[2], Keith Kendrick[1], Benjamin Becker[1]
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W435 Segmental Degree Centrality in Resting-State Functional MRI
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W436 The Functional Connectivity of Dorsolateral Subthalamic nucleus and its Reliability
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W437 Early visual exposure is necessary for future specialization of the fusiform face area in the blind
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W438 Neural impact of native language literacy during speech processing of non-native language
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W439 FMRI decoding using convolutional neural networks
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W440 Decoding adult ADHD in space and time with combined fMRI and EEG
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W441 Cerebral Activities during Air Inhalation through Mouth Using fMRI
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W442 The benefit of macro-anatomical alignment for fMRI-based imaging genetics
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W443 Neural correlates of enhanced response inhibition under stress
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W444 A resting state fMRI study on pain threshold
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W445 Breath Hold Challenges in fMRI: Methodological Issues in Modelling BOLD Signal Changes
Simone Cauzzo[1], Alejandro Callara[2], Maria Sole Morelli[1], Valentina Hartwig[3], Domenico Montanaro[4], Claudio Passino[1], Michele Emdin[1], Alberto Giannoni[4], Nicola Vanello[2]
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W446 Neural representations underlying mental imagery as unveiled by representation similarity analysis
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W447 Disrupted resting-state effective connectivity of the thalamus in schizophrenic patients
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W448 Filling the gap: mapping the facial homunculus in one-handed individuals and controls
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W449 Respiratory modulation of cardiovascular pulsations enables heterodyne mapping of the brain
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W450 Notizia dell'AFNI: Adapting to future needs in human neuroimaging
John Lee[1], Richard Reynolds[2], Paul Taylor[1], Dylan Nielson[3], Robert Cox[4]
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W451 Direct Contribution Comparison of Brain Structure and Function on Age, Sex and Treatment Prediction
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W452 Remote effects of gliomas on language activity
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W453 COMT Val158Met influences the functional connectivity of the frontoparietal network at rest
Sichu Wu[1,2], Hwee-Ling Lee[2], Neeraj Upadhyay[2], Junxia Wang[1], Zhao Qing[1], Jiaming Lu[1], Xue Liang[1], Xin Zhang[1], Bing Zhang[1]
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W454 Brain response to pre-attentive facial expressions in male and female youths with conduct disorder
Elizabeth Farrow[1], Jack Rogers[2], Roberta Clanton[3], Rosalind Baker[3], Phillipa Birch[3], Lisandra Ferreira[3], Abigail Brown[3], Graeme Fairchild[4], Christine Freitag[5], Stephane De Brito[1], Ruth Pauli[1]
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W455 Structural and functional connectivity of the anterior cingulate cortex in patients with borderline
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W456 Effects of Highly Purified Cannabidiol (CBD) on fMRI of Working Memory in Epilepsy
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W457 Resting state functional connectivity between brain networks predicts sequence motor learning
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W458 Frequency-dependent competition between task positive and task negative networks in different states
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W459 Human Personality Illegible in Neuroimaging Data
David Tomecek[1,2], Renata Androvicova[1], Iveta Fajnerova[1], Filip Dechterenko[3], Jan Rydlo[1,4], Jiri Horacek[1], Jiri Lukavsky[1,3], Jaroslav Tintera[1,4], Jaroslav Hlinka[5,1]
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W460 Comparing synchrony of brain activity evoked by different video clips via inter-subject correlation
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W461 Acupuncture effects on autonomic regulation are point-specific: a human hypothalamic fMRI study
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W462 Simulation and measurement of the effect of tSNR on fMRI scan duration using clinical multiband EPI
Pim Pullens[1,2], Jasper Degryse[2], Han Bossier[2], Beatrijs Moerkerke[2], Marcel Brass[2], Guy Vingerhoets[2], Eric Achten[2]
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W463 Individual Variability of Functional Connectivity in Resting-State and Naturalistic fMRI Paradigms
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W464 FMRI evidence for broader tuning functions of walking direction signals in older adults
Christoph Koch[1,2], Thad Polk[3,2], Shu-Chen Li[4], Nicolas Schuck[1,2]
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W465 Vascular reactivity measured with high temporal resolution fMRI in hereditary and sporadic CAA
Thijs van Harten[1], Sabine Voigt[1], Emma Koemans[1], Anna van Opstal[1], Sanneke van Rooden[2], Mark van Buchem[1], Gisela Terwindt[1], Jacco Zwanenburg[3], Marianne Walderveen[1], Jeroen van der Grond[2], Marieke Wermer[1], Matthias van Osch[1]
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W466 Interaction of transitivity and meaning during action observation
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W467 Flexible use of emotional resources in resilient emerging adults – An fMRI study
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W468 V1 BOLD fluctuations are influenced by global stimulus properties – A high-resolution fMRI study
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W469 A 3T fMRI study of cognitive-emotion modulation in young subjects with and without psychotic risk
Eleonora Maggioni[1], Maddalena Mauri[2], Marco Garzitto[3], Carolina Bonivento[4], Sara Piccin[3], Gabriele Dossi[1], Filippo Arrigoni[5], Vaibhav Diwadkar[6], Massimo Molteni[2], Maria Nobile[2], Paolo Brambilla[7]
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W470* Notizia dell'AFNI: Even easier FMRI QC, with afni_proc.py's automatic HTML review
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W471 Evaluation of different Simultaneous Multi-slice EPI sequences for Siemens scanners
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W472 Depth dependent attentional modulations observed with high temporal resolution BOLD fMRI at 7T
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W473 Network-based fMRI-neurofeedback training applied to sustained attention
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W474 Thalamic activation patterns associated with phasic alertness are task specific
Miek de Dreu[1], Irena Schouwenaars[1], Geert-Jan Rutten[1], Nick Ramsey[2], Martijn Jansma[1]
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W475 Task-fMRI: pre-whitening and HRF modeling substantially impair specificity and sensitivity
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W476 Motor imagery and visual neurofeedback to activate the swallowing network
Guilherme Wood[1], Doris Grössinger[1], Silvia Kober[1]
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W477* Estimating laminar neuronal response using a hemodynamic model of depth-dependent BOLD signal
Martin Havlicek[1], Sriranga Kashyap[1], Federico De Martino[1], Kamil Uludag[2,3]
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W478 Reward, inhibitory control, and BMI in children 9 and 10 years old: Results from the ABCD study
Shana Adise[1], Bader Chaarani[1], Jennifer Laurent[1], Hannah Loso[1], Nicholas Allgaier[1], Scott Mackey[1], Alexandra Potter[1], Hugh Garavan[1], Julie Dumas[1]
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W479 Evaluating fMRI-Based Estimation of Eye Movements during Naturalistic Viewing
Jake Son[1], Ryan Lim[2], Lei Ai[1], Ting Xu[1], Stanley Colcombe[2], Alexandre Franco[1], Stephen LaConte[3], Jonathan Lisinski[3], Arno Klein[1], Cameron Craddock[4], Michael milham[1]
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W480 Optimized Volume Censoring in Simultaneous Multi-Slice (Multiband) fMRI
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W481 A role for Amygdala-Pallidum pathway in human maternal bonding
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W482 Understanding the Impact of Childhood Cancer on Resting-State Connectivity and Cognition
Janine Spitzhüttl[1,2], Martin Kronbichler[3], Lisa Kronbichler[3], Valentin Benzing[4], Valerie Siegwart[2], Manuela Pastore-Wapp[5], Claus Kiefer[5], Nedelina Slavova[5], Michael Grotzer[6], Claudia Roebers[7], Maja Steinlin[2], Kurt Leibundgut[8], Regula Everts[2]
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W483 Measuring Dynamic Brain Stability with Resting State fMRI
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W484 Differences in Cognition and BOLD Signal Related to Early Stages of Puberty
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W485 The brain's hemodynamic response function rapidly changes under acute psychosocial stress
Immanuel Elbau[1], Benedikt Brücklmeier[2], Manfred Uhr[2], Janine Arloth[2], Darina Czamara[2], Victor Spoormaker[2], Michael Czisch[3], Klaas Enno Stephan[4], Philipp Sämann[2]
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W486 Self-regulation of large-scale network balance using real-time fMRI neurofeedback
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W487 Differential decoding of negative attention bias in depression with fMRI
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W488 Propagation structures along the principal gradient are related to behavioral measures
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W489 The role of the ascending neuromodulator system on large-scale integration and mental effort
Gabriel Wainstein[1], Dag Alnæs[2], Elie Matar[3], Tomas Ossandon[4], Russel Poldrack[5], James Shine[6]
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W490 Multi-echo multiband bold fMRI sequences comparison and optimization
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W491 Evaluation of fMRI data quality metrics
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W492 Fusiform Anatomy and Connectivity Profiles of 3 Social Brain Networks in Autism Spectrum Disorder
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W493 Effects of Sugar on Flavor Nutrient Conditioning in Humans: an fMRI Study
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W494 Task based fMRI and resting state fMRI sequences differentially modulate BOLD signal variability
Daiana Pur[1], George Gainham[2], Nathalie Mella[3], Anik de Ribaupierre[3], Roy Eagleson[4], Sandrine de Ribaupierre[5]
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W495 Common and distinct processes underlying self-regulation of multiple types of negative affect
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W496 Integrative model of coupled spatial and temporal fMRI responses
James Pang[1], Kevin Aquino[2], Peter Robinson[3]
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W497 Neural substrates of human facial emotion processing: evidence from an ALE meta-analysis
Shaoling Peng[1], Xinyu Liang[1], Chenxi Zhao[1], Gaolang Gong[1]
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W498 Dynamics of Functional Connectivity between Homotopic Regions
Yaya Jiang[1], Xinyu Liang[1], Gaolang Gong[1]
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W499 Common Resting State Networks Persist at Frequency bands above 0.1
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W500 Eye selectivity peaks in middle layers of human visual cortex: evidence from 7T fMRI data
Kimberly Weldon[1], Cheryl Olman[1]
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W501 LFP-BOLD coupling across human cortical and sub-cortical regions in naturalistic stimuli
Saurabh Sonkusare[1,2], Johan van der Meer[1], Vinh Thai Nguyen[1], Sasha Dionisio[3], Michael Breakspear[1], Christine Guo[1]
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W502 Effects on fMRI Brain Activation After Neuro Feedback Training of EEG Alpha Rhythm
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W503 Positive affect is inversely related to the salience and emotion network connectivity
Di Qi[1], Tatia Lee[1]
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W504 Quantifying arterial CO2 contributions to systemic low-frequency oscillations in resting-state BOLD
Nicolette Schwarz[1,2], Megan Shevenell[1,2], Michael Rohan[1,2], Blaise Frederick[1,2]
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W505 Integration of color and shape into object takes place in early visual cortex
Xiaoying Wang[1], Yanchao Bi[1]
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W506 Peripheral Nervous System Reconstruction Reroutes Cortical Motor Output—Brain Reorganization
Ahmad Amini[1,2,3], Florian Fischmeister[4], Eva Matt[1,3], Robert Schmidhammer[5], Frank Rattay[2], Roland Beisteiner[1,3]
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W507 Omitting nuisance regressors from dual regression can reduce bias toward reproducing spatial priors
Robert Kelly[1], Matthew Hoptman[2], Martin McKeown[3]
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Multi-Modal Imaging

W508 Longitudinal tau-PET uptake and atrophy in atypical Alzheimer's disease
Irene Sintini[1], Peter Martin[1], Jonathan Graff-Radford[1], Matthew Senjem[1], Christopher Schwarz[1], Mary Machulda[1], Daniel Drubach[1], Val Lowe[1], Clifford Jack[1], Keith Josephs[1], Jennifer Whitwell[1]
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W509 Imaging brain function with simultaneous BOLD and viscoelasticity contrast: fMRI/fMRE
Patricia Lan[1], Kevin Glaser[2], Richard Ehman[2], Gary Glover[1]
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W510 Multimodal Neuroimaging Biosignatures of Perinatally Acquired HIV/early ART in 7-year-old Children
Isaac Khobo[1], Frances Robertson[1,2], Marcin Jankiewicz[1,2], Martha Holmes[1], Francesca Little[1], Mark Cotton[3], Andre van der Kouwe[4,5], Barbara Laughton[3], Emmanuel Nwosu[1], Ernesta Meintjes[1,2], Allison Moreau[6]
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W511 Relating electrical connectivity to fMRI/DTI
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W512 Pharmacological modulation of simultaneously collected resting state EEG and fMRI signals
Anna Forsyth[1], Rebecca McMillan[1], Doug Campbell[2], Doug Campbell[3], Gemma Malpas[3], Elizabeth Maxwell[1], Jamie Sleigh[1], Juergen Dukart[4,5], Joerg Hipp[6], Suresh Muthukumaraswamy[7]
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W513 Integration of multi-modal connectomes to predict individual differences in behaviour and cognition
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W514 A "more" optimal basis set for EEG artifact denoising of EEG-fMRI
Shuoyue Zhang[1], Jürgen Hennig[1], Pierre LeVan[1]
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W515 To what extent do alpha rhythm modulations explain hemodynamic activity in the default mode network?
Marco Marino[1,2,3], Dante Mantini[2,1]
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W516 Comparison of results from simultaneous H2O15-PET and fMRI during galvanic vestibular stimulation
Thomas Stephan[1,2], Frode Willoch[3], Sandra Becker-Bense[1], Matthias Brendel[4], Nathalie Albert[4], Maximilian Habs[1], Igor Yakushev[5], Sibylle Ziegler[4], Michael Herz[5], Markus Schwaiger[5], Marianne Dieterich[1,6,2], Peter Bartenstein[4]
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W517 Brain organization in early adolescence is linked with a physically active lifestyle
Piergiorgio Salvan[1], Thomas Wassenaar[1], Catherine Wheatley[1], Nicholas Beale[2], Daniel Papp[1], Michiel Cottaar[1], Moises Hernandez Fernandez[1], Matteo Bastiani[3], Sean Fitzgibbon[1], Eugene Duff[1], Thomas Nichols[4], Stephen Smith[1], Helen Dawes[2], Heidi Johansen-Berg[1]
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W518 Extreme novelty seeking associated multimodal reward-circuit shared over drinking, ADHD, depression

Shile Qi[1], Jing Sui[2], Victor Vergara[1], Zening Fu[1], Rongtao Jiang[2], Juan Bustillo[3], Rhoshel Lenroot[4], Andrew R. Mayer[1], Armin Iraji[1], Rogers Silva[1], Xiaohong Ma[5], Michael C. Stevens[6], Jingyu Liu[1], Jiayu Chen[1], Dongdong Lin[1], Eswar Damaraju[1], Xiao Yang[5], Congying Chu[7], Mustafa Salman[1], Dongmei Zhi[2], Jessica A. Turner[8], Daniel H. Mathalon[9], Judith M. Ford[9], James Voyvodic[10], Bryon A. Mueller[11], Aysenil Belger[12], Sarah .C McEwen[13], Steven G. Potkin[14], Adrian Preda[14], Gunter Schumann[7], Vince Calhoun[1]
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W519 Evaluation of Source Graphical Model Estimation by means of a simultaneous EEG-ECoG experiment

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W520 Pre-sleep functional connectivity within DMN predicts the ability to reach deep sleep in MRI scanner

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W521 Structural and Functional Connectivity predicts Internalizing Symptoms at age 5 in Preterm Infants

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W522 Parcellations of the pgACC improve prediction of local glutamate from whole-brain connectivity

Louise Martens[1], Nils Kroemer[2], Vanessa Teckentrup[2], Lejla Colic[3,4], Nicola Palomero-Gallagher[5,6], Meng Li[2,1,4], Martin Walter[2,4,3,1]
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W523 Fusion of neurostructural features reflecting training-induced changes in innovative decision-making

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W524 Bimodal functional connectome traits of fused concurrent EEG-fMRI

Jonathan Wirsich[1,2], Enrico Amico[3], Jean-Philippe Ranjeva[4], Maxime Guye[4], Anne-Lise Giraud[5], Joaquín Goñi[3], Sepideh Sadaghiani[1,2]
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W525 Virtual reality bimodal neurofeedback paradigm for fMRI/EEG/MEG/fNIRS (live software presentation)

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W526 A multimodal pattern of callosal microstructure relates to bilateral somatosensory acuity

Alberto Lazari[1], Lennart Verhagen[2], Daniel Papp[1], Piergiorgio Salvan[1], Olof van der Werf[3], Ainslie Johnstone[4], Michiel Cottaar[1], Martina Callaghan[5], Matthew Rushworth[6], Heidi Johansen-Berg[1]
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W527 Post-operative shift of ECoG locations in pediatrics

Bryce Munter[1,2], Ladan Kamalisarvestani[3], Zachary Humphreys[3], Aaron Raber[3], John Kerrigan[1,2], P. David Adelson[1,2,3], Stephen Foldes[1,3,2]
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W528 Fusion analysis of grey matter and white matter in bipolar disorder by multimodal CCA-joint ICA

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W529 Investigating The Relationship Between Cortical Myelination And Oscillatory Dynamics In Vivo

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W530 Glycolysis Coupled with Structural Connectome Reveals Benefit-Risk Balancing in the Human Brain
Yuhan Chen[1], Qixiang Lin[1], Russ Hornbeck[2], Xuhong Liao[1], Lars Couture[2], Marcus Raichle[2], Changsong Zhou[3], Yong He[1]
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W531 Regional cerebral blood flow contributions to the [11C]PBR28 PET signal in chronic pain patients
Stefano Bovo[1,2], Daniel Albrecht[3], Angel Torrado-Carvajal[4], Oluwaseun Johnson-Akeju[5], Robert Edwards[6], Jacob Hooker[4], Vitaly Napadow[4], Alessandra Bertoldo[1], Marco Loggia[4]
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W532 Disruption of Functional and Structural Networks In An Animal Model Of Autism Determined By MRI
Amr Eed[1], M. Isabel Aller[1], Silvia De Santis[1], Santiago Canals[1], Juan Lerma[1]
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W533 Structural-functional integration in the Human Connectome Project sample
Alberto Llera Arenas[1], Thomas Wolfers[2], Roselyne Chauvin[1], Dorothea Floris[2], Peter Mulders[1], Christian Beckmann[1]
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W534 Neural signatures of treatment-induced benefits in apathy and depression amongst people with aphasia
Marcelo Berthier[1], Francisco López-González[2], Lisa Edelkraut[3], Nuria Roé-Vellvé[4], Diana López-Barroso[5], Bettina Mohr[6], Friedmann Pulvermüller[7], Sergio Starkstein[8], Francisco Alfaro[9], Dávila Guadalupe[1], María José Torres-Prioris[10]
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W535* BrainX3: A Tool for Multi-Modal Data Integration and Visualization
Antoni Gurgui[1], Xerxes Arsiwalla[1], Riccardo Zucca[1], Daniel Pacheco[1], Pedro Omedas[1], Paul Verschure[1,2]
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W536 Longitudinal assessment of relaxation rates during formalin fixation across human-brain fiber tracts
Tobias Streubel[1], Herbert Mushumba[2], Sebastian Papazoglou[3], Klaus Püschel[2], Siawoosh Mohammadi[1]
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W537 Assessing data quality during simultaneous EEG-fMRI recording
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W538 Divergent modulations across brain hierarchy feature neuroimaging covariation of behavioral measures
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W539 Multi-modal 7T imaging of the Locus Coeruleus in healthy older adults
Catarina Rua[1], Claire O'Callaghan[2], Luca Passamonti[3], Simon Jones[4], Kamen Tsvetanov[5], Rong Ye[6], James Rowe[3], Adrian Carpenter[1], Christopher Rodgers[1], Guy Williams[1]
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W540 Multimodal Integration of MEG Connectivity and MR Diffusion Data Using Multilayer Network Analyses
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W541 Yale XNAT: HPC Computing Scheduler & Container Integrated Multimodal Analytic Platform
Zailyn Tamayo[1], Kaylea Nelson[1], Charles Wright[1], Jie Lisa Ji[2], John Kyrstal[1], John Murray[1], Christopher Pittenger[1], Brian Holt[3], Timothy Olsen[3], Mohana Ramaratnam3[3], Daniel Marcus[4], Alan Anticevic[1]
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W542 Functional correlation between mesolimbic network & dopamine transporter density: An fMRI-PET study
Michihiko Koeda[1], Sho Ozawa[2], Tomoko Hama[1], Hiroki Moriya[1], Kakeshi Sakayori[1], Amane Tateno[1], Yoshiro Okubo[1]
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INFORMATICS

Brain Atlases

W543 An extended MSM surface registration pipeline to bridge atlases across the MNI and the FS/HCP worlds
Lindsay Lewis[1], Claude Lepage[1], Alan Evans[1]
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W544 Diffusion Tensor Imaging White Matter Atlas for the Domestic Feline Brain
Erica Barry[1], Philippa Johnson[2], Wenming Luh[3], Ashish Raj[4], Sofia Cerda-Gonzalez[5]
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W545* The MNI-NOEL 3D Myeloarchitectonic atlas of the human cerebral cortex
Seok-Jun Hong[1], Seles Yung[1], Hyo Lee[1], Fatemeh Fadaie[1], Ravnoor Gill[1], Neda Bernasconi[1], Andrea Bernasconi[1]
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W546 Functional segrations of human middle temporal gyrus
Jinping Xu[1], Qingmao Hu[1]
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W547 Consensual Atlas of REsting-state Networks: Reconciling differences in brain functional atlases
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W548 IIT Human Brain Atlas: Enhancement and Evaluation of White Matter Connectome
Xiaoxiao Qi[1], Shengwei Zhang[1], Konstantinos Arfanakis[1]
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W549 Unbiased Age-Specific Structural Brain Atlases for Chinese Pediatric Population
Tengda Zhao[1], Xuhong Liao[2], Vladimir Fonov[3], Qiushi Wang[1], Weiwei Men[4], Yanpei Wang[1], Shaozheng Qin[1], Shuping Tan[5], Jia-Hong Gao[4], Alan Evans[3], Sha Tao[1], Qi Dong[1], Yong He[1]
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W550 Systematic evaluation of structural T1-weighted brain templates for use in studies on older adults
Abdur Raquib Ridwan[1], Shengwei Zhang[1], Mohammad Rakeen Niaz[1], Xiaoxiao Qi[1], David A. Bennett[2], Yongyi Yang[1], Konstantinos Arfanakis[1]
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W551 A high-resolution structural template for studies in older adults: Development and Evaluation
Mohammad Rakeen Niaz[1], Abdur Raquib Ridwan[1], Xiaoxiao Qi[1], David A. Bennett[2], Konstantinos Arfanakis[1]
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W552 Notizia dell'AFNI! AFNI now makes templates from your subjects easily!
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W553 Inference of an extended short fiber bundle atlas and white matter organization
Nicole Labra Avila[1], Jessica Lebenberg[2], Denis Rivière[3], Guillaume Auzias[4], Clara Fischer[3], Fabrice Poupon[5], Pamela Guevara[6], Cyril Poupon[3], Jean-François Mangin[3]
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W554 The Mayo Clinic Adult Lifespan Template (MCALT): Segmentations and Atlases for Older Adult Brains
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W555 Development of multimodal templates of the older adult brain: T1w and DTI in common space
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W556 Local optimal transport for functional brain template estimation
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W557 In-vivo probabilistic structural atlas of human parabrachial and vestibular nuclei complex at 7Tesla
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W558 Anatomical fiducials for quantifying template creation convergence: application to a 7T dataset
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W559 A Population MRI-Based Atlas of the cynomolgus macaque
Qiming Lv[1], Xiangyu Shen[1], Mingchao Yan[1], Shengyao Yan[1], WenWen Yu[1], Kristina Zeljic[1], Zheng Wang[1]
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W560 Comparison between cytoarchitectonic and MRI based parcellation of the human auditory cortex
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W561 A probabilistic atlas of the human ventral tegmental area
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W562 A revised toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data
Simon B. Eickhoff[1], Svenja Caspers[2], Guillaume Flandin[3], Martina Minnerop[4], Claudia R. Eickhoff[5], Timo Dickscheid[1], Peter Pieperhoff[1], Hartmut Mohlberg[1], Karl Zilles[1], Katrin Amunts[1]
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W563 Construction of Volume-Surface Consistent Templates for Infant Brain MRI
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W564 Superficial white matter dMRI analysis: where are we now?
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W565 A React-based Neuroimaging Visualisation Library for the Web
Armin Taheri[1], Najmeh Khalili-Mahani[2], Christine Rogers[3], Cecile Madjar[4], Gregory Kiar[5], PJ Toussaint[2], Candice Czech[2], Natacha Beck[5], Lindsay Lewis[6], Carolina Makowski[2], Samir Das[2], Reza Adalat[2], Shawn Brown[5], Alan Evans[7]
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W566 Assessing multisite reproducibility of parcellation methods using traveling subjects
Giuseppe Lisi[1], Ayumu Yamashita[1], Noriaki Yahata[2], Takashi Itahashi[3], Takashi Yamada[1], Naho Ichikawa[4], Masahiro Takamura[4], Yujiro Yoshihara[5], Akira Kunimatsu[6], Naohiro Okada[7], Hirotaka Yamagata[8], Koji Matsuo[9], Ryu-ichiro Hashimoto[10], Go Okada[4], Yuki Sakai[11], Jin Narumoto[11], Yasuhiro Shimada[12], Kiyoto Kasai[7], Nobumasa Kato[10], Hidehiko Takahashi[5], Yasumasa Okamoto[4], Saori Tanaka[1], Okito Yamashita[1], Hiroshi Imamizu[13], Mitsuo Kawato[1], Jun Morimoto[1]
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W567 Brain areas associated with basic mathematical operations
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W568 Human Adolescent Brainnetome Atlas: A New Version for 9 years Old Children
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W569 Individualized connectivity-based parcellation of the human brain with diffusion tensor imaging
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W570 High-dimensional dictionary learning on massive fMRI data: multi-scale functional atlases
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W571 TemplateFlow: a 4D standard space of neuroimaging standard spaces
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W572* Mechanical Properties of the Human Brain: Development of an MR Elastography Template
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W573 The Application of Human Brainnetome Atlas in Mental Disorder focus on Insula
Jie Tang[1], Tianzi Jiang[2], Lingzhong Fan[3], Kristoffer Madsen[4], Yongfeng Yang[5], Simon B. Eickhoff[6]
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Databasing and Data Sharing

W574 Open research: linking the bits and pieces with OpenAIRE-connect
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W575 The best of both worlds: using semantic web with JSON-LD. An example with NIDM-Results & Datalad

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W576 A large open-source dataset of acute stroke MRIs and related automated lesion segmentation algorithm

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W577 Introducing a Brain MRI and Cognitive Dataset: Iranian Brain Imaging Database

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W578 A new repository to share Brain Tumour data: European Network for Brain Imaging of Tumours

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W579 Quantity and Quality: Normative Open-Access Neuroimaging Databases

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W580 Harmonising white matter hyperintensities measures across studies: impact of BIANCA training options

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W581* BIDScoin: an easy toolkit to convert your data according to the Brains Imaging Data Standard (BIDS)

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W582* Detecting and harmonizing scanner differences in the ABCD study

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W583 Sharing and visualization of BIDS electrophysiology data via the LORIS multi-modal platform

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W584 The Canadian Open Neuroscience Platform (CONP) Ethics & Governance Framework

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W585 Functional specialization in human cognition: a large-scale neuroimaging initiative

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W586 Distributions of image quality metrics in MRIQC Web-API

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W587 Constructing an Ontology of Neuroscience Experiments for the Neuroimaging Data Model (NIDM)

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W588* One thing to bind them all: A complete RAW data structure for auto-generation of BIDS datasets

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W589 R3BRAIN: an open brain imaging resources for reliability, reproducibility and replicability

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W590 Federated Learning in Distributed Databases: Meta-Analysis of Large-Scale Subcortical Brain Data
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W591 SweetData: a versatile open-source tool for lab data management and validation
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W592* Orchestrating cloud networks for discoverable, accessible, interoperable, and reusable neuroscience
Soichi Hayashi[1], Lindsey Kitchell[2], Brent McPherson[1], Bradley Caron[3], Daniel Bullock[4], Paolo Avesani[5], Robert Henschel[6], Eleftherios Garyfallidis[2], Lei Wang[7], Ivo Dinov[8], Franco Pestilli[6]
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W593 Open Science Identifier
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W594 The LORIS Open-Science Biobank Module: An Integrative Approach to Digital Biorepositories
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W595 NIH Funded NITRC's Triad of Services: Software, Data, Compute
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Informatics Other

W596* PyParadigm - A Python library to create paradigms
Felix Knorr[1], Johannes Petzold[1], Michael Marxen[1]
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W597* Nideconv: a Python package for hierarchical, Bayesian linear deconvolution of neural signals
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W598 An open source GUI toolbox for EEG-fMRI fusion analysis
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W599* Neuroscout: a cloud-based platform for flexible re-analysis of naturalistic fMRI datasets
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W600* Mask_explorer and movement_info: User friendly tools for fMRI quality control
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W601 Tools for FAIR Neuroimaging Experiment Metadata Annotation with NIDM Experiment
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W602 NiMARE: Neuroimaging Meta-Analysis Research Environment
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W603 Connectome consistency: how reliable is my connectome based analysis in structure and function?
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W604 Fantastic containers and how to tame them
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W605 From reproducible to reusable—lessons for neuroscience from data science
Elizabeth DuPre[1], Jean-Baptiste Poline[1]
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W606* SwipesForScience: An open source gamified citizen science framework for scalable data annotation
Anisha Keshavan[1], Jason Yeatman[1], Ariel Rokem[1]
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W607* The UK Biobank Data Parser: a tool with built in and customizable filters for brain studies
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W608 MNAP: Multimodal Neuroimaging Analysis Platform for Flexible, Extensible and Rapid Analyses
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W609* Visbrain: A multi-purpose GPU-accelerated open-source suite for multimodal brain data visualization
Etienne Combrisson[1], Raphael Vallat[2], Christian O'Reilly[3], Mainak Jas[4], Annalisa Pascarella[5], Anne-Lise Saive[1], Thomas Thiery[1], David Meunier[6], Dmitrii Altukhov[7], Tarek Lajnef[8], Perrine Ruby[2], Aymeric Guillot[9], Karim Jerbi[10]
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Workflows

W610 MRtrix3_connectome: A BIDS Application for quantitative structural connectome construction
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W611 Development of Population-specific Brain Atlas with High-throughput High-performance Computing
Yukai Zou[1], Wenbin Zhu[1], Ho-Ching Yang[1], Yu Zhu[1], Yunjie Tong[1], Thomas Talavage[1], Joseph Rispoli[1]
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W612* Neuroimaging PheWAS: a free cloud computing platform for big brain-wide imaging association studies
Lu Zhao[1,2], Ishaan Batta[1,2], Caroline O'Driscoll[1], Samuel Hobel[1], Hosung Kim[1], Arthur Toga[1]
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W613* Interactive Tool for Visual Quality Control of Cortical Parcellations
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W614 Easier and More Accurate Quality Control Workflow for FreeSurfer Parcellations via VisualQC
Pradeep Reddy Raamana[1], Athena Theyers[2], Stephen Arnott[2], Stefanie Hassel[3], Joel Ramirez[4], Jacqueline Harris[3], Mojdeh Zamyadi[5], Raymond Lam[6], Roumen Milev[7], Daniel Mueller[8], Susan Rotzinger[9], Sidney Kennedy[9], Sandra Black[4], Anthony Lang[10], Robert Bartha[11], Glenda McQueen[3], CAN-BIND Investigator Team[12], The ONDRI Study[13], Stephen Strother[14]
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W615* A FAIR Approach to Neuroimaging Analysis with Boutiques
Gregory Kiar[1], Erin Benderoff[2], Jerome Charriere[2], Simon Dube[2], Louis-Olivier Guerin[2], Axel Bonnet[3], Sorina Camarasu Pop[3], Natacha Beck[1], Pierre Rioux[1], Serge Boroday[1], Jean-Baptiste Poline[1], Shawn Brown[1], Tristan Glatard[2], Alan Evans[1]
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W616 Multi-Scale Brain Parcellator: a BIDS App for the Lausanne Connectome Parcellation
Sebastien Tourbier[1], Yasser Alemán-Gómez[1], Alessandra Griffa[2], Patric Hagmann[1]
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W617 A computational pipeline for MRI-informed 3D histology of the human brain
Matteo Mancini[1], Shauna Crampsie[2], David Thomas[3,4], Zane Jaunmuktane[2], Janice Holton[2], Juan Eugenio Iglesias[1,5]
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W618* GiraffeTools: a web application for interactive data analysis
Tim van Mourik[1]
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W619 New advances in the Clinica software platform for clinical neuroimaging studies
Alexandre Routier[1], Arnaud Marcoux[1], Mauricio Diaz Melo[2], Jérémy Guillon[1], Jorge Samper-González[1], Junhao Wen[1], Simona Bottani[1], Alexis Guyot[1], Elina Thibeau--Sutre[1], Marc Teichmann[3,4], Marie-Odile Habert[5,6,7], Stanley Durrleman[1], Ninon Burgos[1], Olivier Colliot[1]
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W620* Notizia dell'AFNI: Meet afni_proc.py–Your New Best Friend
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W621* FitLins: Reproducible model estimation for fMRI
Christopher Markiewicz[1], Alejandro De La Vega[2], Tal Yarkoni[2], Russell Poldrack[1], Krzysztof Gorgolewski[1]
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W622 Analysing Neuroimaging Experiments within the R environment for Statistical Computing and Graphics
Joerg Polzehl[1], Karsten Tabelow[1]
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W623 Making network neuroscience more findable, accessible, interoperable, and reusable via brainlife.io
Brent McPherson[1], Dan Bullock[1], Bradley Caron[1], Lindsey Kitchell[1], Soichi Hayashi[1], Josh Faskowitz[1], Olaf Sporns[1], Richard Betzel[1], Paolo Avesani[2], Franco Pestilli[1]
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W624* DMRIprep: a Robust, Scalable Preprocessing Pipeline for diffusion MRI
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W625 A Layered Shader Framework for Simultaneous GPU-Based Compute and Visualization of Neuroimaging Data
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W626 GRETNA 2.0.0 and BrainNet Viewer 1.63: Toolkits for Brain Network Analysis and Visualization
Mingrui Xia[1], Jinhui Wang[2], Xindi Wang[3], Xuhong Liao[1], Jin Liu[1], Hao Wang[4], Alan Evans[3], Yong He[1]
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W627* Biomedical imaging ANAlysis iN Arcana (Banana): collaborative development of analysis workflows
Thomas Close[1,2], Francesco Sforazzini[1], Phillip Ward[1,3,4], Zhaolin Chen[1,5], Gary Egan[1,3,4]
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W628 LAB–QA2GO: A free, easy-to-use toolbox for the quality assessment of magnetic resonance imaging data
Christoph Vogelbacher[1,2], Miriam H. A. Bopp[1,2,3], Verena Schuster[1], Peer Herholz[4,5,6], Andreas Jansen[7,2,1], Jens Sommer[7,2]
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W629* Advancements in the CBRAIN platform through the integration of community-based tools and standards
Shawn Brown[1], Pierre Rioux[2], Natacha Beck[2], Najmeh Khalili-Mahani[2], Candice Czech[2], Armin Taheri[3], Serge Boroday[2], Gregory Kiar[2], Xavier Lecours-Boucher[2], Carolina Makowski[2], Jean-Baptiste Poline[2], Reza Adalat[2], Tristan Glatard[4], Samir Das[2], Alan Evans[2]
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W630 White Matter Mapping on brainlife.io: A Findable, Accessible, Interoperable, Reusable Implementation
Daniel Bullock[1], Soichi Hayashi[1], Lindsey Kitchell[1], Brent McPherson[1], Bradley Caron[1], Franco Pestilli[1]
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W631 ChRIS: An Opensource Containerized Service for Pipelining Clinical and Research Computation
Rudolph Pienaar[1,2], Jorge Bernal-Rusiel[1], P. Ellen Grant[3], Daniel McPherson[4], Ravisantosh Gudimetla[4], Ata Turk[5], Orran Krieger[6]
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W632 Understanding and mitigating the impact of preprocessing pipelines on neuroimaging analyses
Nikhil Bhagwat[1], Amadou Barry[2], Erin Dickie[3], Shawn Brown[4], Celia Greenwood[2], Bratislav Mišic[5], David Kennedy[6], Jean-Baptiste Poline[2]
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W633 Visualizations as Scaffolds for Expertise: Learning from fMRIPrep's Visual Reports
Jessey Wright[1]
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W634* FMRIflows: a consortium of fully automatic univariate and multivariate fMRI processing pipelines
Michael Notter[1], Peer Herholz[2], Omer Faruk Gulban[3], Ayse Ilkay Isik[4], Sandra Da Costa[5], Micah Murray[6]
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W635 Distributed, Reproducible and High-throughput Neuro-analytic Protocols and Services
Rich Gonzalez[1], Ivo Dinov[1], Franco Pestilli[2], Vineet Raichur[1], John Marcotte[1], Dhabaleswar Panda[3], Xiaoyi Lu[3], Hari Subramoni[3], Shashank Gugnani[3], Satya Sahoo[4], Lei Wang[5], Arthur Gershon[4], Olaf Sporns[2], Andrew Saykin[6], Valentin Pentchev[2], Benjamin Serrette[2], Daniel Marcus[7]
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W636 DPABISurf: A Surface-Based Resting-State fMRI Data Analysis Toolbox
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W637 The ERICA toolbox for event-related independent component analysis
David Abbott[1,2], Amir Omidvarnia[1,2], Chris Tailby[1], Graeme Jackson[1,2]
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W638 NAMNIs: Neuromodulation And Multimodal NeuroImaging scripts
Temmuz Karali[1], Valerie Kirsch[2], Birgit Ertl-Wagner[1], Stephan Goerigk[3], Frank Padberg[1], Daniel Keeser[4]
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LEARNING AND MEMORY

Implicit Memory

W639 Functional magnetic resonance imaging of implicit associative learning in spinocerebellar ataxia
Cigdem Ulasoglu-Yildiz[1,2], Kardelen Eryurek[1,2], Asli Demirtas-Tatlidede[3], Basar Bilgic[3], Hasmet Hanagasi[3], Tamer Demiralp[1,4], Hakan Gürvit[3]
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W640 Event Related Potentials of cross-modal sensory predictions during task-irrelevant stimuli
Antonino Greco[1], Giuseppe Gallitto[1], Andrea Caria[1]
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Learning and Memory Other

W641 Get real: the orbitofrontal cortex mediates pre-teens' sense of reality
Lorena Freitas[1], Maria Chiara Liverani[2], Vanessa Siffredi[2], Jiske de Albuquerque[2], Russia Leuchter[2], Armin Schnider[2], Petra Hüppi[2], Dimitri Van De Ville[1]
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W642 Effect of stress on the neural correlates of motor sequence memory acquisition and consolidation
Nina Dolfen[1,2], Brad King[1,2], Mareike Gann[1,2], Menno Veldman[1,2], Andreas von Leupoldt[3,2], Stephan Swinnen[1,2], Lars Schwabe[4], Genevieve Albouy[1,2]
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W643 Shared Structure in Neural Activity during Learning and Test Predicts College Course Performance
Meir Meshulam[1], Liat Hasenfratz[2], Hanna Hillman[2], Yun-Fei Liu[2], Kenneth Norman[3], Uri Hasson[2]
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W644 Examination of learning through feedback in MS
Sophia Lall[1], Joshua Sandry[1], Angela Spirou[2], Ekaterina Dobryakova[2]
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W645 Properties of Theta Rhythm in the Human Medial Temporal Lobe during Ambulatory Virtual Navigation
Zahra M. Aghajan[1], Diane Villaroman[1], Sonja Hiller[1], Tyler Wishard[1], Nader Shaterian[2], Nicholas Hasulak[3], Barbara Knowlton[1], Dawn Eliashiv[1], Itzhak Fried[1,4], Nanthia Suthana[1]
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W646 The neural correlates underlying the fading affect bias
Kentaro Oba[1,2], Yuri Terasawa[3,2], Yuki Motomura[4,2], Yoshiya Moriguchi[2], Kazuo Mishima[5,2]
[1]Tohoku University, Sendai, Japan, [2]National Center of Neurology and Psychiatry, Kodaira, Japan, [3]Keio University, Tokyo, Japan, [4]Kyushu University, Fukuoka, Japan, [5]Akita University, Akita, Japan

W647 Cerebellar involvement in prediction error processing - a 7T fMRI study on fear conditioning
Thomas Ernst[1], Anna Brol[2], Stefan Maderwald[3], Marcel Gratz[3], Christoph Mönninghoff[4], Dagmar Timmann-Braun[1]
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W648 Identification of memory replay during sleep using EEG-based graph metrics
Lorena Santamaria[1], Anne Koopman[1], Mahmoud Abdelhafez[1], Penelope Lewis[1]
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W649 Response to co-careldopa is mediated by co-careldopa induced change in reinforcement learning bias
Paul Knytl[1]
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W650 Brain Networks Underlying Sex and Pedagogy Differences in Physics Learning
Jessica Bartley[1], Michael Riedel[1], Taylor Salo[2], Katherine Bottenhorn[2], Elsa Bravo[2], Rosalie Odean[3], Alina Nazareth[4], Robert Laird[1], Matthew Sutherland[2], Shannon Pruden[2], Eric Brewe[5], Angela Laird[1]
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W651 Within-subject fMRI analyses of the successful retrieval effect in recognition memory
Evan Layher[1], Laura Pritschet[1], Tyler Santander[1], Caitlin Taylor[1], Shuying Yu[1], Scott Grafton[1], Emily Jacobs[1], Michael Miller[1]
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W652 Effects of basic emotions and congruency on associative memory – eye-tracking and fMRI study
Monika Riegel[1,2], Małgorzata Wierzba[3], Marek Wypych[3], Michał Szczepanik[3], Katarzyna Jednoróg[4], Patrik Vuilleumier[5], Artur Marchewka[3]
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Long-Term Memory (Episodic and Semantic)

W653 Enhancement of episodic autobiographical memory by bodily-self cues
Lucie Bréchet[1,2,3], Sébastien Hausmann[1,2], Robin Mange[1,2], Bruno Herbelin[1,2], Andrea Serino[1,2,4], Olaf Blanke[1,2,5]
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W654 Model-based MRI reveals abstract concept representations in medial prefrontal cortex and hippocampus
Caitlin Bowman[1], Dagmar Zeithamova[1]
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W655 In search of my past: Effective connectivity during autobiographical memory search
N. Eiji Nawa[1], Hiroshi Ando[1]
[1]NICT, Suita, Japan

W656 Anterior and posterior hippocampus connectivity with memory specificity and generalization regions
Dasa Zeithamova[1], Lea Frank[1], Caitlin Bowman[1]
[1]University of Oregon, Eugene, OR, United States

W657 The neural basis of the beneficial effects of recall before recognition
Bi Zhu[1], Xuhao Shao[1]
[1]Beijing Normal University, Beijing, China

W658 Task-dependent recruitment of modality-specific and multimodal regions during conceptual processing
Philipp Kuhnke[1], Markus Kiefer[2], Gesa Hartwigsen[1]
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W659 Encoding-retrieval similarity of neural correlates for vivid memories in young and older adults
Christine Bastin[1], Mohamed Ali Bahri[1], Emma Delhaye[1], Eric Salmon[1], Arnaud D'Argembeau[1], Adrien Folville[1]
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W660 Association between Memory Aging and Changes in White Matter Networks
Xuwen He[1], Yaojing Chen[1], Jialing Fan[1], Zhanjun Zhang[1]
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W661 An fMRI Investigation of Expectation Effects on Episodic Memory
Darya Frank[1], Alex Kafkas[1], Daniela Montaldi[1]
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W662 Decoding narrative contents from fMRI responses by incorporating causally related previous events
Hayoung Song[1,2], Hyeseon Ko[2], Jongwuk Lee[2], Won Mok Shim[1,2]
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W663 Functional Brain Correlates of Emotional and Social Memory
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W664 Exploring the contribution of the default mode network to the integration of conceptual information
Lucilla Lanzoni[1], Daniela Ravasio[2], Hannah Thompson[3], Deniz Vatansever[4], Daniel Margulies[5], Jonathan Smallwood[1], Elizabeth Jefferies[1]
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W665 The medial temporal lobe's role in recognition memory: Neuroimaging and neuropsychological evidence
Alex Kafkas[1], Daniel Cox[1], Penny Cristinacce[1], Ellen Migo[2], Laura Marsh[2], Robin Morris[2], Michael Kopelman[2], Andrew Mayes[1], Daniela Montaldi[1]
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W666 An ERP Investigation into the Effects of Masked Repetition Priming on Recognition Memory
Carmen Ionita[1], Deborah Talmi[1], Jason Taylor[1]
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W667 Direct Comparison of Brain Activity Related to Semantic and Episodic Memory
Deniz Vatansever[1,2], Jonathan Smallwood[2], Elizabeth Jefferies[2]
[1]Fudan University, Shanghai, China, [2]University of York, York, United Kingdom

W668 Hippocampal sharp wave ripples linked to the content of visual episodic recollection in humans
Yitzhak Norman[1], Erin Yeagle[2], Simon Khuvis[2], Michal Harel[1], Ashesh Mehta[2], Rafael Malach[1]
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W669* Navigating a semantic space with a distance and a direction code in the human brain
Simone Viganò[1], Manuela Piazza[1]
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W670* Neurochemical modulation in the anterior temporal lobe: a combined MRS, fMRI and TMS approach
JeYoung Jung[1], Stephen Williams[2], Matthew Lambon Ralph[3]
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W671 Durable memory using the method of loci is linked to efficient neural coding
Isabella Wagner[1], Boris Konrad[2], Guillen Fernandez[2], Martin Dresler[2]
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W672 Longitudinal measurement of brain networks related to adolescent development of memory abilities
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W673 Locus coeruleus and parasympathetic network interactions revealed with fMRI at 7T during memory
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W674 Viewing one's body modulates hippocampal connectivity and neural predictors of episodic memory
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W675 Our Inner-Speech Language interacts with Our Reality Tag in the Episodic Hippocampal System
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W676 A lifespan approach to connectivity changes during associative encoding tasks
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W677 Behavioural and Neural evidence for Context Dependence theory in Retrieval Induced Forgetting
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W678 The precuneus constitutes a core structure in a neocortical visuo-spatial memory network
Björn Schott[1,2], Torsten Wüstenberg[3], Eva Lücke[4], Ina-Maria Pohl[5], Anni Richter[1], Constanze Seidenbecher[1], Stefan Pollmann[5], Jasmin Kizilirmak[6], Alan Richardson-Klavehn[7]
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W679 Neural modulation of the Testing Effect via test-potentiated encoding with feedback
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W680 Longitudinal Evidence for Reduced Hemispheric Encoding/Retrieval Asymmetry in Aging
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W681 Age - related dynamic of episodic memory neural correlates evidence from a naturalistic memory task
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W682 Dynamics of oscillatory activity in parietal cortex during memory-based decisions
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W683 The role of the medial temporal lobe in context-dependent memory retrieval
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W684 Immediate and Long-Term Impact of Focused Attention: An fMRI study
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W685 Distinct oscillatory iEEG patterns predict episodic odor memory richness at encoding and retrieval
Anne-Lise Saive[1,2], Thomas Thiery[1], Etienne Combrisson[1], Jean-Pierre Royet[2], Samuel Garcia[2], Sylvain Rheims[3], Jean Isnard[3], Jane Plailly[2], Nadine Ravel[2], Karim Jerbi[1]
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W686 Common recognition memory effects across stimuli encoded via attention search and capture
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W687 Brain activity during unconstrained future and past thinking and its modulation by TMS
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Neural Plasticity and Recovery of Function

W688 Functional and structural plasticity in one hour: a neurofeedback by fMRI study
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W689 The deaf graph: Structural brain networking in auditory deprivation
Francesca Saviola[1], Lisa Novello[1], Chiara Maffei[2], Stefania Benetti[1,3], Ceren Battal[1,3], Stefania Mattioni[3], Olivier Collignon[1,3], Jorge Jovicich[1]
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W690 Enhancing Declarative Memory in Older Adults Via Image-Guided Excitatory Theta Burst TMS
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W691* Pulses of spontaneous activity drive functional connectivity changes in disused brain networks
Dillan Newbold[1], Timothy Laumann[2], Catherine Hoyt[1], Derek Miller[1], Jacqueline Hampton[1], Mario Ortega[3], Annie Nguyen[4], Ashley Nielsen[1], Deanna Greene[5], Steven Petersen[2], Abraham Snyder[2], Nico Dosenbach[2]
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W692 Abacus Training-induced Reallocation of Sustained and Transient Activity in frontal-parietal network
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W693 Detection of Motor Learning Related Neuroplasticity through fMRI monitoring
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W694 Rapid brain microstructural changes during visuomotor adaptation
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W695 Modulation of neural activity patterns and functional network properties for motor imagery
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W696 Brain activity in input-deprived visual cortex in glaucoma – (no) fMRI-evidence of plasticity?
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W697 Reversible hippocampal & white matter damage reveal neuroplastic recovery from NMDAR encephalitis
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W698 Properties of language recruitment in the congenitally deprived visual network
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W699 Changes in functional connectivity induced by a long-term working memory training
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W700 Hippocampal change during memory training predicts memory function after 3 years in older adults
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W701 Stroke induced damage leads to localized de-differentiation of neural representations
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W702 Pregnancy and adolescence entail similar neuroanatomical adaptations

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W703 Effects of second language learning on the plastic aging brain: connectivity and cognition changes

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W704 Real-time fMRI neurofeedback training for chronic tinnitus (NeuroTin)

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W705 Compensatory plasticity within the language networks in Aphasia

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W706 Neuroplasticity related to immobilization and virtual reality training

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W707 Imaging mechanisms of brain plasticity underlying the early stages of functional recovery in MS

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W708* Reorganization in cerebral and cerebellar cortices is not restricted by somatotopy

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W709 Radical reorganization of brain networks supports typical development following bilateral perinatal

Timothy Laumann[1], Mario Ortega[2], Catherine Hoyt[3], Jacqueline Hampton[3], Donna Dierker[4], Rebecca Coalson[5], Babatunde Adeyemo[5], Adrian Gilmore[6], Joshua Shimony[7], Deanna Greene[8], Steven Nelson[9], Abraham Snyder[1], Steven Petersen[1], Bradley Schlaggar[10], Nico Dosenbach[1]
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W710 Peripherally representing portions of V1 are more efficient with long-term use of peripheral vision

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W711 AMC Training-induced Structural Plasticity in Hippocampus Predicts Long-term Gains in Math Ability

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Skill Learning

W712 Variation of Sensorimotor Cortex Activity during Motor Practice Facilitates the Skill Retention

Mitsuaki Takemi[1,2], Akito Kosugi[3], Yuta Sato[3,4], Takahiro Kondo[5], Hideyuki Okano[4,5], Junichi Ushiba[3,6], Hartwig Siebner[7], Daichi Nozaki[1]
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W713 Cerebellar tDCS enhances motor learning through altered striatal-cerebellar connectivity
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W714 The neural correlates of Programming language
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W715 GM longitudinal changes during training to tap in synchrony to a metronome in the Rhesus monkey
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W716 Effects of Motor Learning and tDCS on Sensorimotor GABA Levels in Older Adults
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W717 Highly dynamic changes of white matter microstructure indices after three-weeks unicycling training
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W718 Lateralized pattern of functional efficiency in early and late visuomotor sequence learning
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W719 The Role of fMRI-Neurofeedback and Strategy in Regulating the Amygdala
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W720 Adopting relevant concepts in computer programming
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W721 White matter tract changes following voice treatment in patients with hypokinetic dysarthria
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W722 EEG correlates of motor adaptation in stroke
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Working Memory

W723 Working memory task anticipation and task performance in depressed individuals and healthy controls
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W724 Aberrant organization of working memory network in 7.5-year-old children born extremely preterm
Maksym Tokariev[1,2], Virve Vuontela[1,2], Piia Lönnberg[3], Aulikki Lano[3], Jaana Perkola[3], Elina Wolford[2], Sture Andersson[3], Marjo Metsäranta[3], Synnöve Carlson[1,2]
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W725 Neural Correlates for Temporal Context in Verbal Working Memory: A Neuropsychological Study
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W726 Interactions between bottom-up and top-down attention during working memory encoding: a fMRI study
Mishal Qubad[1], Catherine Barnes-Scheufler[2], Lara Roesler[3], Michael Schaum[4], Benjamin Peters[4], Michael Wibral[4], Andreas Reif[1], Robert Bittner[1]
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W727 Theta and alpha oscillatory activity reflect early working memory impairments in Multiple Sclerosis
Alejandra Figueroa[1], Rodrigo Henríquez[2], Francisco Zamorano[1], Francisco Aboitiz[2], Claudia Carcamo[2], Ethel Ciampi[2], Macarena Vasquez[2], Pablo Billeke[1]
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W728 Theta:Gamma Phase Coupling Is Associated with the Fidelity of Mental Templates in Visual Perception
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W729 The Effects of Adaptive Visual-spatial Span Training
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W730 Persistent hippocampal neural firing and hippocampal-cortical coupling predict working memory load
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W731 Neural Correlates of Improved Working Memory by Volitional Breathing
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W732* Cross-task Evidence for Language Recruiting an Episodic Buffer located in the Visual Word Form Area
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W733 Sustained and transient gray matter volume changes after n-back training
Anna Miró-Padilla[1], Elisenda Bueichekú[1], Lidon Marin-Marin[1], Esteban Villar-Rodríguez[1], Cesar Avila[1]
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W734* Layer-dependent activity in human prefrontal cortex during working memory
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W735 Does brain functional connectome predict working memory of children?
Han Zhang[1], Annie Lee[1], Diliana Pecheva[1], Joann Poh[1], Shirong Cai[2], Michael Meaney[2], Yap-Seng Chong[2], Birit Broekman[2], Marielle Fortier[3], Anqi Qiu[1]
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W736 Working memory load-dependent changes in brain activity during the N-back task
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W737 Dissociating the causal roles of frontal and parietal cortex in working memory: A Registered Report
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W738 Representations of position in spatial working memory
Nina Purg[1], Julian Möhlen[2], Martina Starc[1], Aleksij Kraljič[1], Andraž Matkovič[1,3], Anka Slana Ozimič[1], Grega Repovš[1]
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W739 Extracting functional network structures using low-rank matrix factorization-based matrix clustering
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W740 Retrospective Searching for Feature Binding from within Visual Working Memory Representations
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W741 MEMAT, a new paradigm to study MEmory and ATtention processes during sound sequence encoding
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W742 Functional reorganization for visuo-spatial working memory in the STC of deaf individuals
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W743 Fronto-parietal effective connectivity during performance calibrated working memory
Dario Schöbi[1], Jolanda Malamud[2], Sara Tomiello[1], Jakob Heinzle[1], Klaas Enno Stephan[1,2,3], Sandra Iglesias[1]
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W744 Early competition of bottom-up and top-down attention during working memory encoding: an MEG study
Anna Müller[1], Michael Schaum[2], Catherine Barnes-Scheufler[3], Mishal Qubad[4], Benjamin Peters[5], Andreas Reif[4], Michael Wibral[6], Robert Bittner[7]
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W745 Neural coding of sentence-level syntax and prosody – an ECoG study
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W746 No transfer effects of a working memory training on resting state networks: a PET/fMRI study
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W747 Does working memory training impact white matter?: A longitudinal diffusion tensor imaging study
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W748 EEG underpinnings of individual differences in working memory: the role of central executive
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W749 Voxel-based lesion analysis of brain regions underlying visual working memory and episodic memory
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W750 Connectivity modulation in fronto-parietal networks in MS patients after working memory training
Naiara Aguirre[1], Álvaro Javier Cruz-Gómez[2], Anna Miró-Padilla[3], Elisenda Bueichekú[3], Ricardo Broseta-Torres[4], Carla Sanchís-Segura[5], Cesar Avila[6], Cristina Forn[5]
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W751 Modulation of theta and alpha oscillations by salience and cue type during working memory encoding
Michael Schaum[1], Anna Müller[2], Catherine Barnes-Scheufler[3], Mishal Qubad[4], Benjamin Peters[5], Michael Wibral[6], Andreas Reif[4], Robert Bittner[7]
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W752 NOS1AP SNPs and working memory networks – an fMRI imaging genetics study
Eva Raspor[1], Peter Hahn[1], Thomas Lancaster[2], David Linden[3], Florian Freudenberg[1], Andreas Reif[1], Robert Bittner[4]
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W753 Medial temporal lobe unit activity associated with working memory maintenance and workload
Ece Boran[1], Tommaso Fedele[2], Peter Hilfiker[3], Lennart Stieglitz[4], Thomas Grunwald[5], Johannes Sarnthein[6], Peter Klaver[7]
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W754 Multi-site direct cortical stimulation of functional network enhances working memory
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W755 Effect of medication on neural activity of ADHD children during a visuospatial working memory task
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W756 The effects of memory load and stimulus type on alpha oscillation during working memory maintenance
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W757* Relationship between video gaming and brain function in a large sample of children
Bader Chaarani[1], Joseph Ortigara[1], Jennifer Laurent[2], Shana Adise[2], Alexandra Potter[2], Stephen Higgins[1], Hugh Garavan[2]
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MODELING AND ANALYSIS METHODS

Diffusion MRI Modeling and Analysis

W758 Estimation of beaded axons microstructural properties using simulation-based machine learning
Kévin Ginsburger[1], Felix Matuschke[2], Fabrice Poupon[3], Jean-François Mangin[1], Markus Axer[2], Cyril Poupon[1]
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W759 On using joint Diffusion-T2-relaxometry to evaluate a 4-compartment microstructural model in vivo
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W760 The influence of head motion on structural connectivity under different DWI processing pipelines
Stuart Oldham[1], Aurina Arnatkevičiūtė[1], Alex Fornito[1]
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W761 Succession of Statistical Parametric Maps on Reading Impairment
Bärbel Herrnberger[1], Nenad Vasic[2]
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W762 Contextual fibre growth to generate realistic axonal packing for diffusion MRI simulation
Ross Callaghan[1], Daniel Alexander[1], Hui Zhang[1], Marco Palombo[1]
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W763 Multidimensional analysis and detection of informative features in diffusion MRI
Adam Richie-Halford[1], Jason Yeatman[1], Noah Simon[1], Ariel Rokem[1]
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W764 Modelling conduction delays in the corpus callosum using MRI-measured g-ratio
Shai Berman[1], Shir Filo[1], Aviv Mezer[1]
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W765 Mitigation of DWI brain cropping in Fixel-Based Analysis
Robert Smith[1,2], Dennis Dimond[3], Signe Bray[3], Alan Connelly[1,2]
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W766 Comparing NODDI Implementations for Evaluating Brain Microstructure with ADNI3 Diffusion MRI
Talia Nir[1], Julio Villalon-Reina[1], Sophia Thomopoulos[1], Artemis Zavaliangos-Petropulu[1], Robert Reid[2], Matt Bernstein[3], Bret Borowski[3], Clifford Jack[3], Michael Weiner[4], Neda Jahanshad[5], Paul Thompson[1]
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W767 A Fully Atlas-driven Framework for Bundle-specific Tractography with Multi-compartment Diffusion MRI
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W768 Clustering Multimodal Connectomes
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W769 Absence of white matter maturation in Dravet Syndrome
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W770 Exploring the Gyral Bias on White Matter Tractography in Neonates
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W771 Data-driven Mapping of Structural Connectivity Patterns in the Neonatal Brain
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W772 Surface integration for connectome analysis in age prediction
Noor Al-Sharif[1], Etienne St-Onge[2], Jacob Vogel[1], Guillaume Theaud[2], Alan Evans[1], Maxime Descoteaux[2]
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W773 Changes in Anatomical and Diffusion Properties for TBI Patients with Chronic Symptoms
Xiaojian Kang[1], Keith Main[2,3], Anna-Clare Milazzo[4,2], Salil Soman[5], Jennifer Kong[4], Stephanie Kolakowsky-Hayner[6], Ansgar Furst[4,7], J. Wesson Ashford[4,7], Maheen Adamson[7,4]
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W774 Structural connectivity of subregions of the human dorsal premotor cortex
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W775 Single-Shell 3-Tissue CSD (SS3T-CSD) modelling of developing HCP (dHCP) diffusion MRI data
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W776 Individual Differences in White Matter Microstructure Predict Response Inhibition in Healthy Adults
Adam Clemente[1], Annalee Cobden[1], Phoebe Imms[1], Derek Jones[2,1], Govinda Poudel[1], Juan Dominguez D[1,3], Karen Caeyenberghs[1]
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W777 The degree to which ischemic stroke affects network hubs predicts cognitive recovery
Hugo Aben[1], Yael Reijmer[2], Nick Weaver[2], Jacoba Spikman[3], Johanna Visser-Meily[2], Geert Jan Biessels[2], Paul de Kort[1]
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W778 Promoting the clinical applicability of Diffusion Kurtosis Imaging
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W779 Altered white matter microstructure in Kabuki Syndrome
Jennifer Boisgontier[1], Jean Marc Tachella[1], Hervé Lemaître[1], Natacha Lehman[2], Ana Saitovitch[1], Vincent Gatinois[2], Guilaine boursier[2], Elodie Sanchez[2], Elza Retchmann[1], Ludovic Fillon[1], Stanislas Lyonnet[3], Le quang sang Kim-hanh[3], Geneviève baujat[3], Marlene Rio[3], Odile Boute[4], Laurence Faivre[5], Elise Schaefer[6], Damien Salanville[7], Monica Zilbovicius[1], David Grévent[1], David Geneviève[2], Nathalie Boddaert[1]
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W780 A diffusion MRI connectometry study of the cortico-striatal pathway integrity in Fabry Disease
Sirio Cocozza[1], Matteo Battocchio[2], Giuseppe Pontillo[1], Simona Schiavi[2], Camilla Russo[1], Antonio Pisani[1], Alessandro Daducci[2], Arturo Brunetti[1]
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W781 DTI Derived Centrality Predicts fMRI Complexity Measured with Fractal Analysis
Josh Neudorf[1], Chelsea Ekstrand[1], Shaylyn Kress[1], Ron Borowsky[1]
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W782 Dense Mapping of Microstructural Development in the Human Brain During the First Two Years of Life
Khoi Huynh[1], Ye Wu[1], Kim-Han Thung[1], Geng Chen[1], Weili Lin[1], Dinggang Shen[1], Pew-Thian Yap[1], for the UNC/UMN Baby Connectome Project Consortium[1]
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W783 Microstructural Variability Along Sensorimotor Pathways Contributes to Simple Reaction Time
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W784 Multi-shell Diffusion Models Confer Improved Developmental Sensitivity and Specificity
Adam Pines[1], Matthew Cieslak[1], Graham Baum[1], Philip Cook[1], Sage Rush[1], Kayla Piiwaa[1], Azeez Adebimpe[1], Diego Davila[1], Kristin Murtha[1], Robert Jirsaraie[1], Adon Rosen[1], Ellen Leibenluft[2], Russell Shinohara[1], Danielle Bassett[1], David Roalf[1], Theodore Satterthwaite[1]
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W785 Axon diameter index estimation in fixed human optic chiasm: voxel or streamline space ?
Mohammad Ashtarayeh[1], Muhamed Barakovic[2], Tobias Streubel[1,3], Joao Periquito[4], Andreas Pohlmann[4], Thoralf Niendorf[4], Evgeniya Kirilina[3,5], Markus Morawski[6], Carsten Jäger[3], Stefan Geyer[3], Alessandro Daducci[7], Siawoosh Mohammadi[1,3]
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W786 Replication and generalization in applied neuroimaging
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W787 Standardised protocols for automated tractography and connectivity blueprints
Shaun Warrington[1], Katherine Bryant[2], Marina Charquero-Ballester[3], Gwenaelle Douaud[4], Saad Jbabdi[4], Rogier Mars[4], Stamatios Sotiropoulos[1,4]
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W788 A Tractography Study of White Matter Alterations in Children with Fetal Alcohol Spectrum Disorders
Jia Fan[1], Joanah Madzime[1], Marcin Jankiewicz[1], Paul Taylor[2], Christopher Molteno[1], Sandra Jacobson[3], Joseph Jacobson[3], Ernesta Meintjes[1]
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W789 Open-source algorithm for single-shell free water DTI: potentials and limitations
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W790 Microstructural damage of fibers connecting anterior and posterior nodes of the DMN in Fabry Disease
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W791 Axonal integrity and neurite morphology in psychogenic nonepileptic seizures following TBI
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W792 Modelling structural changes in the developing Human Connectome Project with connectivity blueprints
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W793 White matter fibre orientation of anterior nuclei of thalamus and surrounding structures in DW-MRI
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W794 Executive Function and Structural Connectivity in Healthy Adults: Using SIFT2 as Edge Weights
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W795 Effects of Analytical Techniques in Comparing Diffusion Derived Metrics in Early Parkinsons dDiseas

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W796 Reliability of longitudinal structural connectivity using an advanced tractography framework

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W797 Serial Diffusion Tensor Imaging for Acute Cortical and Subcortical Ischemic Stroke

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W798 A generative model of realistic brain cells with application to diffusion-weighted MR simulation

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W799* Non-invasive soma imaging with diffusion MRI

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W800 Independent evaluation of the reliability of major human white matter tracts mapped via brainlife.io

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W801 White matter microscopic anisotropy correlates with disability and cognition in multiple sclerosis

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W802 Structural connectivity analysis in treatment−resistant depression

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W803 ADHD Dimension Symptom Scores Associated with Reduced White Matter Microstructure

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W804 Improved statistical power to detect differences in tissue microstructure via feature reduction

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W805 Does Epilepsy Alter Interictal Network Controllability? An Integrated IEEG-HARDI study

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W806* MegaTrack Atlas: An online tool for visualisation of large tractography datasets and lesion analysis

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W807 DTI vs. TDF derived fractional anisotropy in identifying white matter change in Parkinson's disease

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W808 Structural brain network controllability predicts individual cognitive variation in healthy adults

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W809 Enriching connectomes with microstructural information to predict brain age using deep learning

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W810 Biological interpretation of the "free water" increases in the substantia nigra of PD patients
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W811 Brain Microstructure Measured using Diffusion Kurtosis MRI Related to Blood Pressure and Cognition
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EEG/MEG Modeling and Analysis

W812 QuickSTEP: a toolbox for simultaneous EEG-fMRI analysis
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W813 Brain Network Studies of Epileptic Seizures Using Intracranial EEG Data
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W814 How many trials and subjects do I need for my MEG experiment? A simulation study
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W815 Identifiability in Connectome Based Neural Mass Models
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W816 Decreases in resting-state and auditory attention-related brain network strength in schizophrenia
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W817 Limits on Improving EEG Volume Conduction Models
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W818 Group level MEG/EEG source imaging: Minimum-Wasserstein estimates
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W819 Capturing MEG spectral dynamics with non-uniform biophysical networks
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W820 Temporally unconstrained decoding reveals consistent but time-varying stages of stimulus processing
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W821 Resting-state MEG functional connectivity correlates of cognitive symptoms in multiple sclerosis
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W822 Applying stochastic spike train theory for high-accuracy MEG/EEG
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W823 Decomposing age effects in EEG alpha power
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W824 Suicide spectrum of Major Depressive Disorder in Cortical-Striatal-Thalamo-Cortical circuit
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W825 A model-based approach linking MEG signals to neural synchrony in early visual cortex
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W826 A novel brain connectivity measurement based on signal phase analysis
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W827 Assessing graph-based metrics of functional brain networks for brain-computer interface applications
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W828 Learning the spatio-temporal morphology of M/EEG signals: Beyond the Fourier fallacy
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W829 MEG Estimates of Regional Information Transfer Stability
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W830 Analysis of intracerebral EEG dependency on electrode type
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W831 Development and Test of an ERP Simulator Emulating Visual N2 Variability in Amplitude and Latency
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W832 Using MRI-based myelin maps to inform MEG source reconstruction
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W833 Age-related differences in white-matter integrity and control over dynamic network connectivity
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W834 Dynamics in oscillatory waveform shape revealed by Empirical Mode Decomposition
Andrew Quinn[1], Vitor Lopes de Santos[1], Chi-Hung Juan[2], Jia-Rong Yeh[2], Wei-Kuang Liang[2], David Dupret[1], Norden Huang[3], Anna Nobre[1], Mark Woolrich[1]
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W835 Electrode to cortex distance predicts healthy human EEG gamma power and sex differences
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W836 Corresponding relationships between Resting State EEG power and connectivity
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W837 Differences in MEG and EEG power-law scaling: a simulation study
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W838 Effects of improved MEG–MRI co-registration error on MEG connectivity estimates
Federico Chella[1,2], Laura Marzetti[1,2], Matti Stenroos[3], Lauri Parkkonen[3], Risto Ilmoniemi[3], Gian Luca Romani[2], Vittorio Pizzella[1,2]
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W839 On the theoretical spatial precision of EEG, MEG and OPM-MEG
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W840 A frequency conductivity variant atlas for EEG inverse problem based on invivo MRI measures
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W841 Amygdala response to dynamic visual stimulation in single neuron, LFP and BOLD activity
Tommaso Fedele[1], Athina Tzovara[2,3], Bettina Steiger[4], Peter Hilfiker[4], Thomas Grunwald[4], Lennart Stieglitz[5], Hennric Jokeit[4,6], Johannes Sarnthein[7,6]
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W842 Second Generation Optically-Pumped Magnetometers for Measurement of the Magnetoencephalogram
Elena Boto[1], Matthew Brookes[2], Niall Holmes[1], Ryan Hill[3], Gillian Roberts[1], James Leggett[1], Richard Bowtell[1], Vishal Shah[4]
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W843 Does change of frontal theta cordance predict depression treatment outcome?
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W844 Decoding task information with high spatiotemporal precision in source EEG networks
Ravi Mill[1], Julia Hamilton[1], Emily Winfield[1], Nicole Lalta[1], Richard Chen[1], Marjolein Spronk[1], Michael Cole[1]
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W845 Neural representation of individual word properties by spatiotemporal hyperalignment of MEG signals
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W846 Deep brain stimulation of subthalamic nucleus: EEG microstates analysis
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W847 Dynamic Causal Modelling for EEG Pinpoints Behaviourally-Relevant Memory Circuit Dropout in AD
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W848 Impact of regularization parameter on source localization with eLORETA
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W849 Motifs-based EEG analysis to describe brain network architecture after stroke
Manuela Petti[1,2], Laura Astolfi[1,2], Floriana Pichiorri[2], Bratislav Mišic[3], Febo Cincotti[1,2], Donatella Mattia[2], Olaf Sporns[4]
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W850 Modelling the Brain as a Hybrid Dynamical System: Continuous emissions from discrete states
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W851 A manifold learning approach to inter-individual variations in human brain dynamics
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W852 Standard fast-scale multi-scale entropy (MSE) strongly reflects low-frequency spectral power
Julian Kosciessa[1,2], Niels Kloosterman[1,2], Douglas D Garrett[1,2]
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W853 Spatiotemporal brain dynamics during the recognition of music by Johann Sebastian Bach
Leonardo Bonetti[1], Elvira Brattico[1], Joana Cabral[2], Angus Stevner[1], Niels Haumann[1], Gustavo Deco[3], Peter Vuust[1], Morten Kringelbach[4]
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W854 Anti-PSIICOS beamformer immune to correlated sources
Yulia Nurislamova[1], Aleksandra Kuznetsova[2], Alexei Ossadtchi[3]
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W855 Nonparametric maximum likelihood estimation of the Electrophysiological Spectra Components
Hu Shiang[1], Qing Wang[1], Pedro Valdes Sosa[1,2]
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W856 Amplifying the Neural Power Spectrum
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W857 Surgical outcome prediction using MEG connectivity and graph theory
Hisako Fujiwara[1], Jeffrey Tenney[1], Darren Kadis[1], Brady Williamson[2]
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W858 Hidden Markov Modelling reveals relationship between MEG and TMS measures of GABA
Catharina Zich[1], Magdalena Nowak[1], Emily Hinson[2], Andrew Quinn[3], Diego Vidaurre[1], Mark Woolrich[1], Charlotte Stagg[2]
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W859 A linear spectral graph theory of brain oscillations
Ashish Raj[1], Chang Cai[2], Xihe Xie[3], Julia Owen[4], Eva Palacios[1], Pratik Mukherjee[1], Srikantan Nagarajan[1]
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W860 Working Memory in Schizophrenia: An EEG Dynamic Causal Modeling
Jinseok Eo[1,2], Suk Kyoon An[3,4], Hae-Jeong Park[5,2,6]
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W861 Diffusion Kalman Filter estimation of the intrinsic manifold of a neural mass model
Min Li[1], Pedro Valdes-Sosa[2], Ying Wang[3]
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W862 The involvement of self-prioritization effect in the time course: an explorative ERP study
Tianyong Xu[1], Yuan Yao[2], Feiyan Chen[1], Yuzhao Yao[1]
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W863 State dependent effective connectivity in the default mode network of MEG
Junho Son[1], Chongwon Pae[2], Jiyoung Kang[3], Jinseok Eo[4], Hae-Jeong Park[5,6,7]
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PHYSIOLOGY, METABOLISM AND NEUROTRANSMISSION

Cerebral Metabolism and Hemodynamics

W864 Energetics of brain plasticity in the healthy and MS brain: a quantitative fMRI study
Eleonora Patitucci[1], Rachael Stickland[1], Hannah Chandler[1], Michael Germuska[1], Catherine Foster[1], Shona Bhome-Dhaliwal[1], Sharmila Khot[1,2], Neeraj Saxena[1], Valentina Tomassini[1,3,4], Richard Wise[1]
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W865 Cerebrovascular reactivity and its correlation with age in patients with multiple sclerosis
Laura Pelizzari[1], Maria Laganà[1], Laura Mendozzi[1], Niels Bergsland[1,2], Chiara Pagliari[1], Pietro Cecconi[1], Stefano Viotti[1], Luigi Pugnetti[1], Raffaello Nemni[1,3], Mario Clerici[1,3], Francesca Baglio[1]
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W866 Imaging hemodynamic responses in white matter tracts activated with event-related functional tasks
Muwei Li[1], Allen Newton[1], Adam Anderson[1], Zhaohua Ding[1], John Gore[1]
[1]Vanderbilt University Institute of Imaging Science, Nashville, TN, United States

W867 Characterization of the cerebral blood flow response to brief neural activity in human visual cortex
Jung Hwan Kim[1], Amanda Taylor[1], Danny Wang[2], Xiaowei Zou[1], David Ress[1]
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W868* BOLD deactivations are not the metabolic opposite of activations: Evidence from hybrid PET/fMRI
Lars Jonasson[1,2], Jan Axelsson[3,2], Filip Grill[3,2], Vania Panes Lundmark[1,2], Peter Young[1,2], Jarkko Johansson[3,2], Anna Rieckmann[1,2,3]
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W869 Towards a metabolic baseline for Default Mode Network activations and deactivations
Samira Epp[1], Christine Preibisch[1], Jessica Andrews-Hanna[2], Valentin Riedl[1]
[1]Neuroradiology, Technische Universität München, Munich, Germany, [2]Psychology, University of Arizona, Tucson, AZ, United States

W870 Does partial volume correction improve the sensitivity of arterial spin labeling to detect activity?
Flora Kennedy McConnell[1,2], Andrew Segerdahl[2], Thomas Okell[2], Melvin Mezue[2], Irene Tracey[2], Michael Chappell[1,2]
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W871 Dose-dependent effects of Methylene Blue on regional brain perfusion
Ottavia Dipasquale[1], Nisha Singh[1], Karen Randall[1], David Lythgoe[1], Ndaba Mazibuko[1], Pierluigi Selvaggi[1], Stephanie Stephenson[1], Federico Turkheimer[1], Fernando Zelaya[1], Alessandro Colasanti[2]
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W872 The oxygen extraction fraction response during motor task in the presence of hypoxia
Yayan Yin[1,2], Lang Qin[3], Jia-Hong Gao[4], Jie Lu[1,2]
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W873 Relating Sex Differences in Cerebral Blood Flow Trajectory during Adolescence to Anxious-Depression
Samuel Berry[1]
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W874 Characterization of menstrual cycle-related changes in cerebral blood flow
Samantha Cote[1], Russell Butler[1], Marie Anne Richard[1], Adrianna Mendrek[2], Jean-Francois Lepage[1], Kevin Whittingstall[1]
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W875 The Effects of Rewarming on Cerebral Blood Flow and Oxygen Metabolism in Neonatal HIE
Rasheda Chowdhury[1,2], Beatrice Desnous[1], Zamzam Mahdi[1], Bohdana Marandyuk[1], Atousa Assadi[1], Imen Benhmida[1], Guylaine Aubé[1], Ala Birca[1,2], Mathieu Dehaes[1,2]
[1]CHU Sainte-Justine, Montreal, Quebec, Canada, [2]University of Montréal, Montreal, Quebec, Canada

W876 Hemodynamic modeling of aspirin effects on BOLD responses at 7T fMRI
Cao Tri Do[1], Zina-Mary Manjaly[2], Jakob Heinzle[1], Dario Schöbi[1], Lars Kasper[1,3], Klaas Pruessmann[3], Klaas Enno Stephan[1], Stefan Frässle[1]
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W877 Metabolic basis of (de)activation and rest in (non)default mode network areas
Yury Koush[1], Robin de Graaf[1], Ron Kupers[2], Laurence Dricot[3], Maurice Ptito[2], Douglas Rothman[1], Fahmeed Hyder[1]
[1]Yale School of Medicine, New Haven, CT, United States, [2]University of Copenhagen, Copenhagen, Denmark, [3]University of Louvain, Brussels, Belgium

W878 Glucose and oxygen metabolism efficiency of connector hubs using quantitative MRI / PET
Fatemeh Razavipour[1,2], Kangjoo Lee[3,4], Stephane Blinder[1], Jean-Paul Soucy[1,4], Stephan Grimault[1], Claudine J. Gauthier[1,5,2], Christophe Grova[1,2,4]
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W879 Perioperative Cerebral Hemodynamics and Metabolism in Neonatal d-Transposition of the Great Arteries
Rasheda Chowdhury[1,2], Beatrice Desnous[1], Zamzam Mahdi[1], Bohdana Marandyuk[1], Kim Anh La[3], Atousa Assadi[1], Imen Benhmida[1], Geneviève Du Pont-Thibodeau[3], Ala Birca[1,2], Mathieu Dehaes[1,2]
[1]CHU Sainte-Justine, Montreal, Quebec, Canada, [2]University of Montréal, Montreal, Quebec, Canada, [3]CHU Sainte-Justine, Montreal, Quebec, Canada

W880 Establishing occipital lobe Haemodynamic Response Function (HRF) in glaucoma with 7T fMRI
Melissa Wright[1,2,3], Krish D Singh[1], Simon Rushton[3], Slawomir Kusmia[1], D Samuel Schwarzkopf[4], Richard Wise[1], Tony Redmond[2]
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W881 Hypersampling of cardiac signals by analytic phase projection without requiring cardiac waveforms
Blaise Frederick[1], Serdar Aslan[2]
[1]McLean Hospital, Belmont, MA, United States, [2]Harvard Medical School, Boston, MA, United States

Neurophysiology of Imaging Signals

W882* The Relationship between BOLD and Neural Activity May Arise from Temporally Sparse Events
Xiaodi Zhang[1], Wen-Ju Pan[1], Shella Keilholz[1]
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W883 Stimulation of Anticipatory Haemodynamics
Gregory Mierzwinski[1], Kevin Whittingstall[1], Russell Butler[1]
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W884 How does the Negative BOLD response represent inhibition of task "irrelevant" cortex?
Stephen Mayhew[1]
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W885* FMRI correlates of stimulus-triggered changes in systemic physiology
Catie Chang[1], Pinar Ozbay[2], Jacco de Zwart[2], Jeff Duyn[2]
[1]Vanderbilt University, Nashville, TN, United States, [2]NIH, Bethesda, MD, United States

W886 Brainstem and sensorimotor myelin levels are reciprocally correlated: A confirmatory study
Leighton Barnden[1], Zack Shan[1], Benjamin Crouch[2], Richard Kwiatek[3], Richard Burnet[2], Peter Del Fante[4]
[1]Griffith University, Gold Coast, QLD, Australia, [2]Royal Adelaide Hospital, Adelaide, SA, Australia, [3]Lyell McEwin Hospital, Adelaide, SA, Australia, [4]Adelaide Western General Practice Network, Adelaide, SA, Australia

W887* Neurovascular coupling: Intra- & cross-modal Negative BOLD responses in visual & sensorimotor cortex
Ross WIlson[1], Karen Mullinger[2], Susan Francis[2], Stephen Mayhew[1]
[1]University of Birmingham, Birmingham, United Kingdom, [2]University of Nottingham, Nottingham, United Kingdom

W888 Brain correlates of linear and nonlinear autonomic outflow at rest
Gaetano Valenza[1], Roberta Sclocco[2], Andrea Duggento[3], Luca Passamonti[4], Vitaly Napadow[5], Riccardo Barbieri[6], Nicola Toschi[7]
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W889 Extra-neurite Perfusion Measurement with Combined Arterial Spin Labeling and Diffusion Weighted MRI
Iris Asllani[1], Jan Petr[2], Henk-Jan Mutsaerts[3], Marco Bozzali[4], Mara Cercignani[5]
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W890 Stability of functional connectivity in mice using wide field optical mapping
Daniel Handwerker[1], Sharon Kim[2], Ying Ma[2], Mohammed Shaik[2], David Nicholas Thibodeaux[2], Mary-Kate Montgomery[2], Hanzhi Zhao[2], Javier Gonzalez-Castillo[1], Peter Molfese[1], Dylan Nielson[1], Elizabeth Hillman[2], Peter Bandettini[1]
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W891 Magnetic vestibular stimulation during resting-state imaging
Theresa Raiser[1], Virginia Flanagin[2]
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W892 Spontaneous LFP activity and functional connectivity in the rat cortex: Awake vs. anesthetized state
Kwangyeol Baek[1], Chae Ri Park[2], Woo Hyun Shim[2], Young Kim[1]
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W893 Evoked activity masks endogenous time-of-day-dependent modulation of dynamics in sensory cortices
Tanzeel Khan[1], Lorenzo Cordani[1], Enzo Tagliazucchi[2,3], Christian Alexander Kell[1]
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Pharmacology and Neurotransmission

W894 Psychedelic drugs enhance the responsivity of cortex: MEG studies of ketamine, LSD and psilocybin
Suresh Muthukumaraswamy[1], Levin Kuhlmann[2], Robin Carhart-Harris[3], David Liley[2]
[1]The University of Auckland, Auckland, New Zealand, [2]Swinburne University of Technology, Melbourne, Australia, [3]Imperial College London, London, United Kingdom

W895 Effects of ketamine and cocaine on multi-scale entropy of fMRI time-series
Eric Maltbie[1], Kaundinya Gopinath[1], Leonard Howell[1], Philip Sun[1]
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W896 Evaluating Effects of Ketamine and Midazolam using ENIGMA Resting State MRI Pipeline
Bhim Adhikari[1], Juergen Dukart[2], Joerg Hipp[3], Anna Forsyth[4], Rebecca McMillan[5], Suresh Muthukumaraswamy[4], L. Elliot Hong[6], Neda Jahanshad[7], Paul Thompson[8], Laura Rowland[9], Peter Kochunov[10]
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W897 The role of body mass on resting hippocampal connectivity in normal and overweight individuals
Jed Wingrove[1], Owen O'daly[1], Stephanie Amiel[1], Fernando Zelaya[1]
[1]King's College London, London, United Kingdom

W898 Intranasal insulin effects on resting functional connectivity: an evaluation with multi-echo BOLD
Jed Wingrove[1], Owen O'daly[1], Stephanie Amiel[1], Fernando Zelaya[1]
[1]King's College London, London, United Kingdom

W899 Dose-dependent effects of oxytocin on amygdala and reward system vary between women and men
Jana Lieberz[1], Dirk Scheele[1], Franny Spengler[2], Tatjana Matheisen[1], Lía Schneider[1], Birgit Stoffel-Wagner[3], Rene Hurlemann[4]
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W900 Dopamine-Opioid Interactions in the Human Reward System
Daniëlle Jongen[1], Nathalie Weltens[1], Patrick Dupont[1], Huynh Giao Ly[1], Koen Van Laere[1], Elske Vrieze[1], Jenny Ceccarini[1], Lukas Van Oudenhove[1]
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W901 Effects of opioidergic and dopaminergic antagonism on facial mimicry
Sebastian Korb[1], Matthäus Willeit[2], Giorgia Silani[3]
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W902 Oxytocin-induced changes on resting brain perfusion: comparing intranasal and intravenous routes
Daniel Martins[1], Ndaba Mazibuko[1], Fernando Zelaya[1], Stefanos Maltezos[2], Mitul Mehta[1], Matthew Howard[1], Grainne McAlonan[3], Declan Murphy[3], Steven Williams[1], Aikaterini Fotopoulou[4], Uwe Schuschnig[5], Yannis Paloyelis[1]
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Physiology, Metabolism and Neurotransmission Other

W903 Temporal structure of visual cortex activity is correlated with local GABA and GABAA receptors
Niall Duncan[1], Carl Gaspar[2], Georg Northoff[3]
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W904 Linking variability in gut microbiome and large-scale brain network connectivity
Nils Kohn[1], Silvia Papalini[2], Joanna Szopinska-Tokov[3], Alejandro Arias-Vasqeuz[3], Alberto Llera[4], Esther Aarts[5]
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W905 Towards a validation of R2' as a measure of oxygen extraction fraction
Mara Cercignani[1], Iris Asllani[1], Riccardo De Marco[1], Nicholas Blockley[2], Alan Stone[3], Alessandro Colasanti[4]
[1]CISC, Brighton and Sussex Medical School, Brighton, United Kingdom, [2]School of Life Sciences, University of Nottingham, Nottingham, United Kingdom, [3]Trinity Biomedical Science Institute, Trinity College Dublin, Dublin, Ireland, [4]Dept of Neuroscience, Brighton and Sussex Medical School, Brighton, United Kingdom

W906 FMRI to identify neural modulators of the autonomous nervous system (ANS) stress response
Philipp Sämann[1], Benedikt Brücklmeier[1], Immanuel Elbau[2], Michael Czisch[3]
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BRAIN STIMULATION METHODS

Deep Brain Stimulation

Th001* Modulating the human functional connectome by means of deep brain stimulation
Andreas Horn[1], Gregor Wenzel[1], Friederike Irmen[1], Julius Hübl[1], Wolf-Julian Neumann[1], Patricia Krause[1], Ningfei Li[1], Georg Bohner[1], Michael Scheel[1], Andrea Kühn[1]
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Th002 Structural networks predict clinical outcome to GPI-DBS for dystonia
Gabriel Gonzalez-Escamilla[1], Muthuraman Muthuraman[2], Martin Reich[3], Nabin Koirala[1], Christian Riedel[4], Martin Glaser[1], Florian Lange[5], Guenther Deuschl[4], Jens Volkmann[3], Sergiu Groppa[1]
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Th003 Effective deep brain stimulation co-modulate cross-frequency coupling at gamma frequencies
Muthuraman Muthuraman[1], Manuel Bange[1], Nabin Koirala[1], Bogdan Pintea[2], Martin Glaser[1], Sergiu Groppa[1]
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Th004 Structural connectivity impacts depression in Parkinson's patients with subthalamic stimulation
Friederike Irmen[1,2], Andreas Horn[3], Christof Brücke[4], Gerd-Helge Schneider[4], Andrea Kühn[3]
[1]Charite Universitätmedizin Berlin, Berlin, Germany, [2]Berlin School of Mind and Brain, Humboldt-Universität zu Berlin, Berlin, Germany, [3]Charité – Universitätsmedizin Berlin, Berlin, Deutschland, [4]Charité Universitätsmedizin Berlin, Berlin, Germany

Th005 Distinct functional connectivity maps reveal regional specialization within the subthalamic nucleus
Bernadette van Wijk[1,2,3], Daniel Kroneberg[2], Andreas Horn[2], Friederike Irmen[2], Vladimir Litvak[3], Wolf-Julian Neumann[2], Tilmann Sander[4], Qiang Wang[2], Andrea Kühn[2]
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Th006 Wireless programmable control of intracranial sensing and stimulation in freely moving humans
Uros Topalovic[1], Zahra M. Aghajan[1], Leonardo Christov-Moore[2], Tyler Wishard[1], Diane Villaroman[1], Sonja Hiller[1], Nicholas Hasulak[3], Dawn Eliashiv[1], Itzhak Fried[1,4], Nanthia Suthana[1]
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Th007 Differential Early and Late Cerebral Blood Flow Effects of Subcallosal Cingulate DBS for Depression
Ki Sueng Choi[1], Justin Rajendra[2], Helen Mayberg[1]
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Direct Electrical/Optogenetic Stimulation

Th008 Subcortical calculation mapping during parietal glioma surgery in the dominant hemisphere
Ryosuke Matsuda[1], Kantar Tamura[1], Fumihiko Nishimura[1], Ichiro Nakagawa[1], Yasushi Motoyama[1], Young-Su Park[1], Hiroyuki Nakase[1]
[1]Nara medical university, Kashihara, Nara

Th009 Anterior insular cortex stimulation and its effects on emotion recognition
Kazuya Motomura[1], Yuri Terasawa[2], Toshihiko Wakabayashi[3], Satoshi Umeda[4]
[1]Nagoya University Graduate School of Medicine, Nagoya, Japan, [2]Keio University of Medicine, Tokyo, Japan, [3]Nagoya University Graduate School of Medicine, Nagoya, Aichi, [4]Department of Psychology, Keio University, Tokyo, Japan

Th010 Similar propagation of stimulation responses and avalanches in implanted epileptic patients
Etienne Hugues[1], Maciej Jedynak[1], Lena Trebaul[1], Viateur Tuyisenge[1], François Tadel[1], Pierre Deman[1], Blandine Chanteloup-Forêt[1], Carole Saubat[1], Anne-Sophie Job-Chapron[2], Lorella Minotti[2], Philippe Kahane[2], Olivier David[1]
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Th011 Frontal pathways in cognitive control tested with direct electrical stimulation
Henrietta Howells[1], Tommaso Sciortino[2], Guglielmo Puglisi[2], Antonella Leonetti[2], Marco Rossi[2], Marco Conti Nibali[2], Lorenzo Gabriel Gay[2], Luca Fornia[1], Luca Viganò[1], Lorenzo Bello[2], Gabriella Cerri[1]
[1]University of Milan, Milan, Italy, [2]University of Milan and Humanitas Research Hospital, Milan, Italy

Th012 Anatomo-functional characterisation of the human "Hand-Knob": a direct electrophysiological study
Luca Viganò[1], Luca Fornia[2], Marco Rossi[1], Henrietta Howells[2], Antonella Leonetti[2], Guglielmo Puglisi[2], Marco Conti Nibali[1], Andrea Bellacicca[2], Luciano Simone[2], Marco Grimaldi[3], Lorenzo Bello[1], Gabriella Cerri[2]
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Invasive Stimulation Methods Other

Th013 Infrared neural stimulation of monkey amygdala with fMRI reveals long-distance connections
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Th014 Cortico-Cortical Pathological Brain Connectivity Inferred for Direct Stimulations
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Th015 Direct Electrical Stimulation of parieto-premotor areas during hand manipulation
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Non-invasive Electrical/tDCS/tACS/tRNS

Th016 Effect of tACS on frequency-dependent cortical plasticity
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Th017 Effect of Dual-site Transcranial Direct Current Stimulation on Hemodynamics in Language Production
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Th018 The Influence of Multiple Transcranial Electrical Stimulation Setups on Visual Working Memory
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Th019* SimNIBS 3: Simulation, Optimization & Uncertainty Quantification for Transcranial Brain Stimulation
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Th020 Individual differences effect on MtDCS over prefrontal and ventrolateral cortex during risk decision
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Th021 Age-Related Differences of Motor Cortex Plasticity in Adults: A tDCS Study
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Th022 Changes in neuronal oscillations account for working memory dynamics: an EEG-tACS study
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Th023 TRNS increases responsivity of motor cortex via stochastic resonance: neural evidence in humans
Weronika Potok[1], Marc Bächinger[1], Onno van der Groen[2], Nicole Wenderoth[1]
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Th024 The Training and Specific Emotion Effect of tDCS over The Right TPJ on Micro-expression
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Th025 Optimizing the neuroplastic effects of cathodal tDCS over the primary motor cortex
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Th026 Transspinal electrical stimulation and correction of motor skills: patients with arthrogryposis
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Th027 More is not better: Increased impulsivity after repeated tDCS in children with ADHD
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Th028 Optimization of Transcranial Temporal Interference Stimulation for Focal Stimulation of Hippocampus
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Th029 Online modulation of ongoing brain activity by transcranial random noise stimulation
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Th030 Reduced efields show up in schizophrenia and major depression - A prefrontal tDCS simulation study
Shun Takahashi[1,2], Yuki Mizutani[1], Temmuz Karali[1], Esther Dechantsreiter[1], Irina Papazova[1], Eva Mezger[1], Lucia Bulubas[1], Sophia Stoecklein[1], Axel Thielscher[3,4], Frank Padberg[1], Daniel Keeser[1]
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Th031 Age dependent effects of tACS and tRNS on cortical excitability in healthy children and adults
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Th032 Exploring the interplay between attentional networks using non-invasive brain stimulation
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Th033 A transcranial stimulation protocol targeting processing speed in multiple sclerosis
Nena Lejko[1], André Aleman[1], Thea Heersema[2,3], Jan Meilof[4,3], Joke Spikman[2], Inge Zijdewind[1], Christoph Herrmann[5], Remco Renken[1], Branislava Curcic-Blake[1]
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Th034 Transcranial direct current stimulation over frontopolar cortex drives reward-based motor learning
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Th035 Exploring and modulating consciousness-related oscillatory brain activity
Tiam Hosseinian[1], Asif Jamil[2], Min-Fang Kuo[3], Michael Nitsche[3], Fatemeh Yavari[1]
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Th036 Inter-areal cross-frequency synchrony improves motion discrimination: a tACS-EEG study
Roberto Salamanca-Giron[1], Estelle Raffin[1], Adrien Witton[1], Friedhelm Hummel[1]
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Th037 Modulation of Low-Frequency BOLD Signal During Simultaneous tDCS-fMRI
Amber Leaver[1], Sara Gonzalez[2], Mayank Jog[3], Danny Wang[3], Roger Woods[2], Todd Parrish[1], Katherine Narr[4]
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Non-invasive Magnetic/TMS

Th038 Paired pulse and silent period reproducibility on motor cortical plasticity in healthy participants
Mohammed AlQahtani[1], Ali Hamza[2], Aneesa Zafar[3], Ghulam Murtaza[3], Woo-Kyoung Yoo[2], Alexander Rotenberg[4], Shahid Bashir[5]
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Th039 Dose-dependent Synchronization of Ongoing Alpha Oscillation by repetitive TMS
Elina Zmeykina[1], Walter Paulus[1], Zsolt Turi[1]
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Th040 The Effects of Transcranial Magnetic Stimulation on Heart Rate Variability Measures
Naga Amulya Pratapa[1], Martin Tik[1], Anna-Lisa Schuler[1], Michael Woletz[1], Christian Windischberger[1]
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Th041 Long-term Effects of rTMS on the Functional Brain Networks of Treatment-resistant Depression
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Th042 Effects of a theta burst stimulation protocol on functional recovery in orthopedic trauma patients
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Th043 HF-rTMS to personalized left DLPFC
Aditya Singh[1], Tracy Erwin-Grabner[1], Grant Sutcliffe[1], Andrea Antal[2], Walter Paulus[2], Roberto Goya-Maldonado[1]
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Th044 The effects of rTMS on motor signs and resting state fMRI in freezing of gait in Parkinson's diseas
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Th045 Intermittent TBS to personalized left DLPFC sites influences brain regions different from 10 Hz rTMS
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Th046 Effect of rTMS on brain network in chronic schizophrenia with negative symptoms
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Th047 Changes in sleep slow wave activity as a potential correlate of hemispatial neglect amelioration
Aleksandra Eberhard-Moscicka[1,2], Kathrin Chiffi[1,2], Dario Cazzoli[3,4], Michael Oberholzer[2], Noëmi Eggenberger[1,2], Natalie Heyse[5], Valeria Jaramillo[5], Reto Huber[5], Claudio Bassetti[2], René Müri[1,2,4]
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Th048 Neuromodulation of sexual arousal
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Th049 Reorganization of brain after the treatment of low-frequency rTMS on post-stroke aphasia patients
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Th050 Modulation effects on putamen local activity induced by rTMS targeting at primary motor cortex
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Th051 Modulating visual hallucinations induced by occipital cortex deafferentation using TMS: a case study
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Th052 Explaining rTMS network effects by concurrent TMS/fMRI
Martin Tik[1], Michael Woletz[1], Anna-Lisa Schuler[1], Matic Princic[1], Naga Amulya Pratapa[1], Allan Hummer[1], Christian Windischberger[1]
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Th053 Absolute and relative reliability of the motor somatotopy – how could we report the results of nTMS?
Maria Nazarova[1,2], Pavel Novikov[1], Ekaterina Ivanina[3], Ksenia Kozlova[1], Evgeni Blagovechtchenski[1], Vadim Nikulin[4,1,5]
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Th054 Imaging Transcranial Magnetic Stimulation: Reconsidering Placebo Control
Martin Tik[1], Michael Woletz[1], Matic Princic[1], Nicole Geissberger[1], Anna-Lisa Schuler[1], Allan Hummer[1], Christian Windischberger[1]
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Th055 Multiple superficial targets of rTMS for Modulation on Deep Brain Region
Zijian Feng[1], Xinping Deng[1], Na Zhao[1], Hongxiao Wang[1], Ying Jing[1], Yu Feng Zang[1], Jue Wang[1]
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Th056 Mapping sensorimotor activation hotspots during cortical stimulation (MOSAICS) in perinatal stroke
Helen Carlson[1], Hsing-Ching Kuo[2], Adrianna Giuffre[2], Jeffrey Grab[3], Liu Shi Gan[4], Ephrem Zewdie[2], Adam Kirton[5]
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Th057 Mapping cortical language processing by task-locked short-train transcranial magnetic stimulation
Carolin Weiss Lucas[1], Charlotte Nettekoven[1], Joscha Schmehr[1], Kristina Jonas[2], Jari Karhu[3], Roland Goldbrunner[1], Christian Grefkes[4]
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Th058 Effects of Low Field Magnetic Stimulation on Structural Brain Connectivity of Depressed Patients
Zhi-De Deng[1], Jeena Thomas[1], Ashly Albright[2], Faith Gunning[2], Conor Liston[2], Marc Dubin[2]
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Th059 Transcranial Brain Stimulation Across Species: A Comparative Modeling Study
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Th060 Hippocampal-network-targeted theta-burst TMS enhances hippocampal perfusion and connectivity
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Non-Invasive Stimulation Methods Other

Th061 Comprehensive fMRI real-time processing improves online functional connectivity evaluation
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Th062 A nonparametric approach to detect topological changes to community structure in brain networks
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Th063 Functional connectivity evoked by saltatory pneumotactile stimuli on the glabrous hand
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Th064 Altered Impulsivity by Transcranial Static Magnetic Stimulation of Orbitofrontal Cortex
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Th065 Augmented reality neuronavigation for transcranial magnetic stimulation
Christoph Leuze[1], Supriya Sathyanarayana[1], Kamron Sarhadi[1], Mahendra Bhati[1], Brian Hargreaves[1], Bruce Daniel[1], Amit Etkin[1], Jennifer McNab[1]
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Th066 A pilot study assessing theta BCI training as intervention method to improve cognitive control
Diede Smit[1], Elianne van Gijssel[1], Lorena Trevino Garcia[2], Oliver Tucha[1], Janneke Koerts[1], René Huster[2], Stefanie Enriquez-Geppert[1]
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Th067 Stimulation frequency affects brain response to respiratory-gated auricular vagal nerve stimulation
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Th068 A wearable device for generating periodic somatosensory stimulation
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Th069 Respiratory-gated Auricular Vagal Nerve Stimulation modulates the Locus Coeruleus in aged adults
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Th070 The effect of feedback latency on the effectiveness of training in neurofeedback paradigm
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Th071 Causal modulation of cardiovagal tone through autonomic brainstem nuclei – a 7T HRV/fMRI study
Nicola Toschi[1], Andrea Duggento[2], Roberta Sclocco[3], Ronald Garcia[4], Harrison Fisher[4], Jessica Stowell[4], Kylie Isenburg[5], Nikos Makris[6], Jill Goldstein[4], Riccardo Barbieri[7], Vitaly Napadow[8]
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Sonic/Ultrasound

Th072 Modeling Transcranial Nonlinear Wave Propagation on Head Models for Low-Intensity Focused Ultrasound
Shakthi Visagan[1], Martin Monti[1], David Shattuck[1]
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Th073 Recovering consciousness: thalamic sonication in acute and chronic disorders of consciousness
Martin Monti[1], Josh Cain[1], Norman Spivak[2], Manuel Buitrago-Blanco[2], Paul Vespa[2], Caroline Schnakers[3]
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Th074 A Multimodal Cortical Response to the Selective Modulation of Thalamus using Focused Ultrasound
Joshua Cain[1], Norman Spivak[2], Robin Blades[1], Martin Monti[3]
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TDCS

Th075 Glucose Metabolism-based Extrastriate Body Area and tDCS-induced Augmentation of Its Function
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Th076 Concurrent mapping of electric currents and neurophysiological changes during tDCS
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Th077 Gender Difference in the Effect of tDCS on Reading
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Th078 The impact of chronotypes and time of the day on tDCS-induced motor cortex plasticity
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Th079 Differential role of prefrontal, temporal and parietal cortices in executive functioning and fluency
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Th080 Towards precision brain stimulation: Is electric field simulation related to neuromodulation?
Daria Antonenko[1], Axel Thielscher[2], Guilherme Bicalho Saturnino[3], Semiha Aydin[4], Bernd Ittermann[4], Ulrike Grittner[5], Agnes Flöel[1]
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Th081 Prolongation of LTP-like plasticity in the primary motor cortex with repeated anodal tDCS
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Th082 Transcranial direct current stimulation reverses stroke induced hyperconnectivity in mice
Stefan Blaschke[1,2,3], Susan Vlachakis[1,2], Niklas Pallast[1], Monika Rabenstein[1,2], Sabine Vay[1], Michael Diedenhofen[2], Dirk Wiedermann[2], Gereon Fink[1,3], Michael Schroeter[1,2,3], Mathias Hoehn[2,3], Maria Rueger[1,2,3]
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Th083 The effect of multiple frontal TDCS sessions on mood in healthy older adults
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Th084 Functional Connectivity changes due to primary motor cortex Transcranial Direct Current Stimulation
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Th085 Cerebellar tDCS improves procedural learning in non-clinical psychosis
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Th086 TDCS modulates effective connectivity between thalamus, M1 and cerebellum during command following
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Th087 Effect of tDCS over the parietal cortex on resting state fMRI connectivity - preliminary results
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Th088 Modulating internal and external networks via tDCS of the right inferior parietal lobule
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Th089 MR Imaging of Current Vector Fields: Application to Transcranial Direct Current Stimulation
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Th090 Effects of bifrontal tDCS on brain metabolites in patients with major depression
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Th091 Asymmetric neurophysiological responses of auditory cortices to tDCS during resting state
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Th092 Factors Associated with Antidepressant Effects of TDCS: Multimodal Baseline Imaging in ELECT-TDCS
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Th093 Multifocal stimulation of the cerebello-cortical loop during motor skill acquisition
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Th094 Testing Interhemispheric Inhibition in Language with Transcranial Direct Current Stimulation
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TMS

Th095 Influence of psychological factors on pain-induced corticomotor excitability variation
Marylie Martel[1,2], Arnaud Duport[3], Marie-Philippe Harvey[1,2], Francis Houde[1,2], Nathaly Gaudreault[4,2], Guillaume Leonard[1,2]
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Th096 Mapping the functional connectivity of the motor cortical representation for trunk and hand muscles
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Th097 A novel setup for high-precision neuronavigated TMS pulses
Roland Fischer[1], Michael Woletz[1], Martin Tik[1], Christian Windischberger[1]
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Th098 Semantic and phonological contributions of the left inferior frontal gyrus to language production
Jana Klaus[1], Gesa Hartwigsen[1]
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Th099 Dissociating the role of dorsal and ventral streams in object lifting and weight perception
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Th100 The Effect of Lateral Parietal Cortex TMS Stimulation on Memory function in Alzheimer Patients
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Th101 Determining the stimulation site in TMS: Sensitivities with respect to uncertain model parameters
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Th102 Reproducibility of Individualized TMS Targets for Treatment of Depression Based on functional MRI
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Th103 How to compute TMS-induced electric field in realistic head model in real time?
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Th104 Studying stimulation-site-based changes in brain activity using TMS/fMRI & topological data analysis
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Th105 Test-retest reliability of three different rTMS protocols for language mapping
Charlotte Nettekoven[1], Julia Pieczewski[1], Volker Neuschmelting[1], Kristina Jonas[2], Christian Grefkes[3], Roland Goldbrunner[1], Carolin Weiß Lucas[1]
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Th106 Motion reduction in concurrent TMS-fMRI using real-time feedback
Michael Woletz[1], Martin Tik[1], Naga Amulya Pratapa[1], Matic Princic[1], Anna-Lisa Schuler[1], Christian Windischberger[1]
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Th107 A New Protocol for Eight Muscles Mapping using TMS
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Th108 The Difference of fMRI ALFF and MEP between Eyes-Open and Eyes-Closed
Ying Jing[1], Hai-Jiang Meng[2], Hong-Xiao Wang[1], Na Zhao[1], Zi-Jian Feng[1], Xin-Ping Deng[1], Jue Wang[1], Yu-Feng Zang[1]
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Th109 Emotion Processing Task as Functional Localiser for TMS Treatment: A 7 Tesla fMRI Study
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Th110 Lasting improvement of associative memory and altered brain activity in older adults
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Th111 Hemodynamic correlates of changes in neuronal excitability: a simultaneous TMS and fNIRS study
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Th112 Brain-state dependent TMS triggered by online beamforming-reconstructed source activity
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Th113 Effects of acute medial prefrontal rTMS on ASL using the H-coil
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Th114 FMRI-navigated repetitive transcranial magnetic stimulation in borderline personality disorder
Pavla Linhartová[1], Tomáš Svěrák[1], Adéla Látalová[1], Matyáš Kuhn[1], Tomáš Kašpárek[1]
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Th115 Virtual lesion in non-motor areas: skull-cortex distance and field modeling on a pain memory study
Francis Houde[1], Veronique Thivierge[2], Russell Butler[3], Marylie Martel[4], Marie-Philippe Harvey[5], Kevin Whittingstall[6], Guillaume Leonard[5]
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Th116 PCIe: a novel data robust index to assess neural signal complexity in TMS/EEG recordings
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Th117 1000 iTBS sessions in a patient with bipolar disorder: GM volumes changes compared to the HCP S1200
Daniel Keeser[1], Tabea Nenov-Matt[2], Sophia Stoecklein[3], Eva Mezger[3], Lucia Bulubas[2], Temmuz Karali[3], Marco Paolini[2], Matin Mortazavi Kachi[2], Birgit Ertl-Wagner[3], Oliver Pogarell[2], Frank Padberg[3]
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Th118 Motor output trial-to-trial variability: corticospinal excitability and interhemispheric inhibition
Maria Mitina[1], Vadim Nikulin[1,2], Sofya Kulikova[3], Vadim Ushakov[4], Sergey Kartashov[4], Evgeny Blagoveshchensky[1], Pavel Novikov[1], Gorin Alexey[1], Maria Nazarova[1]
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Th119 A novel three-axis TMS coil design for multichannel stimulation systems
Lucia Navarro de Lara[1], Anthony Mascarenas[2], Kevin Pratt[2], Douglas Paulson[2], Sergey Makarov[3], Yoshio Okada[4], Aapo Nummenmaa[1]
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Th120 Features of human motor cortical inhibition as measured by concurrent TMS-EEG
Vishal Rawji[1], Isabella Kaczmarczyk[2], Lorenzo Rocchi[2], John Rothwell[2], Nikhil Sharma[2]
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DISORDERS OF THE NERVOUS SYSTEM

Bipolar Disorder

Th121 Altered ALFF values and Functional Connectivity of the left Caudate in Bipolar II Disorder
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Th122 Altered anatomical network correlates of cognitive function in bipolar disorder
Genevieve McPhilemy[1], Leila Nabulsi[1], Liam Kilmartin[2], Stefani O'Donoghue[1], Giulia Tronchin[1], Laura Costello[1], Christopher Grogan[1], Pablo Najt[1], Srinath Ambati[1], Grainne Neilsen[1], Sarah Creighton[1], James McLoughlin[1], Brian Hallahan[1], Colm McDonald[1], Dara Cannon[1]
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Th123 Bipolar Disorder and Gender are Associated with Fronto-Limbic and Basal Ganglia Dysconnectivity
Leila Nabulsi[1], Genevieve McPhilemy[1], Liam Kilmartin[1], Denis O'Hora[1], Stefani O'Donoghue[1], Giulia Forcellini[1,2], Pablo Najt[1], Srinath Ambati[1], Laura Costello[1], Fintan Byrne[1], James McLoughlin[1], Brian Hallahan[1], Colm McDonald[1], Dara Cannon[1]
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Th124 Subgrouping of Patients with Bipolar Disorder Based on DTI Data
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Th125 Cholinergic-Mediated Cingulate Activation during Emotion-Inhibition in Bipolar Disorder
Leila Nabulsi[1], Jennifer Farrell[1], Genevieve McPhilemy[1], Liam Kilmartin[1], Theophilus Akudjedu[1], Pablo Najt[1], Fiona Martyn[1], James McLoughlin[1], Michael Gill[2], Thomas Frodl[3], Colm McDonald[1], Brian Hallahan[1], Dara Cannon[1]
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Th126 Alteration in the functional architecture of large-scale networks in mania and depression
Daniel Russo[1], Matteo Martino[2], Paola Magioncalda[3], Matilde Inglese[1], Mario Amore[1], Georg Northoff[4]
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Th127 Ventral striatal activity during reward anticipation in mood disorders: an fMRI Study
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Th128 Exploring dynamic functional brain activity in mood instability
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Th129 Activation and de-activation patterns in bipolar disorder: a fMRI study on the Stroop Task

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Th130 A fMRI meta-analysis of bipolar disorder patients on domains of emotions, working memory and reward

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Th131 Intrinsic Brain Functional Connectomes in Bipolar Disorder

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Depressive Disorders

Th132 Augmenting CBT with Real-time fMRI amygdala neurofeedback training increases early therapy response

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Th133 Neural Substrates for Anticipation and Consumption of Social and Monetary Incentives in Depression

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Th134 Transdiagnostic alterations in reward prediction error encoding

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Th135 Insula, affective temperaments, and sleep disturbances in major depressive disorder

Chao Wu[1], Shenglin She[2], Yingjun Zheng[2], Huawang Wu[2]
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Th136 Frontopolar Activation Associated with Pessimistic Future-Thinking in Depression: An fMRI study

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Th137 The Behavioral Correlates of Resting-state Brain Entropy Changes in Late-life Depressed Elderly

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Th138 Mean diffusivity changes after acute SSRI administration in a major depressive patient cohort

Rene Seiger[1], Gregor Gryglewski[1], Alexander Kautzky[1], Manfred Klöbl[1], Mathis Godbersen[1], Lucas Rischka[1], Thomas Vanicek[1], Marius Hienert[1], Jakob Unterholzner[1], Leo Silberbauer[1], Paul Michenthaler[1], Patricia Handschuh[1], Andreas Hahn[1], Siegfried Kasper[1], Rupert Lanzenberger[1]
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Th139 Reproducibility of functional alterations in depression: a multi-site fMRI study with 1,434 subjects

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Th140 Trajectory of brain maturation in adolescent individuals at familial risk of mood disorder

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Th141 The Impacts of Anti-depressants on the Depression Functional Network: Improve or Worsen?

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Th142 Converging resting state networks unravels potential remote effects of TMS for major depression

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Th143 Hippocampus and dlPFC network profiles in Borderline Personality Disorder with co-morbid depression

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Th144 Diagnosing Major Depressive Disorder with High-order Local Functional Connectivity
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Th145 Neuroinflammation of different regions in the brain of the depressive-like rat induced by CUMS
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Th146 Transdiagnostic Modular Brain Dysfunctions Across Psychiatric Disorders: A Connectome-based Study
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Th147 Behavioral and Neural Alterations in Competitive Behavior in Major Depressive Disorder
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Th148 A dual pathway model of depression: unbalanced state in the sensitivity to reward and punishment
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Th149 Abnormal functional connectivity between regions within the prefrontal-limbic-striatum system in MDD
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Th150 Using rsfMRI data to select left DLPFC stimulation sites for a personalized treatment of depression
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Th151 Childhood urbanization affects prefrontal cortical responses to trait anxiety and PRS for depression
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Th152 Spatial-frequency EEG characteristics of suicidal ideation and suicide attempt in depressed females
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Th153 Early neural responses as treatment markers in depression with combined structural and fMRI
Rebecca Williams[1], Elliot Brown[1], Darren Clark[1], G. Bruce Pike[1], Rajamannar Ramasubbu[1]
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Th154 Emotion Self-Regulation Training in Major Depression Using Simultaneous rtfMRI and EEG Neurofeedback
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Th155 Changes in connectivity after ketamine administration in major depression
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Th156 Contextual valence and network profiles of the dACC & OFC in Borderline Personality Disorder
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Th157 Evaluating the Antidepressant Effect of Ketamine with Resting-State Simultaneous EEG/fMRI
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Th158 Functional Connectivity Neurofeedback for Depression: Towards Better Clinical Applicability
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Th159 Changes in Prefrontal Cortex Gray Matter Volume in Major Depressive Disorder and Suicide ideation
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Th160 Functional connectivity of the right inferior frontal gyrus and orbitofrontal cortex in depression
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Th161 Negative Emotion Processing and Regulation in Major Depression: a 7T fMRI-DCM Study
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Th162 Novel Neurofeedback Treatment for Affective Instability in Premenstrual Dysphoric Disorder (PMDD)
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Th163 Investigating disrupted resting-state functional connectivity of brainstem subregions in depression
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Th164 Disrupted effective connectivity in patients with major depressive disorder during an ultimatum game
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Th165 White matter microstructure is related to the mean and longitudinal variance of depressive symptoms
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Th166 Anhedonia correlates with abnormal functional connectivity of the NAcc Subregions in MDD patients
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Th167 Classification of mood disorders using multiple kernel learning on multimodal neuroimaging data
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Th168 Assessing reward function as predictor of adolescent depression trajectory
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Th169 Phenotypic and Connectivity Data Discriminate Bipolar and Unipolar Depression with Machine Learning
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Th170 Accelerated Brain Ageing in Depression: a UK Biobank study
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Th171 Phenome-wide association study of polygenic risk scores for depression in UK Biobank
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Th172 Structural magnetic resonance imaging for individual predictions for electroconvulsive therapy
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Th173 Multimodal Structural Imaging Markers Predict Durable Antidepressant Response to Serial Ketamine
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Th174 Reproducible Rumination's Brain Network Mechanism: Repeating Scans from 3 Different Scanners
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Th175 Common and specific neuroanatomical deficits for depression, bipolar disorder and schizophrenia
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Th176 Common Change under Mental Loading and Social Stress and its Relation with Depression Vulnerability
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Th177 Neural stress reactivity depends on individual characteristics
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Th178 Clustering of depression subtypes – Linking symptoms and morphology
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Th179 No evidence for cortical thickness alterations in minor depression
Maryna Polyakova[1], Karsten Mueller[2], Frauke Beyer[2], Leonie Lampe[2], Matthias Schroeter[2], Peter Schoenknecht[3]
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Th180 Processing and Regulating Emotional Information in Remitted Recurrent Major Depressive Disorder
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Th181 Altered Brain Response during Reward and Loss Anticipation in Adolescents with Major Depression
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Th182 Impaired Neural and Behavioural Social Outcome Prediction in Depression
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Th183 Depression and Gray Matter Volume Alterations in amnestic Mild Cognitive Impairment
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Th184 Right SMG activation during emotion discrimination distinguishes depressive from remitted subjects
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Th185 Resting-state mapping of neural signatures of vulnerability to depression relapse
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Th186 Covariates for the prediction of antidepressant treatment response from functional connectivity
Manfred Klöbl[1], Gregor Gryglewski[1], Lucas Rischka[1], Mathis Godbersen[1], Jakob Unterholzner[1], Murray Reed[1], Paul Michenthaler[1], Thomas Vanicek[1], Edda Winkler-Pjrek[1], Andreas Hahn[1], Siegfried Kasper[1], Rupert Lanzenberger[1]
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Th187 Brain metastability assessed with fMRI relates to depression severity in patients with mania
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Th188 Pharmaco-fMRI challenge before and after short-term treatment of MDD patients
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Th189 Effect of Multi-ROI rtfMRI-based Brain-Regulation on Mood in Depression
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Th190 Neural and behavioral effects of antidepressant treatment on empathy
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Th191 The effect of inflammation (CRP and IL-6) on white matter integrity in patients with depression
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Th192 Neural Correlates to Sympathetic Skin Conductance Fluctuations in Patients with Major Depression
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Th193 Altered resting-state functional connectivity in major depressive disorder
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Th194 Effects of ketamine and ECT on impaired emotion processing networks in major depression
Joana Loureiro[1], Amber Leaver[2], Magha Vasavada[1], Antoni Kubicki[1], Benjamin Wade[1], Stephanie Njau[1], Shantanu Joshi[1], Eliza Congdon[1], Randall Espinoza[1], Katherine Narr[1]
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Th195 Subcortical Morphometrics in Individuals with vs. without Major Depressive Disorder
Ying Chen[1,2], Bret Rutherford[1], Li Zhao[2], Sigal Zilcha-Mano[1], Lihua Yuan[1], Xiujuan Liu[1], Ruxue Guo[1,2], Zhishun Wang[1]
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Th196 Functional connectivity in Depression with and without co-morbid Borderline Personality Disorder
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Th197 Validating the location of hippocampal plasticity in ECT with respect to antidepressant outcome
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Th198 Functional Connectivity Mechanisms Linking Off-time Pubertal Development & Depression in Adolescence
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Th199 DMPFC- and VMPFC-Amygdala RSFC and HPA Axis Function in Adolescents with and without Self Injury
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Th200 Retrieving a negative memory transiently disrupts ability to mobilize the dorsal attention network
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Th201 Repetitive Negative Thinking Styles Show Overlapping Neural Processes During Emotion Regulation
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Disorders of the Nervous System Other

Th202 Characterization of white matter signal anomalies (WMSAs) in a large cohort of healthy young adults
Ami Tsuchida[1], Alexandre Laurent[1], Laurent Petit[1], Leonie Lampe[2], Naka Beguedou[1], Ycheng Zhu[3], Stephanie Debette[4], Fabrice Crivello[1], Pierre-Louis Bazin[5,2], Christophe Tzourio[6], Bernard Mazoyer[1]
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Th203 Assessment of microstructural integrity and development in patients with tuberous sclerosis complex
Te-Wei Kao[1], Yung-Chin Hsu[2], Pi-Chuan Fan[3], Wen-Yih Tseng[1,4]
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Th204 A multivariate approach to mapping brain lesions associated with poor cognitive flexibility
Ayan Mandal[1], Rafael Romero-Garcia[1], Michael Hart[1], John Suckling[1]
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Th205 Exploring multi-level neuroanatomical substrates for migraine-insomnia comorbidity
Pei-Lin Lee[1], Fu-Chi Yang[2], Shuu-Jiun Wang[3], Ching-Po Lin[4], Kun Hsien Chou[4,5]
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Th206 Altered functional connectivity structure in patients with glioblastoma
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Th207 Network characterisation of patients with functional dizziness
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Th208 Regional Alterations of Structural Tissue Complexity in Anti-NMDA Receptor Encephalitis
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Th209 Flashing light treatment against photophobia in migraine – an fMRI study
Tuna Aslan[1], Ahmad Amini[1], Eva Matt[1], Maike Manecke[2], Anna Szelenyi[2], Paul Martin[3], Stefan Seidel[2], Christian Wöber[2], Roland Beisteiner[1]
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Th210 Preserved individual finger representations in tetraplegia
Sanne Kikkert[1,2], Patrick Freund[2], Michaela Verling[1,2], Nicole Wenderoth[1]
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Th211 Task-based fMRI to Identify Brain Regions Associated with Neuropathic Pain After Spinal Cord Injury
Shana Black[1], Jace King[1], Jeffrey Anderson[1], Christopher Butson[1]
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Th212 Graph Theoretic Analysis of Structural Connectivity in Chronic Migraine
Danielle DeSouza[1], Yohannes Woldeamanuel[1], James Bishop[1], Bharati Sanjanwala[1], Robert Cowan[1]
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Th213 Frontoparietal Network Connectivity Evolution during 2 Years of Fingolimod Therapy of MS
Jian Lin[1], Pallab Bhattacharyya[1], Hong Li[1], Ken Sakaie[1], Robert Fox[1], Mark Lowe[1]
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Th214 Multiparameter MR quantification of microstructural tissue alterations in multiple sclerosis
Emilie Lommers[1,2], Gilles Reuter[1], Jessica Simon[3], Christian Degueldre[1], Evelyne Balteau[1], Christophe Phillips[1], Pierre Maquet[1,2]
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Th215 Connectomics signatures of Gulf War Illness reveal brain mechanisms underlying the disorder
Kaundinya Gopinath[1], Unal Sakoglu[2], Bruce Crosson[1], Robert Haley[3]
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Th216 Using normative probability mapping to track disease progression in childhood adrenoleukodystrophy
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Th217 Altered transient brain state dynamics in multiple sclerosis: treatment or pathology?
Jeroen Van Schependom[1], Diego Vidaurre[2], Lars Costers[3], Martin Sjøgård[4], Marie D'Hooghe[3], Miguel D'Haeseleer[3], Vincent Wens[4], Xavier De Tiège[4], Serge Goldman[5], Mark Woolrich[2], Guy Nagels[1]
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Th218 Exploring multivariate functional signature of migraine and comorbid insomnia: An fMRI study
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Th219 Mapping Cerebral Degeneration in ALS Clinical Sub-types with Texture Analysis
Abdullah Ishaque[1], Daniel Ta[1], Dennell Mah[1], Peter Seres[1], Collin Luk[1], Wendy Johnston[1], Lawrence Korngut[2], Lorne Zinman[3], Angela Genge[4], Sanjay Kalra[1]
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Th220 Functional disconnection of raphe nuclei in patients with multiple sclerosis and depressive symptoms
Matteo Martino[1], Paola Magioncalda[2], Maria Petracca[1], Mohamed Mounir El Mendili[1], Amgad Droby[1], Matilde Inglese[3]
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Th221 Altered connectivity in borderline intellectual functioning: a network-based approach
Valeria Blasi[1], Alice Pirastru[1], Maria Marcella Lagana[1], Monia Cabinio[1], Alice Giangiacomo[1], Sonia Di Tella[1], Gisella Baglio[1], Monica Di Cesare[1], Michela Zanette[1], Mario Clerici[1,2], Francesca Baglio[1]
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Th222 Alterations of network configurations in patients with anti-NMDA receptor encephalitis
Nina von Schwanenflug[1], Stefan Koch[1], Josephine Heine[1], David Lydon-Staley[2], Harald Prüss[1], Friedemann Paul[1], Danielle Bassett[2], Carsten Finke[1]
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Th223 Rs-fMRI study of cognitive diagnostic criteria in Secondary Progressive MS
Anisha Doshi[1], Gloria Castellazzi[1,2], Nils Muhlert[3], Adnan Alahmadi[4,1], Ferran Prados[1,5,6], Claudia Wheeler-Kingshott[1,7,8], Olga Ciccarelli[1], Jeremy Chataway[1]
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Th224 Grey Matter Integrity Predicts White Matter Network Reorganization in Multiple Sclerosis
Angela Radetz[1], Nabin Koirala[1], Muthuraman Muthuraman[1], Vinzenz Fleischer[1], Patrick Schiffler[2], Jan-Gerd Tenberge[2], Julia Krämer[2], Frauke Zipp[1], Sven Meuth[2], Sergiu Groppa[1]
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Th225 Neural signatures of developmental dyslexia and developmental coordination disorder
Fabien Cignetti[1,2,3], Federico Nemmi[4], Marianne Vaugoyeau[2,3], Nadine Girard[5], Yves Chaix[4], Patrice Péran[4], Christine Assaiante[2,3]
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Th226 Lesion Mapping and Diffusivity Characterization of Brainstem Lesions in Trigeminal Neuralgia
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Th227 Connectivity within the brainstem is impaired in chronic fatigue syndrome

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Th228 Structural and Functional Alterations of Thalamus Associated with Postherpetic Neuralgia

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Th229 Predicting upper limb disability progression in multiple sclerosis with functional network analysis

Myrte Strik[1,2], Anand Eijlers[1], Iris Dekker[3,4], Kim Meijer[1], Joep Killestein[3], Bernard Uitdehaag[3], Scott Kolbe[2,5], Jeroen Geurts[1], Menno Schoonheim[1]
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Th230 Progressive retinal atrophy in patients with primary progressive multiple sclerosis

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Th231 Longitudinal changes of intrinsic functional brain network in patients with transient global amnesia

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Th232 Disability or Disease? Connectivity Patterns in the Visual Network Following Optic Nerve Damage

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Th233 Reduced functional connectivity of sensory-motor and vestibular cortices in subclinical agoraphobia

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Th234 Local functional connectivity suggests functional immaturity in children with ADHD

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Th235 Posterior Cingulate Cortex functional connectivity disruption in progressive Multiple Sclerosis

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Th236 Structural and Functional Brain Connectome in Different Motor Neuron Diseases: A Multicenter Study

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Th237 White matter changes in the perforant path in patients with amyotrophic lateral sclerosis

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Th238 Should high-frequency MRI monitoring be performed in natalizumab-treated MS patients?

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Th239 Brain functional alteration in Pantothenate Kinase-associated Neurodegeneration during resting state

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Th240 Revealing metabolic alterations in spinal cord injury patients with and without neuropathic pain
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Th241 An EEG study of Repetition Suppression in patients with Fibromyalgia
Paola Finoia[1], Daniel Mitchell[2], Ingrid Scholtes[1], Gillian Ison[1], Giandomenico Iannetti[3], Michael Lee[1]
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Th242 Towards individual-level somatotopic mapping in chronic spinal cord injury using multimodal MRI
Junqian Xu[1], Joo-won Kim[1], Benjamin Ely[1], Matt Glasser[2], Chung-Ying Tsai[1], Miguel Escalon[1], Vincent Huang[1], Thomas Bryce[1], Pierre Asselin[3], Noam Harel[1,3], Ann Spungen[1,3]
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Th243 Connectome plasticity following surgical resection of left cerebral gliomas involving language areas
Nan Zhang[1], Xindi Wang[2,3], Mingrui Xia[2], Tianming Qiu[4], Junfeng Lu[4], Yong He[2], Jinsong Wu[4], Liangfu Zhou[4]
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Th244 Increased motor connectivity in glioma subjects following preoperative motor training and TDCS
Stefan Lang[1,2], Liu Shi Gan[1,2], Oury Monchi[1,2], Adam Kirton[1,2], John Kelly[1,2]
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Th245 The Association of Spontaneous Resting Brain Activity and Abnormal Left Ventricular Heart Function
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Th246 Clinical investigation of MEG evoked field potentials and topographical mappings in arthrogryposis
Russell Chan[1], Liya Merzon[1], Olga Agranovich[2], Maria Nazarova[1], Anna Shestakova[1]
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Th247 Identifying shared variance between resting state functional connectivity and migraine symptoms
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Th248 Evidence for progressive axonal damage in early multiple sclerosis by multi-shell diffusion MRI
Nicola Toschi[1], Silvia De Santis[2], Tobias Granberg[3], Russell Ouellette[3], Constantina Treaba[1], Elena Herranz[1], Caterina Mainero[1]
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Th249 Associations between brain reserve and subclinical risk of multiple sclerosis
Matin Mortazavi Kachi[1], Daniel Keeser[2], Reinhard Hohlfeld[3], Frederik Barkhof[4], Tania Kümpfel[3], Valerie Kirsch[5], Sophia Stoecklein[6], Eva Mezger[6], Boris-Stephan Rauchmann[6], Frank Padberg[6], Birgit Ertl-Wagner[6], Lisa Gerdes[3]
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Th250 Restriction spectrum imaging in multiple sclerosis: correlating imaging parameters with disability
Daniel Rinker[1], Tuva Hope[1], Mona Beyer[1], Piotr Sowa[1], Gro Nygaard[1], Einar Høgestøl[1], Synne Brune[1], Elisabeth Celius[1], Atle Bjørnrud[1], Hanne Flinstad Harbo[1]
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Th251 Template-based hippocampus segmentation reveals subfield volume decreases in Motor Neurone Disease
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Th252 Metabolic changes in the Hippocampus after Spinal Cord Injury is associated with Memory Function
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Th253 Regional homogeneity detects focal lesions in nonfatal pediatric Anoxic Brain Injury from drowning
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Th254 Gray Matter Predicts Cognitive Impairment in Multiple Sclerosis: A 14-Year Observational Study
Gina Kirkish[1], Antje Bischof[1], Simone Sacco[1], Tristan Gundel[1], Jennifer Arjona[1], Anand Rajesh[1], Nico Papinutto[1], Eduardo Caverzasi[1], William Stern[1], Bruce Cree[1], Stephen Hauser[1], Roland Henry[1]
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Th255 Differences in regional cerebellar volume between adults with ALS and healthy older adults
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HIGHER COGNITIVE FUNCTIONS

Decision Making

Th256 The neural mechanisms of self-deception
Dongmei Mei[1], Zijun Ke[1], Wenjian Zhang[1], Dingguo Gao[1], Lijun Yin[1]
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Th257 Others' inferences about one's own beliefs: Distinct roles of TPJ in competitive strategic decisions
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Th258 Neural correlates of value-guided choice during auctions: an eye-fixation related potentials study
John Tyson-Carr[1], Vicente Soto[1], Aikaterini Kokmotou[1], Hannah Roberts[1], Nicholas Fallon[1], Adam Byrne[1], Timo Giesbrecht[2], Andrej Stancak[1]
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Th259 Economic Decision Making for Products in Naturalistic Settings Using Mobile EEG
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Th260 Differential Salience Network Activation During Visual Attention to Risky and Certain Outcomes
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Th261 The impact of unavailable options: distinct neural mechanisms underlying phantom decoy
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Th262 Patterns of brain activity predict curiosity-driven decision
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Th263 Suppressing random exploration enables optimizing decision under social threat
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Th264 Alcohol-money compared to money discounting increases functional connectivity in heavy drinkers
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Th265 A machine learning strategy for using rsfMRI to predict study adherence in a mental training trial
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Th266 Emotion is more important than cognition in deciding advantageously
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Th267* Self-controlled decision-making buffers stress response
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Th268 The Anterior Cingulate Gyrus and Sulcus Play Different Roles in Dictator Game
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Th269 Genetic effects on neural encoding of computational markers of impulsivity and decision-making
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Th270 Individual Agreeableness Modulates Group Member Risk Taking Behavior and Brain Activity:An ERP Study
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Th271 Belief structures behavioral and neural interpretations of objective sensory data
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Th272 Social Value Orientation Modulates Fairness Processing: Evidence From Behavior and Brain Potentials
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Th273 Effect of providing choice on processing of sweet drinks in the brain
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Th274 Reward and Fictive Prediction Error signals in the Ventral Striatum
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Th275 Stable value-based choices relate to structural connectivity between hippocampus and parietal cortex
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Th276 Toward group classification models for rtfMRI neurofeedback using data from a decision-making task
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Th277 Prefrontal cortex activity is modulation by uncertainty independent of the changes in learning rate
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Th278 Parietal cortex encode Value and Prediction Error in ambiguity decisions
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Th279 Reward magnitude increases learning rate and the activity in value-related brain areas in adolescent
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Th280 Decision making deficits in DM1 are related to the Ventral Tegmental Area dysfunctioning
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Th281 Neural correlates of moral learning
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Th282 Decoding the Neural Correlates of Dynamic Decision-Making in humans
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Th283 Individual differences in dopamine functioning underlying model-based and model-free control
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Th284 The effects of reward certainty on voluntary choices: an EEG study
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Th285 Neuropharmacology of approach and avoidance: Disentangling value and salience processing
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Th286 Characterizing the Neural Correlates of Human Perceptual Decision Making in Dynamic Environments
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Th287 Dynamic network changes of auditorily biased decision-making
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Th288 Orbitofrontal-striatal Connectivity in Reversal Learning
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Th289 Delineating Reward/Avoidance Learning in Impulsive-Compulsive Spectrum Disorders
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Th290 Eye movement of saliency guided decision making strategy
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Th291 Prediction errors during a social economic game mediate age and sex differences in impulsivity
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Th292 Cortical information dynamics and the explore/exploit tradeoff
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Th293 Neural Mechanisms Underlying Learning on Social Networks
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Th294 ReHo and activity pattern of DMPFC predict individual differences in decision impulsivity
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Executive Function

Th295 Attentional prioritization transforms task-relevant rules into action-oriented representations
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Th296 Dynamic brain states predict inhibitory control ability in children with ADHD
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Th297 Necessity of the posterior parietal cortex in response inhibition revealed by fMRI and TMS
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Th298 Differential Effects of Set-maintenance and Rapid-adaptive networks on Dual-task Demand: a TMS Study
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Th299 Modeling the relationship of physical fitness to working memory via fMRI activation and performance
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Th300 Common neural network for different functions: an investigation of proactive and reactive inhibition
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Th301 Left-lateralized cortical mechanisms involved in Stroop effect revealed by vocal response design
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Th302 Neural mechanisms of visual and auditory pattern separation: a modality comparison
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Th303 Distributed surges in activity during task-switching
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Th304 Fronto-striatal contributions to the control of response interference: a fMRI study
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Th305 Functional connectivity changes in school-age children after intensive inhibitory control training
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Th306 Congruency sequence effects and related neuronal processing in Parkinson's disease
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Th307* Functional connectivity networks supporting attentional control differ in term and preterm children
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Th308 What executive function network is that? An image-based meta-analysis into consistency and overlap
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Th309 Systematic violations of independence in models of response inhibition
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Th310 Two neural mechanisms underlie improved bimodal working memory in musically trained children
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Th311 Reconceptualising inhibition in ADHD: A behavioural and diffusion imaging study
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Th312 Functional and structural networks underlying response inhibition
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Th313 Different factorisation approaches of the Delis-Kaplan Executive System reveal a bifactor model
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Th314 Strategy switches in proactive inhibitory control
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Th315 Control–motivation interplay during proactive reconfiguration for novel instructed tasks
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Th316 Neural mechanisms of novel instruction processing for implementation and memorization demands
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Th317 Structural Brain Network Correlates of Attention Performance in Adolescents
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Th318 Common and Distinct Control Organizations of the Prefrontal and Posterior Parietal Cortices
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Th319 Photobiomodulation over the Bilateral Inferior Frontal Gyri Influence on the Interference Processing
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Th320 Processing of congruency effects by different parts of medial frontal cortex – an fMRI study
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Th321 Stimulating stopping: a tDCS-EEG-EMG study
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Th322 Behavioral and fMRI evidence of Emotional Valence of Abstract or Concrete words on Cognitive Control
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Th323 A combined EEG-EMG-TMS study on the modulation of response inhibition by proactive control
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Th324 Knowing 'when' and knowing 'what': The impact of cue information on intrinsic top-down control
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Th325 Human Theta Oscillations Connectivity Between Prefrontal and Inferotemporal Cortices During Planning
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Th326 Flanker or Simon effect: which one is more demanding? EEG theta power versus behavioral results
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Th327 Attention to reward modulates dynamics in the rostrolateral PFC during sequential monitoring
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Th328 Superadditive and Divergent Effects of Cognitive Interference on Cortical Oscillations
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Th329 Overlapping Lateral and Medial PFC Neural Networks Relate to Emotion and Mnemonic Suppression
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Th330 Intrinsic activity scale-free properties are associated with occularmotor impulsivity
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Th331 The role of the DLPFC in dietary self-control in relation to Uncontrolled Eating: an fMRI–TMS study
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Th332 Age and Developmental Considerations in the Inhibitory Control
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Th333 Structural Development and Functional Connectivity of Executive Function and ADHD in Children
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Th334 Sex dependency of response inhibition network during stop-signal task performance
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Higher Cognitive Functions Other

Th335 Neural bases of external and internal attention in remembering future intentions: a MEG study
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Th336 Static functional connectivity at rest associated with patterns of ongoing thought
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Th337 The lateral occipitotemporal cortex – A hub for action representations?
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Th338 Neural Correlates of Spiritual Feelings
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Th339 Reading comprehension and mind-wandering relate to perceptually-coupled and decoupled cognition
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Th340 The Neurocognitive Patterns Related to Poor Details in Ongoing Thoughts
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Th341 Extremely Weak Relationship between Gyrification and Intelligence
Samuel Mathias[1], Emma Knowles[1], Josephine Mollon[1], Amanda Rodrigue[1], Marinka Koenis[2], Aaron Alexander-Bloch[3], Anderson Winkler[4], Rene Olvera[5], Ravindranath Duggirala[6], Harald Göring[6], Joanne Curran[6], Peter Fox[5], Laura Almasy[7], John Blangero[6], David Glahn[1]
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Th342 Neural correlates of emotional interference inhibition tested with a task battery
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Th343 Neural correlates of differential finger gesture imitation deficits in left hemisphere stroke
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Th344 Multivariate links between cognition and structural-level connectomics in temporal lobe epilepsy
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Th345 Cognitive phenotypes in MS: underlying changes in structural connectivity
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Th346 The effect of satiation on neural cognitive control and reward processes
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Th347 Differential topological reorganization of functional connectivity in two high IQ children profiles
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Th348 Brain Entropy is Associated with Creativity
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Th349 Structural Correlates of Creativity Training in Chefs
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Th350 Neural and pupillary mechanisms underlying verbal fluency and creative idea generation
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Th351 Dynamical Signatures during Loss of Consciousness in Human and Rat Brain Functional Networks
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Th352 Neural substrates of religious fundamentalism and mysticism differentiated by lesion network mapping
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Th353 Dynamics of the circuits for body motion processing at 9.4 T fMRI
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Th354 On the contribution of visual statistics to changes of MEG functional connectivity patterns
Chiara De Giorgi[1], Sara Petrichella[2], Paolo Papale[3], Andrea Leo[3], Emilano Ricciardi[3], Pietro Pietrini[3], Maurizio Corbetta[4], Stefania Della Penna[5], Viviana Betti[2]
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Th355 Rehearsal of tactile working memory
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Th356 Changes in the brain correlates of performing the n-back working memory task across the lifespan
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Th357 Identifying unique activations across 4 cognitive abilities in 12 fMRI tasks
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Th358 Comparing the Neural Basis of Deception and Truth-telling: A Meta-analysis Study
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Th359 The relation between perfectionism and action monitoring
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Imagery

Th360 Salient images: Evidence for a component process architecture for visual imagination
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Th361 The neural signature of mental motor imagery depends on experience
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Th362 Decoding self-determined mental imagery through the spatial covariance of MEG signal
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Th363 Hippocampal Connectivity highlights the Dissociation between Word Fluency and Creative Cognition
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Th364 Discriminating functional connectivity patterns during motor imagery and execution
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Th365 Distinct Mapping of Facial Motor Execution and Imagery within the Primary Motor Cortex Sectors
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Th366* Basal Ganglia-Cerebellar Impact on Performance After Motor Imagery With Real-time fMRI Neurofeedback
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Th367* Attentuating Neural Threat Expression with Imagination
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Music

Th368 Music-induced Analgesia: Evidence from An EEG Study
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Th369 The neuroanatomy of musical expertise: A systematic review and meta-analysis of neuroimaging studies
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Th370 Songs as a verbal learning tool after stroke: behavioural and structural neuroimaging evidence
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Th371 The prediction game: how music balances predictability and uncertainty to engage the reward system
Benjamin Gold[1], Marcus Pearce[2], Ernest Mas-Herrero[1], Alain Dagher[1], Robert Zatorre[1]
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Th372 Neural Correlates of Rhythm Processing: ERP and oscillatory response
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Th373 The feature-based neural correlates of music listening
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Th374 Differential sensitivity to spectrotemporal cues supports brain asymmetry for speech and music
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Th375 Dynamic functional connectivity reflects changes in emotional experience in response to music
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Th376 Musical Beat Salience Modulates Functional Network Centrality
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Th377 Resting-state connectivity in absolute pitch: a direct and conceptual replication attempt
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Th378 Use it or lose it: Smaller age-related differences in cortical thickness associated with musicality
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Th379 Nothing compares to you - music genre perception across space and time
Peer Herholz[1,2], Mirjam Schneider[3], Klara Brinkmann[4], Marie Frerich[4], Jean-Baptiste Poline[1]
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Th380 Inter-subject correlation analysis of EEG data during listening to popular music
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Th381 The neural correlates of musical improvisation in trained and untrained singers
Boris Kleber[1], Davide Ligato[1], Ole Heggli[1], Anna Zamorano[2], Peter Vuust[1]
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Th382 Neural determinants of beauty judgments of music during naturalistic listening
Elvira Brattico[1], Alessandra Brusa[2], Henrique Fernandes[3], Thomas Jacobsen[4], Petri Toiviainen[5], Alice Mado Proverbio[2]
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Th383 Effect of Active vs Passive Experience On Functional Network Centrality During Music Listening
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Th384 Timbre-processing as a function of instrumental training?
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Th385 Multivariate analyses of EEG patterns reveal single-trial information on absolute and relative pitch
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Th386 Functional connectivity in the dorsal stream during word learning in absolute pitch musicians
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Th387 Impaired short-term memory in congenital amusia: encoding and retrieval of music and speech
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Th388 Cortical and cerebellar differences between early-trained and late-trained musicians
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Th389 Percussing the Brain: Functional Neuroplasticity of Rhythm Training in Percussionists
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Th390 Effect of musicianship on resting-state functional connectivity in auditory and motor networks
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Th391 Early postnatal music intervention in preterm birth reorganizes salience network interactions
Djalel-Eddine Meskaldji[1,2], Lara Lordier[2], Marie Pascale Pittet[2], Cristina Borradori-Tolsa[2], Francois Lazeyras[3], Didier Grandjean[2], Dimitri Van De Ville[1,2], Petra Hüppi[2]
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Th392 Increased insula connectivity with speech motor regions in trained singers during resting-state
Anna Zamorano[1], Robert Zatorre[2], Peter Vuust[3], Niels Birbaumer[4], Boris Kleber[3]
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Th393 Children Sensitive to Rhythm Violation Perform Better in Judging Speech Intonation
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Reasoning and Problem Solving

Th394 Resting-state brain rhythms predict fluid intelligence in young adults
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Th395 Brain state-dependent enhancement of creative cognition
Amna Ghani[1,2,3,4], Caroline Di Bernardi Luft[5,3], Joydeep Bhattacharya[3]
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Th396 The Effect of Conflict Processing on Reasoning Networks
Yanjun Wei[1]
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Space, Time and Number Coding

Th397 Numerical and non-numerical representations are separable and independently modulated by attention
Elisa Castaldi[1], Manuela Piazza[2], Stanislas Dehaene[3], Alexandre Vignaud[3], Evelyn Eger[3]
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Th398 Left hemispheric lateralization for temporal order processing
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Th399 EEG correlates of temporal belief updating and surprise: a Bayesian computational approach
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Th400 A Hierarchy of Topographic Maps for Visual Event Timing in Human Association Cortex
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Th401 Are there distinct systems for time perception in the sub- and supra-second range?
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Th402 Developmental Number Perception Differences Between Children and Young Adults Assessed with fMRI
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Th403 The Neural Substrates of Time Perception: A Meta-analysis of Neuroimaging Research
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Th404 Cognitive neuroscience needs 7T: comparing numerosity maps at 3T and 7T MRI
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Th405 Monotonic responses to numerosity in early visual cortex are eccentricity dependent
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Th406 Grid-like representation in Human entorhinal cortex during freely visual view
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Th407 A Pilot Study for Human Brain Activations During Virtual Reality-based Maze Navigation Using fMRI
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Th408 Is the PPA a visual area? BOLD responses to incidental spatial cues in naturalistic stimulation
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Th409 Approximate and exact arithmetic depend similarly on semantic processing
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Th410 Tracking numerical and continuous magnitude processing by frequency-tagged neuromagnetic responses
Amandine Van Rinsveld[1], Vincent Wens[2,3], Mathieu Guillaume[1], Anthony Beuel[1], Wim Gevers[1], Xavier De Tiège[2,3], Alain Content[1]
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Th411 Investigating the link between bodily self-consciousness (BSC) and spatial navigation system
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Th412 Rule-based or fact retrieval: one and zero multiplications are not equally processed
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Th413 Subitizing and Counting: A fMRI Experiment and a Neural Network Model
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IMAGING METHODS

EEG

Th414 Using 3D scanning for EEG electrodes positioning
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Th415 Identification of EEG features of upper- and lower- limb motor imagery, by heuristic BCI with L-FTM
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Th416 Patterned Functional Network Disruption in Amyotrophic Lateral Sclerosis

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Th417 Frequency-specific connectivity patterns in the default mode network

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Th418 Mapping motor-related modulations of neural activity using high-density electroencephalography

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Th419 The influence of the beliefs about the type of the second player in the Ultimatum Game: an ERP study

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Th420 Behavioral and ERP evidences of impaired inhibitory control in test anxiety

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Th421 Intelligence and Complexity of Resting Brain: Gender matters

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Th422 Diminished Engagement of Attentive Brain States to Faces Predicts Later Autism Spectrum Disorder

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Th423 The estimation of Granger causality on single EEG trials by means of penalized regressions

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Th424 The cortical oscillatory patterns associated with varying levels of cognitive effort

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Th425 EEG Microstate Profiles Identify Psychometrically Distinct Cognitive Components of Fluid Reasoning

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Th426 Interhemispheric auditory connectivity and language lateralization: A combined EEG-DTI study

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Th427 Mind-act-upon-mind:Brain-to-brain synchrony in lover-lover dyads revealed by EEG-based hyperscanning

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Th428 Neural basis of social comparisons in depression/social anxiety using Electroencephalography

Valentina Paz[1], Eliana Nicolaisen-Sobesky[1], Gabriela Fernandez-Theoduloz[1], Alfonso Pérez[1], Francisco Cervantes Constantino[1], Dominique Kessel[2], Álvaro Cabana[1], Victoria Gradin[1]
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Th429 Inter-brain synchronization during a cooperative task under shared mixed reality environment

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Th430 Weighting of neural prediction error by rhythmic complexity: a predictive coding account using MMN
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Th431 Understanding EEG Global Signal: A Large-scale Brain Network Perspective
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Th432 A computational trial-by-trial EEG analysis of hierarchical prediction errors during reward learning
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Th433 EEG Cross-Frequency Phase Coupling as an Index of Memory Matching in Visual Search
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Th434 Improving inhibitory control using neurofeedback to modulate the brain's beta rhythm
Nadja Enz[1], Jemima Schmidt[1], Kate Nolan[1], Emma Wall[1], Aisling Martin[1], Magdalena Gippert[1], Matthew Mitchell[1], Laura Rueda-Delgado[1], Robert Whelan[1], Kathy Ruddy[1]
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Th435 Spatial and temporal validation of Ocular Artifact Obtained through a Automatic Extraction Method
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Th436 Interhemispheric transfer during reading in good and poor readers: an EEG study
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Th437 Robust correlation between functional and structural connectivity in resting state EEG
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Th438 Time-varying effective EEG source connectivity: the optimization of model parameters
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Th439 TMS based neurofeedback training allows to decode movement intentions for single fingers
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Th440 High test-retest reliability of EEG connectivity supports suitability as infant autism biomarker
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Th441 Effective connectivity in Cheyne-Stokes respiration from low-density EEG: a methodological framework
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Th442 Brain connectivity modulation after exoskeleton gait in chronic stroke survivors: a pilot study
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Th443 Face recognition ability is manifest in early dynamic decoding of face-orientation selectivity
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Th444 Response inhibition deficits predictive of substance use relapse in an incarcerated sample
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Th445 Effects of hypoxia on N100 and P300 event related potentials during visuospatial attention control
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Th446 Simultaneous EEG-fMRI-Eye Tracker Study for Measuring Subject's Vigilance during Resting-State
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Th447 Relationship of Brain States and Music Perception with Uniform Manifold Approximation and Projection

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Th448 An ERPs study on response inhibition of schizophrenia and obsessive-compulsive patients

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Th449 The time course of single-trial EEG classification in clinical neuroscience

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Th450 Correlation of Brain Rhythmic Activity in Resting State and Behaviors in Sustained Attention Task

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Th451 The influence of music assisted therapy on college students with left-behind experience

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Th452 Effect of Emotional Stimuli on Cognitive Functions in Adult ADHD

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Th453 Temporal and Spatial effects of Movement-induced Analgesia and Its Neural Mechanisms

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Th454 Correspondence of Late Positive Potentials as biomarker of compassion: An EEG Hyperscanning study

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Th455 Pre-stimulus EEG microstates correlate with anticipatory alpha rhythms

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Th456 Subcortical dynamics are detectable with high-density EEG source imaging

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Th457 Intranasal oxytocin enhances de-coupling of neural oscillations at rest

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Th458 How to Collect Genuine TEPs: a Graphical User Interface to Control Data Quality in Real-time

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Th459 Neural signature for non-face real-world visual expertise: a review and meta-analysis

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Th460 Abnormalities of resting state cortical EEG rhythms in subjects with neurodegenerative diseases

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Th461 NEUROMODULATION OF CORTICAL EXCITABILITY IN PARKINSON'S DISEASE PATIENTS

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Th462 Effects of HIV on resting-state functional cortical connectivity

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Th463 A Demand-Selection task to study effort-avoidance employing EEG Spectro-Temporal analysis

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Th464 The Reproducibility and Reliability of EEG Microstates

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Th465 Assessing Noise and Data Quality in EEG data - Bootstrapped SE as a General and Principled Method

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Th466 Theta and spindle oscillations are associated with social bias reduction during sleep

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Th467 A hybrid electrode for evaluating brain activity directly after transcranial electrical stimulation

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Th468 EEG functional connectivity networks during a letter-speech sound binding task in adult dyslexics

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Th469 Automatic cleaning of movement artifacts in mobile EEG data using Artifact Subspace Reconstruction

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Th470 Narrowband analysis for the mental workload assessment

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Th471 EEG Microstates Temporal Dynamics Differentiate Mood and Anxiety Disorders from Healthy Subjects

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Th472 Contingent negative variation as a biomarker of hypoxia effects on visuospatial Attention Networks

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Th473 Complex cortical dynamics in arithmetic problem solving

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Th474 EEG biomarkers for experienced versus observed/vicarious pain

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Th475 Source localization of intracranial single pulse electrical stimulation

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Th476 Are time efficient brain networks also energy efficient? A simultaneous EEG - FDG-PET study at rest

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Th477 Altered Cortical and Postural Response to Balance Perturbation in Traumatic Brain Injury
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Th478 Dysregulating Electrophysiology and Behavior via an Emotionally Evocative Stop-Signal Task
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Th479 Motor Imagery Classification using Cascade ResNet-LSTM
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Th480 Alpha Oscillation in Phantom Limb Pain Patients: A Neuropathic Pain Signature
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Th481 An EEG Study of Induced Emotion by Manipulating Feedback During Decision Making Task
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Th482* AUTOMAGIC: Standardized Preprocessing of Big EEG Data
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Imaging Methods Other

Th483 A Framework to Study the Impact of Initial Geometry on Cortical Morphogenesis
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Th484 Fast Macromolecular Proton Fraction (MPF) Maps using a Calibrated Synthetic Fast Reference Image
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Th485 Estimating absolute conductivities for head models through bEIT: the issues are not the amplitudes
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Th486 Event-related analysis based on DMN fluctuations for source localization of interictal discharges
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Th487 Removing noise from sodium MR Images by means of a Denoising Autoencoder
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Th488 Differential cortical activation during covert vs. overt language generation assessed using HD-DOT
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Th489 Detection of Magnetic Nanoparticle Signals with a Compact OPM towards Next Generation Neuroimaging
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Th490 Simultaneous Estimation of T1, T2, T2* and Relative-B1 Using MR Fingerprinting with EPI Readout
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Th491 Brain Mechanical Properties and Impaired Balance Reactions in Children with Cerebral Palsy
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Th492 Relationship between SLF injury and visual pursuit in HI-BI patients with impaired consciousness
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Th493 Sensorimotor and cognitive contributions to the Nine-Hole Peg Test
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Th494 Investigating Psychosis Spectrum White Matter Glutamate Alterations with GluCEST Imaging
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Th495 Myelin Mapping Using 3D Adiabatic Inversion Recovery Ultrashort Echo Time (3D IR-UTE) Sequences
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Th496 Lead Suite - a Powerful Imaging Toolbox for Epilepsy Patients with Deep Brain Stimulation
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Imaging of CLARITY

Th497 Human Microstructural Connectomics – Validation with histology and CLARITY
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Th498 Segmentation of cerebral cortical microvasculature using an enhanced multi-scale Frangi approach
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NIRS

Th499 Near-Infrared Spectroscopy based Neurofeedback as Treatment of Swallowing Disorders
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Th500 The spatiotemporal hemodynamic changes from neonates to elderlies investigated by fNIRS
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Th501 Detecting motor imagery using frequency domain functional NIRS
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Th502 Characterizing Physiological Components of Nirs-Infrared Spectroscopy Signal under Hypercapnia
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Th503 Finite-State Hb Transition Network Provides Access to Disease-Sensitive Dense Feature Spaces
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Th504 Decoding visual stimulus position from high density diffuse optical tomography neuroimaging data
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Th505* Using fNIRS to study fronto-temporoparietal connectivity in awake infants
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Th506 Identifying individuals using fNIRS-based cortical connectomes
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Th507 Fluctuations in cerebral oxygenated hemoglobin and water concentrations are inversely correlated
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Th508 Prefrontal cortex challenged by multitasking: a functional near-infrared spectroscopy study
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Th509 Systemic hemodynamic influences in functional Near-Infrared Spectroscopy – a multimodal study
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Th510 Using fNIRS as a biomarker for executive function atypicality in Autism Spectrum Disorder
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Th511 Neural correlates of lying and lie detection in a two-person game measured with fNIRS
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Th512 Interpersonal brain synchronization with instructor compensates for student's sleep deprivation
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Th513 Neural Mechanism for Mother-Child Relationship
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Th514 Neck Proprioceptive Inputs Integration For Spatial Orientation
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Th515 Motion artifacts removal method for fNIRS data to examine brain activity during dart throwing
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Th516 Neural dynamics of attentional cueing revealed by fast optical imaging
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Th517 FNIRS brain-to-brain synchrony during social cooperation in children with Autism
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Th518 Advancing optical methods to reconstruct the first images of infant functional activation in Africa
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Th519 FNIRS Responses in Professional Violinists While Playing Duets
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Th520 Neural correlates of cognitive-motor dual tasks
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Th521 Habituation and Novelty Detection fNIRS brain responses from 5 to 12 months of age: The Gambia, UK
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Th522 Functional Connectivity-Based Parcellation of Prefrontal Cortex : A high-resolution fNIRS Study
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Th523 Monitoring Brain Activity during Rhythmic Music Therapy: an fNIRS Investigation
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Th524 Assessment of Cognitive Reserve using Near Infrared Spectroscopy
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Th525 Photogrammetry for Localizing 3D Position of Multi-channel NIRS Optodes using multiple snapshots
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Th526 The role of timing in the consolidation of human's first memories
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Th527 Prefrontal Functional Connectivity during Cognitive Tasks in Depression: An fNIRS Study
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Non-BOLD fMRI

Th528 Resting-state diffusion fMRI in the rat brain at ultra-high field
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Th529 Optimization of Canonical Hemodynamic Response Function in Perfusion fMRI
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Th530 Investigating an optimal duration of acquisition in resting-state ASL
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Th531 Changes in Cerebral Stiffness Relative to ToF Measured Arterial Dilation During Visual Activation
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Th532 Organization of semantic verbal fluency brain network assessed by dual-echo arterial spin labeling
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Th533 Changes in Brain Structure and Function in Cluster Headache and Predictors for Treatment Response
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Th534 Multi-parametric quantitative fMRI imaging in humans during fixation and visual stimulation
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Th535 Comparing VASO and BOLD responses elicited by different hand movement rates at 7T
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Th536 Peripheral inflammatory markers predict exercise-induced hippocampal blood flow changes
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Th537 Laminar Signal Change of BOLD and VASO in Human Visual Cortex at 7T
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Optical coherence tomography (OCT)

Th538 Surface and thickness of cerebellar cortex with polarization sensitive optical coherence tomography
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PET

Th539 DRD2 genotype-based variants modulates D2 receptor distribution in ventral striatum
Mikaeel Valli[1], Sang Soo Cho[2], Mario Masellis[3], Robert Chen[4], Pablo Rusjan[2], Jinhee Kim[2], Yuko Koshimori[5], Alexander Mihaescu[2], Antonio Strafella[2]
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Th540 Optimization of partial volume correction parameters using surface based analyses in FDG-PET
Victor Montal[1,2], Jordi Pegueroles[1,2], Eduard Vilaplana[1,2], Rafael Blesa[1], Alberto Lleó[1,2], Juan Fortea[1,2,3]
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Th541 High-temporal resolution resting-state metabolic connectivity using simultaneous BOLD-fMRI/FDG-PET
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Th542 EEG spectral contribution to glucose PET in healthy subjects and severely brain-injured patients
Jitka Annen[1], Federico Raimondo[1], Gianluca Frasso[2], Helena Cassol[1], Manon Carriere[1], Rajanikant Panda[1], Aurore Thibaut[1], Camille Chatelle[1], Steven Laureys[1]
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Th543 PCA to accurately create a 18F-Flutemetamol PET template for spatial normalization
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Th544 Neuroinflammatory changes of the maternal immune activation animal model of schizophrenia
Luis Romero[1], Marta Casquero-Veiga[1,2], Lucía Vicario[3], Jordi Llop[4], Karina MacDowell[5,2,6], Juan Carlos Leza[7,2,6], Manuel Desco[3,2,1,8], Maria Luisa Soto-Montenegro[1,2]
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Th545 Quantifying Skull Binding in Tau PET Studies using a Subject-Level CT-based Skull Mask
Shaney Flores[1], Brian Gordon[1], Yi Su[2], Jon Christensen[1], Aylin Dincer[1], Adedamola Adedokun[1], Russ Hornbeck[1], John Morris[1], Tammie Benzinger[1]
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Th546 Head to head comparison of [18F] florbetaben and [18F] flutemetamol for amyloid imaging in Alzheimer
Yeong Sim Choe[1,2], Soo Hyun Cho[2,3], Hee Jin Kim[2,3], Hyemin Jang[2,3], Jun Pyo Kim[2,3], Duk L. Na[2,3,4,1], Seongbeom Park[2,3], Sang Won Seo[2,1,5,6]
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Th547 Hypometabolism and Metabolic Connectivity in Internet Gaming Disorder and Alcohol Use Disorder
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Th548 Metabolic and structural changes of chronic subjective tinnitus in patients with MCI
Heejung Kim[1], Da Young Lee[2], Sang-Yeon Lee[3], Young Ho Kim[4], Seong A Shin[1], Sang Jeong Kim[5], Jae Sung Lee[6], Jun-Young Lee[7], Yu Kyeong Kim[1]
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Polarized light imaging (PLI)

Th549 Diattenuation Imaging of Brain Tissue Explored by Finite-Difference Time-Domain Simulations
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MODELING AND ANALYSIS METHODS

Exploratory Modeling and Artifact Removal

Th550 A method for decomposing multimodal neuroimaging data into trajectories of ageing
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Th551 Denoising Ultra-High Field Multi-dimensional MRI with Local Complex PCA
Pierre-Louis Bazin[1], Anneke Alkemade[2], Wietske van der Zwaag[3], Matthan Caan[4], Martijn Mulder[5], Birte Forstmann[2]
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Th552 A robust convolutional neural network model for reducing motion artifacts in resting-state fMRI data
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Th553 EEG artifact correction for real-time approaches and hypothesis testing
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Th554 FMRI Dynamic Phantom for Improved Detection of Resting-State Brain Networks
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Th555 A Local Model of Retinotopically Organized Regions for Partial Reconstruction
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Image Registration and Computational Anatomy

Th556 Extracting feature from structural brain image using convolutional auto-encoder
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Th557 Computationally efficient depth-mapping scheme for human midbrain
David Ress[1], Paulina Truong[1], Jung Hwan Kim[1], Ricky Savjani[2]
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Th558 Aligning Images of Large Human Brain Sections on a Cellular Level using Bisected Cells
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Th559 A Biologically Plausible Symmetric Prior for the Regularisation of Elastic Deformations (SPRED)
Frederik Lange[1], Stephen Smith[1], Jesper Andersson[1]
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Th560* A Method for Automatic Demarcation of Sulcal and Gyral Regions on the Cortical Surface
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Th561 Manifold-based exploration of the links between cortical morphology and functional architecture
Zhongyi Sun[1], Denis Rivière[1], Clara Fischer[1], Antoine Grigis[1], Cyril Poupon[1], Jean-François Mangin[1]
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Th562 A generalizable method for multilayer flat-map projection of hippocampal subfields
Nikos Priovoulos[1], Dimo Ivanov[2], Benedikt Poser[2], Frans Verhey[1], Heidi Jacobs[3,1,2]
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Th563 Evaluation of Brain Normalization Methods in Gioma Patients
Henry Chen[1], Vinodh Kumar[1], Jason Johnson[1], Kyle Noll[1], Sujit Prabhu[1], Donald Schomer[1], Ho-Ling Liu[1]
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Th564 Ultra-high Field MRI Registration Using Mutual Information of Images in Scale Space
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Th565 Hierarchical modeling of Alzheimer's disease progression from a large longitudinal MRI data set
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Th566 Correction of B0 distortion in high-resolution ex vivo brains with reversed polarity acquisitions
Robert Frost[1], Divya Varadarajan[1], Jesper Andersson[2], Emma Boyd[1], Lee Tirrell[1], Bram Diamond[1], Leah Morgan[1], Allison Stevens[1], Jonathan Polimeni[1], Bruce Fischl[1,3], Andre van der Kouwe[1]
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Th567 A novel, geometry-based method for the analysis of hippocampal thickness
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Th568 U-Net Model for Brain Extraction: Training in Humans and Transferring to Non-human Primates
Nanditha Rajamani[1], Xindi Wang[2], Jae Wook Cho[1], Annachiara Korchmaros[1], Lei Ai[1], Alisa Omelchenko[3], R. Cameron Craddock[4], Michael milham[1], Ting Xu[1]
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Th569 A method to describe folding patterns across species
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Motion Correction and Preprocessing

Th570 Distortion correction for retinotopic mapping at ultra-high magnetic fields
David Linhardt[1], Allan Hummer[1], Michael Woletz[1], Christian Windischberger[1]
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Th571 Global Signal Regression Enhances Association between Resting-State FMRI and Behavior
Jingwei Li[1], Ru Kong[1], Raphaël Liégeois[2], Csaba Orban[1], Nanbo Sun[1], Avram Holmes[3], Mert Sabuncu[4], Tian Ge[5,6], B. T. Thomas Yeo[1,7,8]
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Th572 Model based fMRI denoising
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Th573 Quality Control Metrics for Assessing the Quality of fMRI Data in Functional Connectivity Studies
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Th574 The Impact of Spatial Normalization strategies on resting state fMRI
Zhao Qing[1], Xin Zhang[1], meiping ye[1], Sichu Wu[1], Xin Wang[1], Zuzana Nedelska[2], Jakub Hort[2], Bing Zhang[1]
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Th575 High Frequency Contamination of Motion Estimates in Single-band fMRI
Caterina Gratton[1], Rebecca Coalson[2], Ally Dworetsky[2], Babatunde Adeyemo[2], Deanna Barch[2], Daniel Tranel[3], Oscar Miranda-Dominguez[4], Damien Fair[4], Nico Dosenbach[2], Abraham Snyder[2], Joel Perlmutter[2], Steven Petersen[2], Meghan Campbell[2]
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Th576 Evaluation of motion scrubbing in task-based fMRI using open data
Michael Jones[1], Zhenchen Zhu[1], Jonathan Peelle[1]
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Th577 The Developmental Cognition and Neuroimaging (DCAN) Lab's Functional MRI Preprocessing Pipelines
Darrick Sturgeon[1], Anders Perrone[1], Emma Schifsky[1], Eric Earl[1], Jonathan Uriarte-Lopez[1], Oscar Miranda-Dominguez[1], Anajani Ragothaman[1], Eric Feczko[2], Donald Hagler[3], Richard Watts[4], Damien Fair[1]
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Th578 Comparison of FSL FIX vs. CompCor for reduction of task-related noise
Marie-Eve Hoeppli[1], Martin Garenfeld[2], Christian Mortensen[2], Hadas Nahman-Averbuch[1], Christopher King[1], Robert Coghill[1]
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Th579 Effects of motion and motion correction on the structure of brain functional connectivity
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Th580 A comparison of fMRIPrep and HCP Pipeline preprocessing of an fMRI dataset in the surface and volume
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Th581 Importance of non-linearities in confounds for UK Biobank brain imaging data
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Th582 To scrub or not to scrub: motion features during fMRI scanning strongly vary across subjects
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Th583 Differentiating neural and non-neural components in fMRI using cross-cortical depth delay patterns
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Th584* Real-time fMRI Motion Tracking: should I stop and restart the scan?
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Th585 Qualitative assessment for clinical resting state fMRI: Voxel-wise Biopsy of functional Connectivity
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Th586 Wasserstein Generative Adversarial Network (WGAN) for Realistic Motion Correction in 3D MPRAGE Image
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Th587* Spatial normalization in fMRIPrep
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Other Methods

Th588 Is Visual Image Classification Possible with Brain Signal?-MEG Study
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Th589 On the use of the Scaled False discovery rate in connectomic studies
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Th590 Clustering insula structural alteration using density-based approach: a DBSCAN application to brain
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Th591 Scanner Invariant Representations
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Th592 A statistical mechanics approach to modelling neurotransmitter-mediated cortical interactions
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Th593 Naturalistic viewing paradigm using eye-tracking based 360° movie clip
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PET Modeling and Analysis

Th594 Comparison of MR-less FBB PET Quantification Methods
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Th595 Non-invasive biomarkers via network integration for early prediction of Alzheimer's disease
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Univariate Modeling

Th596 Multiple testing correction over contrasts in brain imaging
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Th597 Non-Parametric Combination (NPC) for treatment of missing data
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Th598* Cluster Failure or Power Failure? Evaluating Sensitivity in Cluster-Level Inference
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Th599 Modelling Lesion Masks: Comparison of Classical, Bias-Adjusted and Bayesian Regression Methods
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Th600 To Smooth or not to smooth – Threshold-free cluster enhancement revisited
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Th601 BLM: Parallelized Computing for Big Linear Models
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MOTOR BEHAVIOR

Brain Machine Interface

Th602 Looking for neurophysiological correlates of brain-computer interface learning
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Th603 Decoding of unilateral finger-movement patterns from high-density scalp EEG: a data-driven approach
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Th604 Brain-communication: Decoding speech imagery from MEG signals
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Th605 Incremental SVM training improves real-time neurofeedback brain state classification
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Th606 Differential brain activities for various grasping movements measured by human electroencephalogram
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Th607 Dynamic functional beta-band connectivity during BCI learning supports sustained attention
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Th608 Decoding movement direction from ECoG for the instructed-delay center-out task performed with a pen
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Th609 The effect of session-specific region definition in multi-session fMRI neurofeedback
Anita Tursic[1,2], Santiago Muñoz Moldes[3], Michael Lührs[1,2], Judith Eck[1,2], Amaia Benitez[1], Rainer Goebel[1,2,4]
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Th610 Multi-frequency visual stimuli to predict steady-state visual evoked potential (SSVEP) response
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Mirror System

Th611 The Mirror Neuron System in aging: compensation by reorganization of the ventral premotor cortex
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Th612 Somatotopic organization of the subcortical structures involved in action execution and observation
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Th613 Modulation of motor resonance by the reward value associated with observed actions
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Th614 Mirror Neuron activations in encoding of psychic pain in Borderline Personality Disorder
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Th615 Mirror Neurons affect Autonomic Nervous System regulations: A physiological and fMRI investigation
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Th616 Similarity and synchronization of BOLD signal in an instructive origami learning setting
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Th617 A common synergy-based code for execution, imagery and observation of hand movements
Andrea Leo[1], Giacomo Handjaras[1], Paolo Papale[1], Luca Cecchetti[1], Matteo Bianchi[2], Antonio Bicchi[3], Pietro Pietrini[1], Emiliano Ricciardi[1]
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Th618 The Role of SII in Action Observation
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Th619 The brain as a mirror for understanding actions
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Motor Behavior Other

Th620 Different proactive brain processing explains the gender-difference in speed-accuracy trade-off
Valentina Bianco[1], Marika Berchicci[2], Federico Quinzi[3], Rinaldo Perri[4], Donatella Spinelli[2], Francesco Di Russo[2]
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Th621 Multimodal analysis of the macaque monkey frontal lobe
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Th622 Modulating the Neural Networks underlying Motor Sequence Learning using Prefrontal Repetitive TMS
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Th623 Motor fatigability is associated with connectivity changes between premotor areas and M1
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Th624 Motor skill learning and intermanual transfer: behavioral and neuroimaging correlates
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Th625 Community structure of anatomical and functional muscle networks
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Th626 Phase Coupling of Bilateral Motor Areas Decreases From Bipedal to Single Leg Stance
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Th627 Structural and Functional Differences in Precentral Gyrus between Badminton Player and Novice
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Motor Planning and Execution

Th628 Bilateral motor network activation during unilateral handgrip contractions is intensity dependent
Justin Andrushko[1], Layla Gould[2], Doug Renshaw[1], Chelsea Ekstrand[3], Ron Borowsky[3], Jon Farthing[1]
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Th629 Modality-invariant Representation of Spatial Targets Within V1 during Action Planning
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Th630 Primary motor cortex deactivation as a new mechanism in conversion paralysis
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Th631 Neural Representations of Action: Comparing Meta-Analyses of Imagery, Observation, and Execution
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Th632 A BIDS pipeline to compute the spatial correlation between ECoG and fMRI activity
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Th633 The brain in willed action: a meta-analytical review of imaging studies on intentionality and agency
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Th634 Involvement of the Dorsal Premotor Cortex in Goal-directed Motor Behavior
Yoshihisa Nakayama[1], Sho Sugawara[2,3], Masaki Fukunaga[2,3], Yuki Hamano[2], Norihiro Sadato[2,3], Yukio Nishimura[1]
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Th635 Posterior parietal cortex directly modulates corticofugal output: an intraoperative study
Davide Giampiccolo[1,2], Vincenzo Tramontano[3], Pietro Meneghelli[1], Francesco Sala[1,2], Luigi Cattaneo[2]
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Th636 VTA-M1 pathway contributes to human motivated motor outputs
Sho Sugawara[1,2], Yoshihisa Nakayama[3], Masaki Fukunaga[1,2], Tetsuya Yamamoto[1], Norihiro Sadato[1,2], Yukio Nishimura[3]
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Th637 Multimodal investigation of motor inhibition in professional Drummers
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Th638 Using subjective expectations to model the neural underpinnings of proactive inhibition
Pascal Pas[1], Stefan Du Plessis[2], Hanna van den Munkhof[3], Thomas Gladwin[4], Matthijs Vink[5]
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Th639 Movement Preparation Modulates Activity Patterns in Auditory Cortex During Command-Driven Actions
Daniel Gale[1], Claire Honda[1], Ingrid Johnsrude[2], Randall Flanagan[1], Jason Gallivan[1]
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Th640 Exploration of cortical hemodynamic signals related to golf-putting performance: An fNIRS study
Hiroki Sato[1], Kodai Takano[1]
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Th641 Looking at the agent: Neural signatures of self-generated and external-generated errors
Alba Gomez-Andres[1,2], David Cucurell[1,2], Toni Cunillera[1], Antoni Rodriguez-Fornells[1,2]
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Th642 Action kinematics as an organising principle in the cortical control of human hand movement
James Kolasinski[1], Diana Dima[1], David Mehler[1], Slawomir Kusmia[1], Holly Rossiter[1]
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Th643 Hemispheric preferences for the control of slow and fast finger tapping rates
Christian Alexander Kell[1], Anja Pflug[2], Florian Gompf[2], Muthuraman Muthuraman[3], Sergiu Groppa[4]
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Th644 RSA reveals planning of single and sequential finger movements in cortical motor areas
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Th645 Two Corticocerebellar Systems in Primary Motor Cortex Identified Using 7T Resting State fMRI
Thomas Zeffiro[1], Salvatore Torrisi[2], Erin O'Connor[1], Assia Jaillard[3], Christian Grillon[2], monique Ernst[2]
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Th646 Distinct neural correlates of a reward-based motor skill learning in early and advanced stages
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Th647 Building a cognitive map of a reward-based motor skill learning
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Visuo-Motor Functions

Th648 Neural mechanisms for adaptive change of behaviors while car-driving
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Th649 Attentional balancing of visual vs proprioceptive information during manual actions
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Th650 Effects of aging on the sensorimotor network during unimanual motor learning – an fMRI/EEG study
Sabrina Chettouf[1,2,3], Jan Paul Triebkorn[1,3,4], Michael Schirner[1,3,4], Joelle Zimmerman[5], Andreas Daffertshofer[2], Petra Ritter[1,3,4]
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Th651 Age-related changes of the visuomotor network in the human brain
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Th652 Statistical analysis of an fMRI reach-to-grasp task including behavioral covariates using LISA
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Th653 Spatial and temporal demands modulate functional lateralization during bimanual visuomotor control
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Th654 The (motor) rhythm of visual perception
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Th655 Robotically-driven proprioceptive recalibration affects sensorimotor aspects of empathy for pain
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Th656 Motor cortical inhibition during concurrent action execution and observation
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Th657 Sensorimotor information and negative BOLD in the deprived visual cortex of congenitally blind
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NEUROANATOMY

Anatomy and Functional Systems

Th658 Phase-coupled modules in human stereo-tactical EEG recordings
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Th659 Integrating dMRI Structural Connectivity with Functional data from Direct Electrical Stimulation
Maciej Jedynak[1,2], Lena Trebaul[1,2], Jean-Didier Lemarechal[1,2,3], Nicole Labra[4,5], Pierre Deman[1,2], Viateur Tuyisenge[1,2], François Tadel[1,2], Blandine Chanteloup-Forêt[1,2], Carole Saubat[1,2], Gina Reyes Mejia[1,2], Cyril Poupon[4,5], Jean-François Mangin[4,5], Olivier David[1,2], F-Tract Consortium[1,2]
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Th660 Local-to-distant development of cerebrocerebellar sensorimotor network in human brain
Eiichi Naito[1], Kaoru Amemiya[1], Tomoyo Morita[2,1], Daisuke Saito[3,4], Midori Ban[5], Koji Shimada[4,6], Yuko Okamoto[7,4], Hirotaka Kosaka[4,6,8], Hidehiko Okazawa[4,6], Minoru Asada[2,1]
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Th661 A 3D Reconstruction of the Cerebellum for Dejerines' Atlas
Adrien Constantin[1], Florent Krust[1], Odile Plaisant[1,2], Bernard Moxham[3,2], Alexis Guédon[1,2]
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Th662 Correspondence between structure and function in human brain using MRI data of 15,000+ individuals
Na Luo[1,2], Jing Sui[1,2,3,4], Jessica Turner[5], Zening Fu[3], Lingzhong Fan[1,2], Anees Abrol[3], Eswar Damaraju[3], Jiayu Chen[3], Dongdong Lin[3], David Glahn[6], Amanda Rodrigue[6], Vince Calhoun[3,6,7]
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Th663 Connectional topographies of human and macaque inferior parietal lobe
Suhas Vijayakumar[1], Guilherme Blazquez Freches[1], Jerome Sallet[2], Miriam Klein-Flugge[2], Daria Jensen[2], W. Pieter Medendorp[1], Rogier Mars[2]
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Th664 Medial temporal lobe connectivity extends to the amygdala and to an allostatic-interoceptive system
Adriana Ruiz-Rizzo[1], Florian Beissner[2], Kathrin Finke[3], Hermann Müller[1], Claus Zimmer[4], Lorenzo Pasquini[5], Christian Sorg[4]
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Th665 Myelin gradients and associations to functional connectivity in insular and cingulate cortices
Jessica Royer[1], Casey Paquola[2], Sara Larivière[3], Reinder Vos de Wael[3], Shahin Tavakol[3], Alexander Lowe[3], Boris Bernhardt[4]
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Th666 Sex differences in long-term temporal dependence of resting state fMRI time series
Elvisha Dhamala[1], Keith Jamison[1], Amy Kuceyeski[1]
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Th667* The architecture of functional lateralisation and its relationship to callosal connectivity
Vyacheslav Karolis[1], Maurizio Corbetta[2], Michel Thiebaut de Schotten[3]
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Th668 Replication of the Human Allostatic-Interoceptive System Using 7 Tesla Resting State fMRI
Jiahe Zhang[1], Tara Srirangarajan[2], Marta Bianciardi[3], Lisa Barrett[2]
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Th669 Subcortical anatomy of the default mode network: a functional and structural connectivity study
Pedro Nascimento Alves[1,2,3,4], Chris Foulon[1,2], Vyacheslav Karolis[1,2], Danilo Bzdok[5,6,7,8], Daniel Margulies[1,2], Emmanuelle Volle[1,2], Michel Thiebaut de Schotten[1,2,9]
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Th670 Structural and Functional Information Processing Speed Brain Networks: From Connections to Cognition
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Cortical Anatomy and Brain Mapping

Th671 CHENONCEAU: towards a novel mesoscopic (100/200µm) post-mortem human brain MRI atlas at 11.7T
Justine Beaujoin[1], Alexandros Popov[1], Raïssa Yebga Hot[1], Fabrice Poupon[2], Jean-François Mangin[2], Christophe Destrieux[3], Cyril Poupon[1]
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Th672 Deep-embedding: multi-feature structural affinity and the constraining influence on function
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Th673 Quantitative MRI maps of human neocortex explored using cell-specific gene expression analysis
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Th674 On the asymmetry of human brain folding
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Th675 What Drives the Sex Difference in Human Cortex Size? A Normative Age Modeling Approach
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Th676 Mapping the Macaque Connectome using High-resolution Multi-modal Imaging in 30 Animals (MacCP 30)
Takuya Hayashi[1], Joonas Autio[1], Takayuki Ose[1], Masahiro Ohno[1], Kantaro Nishigori[1], Masataka Yamaguchi[1], Akihiro Kawasaki[1], Chiho Takeda[1], Chihiro Yokoyama[1], Timothy Coalson[2], Chad Donahue[2], Stephen Smith[3], David Van Essen[2], Matt Glasser[2]
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Th677 Long-Axis Structural Connectivity Transitions in the Human Subiculum
Reinder Vos de Wael[1], Sara Larivière[1], Yifei Weng[2], Alexander Lowe[1], Shahin Tavakol[1], Jessica Royer[1], Casey Paquola[1], Seok-Jun Hong[3], Andrea Bernasconi[1], Neda Bernasconi[1], Boris Bernhardt[1]
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Th678 Plis-de-passage within the STS: morphological characterization and underlying connectivity
Clémentine Bodin[1], Alexandre Pron[1], Marion LeMao[1], Jean Régis[2], Pascal Belin[1], Olivier Coulon[1]
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Th679 Cortical thickness and neuropsychological outcomes in HIV infected & uninfected children at 5 years
Abdulmumin Ibrahim[1], Emmanuel Nwosu[1], Frances Robertson[1], Francesca Little[1], Mark Cotton[2], Barbara Laughton[2], Andre van der Kouwe[3], Ernesta Meintjes[1], Martha Holmes[1]
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Th680 Increased Local Gray Matter in the Maternal Brain at 4-6 Weeks after Childbirth
Eileen Luders[1], Florian Kurth[1], Malin Gingnell[2], Jonas Engmann[2], Inger Sundström Poromaa[2], Christian Gaser[3]
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Th681 Probing hippocampus' functional properties with activation databases
Sarah Genon[1], Anna Plachti[1], Ana Luisa Pinho[2], Bertrand Thirion[2], Simon Eickhoff[1]
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Th682 Location and height of the central sulcus pli de passage fronto-parietal moyen in a large cohort
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Th683 Effects of Body Mass Index on Brain Cortex and Neurocognition in Youth
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Th684 Cortical morphological abnormalities in schizophrenia and bipolar disorder
Merce Madre[1,2], Erick Canales-Rodríguez[1,3], Paola Fuentes-Claramonte[1], Silvia Alonso-Lana[1], Amalia Guerrero[2], Noemí Moro[2], Jesús Gomar[4], JM Goikolea[5], Eduard Vieta[5], Salvador Sarró[1], Peter McKenna[1], Raymond Salvador[1], Edith Pomarol-Clotet[1]
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Th685 Genetic basis of macroscale functional and structural cortical organization
Sofie Valk[1], Reinder Vos de Wael[2], Felix Hoffstaedter[1], Boris Bernhardt[3], Daniel Margulies[4], Peter Kochunov[5], B. T. Thomas Yeo[6], Simon B. Eickhoff[7]
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Th686 Multivariate Concavity Amplitude Index (MCAI) for characterizing Heschl's gyrus shape
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Th687 Childhood Music Training Induces Change in Cortical Thickness of Right Auditory Association Areas
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Th688 Cognitive and clinical predictors of prefrontal cortical thickness change in recent-onset psychosis
Giulia Tronchin[1], Theophilus Akudjedu[1], Shane McInerney[1,2], Cathy Scanlon[1], Joanne Kenney[3], John McFarland[1], Heike Anderson-Schmidt[1], Dara Cannon[1], Brian Hallahan[1], Colm McDonald[1]
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Th689 Surface tools: creating equivolumetric mesh surfaces
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Th690 Genetic variation on IGFBP7 is associated with brain development in preterm infants
Daniel Cromb[1], Harriet Cullen[1], Madeleine Barnett[1], Dafnis Batalle[1], Jonathan O'Muircheartaigh[1], Christiaan de Leeuw[2], A David Edwards[1]
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Th691 The Neural Control of Human Vocalization: A Meta-Analytic Modeling of Functional Brain Imaging Data
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Th692* Telomere length change over nine months relates to multimodal measures of brain structure
Lara Puhlmann[1], Sofie Valk[2], Veronika Engert[1], Boris Bernhardt[3], Elissa Epel[4], Pascal Vrticka[1], Tania Singer[1]
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Th693* Human visual cortex is organized along two genetically opposed hierarchical gradients
Jesse Gomez[1], Zonglei Zhen[2], Kevin Weiner[1]
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Th694 The role of prefrontal cortical morphology in the development of reasoning ability
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Th695 Topological Organization of Large-Scale Cortical Networks in Impaired and Nonimpaired Fighters
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Th696* Evaluation of Functional Connectivity Using Retrograde Tracers in the Macaque Monkey
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Th697 Optimizing the T1/T2 ratio for analysis within and between subjects
Kjetil Jørgensen[1,2], Stener Nerland[1,2], Torgeir Moberget[2,3], Torbjørn Elvsåshagen[2,3], Erik Jönsson[2,4], Ole Andreassen[2,3], Ingrid Agartz[1,2,4]
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Th698 Mapping Retrograde Tracer Data onto a Macaque Cortical Atlas
Yujie Hou[1], Loïc Magrou[1], Kenneth Knoblauch[1], Zhiming Shen[2], Henry Kennedy[1,2], Timothy Coalson[3], Erin Reid[3], Matt Glasser[3], David Van Essen[3]
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Th699 Automated Sulcal Line Extraction based on Laplacian Skeletonization
Alberto Fernández-Pena[1], Daniel Martín de Blas[1], Javier Perez Santonja[2], Luis Marcos-Vidal[3], Isabel Martínez-Tejada[4,5], Magdalena Martínez-García[1], Laura Carretero-Gómez[3], María Paternina[3], Joost Janssen[2], Francisco Navas-Sánchez[1], Susanna Carmona[1,6,7], Manuel Desco[8,1,3,6], Yasser Alemán-Gómez[9,10,11]
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Th700 Single Nucleus RNA-Seq of the Human Dorsolateral Prefrontal Cortex and Subgenual Anterior Cingulate
Billy Kim[1], Kory Johnson[2], Carolina Caban-Rivera[1], Ningping Feng[1], Qing Xu[1], Ajeet Mandal[1], Nirmala Akula[1], Francis McMahon[1], Barbara Lipska[1], Pavan Auluck[1], Stefano Marenco[1]
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Th701 A Novel Sulcal Hierarchy Based on Manually Labelled Sulci
Antonia Machlouzarides-Shalit[1], Valentin Iovene[1], Nikos Makris[2], Demian Wassermann[1]
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Th702* A new sulcal landmark in human prefrontal cortex
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Th703 Cortical Morphometric Similarity Networks for Exploring Early Brain Development
Dingna Duan[1,2], Shunren Xia[1], Zhengwang Wu[2], Li Wang[2], Weili Lin[2], Dinggang Shen[2], Gang Li[2]
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Th704 MultiMap: Multilingual visual naming test for the mapping of eloquent areas during awake surgeries
Sandra Gisbert-Muñoz[1,2], Ileana Quiñones[1], Meritxell García[1,2], Lucia Amoruso[1], Iñigo Pomposo[3], Santiago Gil-Robles[4,3], Manuel Carreiras[1,2,5]
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Th705 Heritability of brain structures follows synaptic hierarchy
Uku Vainik[1], Casey Paquola[2], Ying-Qiu Zheng[1], Boris Bernhardt[1], Bratislav Mišić[1], Alain Dagher[2]
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Th706 Spatial Organization of Functional Connectivity Between IPS and FEF in Humans and Macaques
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Cortical Cyto- and Myeloarchitecture

Th707 Computational neuron-level analysis of laminar structure in histological images of human brain
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Th708* Exploring the relationship between quantitative 7T MRI, cytoarchitectonics and gene expression
Peter McColgan[1,2], Saskia Helbling[1], Lenka Vaculciakova[1], Kerrin Pine[1], Yongbin Wei[3], Martijn Van den Heuvel[3], Sarah Tabrizi[2], Geraint Rees[4], Nikolaus Weiskopf[1]
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Th709* Anatomy and Function of Four New Cytoarchitectonic Areas in the Human Lateral Orbitofrontal Cortex
Magdalena Wojtasik[1], Sebastian Bludau[2], Simon Eickhoff[3,4], Hartmut Mohlberg[2], Svenja Caspers[2,5], Katrin Amunts[1,2]
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Th710 A comparison of quantitative MT, T1w/T2w ratio, and diffusion imaging for in vivo myelin mapping
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Th711* Longitudinal analysis of intracortical microstructure profiles during adolescent development
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Th712 Reduced cortical thickness in Heschl's gyrus as an in vivo marker for human primary auditory cortex
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Th713 Morphological and laminar characterization of the human hippocampus based on 3D BigBrain data
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Normal Development

Th714 Longitudinal myelination profiles in infant and toddler brains
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Th715 The Fractal Dimension of the Brain during Childhood, Adolescence and Adulthood
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Th716 Prediction of Motor Function Development in Infants Using the Thickness of the Primary Motor Cortex
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Th717 Quantification of developmental trajectory in the fetal brain: a sulcus-wise approach
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Th718 Neurodevelopmental changes in qMRI measures in hippocampal and cortical regions
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Th719 Characterizing brain development using resting state functional connectivity
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Th720 Differences in brain developmental trajectories relate to use of emotion regulation strategies
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Th721 Cortical Thickness Maturational Trajectories Revisited
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Th722 Anatomical Imbalance Mapping (AIM) Reveals Developmental Tightening of Structural Covariance Norms
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Th723 Spatiotemporal Patterns of Hemispheric Asymmetries of Cortical Properties in Early Brain Development
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Subcortical Structures

Th724 Resting Oscillatory Activity and Connectivity of the Human Ventral Tegmental Area
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Th725 Mapping the human subcortical auditory system with histology, post mortem MRI and in vivo MRI
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Th726 Smaller basal nuclei volumes at 1st month postnatal life in HIV-exposed uninfected children
Abdulmumin Ibrahim[1], Fleur Warton[1], Samantha Fry[2], Mark Cotton[2], Sandra Jacobson[3,1], Joseph Jacobson[3,1], Christopher Molteno[1], Francesca Little[1], Andre van der Kouwe[4], Barbara Laughton[2], Ernesta Meintjes[1], Martha Holmes[1]
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Th727 Perineuronal nets as an immunohistochemical tool to identify auditory brainstem nuclei in humans
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Th728 Human brain - superior colliculus depth dependent functional connectivity
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Th729 The Thalamus and the Limbic System: Tracing the Structural Connectivity
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Th730 Resting-state functional connectivity of the human superior colliculus
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Th731 In-vivo functional and structural MRI of the sensory thalamic VPL nucleus
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Th732 Intrinsic functional connectivity of the superior colliculus and changes in Blindsight
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Th733 Multi-Scale Functional Granularity in the Thalamus and Basal Ganglia
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Th734 Testing relationships between fitness, anterior hippocampal volume and memory in young adolescents
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Th735 Thalamic contributions to visually-guided actions: a behavioral and fMRI study in stroke patients
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Th736* Precision Mapping of the Human Subcortex Reveals Integrative and Network-Specific Functional Zones
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Th737 Preferential Stimulus-Specific Responses Within the Hippocampus
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Th738 Locus coeruleus integrity at ultra-high field 7T associated with increased heart rate variability

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Th739 Connectivity-based cross-species comparation of the mediodorsal thalamus

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Th740 Multimodal characterisation of the locus coeruleus in Parkinson's disease at ultra high-field 7T MRI

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Th741 A claustrum atlas of the healthy brain

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Th742 A comparison of automated segmentation and manual tracing for quantifying amygdala volumes

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Transmitter Receptors

Th743 LSD increases social adaptation to opinions similar to one's own

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Th744 Latent organization of dopamine D2 receptors

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Th745 Perirhinal Cortex as revealed by the multimodal receptor analysis

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Th746 Ultra-high resolution 3D neurotransmitter receptor atlas of the human brain

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White Matter Anatomy, Fiber Pathways and Connectivity

Th747 Microstructural properties of optic tract and optic radiation after retinal ganglion cell damage

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Th748 Using Vascular Territories to Predict Disconnection Profiles in Post-Stroke Aphasia

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Th749 A novel 11.7T ultra-high field diffusion MRI structural connectivity atlas of the Japanese quail

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Th750 Ultra high-resolution mapping of occipital white matter tracts disentangles current controversies

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Th751 Connectivity gradients and connectopic projections onto white matter in diffusion weighted imaging
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Th752 Segmentation of White Matter Bundles as Anatomically-Informed Multiple Linear Assignment Problems
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Th753 Effects of tractography filtering on the topology and interpretability of connectomes
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Th754 Thalamocortical plasticity subserving cross-modal plasticity in congenitally blindness
Theo Marins[1], Maite Russo[2], Erika Rodrigues[3], Jorge Moll[1], Daniel Felix[1], Julia Bouzas[1], Helena Arcanjo[4], Claudia Vargas[5], Fernanda Tovar-Moll[1]
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Th755 A novel constraint for anatomical tractography in the brainstem
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Th756 Characterizing white matter tract organization in complex malformations of cortical development
Filippo Arrigoni[1], Joseph Yang[2,3], Denis Peruzzo[1], Simone Mandelstam[3,2,4,5], Gabriele Amorosino[1], Daniela Redaelli[1], Romina Romaniello[1], Renato Borgatti[1], Marc Seal[2,4]
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Th757 Tractography in the presence of White Matter Hyperintensities in UK Biobank
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Th758 Structural Connectivity Changes in Post-stroke Patients after Rehabilitation
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Th759 Probabilistic tractography identifies an amygdalofugal tract similar to that found in tracer studies
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Th760 Thalamo-cortical connectivity in epilepsy pediatric patients with unilateral thalamic lesions
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Th761 Relationships between MRI-derived indices of myelin and math performance in children
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Th762 Neurophylogenetics: Evolutionary Changes to White Matter Organization in the Primate Lineage
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Th763 Cross-species surface registration identifies different types of cortical reorganization
Nicole Eichert[1], Emma Robinson[2], Katherine Bryant[3], Saad Jbabdi[1], Mark Jenkinson[1], Longchuan Li[4], Kristine Krug[1], Kate Watkins[1], Rogier Mars[1,3]
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Th764 Comparative Anatomy of the Temporal Lobe Fasciculi in Humans, Great Apes and Macaques
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Th765 Quality Assessment in Population Imaging: The Maastricht Study
Joost de Jong[1,2], Jacobus Jansen[1,2], Laura Vergoossen[1,2], Miranda Schram[3,4,5], Walter Backes[1,2]
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Th766 Laplacian Eigenmaps reveal two distinct modes of connectivity in the human temporal cortex
Guilherme Blazquez Freches[1,2], Katherine Bryant[2], Koen Haak[1,2], Christian Beckmann[1,2,3], Rogier Mars[4,2]
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Th767 Some analysis strategies for non-human MRI
Lennart Verhagen[1], Guilherme Blazquez Freches[2], Nicole Eichert[1], Davide Folloni[1], Martin Guthrie[2], Saad Jbabdi[1], Colin Reveley[3], Lea Roumazeilles[4], Jerome Sallet[1], Lev Tankelevitch[1], Suhas Vijayakumar[5], Rogier Mars[1]
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Th768 Automated Tractography of Four White Matter Fascicles in Support of Brain Tumor Surgery
Stephan Meesters[1,2], Geert-Jan Rutten[2], Luc Florack[1]
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Th769 Bundle Analytics: a computational and statistical analysis framework for tractometric studies
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Th770 The relationship between physical activity, fitness, white matter and response inhibition in youth
Ilona Ruotsalainen[1], Tetiana Gorbach[2,3], Jaana Hiltunen[4], Ville Renvall[5,6], Heidi Syväoja[7], Tuija Tammelin[7], Juha Karvanen[3], Tiina Parviainen[1]
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Th771 Fixed density thresholding in structural brain networks: a requirement for clinical studies?
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Th772 Intrahemispheric cortical connectivity patterns defined by PCA of advance diffusion tractography
Lia Talozzi[1,2], Ahmad Beyh[1,3], Francisco De Santiago Requejo[1,3], Stephanie Forkel[3], Caterina Tonon[2,4], Claudia Testa[5], Flavio Dell'Acqua[1,3], Marco Catani[1,3]
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Th773 The Corticospinal Tract in the Human Medulla Oblongata: a High-Resolution Microscopic Analysis
Maria Morozova[1,2], Henriette Rusch[2], Carsten Jäger[1], Alfred Anwander[1], Siawoosh Mohammadi[3], Markus Morawski[2], Stefan Geyer[1]
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Th774 Rich club-based subnetworks in 16p11.2 deletion syndrome reveal differential structural alterations
Ai Wern Chung[1], Banu Ahtam[1], P. Ellen Grant[1], Kiho Im[1]
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Th775 Development of Structure-Function Network Coupling in Youth
Graham Baum[1], Rastko Ciric[1], Zaixu Cui[2], David Roalf[2], Richard Betzel[3], Cedric Huchuan Xia[1], Tyler Moore[1], Kosha Ruparel[1], Russell Shinohara[2], Armin Raznahan[4], Ruben Gur[1], Raquel Gur[1], Danielle Bassett[1], Theodore Satterthwaite[1]
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Th776 Subcomponents of the Human SLF/AF and their Connectivity Profiles
Luqi Cheng[1], Lingzhong Fan[2,3,4], Gangwon Jeong[5], Zang-Hee Cho[5,6], Tianzi Jiang[1,2,3,4]
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Th777 Tractography delineation of the vertical occipital fasciculus using quantitative T1 mapping
Roey Schurr[1], Aviv Mezer[1]
[1]The Hebrew University of Jerusalem, Jerusalem, Israel

Th778 The Virtual Dissection of Intralobar Fibres of the Occipital Lobe Through a 19th century Perspective
Maeva Bugain[1], Claude Bajada[1], Christian Zammit[1], Richard Muscat[1]
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Th779 WM abnormalities and their relationship with cognitive impairment in SZ, BD, and MDD
Shinichi Yamada[1], Shun Takahashi[1], Takuya Ishida[1], Yuji Ohoshi[1], Tomikimi Tsuji[1], Kazuhiro Shinosaki[2], Masaki Terada[3], Satoshi Ukai[1]
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Th780 Brain network disruption and cognitive decline: specific role for critical white matter connections?
Naomi Vlegels[1], Bruno de Brito Robalo[1], Geert Jan Biessels[1], Yael Reijmer[1]
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Th781 White Matter Tracts Adjacent to the Cingulate Sulcus Visual Area (CSv) Assessed with Diffusion MRI
Maiko Uesaki[1,2,3], Hiromasa Takemura[4,5], Michele Furlan[6], Andrew Smith[7]
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Th782 Subdividing the superior longitudinal fasciculus to its subcomponents using quantitative T1 mapping
Roey Schurr[1], Ady Zelmen[1], Aviv Mezer[1]
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Th783 Comparison of structural and functional network-level brain connectivity in the healthy adult
Benedetta Toselli[1], Lino Nobili[1], Annalisa Rubino[2], Marco Fato[1], Matias Palva[3], Gabriele Arnulfo[1]
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Th784 Early Music Training Enhances Structural Connectivity of the Right Dorsal Auditory-Motor Pathway
Lucía Vaquero[1], Paul-Noel Rousseau[2], Diana Vozian[1], Denise Klein[2], Virginia Penhune[1]
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Th785 Half of the streamlines built in a whole human brain tractogram is anatomically uninterpretable
Laurent Petit[1], François Rheault[2], Maxime Descoteaux[2], Nathalie Tzourio-Mazoyer[1]
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Th786 Distinct Rich-Club Organization of Structural Anatomical Backbone in Early Stage Parkinsons dDiseas
Virendra Mishra[1], Karthik Sreenivasan[1], Xiaowei Zhuang[1], Zhengshi Yang[1], Dietmar Cordes[1], Zoltan Mari[1], David Eidelberg[2], Ryan Walsh[3]
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Th787 Structural Connectivity Changes in Cognitively Impaired and Nonimpaired Active Professional Fighters
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Th788 Disrupted structural organization in Parkinsons dDiseas Patients With and Without Memory Impairment
Virendra Mishra[1], Karthik Sreenivasan[1], Ece Bayram[1], Sarah Banks[2], Jason Longhurst[1], Zhengshi Yang[1], Xiaowei Zhuang[1], Dietmar Cordes[1], Aaron Ritter[1], Jessica Caldwell[1], Brent Bluett[3]
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Th789 Does the SFOF exist in human brain? A study using fiber dissection, DSI tractography and VLSM
Xiaoliang Liu[1], Masashi Kinoshita[1], Harumichi Shinohara[2], Mitsutoshi Nakada[1]
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Th790 Modular brains: cross-species connectome analysis sheds new light on human brain evolution
Dirk Jan Ardesch[1], Lianne Scholtens[1], Longchuan Li[2], Todd Preuss[3], James Rilling[3], Martijn van den Heuvel[1]
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Th791 Comparing lesion induced topographic simulated connectivity change maps for groups and individuals
Emil Nijhuis[1], Christoph Stippich[2], Matthias Weigel[1], Bram Stieltjes[1]
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Th792 Robust Segmentation of Corpus Callosum in Multi-Scanner Pediatric T1-w MRI Using Transfer Learning
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Th793 Reduced Commissural Fiber Tract Integrity in Mindfulness-Based Stress Reduction Experts
Jui-Wen Chang[1], Yao-Chia Shih[2,3], Chang-Le Chen[2], Yung-Chin Hsu[2,4], Tzung-Kuen Wen[5], Shih-Chin Fang[6], Wen-Yih Isaac Tseng[2,7]
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Th794 Subtracts of the arcuate fasciculus mediate conceptually driven generation and repetition of speech
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Th795 The medial occipital longitudinal tract (MOLT): A novel pathway for visual spatial learning
Ahmad Beyh[1,2], Flavio Dell'Acqua[1], Dominic ffytche[3], Marco Catani[1,2]
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Th796 Estimating the fraction of unmyelinated axons by combining the g-ratio model, MRI, and histology
Sebastian Papazoglou[1], Mark Does[2], Siawoosh Mohammadi[1]
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Th797 Global and local disruptions of structural network topology in chronic stroke patients
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Th798 Deterministic and probabilistic tractography of the arcuate and superior longitudinal fasciculi
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Th799 Sexual dimorphism without group differences in ASD and typically developing subjects
Carinna Torgerson[1], Zachary Jacokes[1], John Van Horn[1], GENDAAR Research Consortium[1]
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Th800 Ageing and NODDI-weighted structural brain networks in UK Biobank
Colin Buchanan[1], Stuart Ritchie[2], David Liewald[1], Elliot Tucker-Drob[3], Ian Deary[1], Mark Bastin[1], Simon Cox[1]
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Th801 Longitudinal and vertical fibre systems in the human temporal lobe revealed by tractography
Hana Abouzahr[1,2], Ahmad Beyh[1,2], Flavio Dell'Acqua[1], Marco Catani[1,2]
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Th802 Structural and functional brain rewiring in children born without corpus callosum: myth or reality?
Vanessa Siffredi[1], Silvia Obertino[2], Maria Giulia Preti[3], Amanda Wood[4], Richard Leventer[5], Vicki Anderson[6], Alissandra McIlroy[7], Megan Spencer-Smith[8], Dimitri Van De Ville[9]
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Th803 Tract-based Hypervoxels
Pedro Angel Luque Laguna[1], Laura Goldstein[2], Steven Williams[3], Marco Catani[1], Flavio Dell'Acqua[1]
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Th804 Using Simulation to Estimate Damage to White Matter Tracts with High Reliability
Anouk Smits[1,2], Martine van Zandvoort[2,3], Laura Heezen[2], Nick Ramsey[2], Edward de Haan[1], Mathijs Raemaekers[2]
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Th805 Convergence and variability of tractography-derived structural connectomes in the HCP dataset
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SOCIAL NEUROSCIENCE

Self Processes

Th806 Prediction of Own Body Perception in Gender-Dysphoria (Transgender)
Teena Moody[1], Nicco Reggente[2], Amirhossein Manzouri[3], Jamie Feusner[1], ivanka Savic[4]
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Th807 Belief updating about the self and others in a social context
Nora Czekalla[1], Sören Krach[1], Frieder Paulus[1], Laura Müller-Pinzler[1]
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Th808 The effect of perspectives and delayed visual feedback on full body illusion
Itsuki Ohtsuka[1], Sotaro Shimada[1]
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Th809 An fMRI investigation of the multifaceted sense of self and its link with psychosis-relevant traits
Simone Di Plinio[1], Mauro Gianni Perrucci[2], Sjoerd Ebisch[3]
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Th810 Cross sex hormones reverse cerebral signatures of gender dysphoria to the baseline of cis-controls
Lisa Kilpatrick[1], Mats Holmberg[2], Amirhossein Manzouri[2], Ivanka Savic[3]
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Th811 Neural signs of personal identity and friendship in the lifetime
Francisco Muñoz[1,2], Miguel Rubianes[1], Pilar Casado[1,2], Laura Jiménez-Ortega[1,2], Sabela Fondevila[1,2], David Hernández-Gutiérrez[1], José Sánchez[1], José Garde[1], Manuel Martín-Loeches[1,2]
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Th812 Functional Connectivity to Self-Relevant Social Feedback Relates to Internalizing Symptoms in Youth
Stefanie Sequeira[1], Rosalind Butterfield[1], Cecile Ladouceur[1], Erika Forbes[1], Jennifer Silk[1]
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Th813 FMRI shows different processing of self-body image in transgender vs. cisgender individuals
Adnan Majid[1], Sarah Burke[2,3], Amirhossein Manzouri[3], Teena Moody[1], Jamie Feusner[1], Ivanka Savic[3,1]
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Th814 Self-reference effect in memory: the role of encoding and retrieval stages
Maria Nowicka[1], Michał Wójcik[2,1], Michał Bola[3], Anna Nowicka[1]
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Th815 Modulating Effects of Body Dissatisfaction and Person Perspective in Social Comparison
Xinyu Wang[1], Yong Liu[2], Xiao Gao[2]
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Th816 Self-Referential Neural Processing is Associated with Social Anxiety Symptoms in Adolescent Girls
Rosalind Butterfield[1], Stefanie Sequeira[1], Cecile Ladouceur[1], Jennifer Silk[1]
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Th817 Memory control induced neural pattern changes in the representation of positive and negative self
Yina Ma[1]
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Th818 Revealing the neural trace of shame and guilt: a functional voxel-based meta-analysis
Edoardo Pappaianni[1], Luca Piretti[1], Raffaella Ida Rumiati[2], Remo Job[1], Alessandro Grecucci[1]
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Th819 Loneliness and social distance shape the neural representation of social targets
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Social Cognition

Th820 Oxytocin Amplifies the Influence of Good Intentions on Moral Judgments
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Th821 Effects of local placebo analgesia on somatosensory responses during first-hand and empathy for pain
Helena Hartmann[1], Markus Rütgen[1], Ronald Sladky[1], Claus Lamm[1]
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Th822 Dynamics of occipitotemporal responses to face onset and change: an iEEG study in humans
Mariana Babo-Rebelo[1], Aina Puce[2], Vera Dinkelacker[3], Nathalie George[1]
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Th823 Differential patterns of neural activity to various types of third party encounters - an fMRI study
Łukasz Okruszek[1], Jaroslaw Biedrzycki[2], Justyna Gula[3]
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Th824 Functional connectivity patterns of trait empathy are associated with individual characteristics
Marie-Pier B. Tremblay[1], Isabelle Deschamps[2], Béatrice Tousignant[3], Philip Jackson[1]
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Th825 The role of egocentric and allocentric perspectives in neural correlates of vicarious embarrassment
Annalina Mayer[1], Sören Krach[1], Laura Müller-Pinzler[1], Frieder Paulus[1]
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Th826 Neural and behavioral signature of human social perception
Ana Saitovitch[1], Hervé Lemaître[1], Elza Rechtman[1], Alice Vinçon-Leite[1], Raphael Calmon[1], David Grévent[1], Volodia Dangouloff-Ros[1], Francis Brunelle[1], Nathalie Boddaert[1], Monica Zilbovicius[1]
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Th827 Effects of local placebo analgesia on picture-based pain empathy
Helena Hartmann[1], Markus Rütgen[1], Ronald Sladky[1], Claus Lamm[1]
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Th828* 10,000 social brains: Charting sexual dimorphism in the UK Biobank
Hannah Kiesow[1], Robin Dunbar[2], Joseph Kable[3], Kai Vogeley[4], Leonard Schilbach[5], Thomas Wiecki[6], Danilo Bzdok[7]
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Th829 Increasing the difference in decision making for oneself and for others by stimulating the rTPJ
Yinling Zhang[1], Xiaoqin Mai[1]
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Th830 Experience to take another's perspective enhance the right parieto-frontal activation
Naoki Miura[1], Motoaki Sugiura[2], Takayuki Nozawa[3], Yuki Yamamoto[2], Yukako Sasaki[2], Yumi Hamamoto[2], Shohei Yamazaki[2], Kanan Hirano[2], Makoto Takahashi[2], Ryuta Kawashima[2]
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Th831 How Ethnicity and Team-Membership Affect Face Processing: A Cultural Neuroscience Perspective
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Th832 Pain-specific and domain-general mechanisms of placebo effects on pain empathy
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Th833 Individual Differences in Empathy Reflected in Brain's Intrinsic and Functional Network Dynamics
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Th834 Magnetoencephalography reveals distinct neural processes of same-race and other-race pain expression
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Th835 Social evidence accumulation in medial frontal cortex
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Th836 The role of the endogenous opioid system in emotion identification
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Th837 The Power of Smiling: The Adult Brain Networks Underlying Learned Infant Temperament
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Th838 Similarities and differences in the neural processing of emotions from real and virtual faces
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Th839 Changes in functional network organization of the brain during the observation of social touch
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Th840 The Effect of Oxytocin on Reinforcement Learning for Self and Other
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Th841 Neural dynamics of racial categorization of faces
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Th842 Different mindsets influence the neural correlates associated with social rejection
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Th843* Mapping the cytoarchitectonic basis of socio-emotional and cognitive processing in the insula
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Th844 How different motives interact in the human brain
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Th845 Working with children influences recognition of mental states of youngster in childless adults
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Th846 Brain activation for Theory of Mind and connectivity-parcellations of the Temporo-Parietal Junction
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Th847 Different Neural Network of Racial in-group and out-group in Empathy for Pain
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Th848 I feel you (not): Empathy correlates with intersubject correlation when viewing HIV patient stories
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Th849 Neural representation of social expectations during interpersonal decisions
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Th850 Implicit brain response to social and affective words in a novel socio-emotional-Stroop task
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Th851 Brain Networks Associated with Neuroticism in Traumatic Brain Injury and Role of Social Network Size
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Th852 Brain representations of social knowledge during mental simulation
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Th853 My friend and me in space: an fMRI study
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Th854 Difference in Perspective Taking Depending on Personalities and Its Application
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Social Interaction

Th855 Connectome-based model predicts individual differences in propensity to trust
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Th856 Betrayal or engagement: EEG time indices of cooperation at the prisoner's dilemma
Francisco Cervantes Constantino[1], Santiago Garat[1], Eliana Nicolaisen-Sobesky[1], Valentina Paz[1], Eduardo Martínez-Montes[2], Álvaro Cabana[1], Dominique Kessel[3], Victoria Gradin[1]
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Th857 Resting state connectivity patterns related with attachment traits
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Th858 Neural basis for social influence on numerical cognition modulated by observing others
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Th859 Brain activity during reciprocal social interaction investigated using conversational robots
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Th860 Social inclusion in borderline personality disorder and non-suicidal self-injury
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Th861 EEG hyperscanning during cooperative and competitive tasks
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Th862 The effect of visual perspective on a better understanding of difficulties in hemiplegic movements
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Th863 Classification between NSSI adolescents and controls during a simulated social interaction
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Th864 Frontoparietal network activity during social navigation choices
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Th865 The role of the anterior insular cortex in joint attention-related identification with the partner
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Th866 Brain-to-brain Coupling during the Emergence of Social Communication System Based on Novel Symbol
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Th867 Shared and Distinct Neural Correlates of Being Imitated and Imitating: A Hyper-scanning fMRI Study
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Th868 Neural networks during a shared book reading in young children: A MEG study
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Th869 It still hurts – how childhood maltreatment hampers social distance and affective touch in adulthood
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Th870 Event-Related Potentials during fair and unfair social interactions in Depression/Social Anxiety
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Th871 Neural substrates of sharing preference between interactive two persons: a hyperscanning fMRI study
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Th872 Distinctive neural coupling in various interaction types: A hyperscanning study of the Pattern Game
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Th873 Relationship between prosocial behavior and myelination level in right DLPFC
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Th874 Neurofunctional evidence on the predictive nature of human interactions
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Th875 Processing of negatively connotated social interactions by the mirror and mentalizing brain systems
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Th876 Investigating Neurophysiological Correlates of Joint Action
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Th877 Cortical synchronization between mother and infant during breastfeeding in infants at risk for ASD
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Th878 Two-person Neuroscience: Multiple-brain Connectivity during Compassion and Altruistic Punishment
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Th879 Imaging Aggression Using a Naturalistic Output
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Th880 Brain concordance supports patient/clinician alliance, facial mirroring, and placebo analgesia
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Th881 Neural correlates of costly helping behavior in the general population and Mirror Touch Synesthesia
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Th882 Neural Underpinning of Global Orientations: Ethnic Protection Relates Default Mode Network Activity
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Th883 Contribution of mentalizing brain areas to successful communication
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Th884 Finding the neural correlates of collaborative improvisation using 3-person fMRI hyperscanning
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Th885 Cerebral Responses to Social Contingency during Live Interactions: High-Risk vs. Low-Risk Infants
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Th886 Fairness is Associated with Increased Connectivity between the Executive Control Network and MPFC
David Smith[1], Nicole Henninger[1], Katherine Hackett[1], Victoria Kelly[1], Dennis DeSalme[1], Benjamin Muzekari[1], Srikar Katta[1], Tania Giovannetti[1], Dominic Fareri[2]
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Social Neuroscience Other

Th887 ANPS traits predict the TPJ activity when making decisions for unfair offers under acute stress
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Th888 Perceived control drives self-related outcome valuation, emotion, and behavioral preferences
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Th889 The Regulation of Mindfulness Training on Empathy: Behavioral and ERP Evidences
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Th890 Neurofunctional characterization of early prefrontal processes endorsing interpersonal guilt
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Th891 How contextual information influence the recognition of facial expressions of pain, an fMRI study
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Th892 Linking brain networks and social networks: connectomic correlates of empathy and closeness
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Th893 Mechanisms involved in outgroup attitudes to humanoid robot
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Th894 Differential neural activation to explicit and implicit moral processing
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Th895 Latent dimensions of affect, intelligence, and health relate to local grey- and white-matter density
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Th896 Social preference associated with the GABA level in the right DLPFC but not in the left DLPFC
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Th897 Brain structure links trait conscientiousness to academic performance
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Th898 High performance athletes in combat sports: understanding the neural bases of aggression
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Th899 Differential brain activation in polygamous and monogamous men during a partner-preference paradigm
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Th900 Decreased inhibition and conflict monitoring activations in male batterers during a stroop task
Juan David Clares[1,2], Sofia Amaoui[1,2], Agar Marín-Morales[1,2], Maria Ángeles García-León[1,2], Natalia Bueso-Izquierdo[1,2], Natalia Hidalgo-Ruzzante[1,2], Cristina Martín-Pérez[1,2], Miguel Pérez-García[1,2], Juan Verdejo-Román[3,2,4]
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Th901 Emotion Regulation and Intimate Partner Violence
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Th902* Neural response patterns to experienced and empathic pain and links to altruism
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Th905 Does personality affect presence in VR? : Psychological and physiological evidence
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