

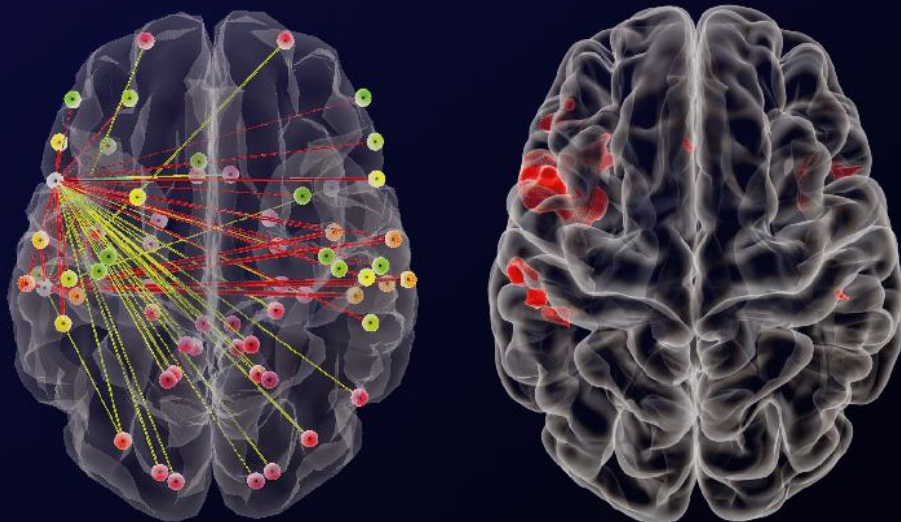


Organisation for
Human Brain Mapping

Alpine Chapter

Austrian Society
fMRI

3rd ALPINE CHAPTER SYMPOSIUM + HALF DAY EEG-FMRI TRAINING COURSE



November 3rd – 4th, 2017
Inselspital, University of Bern



Venue

Langhans Auditorium, Inselspital, Freiburgstrasse 8, CH-3010 Bern
Pathologisches Institut H 128, Eingang 43 A.

Registration / Contact

For registration or submission of abstracts please contact the local congress executive
M. Pastore-Wapp (manuela.pastore-wapp@insel.ch).
Congress Fee CHF 50.-. On-site registration will be possible.

Friday Swiss Evening Event

Restaurant Schwellenmätteli, Dalmaziqai 11, 3000 Bern
The Swiss Evening Event will be charged with CHF 70.-. (students CHF 50.-)

Faculty OHBM Alpine Chapter

Vienna Roland Beisteiner (Chair)
Basel Christoph Stippich (Chair Elect)
Geneva Patrik Vuilleumier (Secretary)
Graz Christian Enzinger (Secretary Elect)
Salzburg Martin Kronbichler (Treasurer)
Bern Roland Wiest (Treasurer Elect)

Local Organisation

Support Center for Advanced Neuroimaging (SCAN),
Institute of Diagnostic and Interventional
Neuroradiology
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OHBM Alpine Chapter (www.humanbrainmapping.org, www.oegfmrt.org)
Training course under auspices of the Swiss Soc. for Clinical Neurophysiology
(Course Directors: R. Wiest/ Bern and S. Vulliémaz /Geneva)

Sponsors

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Schweizerische Gesellschaft für klinische Neurophysiologie
Société Suisse de Neurophysiologie Clinique
Società Svizzera di Neurofisiologia Clinica

9.00-12.30: *Joint workshop EEG /fMRI*

Together with the Swiss Society for Clinical Neurophysiology SSCN

9.00 Methods

F. Grouiller (Geneva, CH)

9.30 Practical Application, Demo, Postprocessing

C. Rummel, M. Pastore-Wapp (Bern, CH)

10.30-11.00 Coffee break

11.00 EEG/fMRI in psychology

M. Züst (Bern, CH)

11.30 EEG/fMRI in neurology

S. Vuillémot (Geneva, CH)

12.00 EEG/fMRI in psychiatry

T. Koenig (Bern, CH)

12.30-13.30 Lunch / Poster session

13.30 **Session 1** "fMRI to explore the effects of rehabilitation in MS"

Chair: C. Enzinger (Graz, AT)

- "Longitudinal fMRI studies in MS - what do we know and what do we need to know?"
C. Enzinger (Graz, AT)
- "fMRI in rehab studies in MS - Existing knowledge and gaps in knowledge"
M. Rocca (Milan, IT)
- "Future trials incorporating fMRI - what do we need and how to proceed?"
J. Sastre-Garriga (Barcelona, ES)

14.30 **Session 2** "EEG-based imaging of physiological and pathological brain activity"

Chair: S. Vuillémot (Geneva, CH)

- "Mapping large scale neuronal networks in real time with EEG"
C. Michel (Geneva, CH)
- "Functional imaging of epileptic activity: from sources to networks"
S. Vuillémot (Geneva, CH)
- "Neurological deficits and plasticity after stroke: the importance of networks"
A. Guggisberg (Geneva, CH)

15.30-16.00 Coffee break

16.00 **Chapter Communications Part I**

Chair: R. Beisteiner (Vienna, AT), P. Vuilleumier (Geneva, CH)

- "The woman who unintentionally shuts down her motor cortex - Physiological mechanisms in motor imagery and pathophysiological patterns in psychogenic paresis"
E. Matt (Wien, AT)
- "Metacognition of motor control in patients with functional motor deficits (conversion)"
I. Sinanaj, P. Vuilleumier (Geneva, CH)
- "Multimodal Neuroimaging in the domain of Social Neuroscience"
C. Lamm (Wien, AT)
- "Multimodal Pharmacology-Imaging in PET/MR"
R. Lanzenberger (Wien, AT)
- "Quantifying functional brain development: Networks and Dynamics"
G. Langs (Wien, AT)

SNG CME credit points per day: 7 Credits

18.30 **Swiss Evening Event**

Restaurant Schwellenmätteli, Dalmaziquai 11, 3000 Bern

9.00 **Session 3** "Psychological factors in acute and chronic pain"

Chair: E. Gizewski (Innsbruck, AT)

- "Pain and fear in visceral pain"
F. Labrenz (Essen, D)
- "Plasticity in chronic pain"
M. Diers (Mannheim, D)
- "Functional connectivity in cerebral pain and migraine"
L. Michels (Zürich, CH)

10.00 **Session 4** "Methodological perspectives of functional neuroimaging"

Chair: A. Federspiel, R. Wiest (Bern, CH)

- "Functional ASL"
K. Jann (Los Angeles, USA)
- "Functional BOLD MRI"
B. Biswal (New Jersey, USA)
- "Detecting energy metabolites in brain disease"
A. Heerschap (Nijmegen, NL)

11.00-11.30 Coffee break

11.30 **Keynote Lecture** K. Henke (Bern, CH):
"Hippocampus and Memory"

12.30-13.30 Lunch / Poster session

13.30 **Session 5** "Structural and functional MRI in dementia / neurodegeneration"

Chair: C. Stippich (Basel, CH)

- "Practical MR-reading and structured reporting for dementia" A. Tyndall (Basel, CH)
- "Longitudinal changes of cerebral grey matter and blood flow in MCI" L. Michels (Zürich, CH)
- "Gait analysis and cognitive-motor dual task in fMRI" M. Blatow (Basel, CH)

14.30 **Session 6** "Clinical-psychological MRI studies: Pitfalls and special effects"

Chair: K. Lidzba (Bern, CH), A. Ischebeck (Graz, AT)

- "Resting-state fMRI in the field of neuropediatrics" S. Kornfeld (Bern, CH)
- "Limitations of standard fMRI analyses to assess cognitive processes"
M. Himmelbach (Tübingen, D)
- "Placebo/Nocebo effects on affective processing" A. Wabnegger (Graz, AT)

15:30- 15:45 Break

15.45 **Chapter Communications** Part II

Chair: S. Walther (Bern, CH)

- "Interaction of region, gender, lateralization and age in cerebral energy metabolism at 31P MRS-Influence on further studies" R. Steiger (Innsbruck, AT)
- "Exploring the relation between MR Spectroscopy features and the distance to MRI-visible solid tumour part in GBM patients" N. Barros (Bern, CH)
- "The memory function of high-frequency oscillations in human hippocampus"
S. Ruch (Bern, CH)
- "Unexpected CBF response to anxiety reinforcing transcranial direct current stimulation"
M. Grieder (Bern, CH)
- "Resting-State Hyperperfusion of the Supplementary Motor Area in Catatonia"
S. Walther (Bern, CH)
- "Aberrant hyperconnectivity in the motor system at rest is linked to motor abnormalities in schizophrenia spectrum disorders"
A. Viher (Bern, CH)

17:00 Goodbye Coffee
