

# Open science in action: doing research as a community!

**Eugene Duff** Co Organizer

University of Oxford

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1300

Symposium

Like many other fields, brain sciences are becoming increasingly open. This tendency is probably best exemplified by the recent explosion of large collaborative open datasets, effectively enabling new impactful scientific results. But more than those transformative resources, open science is about a culture change in which research is done collaboratively, by a community.

In this symposium, members of the OHBM open science special interest group (SIG) will highlight how open science is transforming the way we do research, covering community in software development, collaborative learning, inclusivity and data reuse.

The session will consist of three 20 minute talks and a closing panel discussion where questions will be taken from members of the audience. All presentations will be made open at the time of the talk and licensed for reuse. The panel, moderated by Eugene Duff, current SIG treasurer, will focus on how to manage the disruptive effects of open science. Alongside the many benefits of open science will come some challenges. For example, how can peer review and be maintained and improved with the explosion of preprints? Will openness lead to greater specialisation of research activities, and can credit be appropriately allocated? And what are the implications of challenges to current funding models for research, publication and meetings? This round table will explore the disruptive effects of open science and will discuss how the community might address them.

The speakers include 3 females, 1 male, based in Europe and Canada.

## Objective

The audience will learn the definition of situated openness and why it matters for reproducible research.

The audience will learn what a hackathon is and get examples of successful hackathon projects .

The audience will learn existing tools to make their research outputs open

## Target Audience

The whole OHBM membership and in particular researchers interested in joining the open science movement but unsure on how to get started will find this symposium of interest.

# Presentations

## Hackathons: A new space for collaborative projects and learning

In this talk, current OHBM hackathon co-chair, Elisabeth Levitis will describe the structure (or lack thereof) of a hackathon and how those types of events support co-learning and collaborative projects. She will also provide concrete examples of projects that were only made possible thanks to hackathons.

### Presenter

*Elisabeth Levitis, BA&Sc*, McGill University  
McGill Center for Integrative Neuroscience  
Montreal, Quebec  
Canada

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## Inclusivity as a requirement for robust and reproducible brain imaging research

In this talk, current open science room co-chair, Cassandra Gould van Praag will continue the conversation on the necessities for inclusivity in open and reproducible research. She will dig deeper into issues of situated openness such as “who” is being open, “who” are we being open to, and how these factors might be biasing our open research agenda. She will end by highlighting the value of working closely with Diversity and Inclusion committees, showcasing our developing proposal for a low sensory quiet space at our events to support the diverse needs of our members and improve their opportunities for participation.

### Presenter

*Cassandra Gould van Praag, PhD*, University of Oxford  
Department of Psychiatry  
Oxford, Oxfordshire  
United Kingdom

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## Every little bit counts: towards data reuse in neuroimaging

Including open science practices in everyday research is not always straightforward and the wealth of tools available can quickly become overwhelming. In this talk, current SIG chair, Camille Maumet will discuss how recent initiatives fit together to enable data reuse.

### Presenter

*Camille Maumet*, Inria, Univ Rennes, CNRS, Inserm Rennes  
France

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## Round table: Managing the disruptive effects of open science

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### **Presenter**

*Eugene Duff*, University of Oxford Oxford, UK  
United Kingdom

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