



# Human Brain Project

HBP Newsletter · October 2022

## Top news



### **Human Brain Project researchers identify new marker of ALS outcome**

A study by Human Brain Project researchers identifies a new marker for predicting the clinical outcome of patients of Amyotrophic Lateral Sclerosis (ALS) through magnetoencephalography. [Read more](#)

### **Conscious perception of sound is carried by dedicated assemblies of neurons in the brain**

A new study co-led by Human Brain Project researchers in France has revealed how consciously listening generates sound-specific assemblies of neurons in the brain. [Read more](#)

### **Human Brain Project researchers work on safer interaction between humans and robots**

Ongoing Human Brain Project research is on Cobotics – exploring the safe collaboration between humans and robots in a shared space. [Read more](#)

### **Study by Human Brain Project researchers unravels mechanisms of psychostimulants on attention and learning**

Psychostimulants are commonly used as treatments of psychiatric disorders or to improve cognition, but the benefits of these drugs are not the same for everyone, as their effects vary greatly both across individuals and within the same patient. [Read more](#)

### **Co-simulation interface marks a new milestone for multiscale modelling**

A new co-simulation interface will link molecular chemical signaling to whole-brain network dynamics, allowing researchers to study complex multiscale interactions involved in brain diseases such as Alzheimer's. The new interface will be available on EBRAINS in early 2023. [Read more](#)

### **A vision on socially beneficial development of the EBRAINS infrastructure**

The EBRAINS vision on ethics and society is focused on the need to promote and uphold human rights in the face of emerging neuroscience and neurotechnologies. [Read more](#)

### **The Fenix Authentication and Authorization Infrastructure (AAI) Status and Updates**

The Fenix infrastructure of today provides a federated and integrated environment as well as access to common infrastructure services across multiple sites. [Read more](#)

### **EBRA releases interviews with clusters, highlighting achievements and next steps**

Representatives of the research infrastructure EBRAINS, a partner of the EBRA project through the Human Brain Project, conducted interviews with cluster coordinators. The interviews consisted of a presentation of the purpose of the clusters and a description of the role of the partner involved, but also touched upon the key research and advocacy points raised during the cluster activities and outline future plans of the clusters. [Watch the interviews here](#)

**Transversal functional connectivity and scene-specific processing in the human entorhinal-hippocampal circuitry** - Grande, X., Sauvage, M., Becke, A., Düzel, E., Berron, D. [Read the full paper in eLife](#)

## Events

## **2 November 2022 - 18th Fenix Infrastructure Webinar "How to implement a secure processing pipeline for human data"**

This webinar will present existing solutions that enable secure and privacy-protecting processing of human health data in the cloud and on HPC. [Learn more](#)

## **7-10 November 2022 - Simulate with EBRAINS**

This online workshop aims at giving an overview of how to simulate with EBRAINS, from the infrastructure level to simulations at multiple scales. [Find out more](#)

## **12-16 November 2022 - SfN 2022 in San Diego, USA**

Meet the EBRAINS & HBP team at Neuroscience 2022. [Learn more](#)

## **14 November 2022 - EOSC Symposium**

Follow EBRAINS Session at the EOSC Symposium on 14 November at 13:00 CEST. [Learn more](#)

## **16 November 2022 - 2nd MSDA Stakeholder Engagement Meeting: The use of Artificial Intelligence and Great Data to reveal progression in MS**

Jan-Paul Triebkorn and Steven Vermeulen will present 'Showcasing a non-MS specific success story: EBRAINS'. [Learn more](#)

## **16 November 2022: Neuroethical reflection on consciousness and cognition**

This course offers an overview of the state of the art neuroethical reflection about consciousness and cognition. [Register here](#)

## **23 November 2022 - Brain Matters Webinar #12 - Rodent Brain Atlasing**

This webinar will feature HBP researchers from the University of Oslo. [Learn more](#)

## **29 November - 3 December 2022 - School of Brain Cells & Circuits "Camillo Golgi": Modelling the brain**

The 2022 Course of the School of Brain Cells and Circuits focus is modelling the brain, from local microcircuits properties to large scale network properties, essential to understand how the brain works and to foster biomedical and technological applications. Info about programme and application [can be found here](#).

## **6 December 2022 - Translational Neuroscience Day 2022 by NeurATRIS & Celphedia**

Viktor Jirsa, EBRAINS Chief Science Officer, will give an introduction to EBRAINS at 14:30 CET. [Learn more](#)

## **6 December 2022: Communicate like the expert you are: A primer for becoming a popular scientist**

We offer a crash course in communications, providing you with the tool you need to communicate about your results, and your research questions. [Register here](#)

## **18–20 January 2023 - 7th and final HBP Student Conference in Madrid, Spain**

[Abstract submission & registration are open!](#) Abstract submission deadline is 3 October.

## **14-16 March 2023 - EBRAINS Workshop: Anatomy and function of the pre-frontal cortex across species in Paris, France**

[Registration is open!](#)

## **28 - 31 March 2023 - Human Brain Project Summit in Marseille, France**

Save the date! The Human Brain Project Summit 2023 provides an open forum for hundreds of researchers, plus policy makers, media and public, to discuss exciting scientific results, the latest developments in the project, and the cutting-edge services and tools available on the EBRAINS Research Infrastructure is a great opportunity to share the latest developments of the Human Brain Project with the community and external audiences. [Learn more](#)

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## Event Recordings

[Brain Matters #11 - "Schizophrenia: a temporal disorder?"](#)

[17th Fenix Infrastructure webinar: Federated Resource Management using FURMS](#)

Watch previous episodes of our 'Brain Matters' webinar in [this playlist](#).

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## **New technology & market watch trends report: Neurostimulation devices and their role in the industrial health sector.**

This report, elaborated by the HBP Innovation team, originates from the SGA3 phase of the Human Brain Project, as a business intelligence work aiming to support decision-making processes on the exploitation of research results. [Read the report here](#)

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## **The HBP Innovation and Technology Transfer Node is glad to announce the release of the Startups & Fundraising report: a comprehensive approach for European neurotech ventures**

Aimed at researchers eager to exploit their research results, the Startups & Fundraising report introduces the possibilities of the entrepreneurship world. [Read the report here](#)

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# EBRAINS Community

## **EBRAINS Community Calls: Grant of financial support for events for HBP partners**

Partners of the Human Brain Project can request financial support with the aim of creating an activity or an event referred to as 'EBRAINS Community Event'. The Events are opportunities to increase the activity within the community, engage new members, and experience new ways of engagement. Applicants are requested to send their proposal by completing an application form that can be requested through [community@ebrains.eu](mailto:community@ebrains.eu). Proposals will be considered on a first come first served basis with a deadline end June 2023.

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## **Chat function in the EBRAINS Community space**

This offers members of the community to create one-on-one chats directly in the EBRAINS Community space – in the chat they can share messages and photos!

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## **EBRAINS Subcommunity for Young Researchers in the EBRAINS Community Space!**

The HBP Education Programme kindly invites you to join the subcommunity "Young Researchers – Education and Career"!

Community members will be informed you about upcoming activities and opportunities that help you to develop your career further and gain more knowledge and skills in your field of interest/research by using Human Brain Project and EBRAINS resources.

[Join the community](#)

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# Survey

## **Global survey on data-sharing barriers in neuroscience**

The INCF Infrastructure Committee is trying to identify barriers to data sharing and reuse among neuroscience researchers worldwide, with a brief anonymous survey.

The results will be made public, and will be used by INCF and collaborators to develop strategies and activities for supporting the global neuroscience community. [Take the survey](#)



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