Human Brain Project

HBP Newsletter · November 2022

Top news

Impressions from Neuroscience 2022 in San Diego
Human Brain Project research was presented in over 35 posters, while EBRAINS tool demos were presented by over 20 scientists at our booth. Read more

A vision for the future of digital brain research – 3rd edition of the position paper published
The 3rd version of the position paper on the vision for the coming decade of digital brain research has just been published. Researchers worldwide are invited to contribute to the paper by submitting comments or adding their names to the list of supporters. Read more

Multilevel brain atlases provide tools for better diagnosis
The multilevel Julich Brain Atlas developed by researchers in the Human Brain Project, could help in studying psychiatric and aging disorders by correlating brain networks with their underlying anatomical structure. Read more

Surfing the consciousness wave
When a sensory stimulus reaches our brain, it doesn't drop in calm waters - brains are always agitated with spontaneous activity. Read more

Virtual reality and artificial intelligence offer promising approaches to stroke rehabilitation
The EBRAINS-supported PHRASE project aims to deliver a platform for prognosis and intervention protocols for AI-based rehabilitation. Read more

Scientists use EBRAINS to simulate deep brain stimulation in Parkinson's disease
Researchers are using The Virtual Brain - an open-source platform for constructing and simulating personalised brain network models on EBRAINS - to simulate the effects of deep brain stimulation in Parkinson's disease. Read more

New version of Arbor neural network simulation library released
Enhanced capabilities have been added to Arbor v0.8. Read more

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Events

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

13 December 2022: Brain Matters #13 - "Computing the Brain"
This episode will take place from 16:30 - 17:30 CET. Register here

18 - 20 January 2023 - 7th and final HBP Student Conference in Madrid, Spain
The 7th HBP Student Conference on Interdisciplinary Brain Research provides an open forum for the exchange of new ideas among early-career researchers working across various sciences relevant to the Human Brain Project. Register here

February - March 2023 - EBRAINS CoCreate on improved brain disease investigation
In this CoCreate you will have the opportunity to co-develop roadmaps for improved investigation of brain-related disorders, ultimately leading to understanding the individual case by relating it to experience with patients across Europe. You will become part of a new and growing community of researchers, experts, and stakeholders in multi-disciplinary brain research:

- 06 February 2023, 13.00-16.00 - Online
- 01-03 March 2023 - in Copenhagen
- 20 March 2023, 13.00-16.00 - Online

Pre-sign up here

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

Watch the **latest episode of Brain Matters 'Rodent Brain Atlasing'** here

18th Fenix Infrastructure webinar: How to implement a secure processing pipeline for human data

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New Partnering Projects

ReWoMeN: Recall dynamics of working memory networks: Modeling, analysis, and applications

The aim of ReWoMeN to build a combined model-based and data-driven mathematical framework for analysis and regulation of the recall dynamics of human working memory (WM) networks. The findings will contribute to the realization of bio-inspired deep neural networks as well as the mechanistic understanding of the human WM.

EBRAINS Community

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