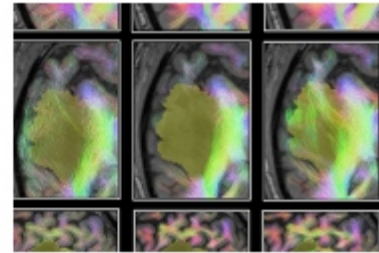
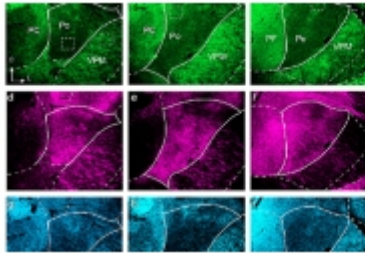




Human Brain Project

HBP Newsletter · January 2023

Top news



HBP researchers map the 'synaptic landscape' of a cognitive nucleus of the thalamus

Researchers from the Autonomous University of Madrid supported by the Human Brain Project were able for the first time to identify the origin, intranuclear distribution and size of all types of axon terminals present in a cognitive nucleus of the thalamus. [Read more](#)

How rodent atlases help to integrate brain data

Human Brain Project researchers from University of Oslo have reviewed the current state of atlas-based data integration for mapping the connections and architecture of the rodent brain. [Read more](#)

Addressing ethical challenges in artificial intelligence

A new book co-authored by Human Brain Project Ethics Director Bernd Stahl offers tools to help manage the ethical challenges brought on by the increased use of AI. [Read more](#)

Erice 2022: international school on brain circuit focuses on multiscale brain modelling

The latest edition of the International School of Brain Cells & Circuits "Camillo Golgi" featured more than 80 participants and dozens of talks, lessons, poster sessions, and for the first time workshops and hands-on activities. [Read more](#)

Pre- and post-surgery brain tumor data available on EBRAINS

Magnetic resonance imaging data from 25 patients before and after tumor resection surgery can be accessed on the EBRAINS Knowledge Graph. [Read more](#)

EBRAINS at 'The Future of Brain Health: Clinically Informed and Patient-Centered Brain Research' event

EBRAINS CEO Paweł Świeboda took part in 'The Future of Brain Research in Europe: Key Priorities and How They Can Be Addressed' panel at the 'Future of Brain Health' event, organized by the European Academy of Neurology. [Read more](#)

New report from EBRAINS Community CoCreate: Research and innovation roadmaps on Digital Brain Health

The EBRAINS Community has prepared a report on Research & Innovation roadmaps with long-term ambitions and visions within Digital Brain Health. [Read more](#)

All eyes on impact: the building of the European brain health innovation ecosystem

By Paweł Świeboda, CEO of EBRAINS and Director General of the Human Brain Project. [Read more](#)

Events

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

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. Registration will open this week!

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](#)

12 January 2023 - Team HART Exposition: Senses of the Future takes place in Eindhoven University of Technology

Team HART, an HBP Partnering Project, will once again showcase its progress in the past year. Team HART has branched out to other use cases of their prototype, and they are very excited to show you the different directions Team HART is heading in. Register via this [link](#).

24 January 2023 - Brain Matters #14 - Exploring the mechanisms of consciousness disorders

The next episode of Brain Matters will feature the following HBP researchers:

- Rajanikant Panda (University of Liege)
- Olivia Gosseries (University of Liege)

The session will be moderated by Gorka Zamora-López from Pompeu Fabra University.

[Registration for the next episode is open!](#)

25 January 2023 - 19th FENIX Infrastructure Webinar, "Fenix Data Service": Data Mover and Data Transfer Service"

Fenix computing and data services are separated into the traditional HPC and the newer public cloud environments. Hence, we also have two corresponding types of data storage: ACD and ARD. ACD stores the data that needs to be close to the computing resources so that the I/O can be efficiently read and write. And on the other hand, we have ARD for long-term storage that aims for scalability and reliability. In Fenix, we have Data Mover to move data from ACD to ARD within one site and Data Transfer Service to move data from ARD to ARD across sites. For more information and registration, [please click here](#).

26 January 2023 - The virtual EBRAINS Unconference about Healthy Brain Ageing and Lifestyle – what do we know about healthy brain ageing?

Speaker announcement! We are happy to present **Professor Jean Jacques Temprado** who will be having a plenary session: The ageing brain: How to keep it in good health? during the EBRAINS Unconference.

An EBRAINS Unconference is an international unconventional conference, as the topics and sessions are generated by the participants, creating the conference agenda based on their interests. It is a participant-driven workshop without pre-defined sessions, only the overarching theme is pre-defined: 'Healthy Brain Ageing and Lifestyle – What do we know about healthy brain ageing?'. You can take part in the event as a session leader and/or as a participant. All you must do is register and indicate if you wish to participate only, or if you wish to drive a session related to the overarching theme. Participants from various fields within neuroscience, researchers, scientists, academia, students, representatives from the industry and civic society organisations are invited to participate.

Registration for this event is free of charge, only interest and commitment are the prerequisites for attendance. [Learn more](#)

2 February 2023 - The future of responsible brain research

Join us for an online event reflecting on the future of responsible brain science, and how we should advance work on neuroethics, society, and philosophy in research and innovation in the future, practically and conceptually. The event will focus on novel approaches to responsible research and innovation, the opportunities and challenges of interdisciplinary collaborations, and future directions for developing more responsible brain science. Keynote speak by Marcello Lenca: *On Brains and Machines: The Common Ethical Ground of AI and Neuroscience*. For more information and registration, [please click 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

[Learn more](#)

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

[Registration is open!](#)

Event Recordings

Watch the latest episode of Brain Matters 'Computing the Brain' [here](#)

Partnering Projects

MULTIVision: Multiphoton Voltage Imaging

The overall aim of [MULTIVision](#) is to understand the brain through novel tools and methods to perturb, record and interpret brain activity based on advances in physical sciences and engineering.

TraP-MEDD: Translational Platform for MSA: Elucidation of Disease-mechanisms and Drug discovery

[TraP-MEDD](#) aims to generate reliable human in vitro and humanized animal models and use multilayer OMIC data for generating a molecular interacting network using computational approaches to elucidate disease mechanisms and accelerate drug discovery.

Team HART Exposition: Senses of the Future takes place in Eindhoven University of Technology, on 12th of January 2023

On the 12th of January, Team HART, an HBP Partnering Project, will once again showcase its progress in the past year. Team HART has branched out to other use cases of their prototype, and they are very excited to show you the different directions Team HART is heading in. [Register via this link.](#)

Innovation

Innovation and exploitation of innovative tools and services are key elements of the HBP approach. Our colleagues in Madrid are providing the scientific community with support and help in how to bring their innovation to market. Please read these very insightful reports from last year.

Market Analysis of the EBRAINS Multilevel Human Brain Atlas

Covering the Atlas' main features, international context and competitors; a SWOT analysis; its exploitation possibilities gathered from six interviewees and a list of some of the most important private players in neurotech nowadays. [Read the report here](#)

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](#)

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](#)

Also, stay tuned for a future event to be organized soon with potential investors... More info will be available soon.

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](#)

Join the EBRAINS Community!

Whether you are looking for other EBRAINS users, would like to engage in research facilitated by the EBRAINS services and tools, or find elements of neuroscience, brain medicine, and brain-related technology interesting, the EBRAINS Community is for you!

[Click here to join the EBRAINS Community.](#)



EBRAINS AISBL, Chau. de la Hulpe 166, 1170 Watermael-Boitsfort, Belgium
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