



HBP Newsletter · May 2022

Highlights



Webinar 18 May 2022: Diversity in Brain Research: Does it matter?

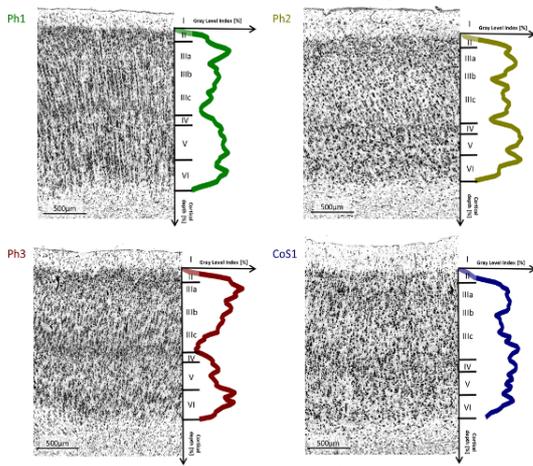
In this webinar, the Human Brain Project encourages scientists to consider sex, gender and additional diversity factors in neuroscience and related fields: because biology, social factors and culture play an important role in shaping the brain. [Read more](#)



Do you want to share your data and models FAIRly?

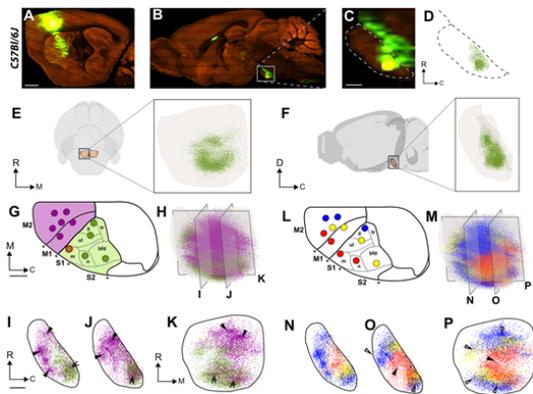
Our team at EBRAINS can curate your data and models - as well as annotate them with standardised metadata so that other researchers can discover and reuse them. [Learn more](#)

News



Probabilistic maps of four new brain areas now accessible on EBRAINS

The areas play different roles in visual-spatial orientation and associative memory. [Read more](#)



EBRAINS-enabled research provides new insight into abnormal brain development

Experimental investigation combining open data and brain atlases on EBRAINS improves understanding of patients with developmental coordination disorders. [Read more](#)



EBRAINS provides access to new high-resolution cytoarchitectonic 3D map of the metathalamus

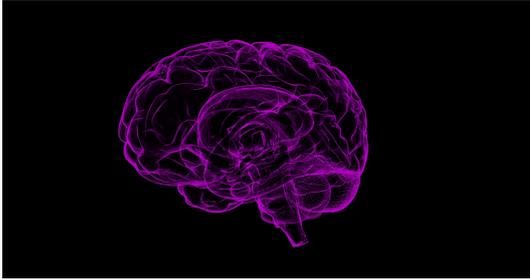
A new, high-resolution 3D map of the metathalamus was reconstructed by a team of researchers as part of the Human Brain Project and is now accessible to anyone via EBRAINS. [Read more](#)



Save the date for the EBRA Final Conference!

Please Save the Date for the upcoming EBRA Final Conference,

which will take place on 11 October 2022 in Brussels, Belgium. [Learn more](#)



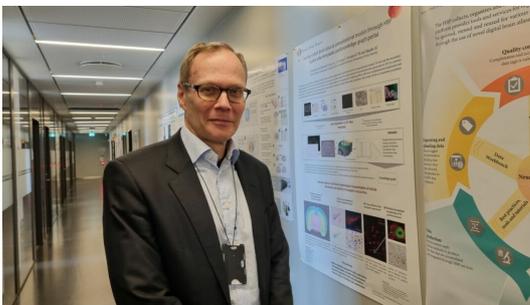
Your contribution to shaping the course of neuroscience

Researchers across Europe are invited to comment on a recently published position paper on the vision for the coming decade of digital brain research. [Learn more](#)



HBP scientists debate healing the diseased brain on the last day of Corticon symposium

The Symposium brought together HBP neuroscientists and invited guests, who presented their latest achievements in understanding neurocircuit dynamics at microscales, meso- and macroscales, including the emergence of consciousness. [Read more](#)



Data from research is often not shared. Now 1,700 brain researchers have started sharing with everyone

We're delighted to be profiled in forskning.no, the largest science news website in Norway! [Read the article in Norwegian](#)

Read more news items [here](#).

Upcoming Events

16 May 2022: Training: Human data in EBRAINS - Governance & compliance

The module will introduce a number of ethical compliance and data protection issues related to human data processing in neuroscience research, particularly issues raised by data processing activities in EBRAINS (such as informed consent, pseudonymisation, data controllership and data security). Participants will learn how to address these issues in ways that are socially acceptable, ethically responsible and legally compliant. [Register here](#)



HP Human Brain Project

Diversity in brain research: Does it matter?

WEBINAR 18 MAY 2022 16-17:30 CEST

18 May 2022 - Diversity in Brain Research: Does it matter?

To which extent are brain functions affected by sex hormones? Is it possible to differentiate biological sex from other factors that can influence the brain, like culture or life experiences? Can it be ethically justified to only study homogenous groups when diagnosing and treating diseases, if that means neglecting human diversity? These are some of the questions that arise when exploring diversity in brain research: To differentiate variables has been recognised as relevant in brain research, robotics, and training of artificial intelligence.

In the **webinar “Diversity in brain research: Does it matter?”** on **18th May 2022, 16.00-17.30 CEST**, the [Human Brain Project](#) encourages scientists to consider sex, gender and additional diversity factors in neuroscience and

related fields: because biology, social factors and culture play an important role in shaping the brain.

Prof. [Lutz Jäncke](#) and Dr. [Frances-Catherine Quevenco](#) will discuss recent findings and different viewpoints on how and when sex/gender differences in brain research are relevant. The Human Brain Project will also present the winners of our [Diversity In Research Paper Awards \(DIRPA\)](#), to [Sanne Peters](#) and [Yi Zhang](#), who will outline their own research results and join the discussion. [Register here](#)

2-4 June 2022: NIN Summer School

The Summer School features lectures from 12 internationally recognized top-level scientists. The event is a gathering of experts in neuroscience and technology and covers many aspects of this rapidly emerging field. They will discuss the new methods for reading from, and writing to, the brain and the emerging therapeutic applications made possible with this technology.

Human Brain Project DG and EBRAINS CEO Paweł Świeboda will be part of a panel discussion which will address the future of neurotechnology.

[Registration is now open!](#)

13-15 June 2022: BASSES EBRAINS Workshop

The goal of the BASSES Workshop (Brain Activity across Scales and Species: analysis of Experiments and Simulations) is to provide an overview of the scientific topic of brain states and complexity, state transitions, and their connection with cognitive functions, and to demonstrate the achievements in this field obtained within the Human Brain Project thanks to the functionalities provided by the EBRAINS research platforms. [Register here](#)

Submit your abstract!

We invite original, high-quality submissions describing innovative research addressing the topics of brain dynamics, brain states, state transitions, complexity, cognitive functions, software solutions and analysis tools. Abstract submission deadline: 6 May 2022.

15 June 2022: 16th Fenix Infrastructure Webinar: Best practices for using NEST on FENIX scalable computing services

This webinar will introduce users to the use of NEST on Fenix Scalable Computing Services. After a brief introduction to neuronal network modelling with NEST locally in the EBRAINS Collaboratory, we will show how to run the same simulation on Fenix HPC resources from the Collaboratory. [Register here](#)

25-28 June 2022: 8th EAN Congress

We will have a booth at EAN 2022! The overarching theme this year is 'Getting Evidence into Practice'. Leading specialists will tackle timely and relevant questions such as which clinical trial designs best inform practice; what evidence informs the use of diagnostic tests; are guidelines a useful tool for improving outcomes; and how do we get guidelines applied and implemented?

EBRAINS Chief Communications and Content Officer France Nivelles will present 'Enabling future Brain Research Breakthroughs in Europe - Meet EBRAINS' on July 25 from 10:00 - 10:30. [Learn more](#)

9-13 July 2022: HBP & EBRAINS at FENS Forum 2022

The Human Brain Project and EBRAINS are exhibiting at the FENS Forum 2022 that takes place online 9–13 July 2022 in Paris, France. EBRAINS is organising a networking event on 11 July, 18:45–20:30 CEST. Should you like to join this event and discover our booth, please fill in our contact form [here](#).

25 October 2022: Save the Date for the Young Researchers Event in Croatia

In conjunction with the 6th HIBALL BigBrain Workshop. [Learn more](#)

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

Abstract submission is open! [Learn more](#).

Learn about more upcoming events [here](#).

Publications

Read recent publications from Human Brain Project scientists below!

Learning cortical representations through perturbed and adversarial dreaming

Nicolas Deperrois, Mihai A Petrovici, Walter Senn, Jakob Jordan

[Read the full paper in eLife](#)

Natural-gradient learning for spiking neurons

Elena Kreuzer, Walter Senn, Mihai A Petrovici

[Read the full paper in eLife](#)

Read more publications [here](#).

Event Recordings

Did you miss one of our recent events or workshops? We've got you covered! Watch replays via the links below:

SpiNNaker and BrainScaleS sessions from NICE 2022

- [SpiNNaker Hands On session recording](#)
 - [BrainScaleS Hands On session introduction recording](#)
 - [SpiNNaker 2 results: A Platform for Real-Time Bio-Inspired AI and Cognition](#)
 - [BrainScaleS via EBRAINS](#)
 - [Demonstrating BrainScaleS 2 Inter-Chip Pulse Communication using Extoll](#)
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New videos are available in our E-Library!

The recordings of the 'EAN-EBRAINS Workshop: The Future of Medical Data Sharing in Clinical Neurosciences' are now available [here](#).

[Watch previous episodes of our Brain Matters webinar series!](#)

Social Media

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