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# Human Brain Project

## *Newsletter!*

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Dear Sir or Madam,

Please find a short overview of Human Brain Project (HBP) news from February 2020 below, as well as an outline of upcoming HBP events.

Best regards,

HBP Digital Communications

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### **Newsflash**

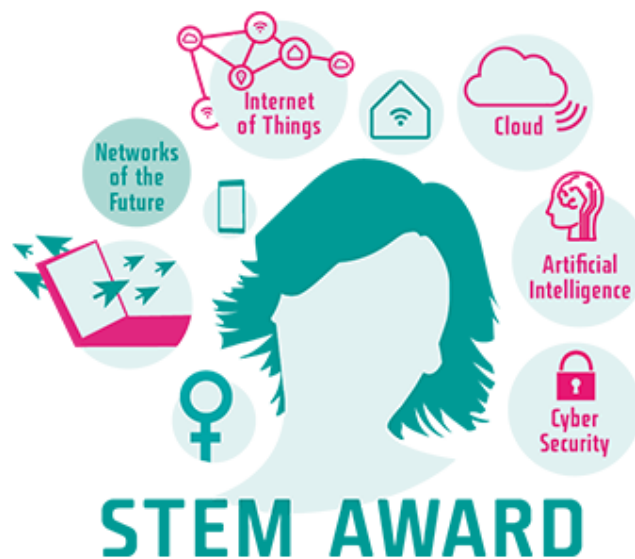
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## Women's STEM Award 2020

Submit your thesis in one of these areas to win 3,000 Euros!

- Cloud
- Internet of Things
- Artificial Intelligence
- Cyber Security
- Networks of the Future

[Find out more](#)



## Call for Clusters – The European Brain Research Area

The EBRA Call for Clusters is open until January 1st, 2021. It aims to promote cooperation and exchange between brain research projects and to enable or enhance international collaboration and the development of clusters in all areas of brains research.

A cluster is an association of research projects that can be directed towards basic research, clinical research and/or methodological approaches under a common topic, and disease and/or thematic area.

[Find out more](#)

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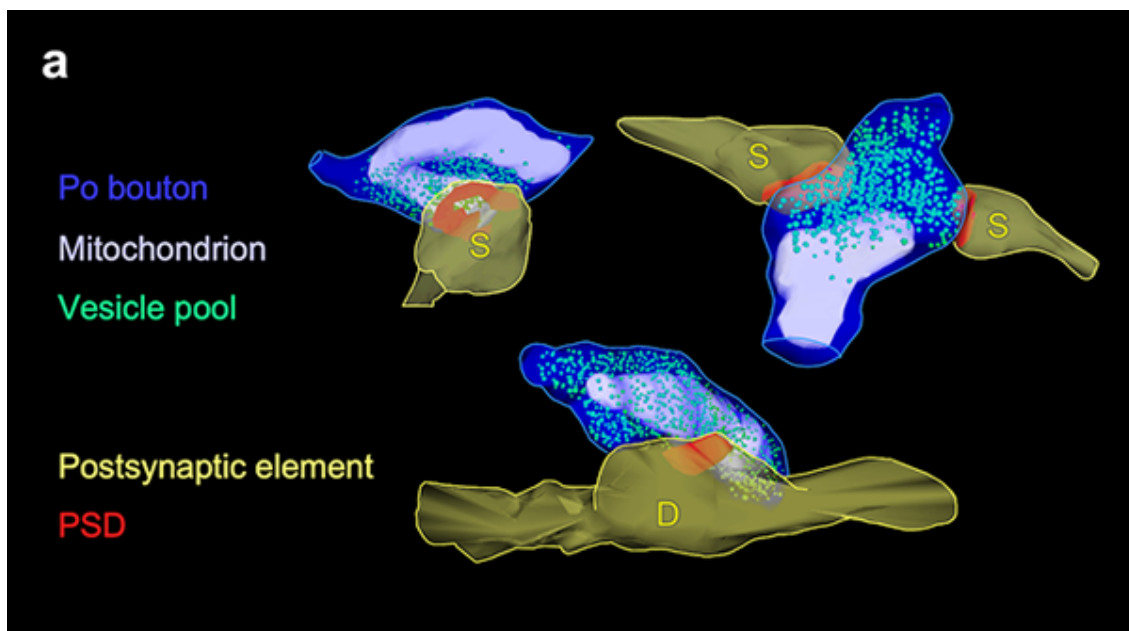
## Research News

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### **HBP researchers in Spain identify neurons capable of coordinating functional networks in the brain**

Each mental event or voluntary motor act is the result of the simultaneous activity of large groups of neurons in several areas of the brain far from each other. How do these groups of nerve cells manage to instantly and selectively coordinate their electrical activity?

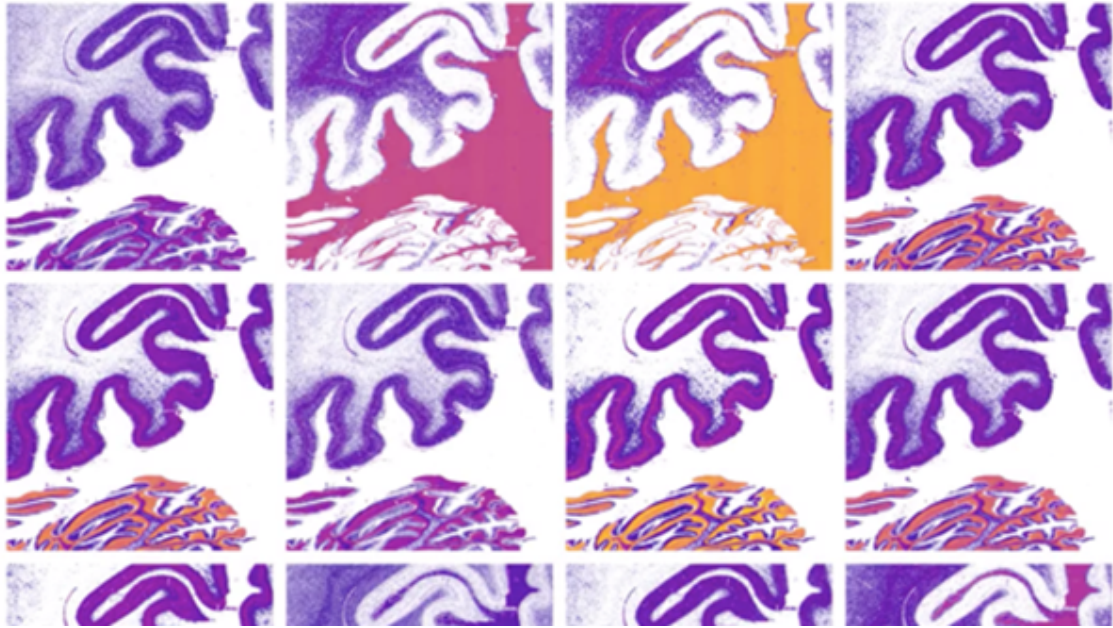
[Read more](#)



## German-Canadian collaboration boosts the HBP Brain Atlas

HIBALL, short for Helmholtz International BigBrain Analytics Learning Laboratory, intends to further develop the BigBrain infrastructure to achieve a high level of interoperability with brain initiatives in Canada and Europe, complementing the ongoing work in the European flagship project Human Brain Project (HBP) and Canadian initiatives in the field of AI and brain health.

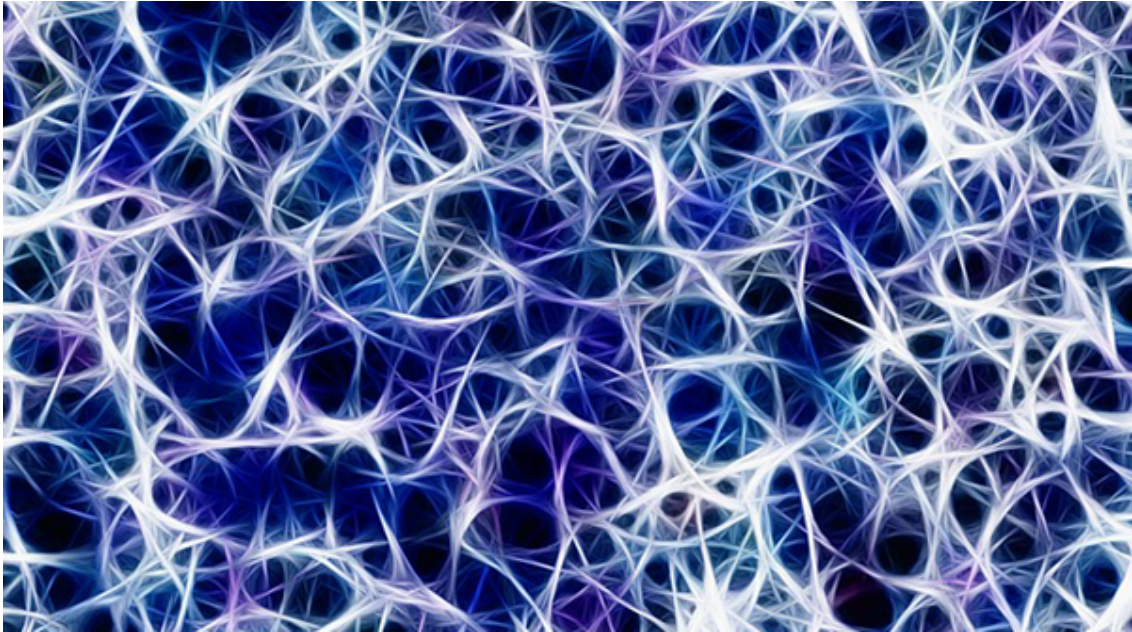
[Read more](#)



## Dendrite Activity May Boost Brain Processing Power

Single human neurons may be much more powerful computational devices than once thought, according to a new study that identifies previously unknown electrical activity in neural dendrites.

[Read more](#)



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## Project News

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### 7th HBP Summit in Athens: The road to EBRAINS

From February 4-6, the Human Brain Project held its 7th Summit in Athens, Greece. Special emphasis this year was placed on the key steps taken to establish EBRAINS, the European Research Infrastructure for neuroscience.

[Read more](#)



**Greek President Pavlopoulos at the Human Brain Project Open Day**

On February 3rd, hundreds of visitors joined the HBP Open Day 2020 in Athens to get an insight into the Human Brain Project and EBRAINS, the new infrastructure for connecting neuroscience and technology in Europe. The project was honored by a visit and welcoming address from the President of the Hellenic Republic, H.E. Prof. Prokopis Pavlopoulos.

[Read more](#)



## Human Brain Project & Dutch Neuroscience: Shaping Collaborations

On February 14th, over 100 neuroscientists and other interested guests from the Netherlands gathered for the HBP's event 'Human Brain Project & Dutch Neuroscience: Shaping Collaborations' in Amsterdam.

[Read more](#)



## The 'Fascinating Brain' exhibit in Innsbruck

The 'Fascinating Brain' exhibit will be shown at Laundhaus 2 in Innsbruck, Austria from 16th - 26th March. The exhibit explores the close interplay of neuroscience and technology development with regards to the HBP's new research e-infrastructure, [EBRAINS](#).

[Find out more \(German\)](#)



## NEST 2.20.0 released

This release wraps up the 2.x series of NEST and contains many improvements and bug fixes. Highlights are the addition of the generalized leaky integrate-and-fire neuron models by the Allen Institute, STDP synapses with nearest-neighbour spike pairing schemes and improved documentation, available on [Read the Docs](#).

[Read more](#)



## Human Brain Project / EBRAINS: Call for Proposals for European Neuroscientists at Large for Using ICEI e-Infrastructure Resources

European neuroscientists are invited to submit proposals for using these resources for research on topics in the broader scope of the HBP.

[Read more](#)



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### HBP in the Media

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**The National Herald (Greece):** [Pavlopoulos: AI Will Bring Breakthroughs in Understanding Human Brain](#)



**CORDIS (EU):** [Brainstorming in Athens at the Human Brain Project](#)

**CORDIS (EU):** [Could language be the lens to the brain?](#)

**Mondo Padano (Italy):** [«Un cervello virtuale per curare l'Alzheimer e l'epilessia»](#)

**La Stampa (Italy):** [Insegnare il tatto alla cyber-mano: “Hackeriamo i messaggi del cervello e si riacquista la sensibilità perduta”](#)

**Madrimas (Spain):** [Identifican neuronas ‘directoras de orquesta’ en las redes funcionales del cerebro](#)

**Engineering & Technology (UK):** [Neurology: thinking outside the box](#)

**Genetic Literacy Project (USA):** [‘It takes a world’: Initiative urges global collaboration to help us understand the human brain](#)

**Inside HPC (USA):** [How Ceph powers exciting research with Open Source](#)

**Neuroscience News (USA):** [Researchers identify neurons capable of coordinating functional networks in the brain](#)

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## Upcoming Events

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### **EITN Spring School in Computational Neuroscience**

4 - 13 March 2020

Paris, France

The EITN Spring School in Computational Neuroscience consists of a 10-day course in theoretical and computational neuroscience, from cellular to whole-brain levels. The course is structured in thematic days with lectures, tutorials, and project work.

[Find out more](#)

### **4th Fenix Webinar: "How to make the best use of ICEI storage resources"**

10 March 2020

Webinar

The webinar will provide details on the two different classes of storage that are available.

[Find out more](#)

## **Future Application Directions for Neuromorphic Computing Technologies**

16 March 2020

Heidelberg, Germany

HBP Silicon Brains partners will contribute to the NEUROTECH event "Future Application Directions for Neuromorphic Computing Technologies" on 16 March 2020 in Heidelberg.

[Find out more](#)

## **Brain Week 2020**

16 - 19 March 2020

Switzerland

Conferences on neuroscience will take place in several Swiss cities throughout the week and are open to the public.

[Find out more](#)

## **NICE 2020**

17 - 20 March 2020

Heidelberg, Germany

The HBP Silicon Brains partners will contribute with talks and tutorials to the 2020 Neuro-Inspired Computational Elements (NICE) Workshop.

[Find out more](#)

## **HBP Training Event: The use of Containers on High Performance Computing (HPC) systems**

24 - 25 March 2020

Palermo, Italy

This event will introduce participants to the use of containers on HPC systems.

[Find out more](#)

## **Measuring and modelling brain states**

28 - 29 March 2020

Solden, Austria

The final workshop of the 3rd HBP Curriculum Workshops Series invites researchers interested in measuring and modelling brain states at multiple scales.

[Find out more](#)

## **Nest Conference**

29 - 30 June 2020

Ås, Norway

The NEST Conference provides an opportunity for the NEST Community to meet, exchange success stories, swap advice, learn about current developments in and around NEST spiking network simulation and its application.

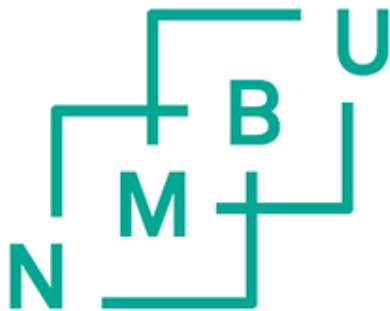
[Find out more](#)

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## Jobs

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### Associate Professors in Data Science



**Norwegian University  
of Life Sciences**

The Faculty of Science and Technology at the Norwegian University of Life Sciences is expanding its data science activities in research and education and invites applications for three permanent associate professor positions in data science with a focus on:

- [Machine learning for the 21st century](#)
- [Data management for a data science world](#)
- [Value-oriented deployment of data science](#)

The closing date for applications is 22 March 2020.

[Find out more](#)

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