



Human Brain Project

**Concluding Event of the Human Brain Project**  
Pioneering digital brain research

**12-13 September 2023 | Forschungszentrum Jülich, Germany**  
Scientific Symposium | lab tours | exhibition | reception

**Day 1 | 12 September 2023 | Lecture Hall (building 04.7)**

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**From 12:00**    **Doors open – welcome coffee**

**13:00 – 14:00**    **Welcome addresses**

Dr. Peter Jansens, member of the Board of Directors, Forschungszentrum Jülich  
Dr. Gustav Kalbe, Acting Director of DG Connect C “Digital Excellence and Science Infrastructure”  
Prof. Gitte Knudsen, Chair of the HBP Science and Technology Advisory Board, University of Copenhagen  
Dietmar Nietan, Member of the German Bundestag and Treasurer of the Social Democratic Party of Germany  
Prof. André Syrota, Chair of the HBP Stakeholder Board and of the EBRAINS AISBL Board of Directors, INSERM

**14:00 – 15:30**    **Spotlights on scientific achievements of the Human Brain Project**

*Pioneering digital neuroscience and brain medicine*

Prof. Katrin Amunts, Institute for Neuroscience and Medicine, Forschungszentrum Jülich

*From neuro-inspired to neuro-derived technologies*

Prof. Rainer Goebel, Maastricht University

*Building digital infrastructures for brain research*

Prof. Thomas Lippert, Jülich Supercomputing Centre, Forschungszentrum Jülich

**15:30 – 16:15**    **Coffee Break and group photo**

**16:15 – 17:30**    **Spotlights on scientific achievements of the Human Brain Project - flash talks by early career researchers**

Session chair and introduction - Prof. Petra Ritter, Charité – Universitätsmedizin Berlin

*Flexible silicon for neuron emulation and efficient computation*

Sebastian Billaudelle, Heidelberg University, Germany

*NEST Desktop*

Jens Bruchertsefert, Trier University, Germany

*From ionic channels to global brain dynamics and behaviour: data-driven simulations of cholinergic innervation*

Leonardo Dalla Porta, August Pi i Sunyer Biomedical Research Institute, Spain

*Showcase 1 - the virtual aging brain: structure-function relationship and cognitive decline*

Jan Fousek, Aix-Marseille University, France

*EBRAINS Data & Knowledge services: SHARE and FIND data*

Archana Golla, University of Oslo, Norway

*Exploring the diversity of cortical wave activity with a unifying workflow approach*

Robin Gutzen, Forschungszentrum Jülich, Germany

*Differential predictability of cognitive profiles from brain structure in older males and females*

Camilla Krämer, Heinrich Heine University Düsseldorf, Germany

*Towards an EBRAINS service for brain wave analysis: Cobrawap*

Cosimo Lupo, INFN, Italy

*HPC deployment of the official EBRAINS software releases*

Eleni Mathioulaki, Athena Research Center, Greece

*Leveraging learning to learn for intelligent parameter space exploration on HPC using GPUs for The Virtual Brain*

Michiel van der Vlag, Forschungszentrum Jülich, Germany

**From 18:00 Reception with exhibition**

## **Day 2 | 13 September 2023 | Research Institutes and Seecasino**

**09:30 – 10:00 Welcome Coffee at Seecasino**

**10:00 – 12:30 Hands on sessions and guided tours**

Welcome Coffee   Seecasino (pick up by guides)						
09:30-10:00	JSC, building 16.3, 16.4	INM-1, building 15.9v, 15.9	GRS seminar room, building 16.15, room: 2009, capacity: 20	JSC, Rotunde, building 16.4, capacity: 20+	INM-7, building 14.6y, room 2033; capacity: 16	INM Seminar room, building 15.9v, room 4001b, capacity: 20+
10:00-10:30	JSC tour 60 min	INM-1 wetlab tour 60 min	Macroscopic and topographical anatomy of the human brain (90 min)	NEST Desktop (75 min)	BrainScaleS neuromorphic computing hands-on (90 min)	Handling EBRAINS data (90 min)
10:30-11:00						
11:00-11:30			NEUROCONNECT (75 min)	Modular Science/ Multi scale session (90 min)		The siibra toolsuite for working with multilevel brain atlases (90 min)
11:30-12:00						
12:00-12:30	Quantum Computer tour 60 min	INM-1 wetlab tour 60 min				
12:30-13:00						
13:00-13:30	Light Lunch and Farewell   Seecasino					
13:30-14:00						

**12:30 – 13:30 Light Lunch at Seecasino**