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The Future of Brain Medicine: AI, Digital Brain Twins and Neurotechnology in Neurology, Neurosurgery, Psychiatry, Neurorehabilitation

11th EBRAINS Baltic-Nordic School and Symposium on Neuroscience and Artificial Intelligence

Lithuanian University of Health Sciences
Kaunas, Lithuania
19-20 October 2026

General Chair:

Viktor Jirsa (Aix-Marseille Université, France; EBRAINS Chief Science Officer)

Program Committee:

Damien Depannemaecker (Aix-Marseille Université, EBRAINS France)

Schaffhauser Birgit (University Hospital of Lausanne, EBRAINS Switzerland)

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Local Organizers:

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19th October 2026

Lithuanian University of Health Sciences, Eiveniu str 4, Kaunas, Lithuania

Workshop on EBRAINS, AI & Neuroethics

12.30 – 13.30	Registration	
13.30 – 15.30	Early Career Talks Selected from the Participants (15 min from PhD students and Post-Docs)	
15.30 – 16.00	Coffee Break	
16.00 – 17.00	Hands on The Virtual Brain and AI Foundation Models	
	<i>How AI Foundation Model looks like</i> Oliver Y. Chén (University Hospital of Lausanne, CHUV, EBRAINS Switzerland)	<i>How a Virtual Brain Twin looks like</i> Marianna Angiolelli, Gabriele Casagrande (Aix-Marseille University, EBRAINS France)
17.00 – 17.30	Coffee Break	
17.30 – 18:00	Neuroethics Inga Ulnikane (Leverhulme Centre for the Future of Intelligence, University of Cambridge, UK)	
18.00 – 19:00	Panel Discussion and Social Program	



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20th October 2026

Lithuanian University of Health Sciences LSMU, Eiveniu str 4, Kaunas, Lithuania

Symposium on EBRAINS, AI & Neuroethics

11.00 – 12.00	Registration
12.00 – 12.15	Opening and Welcome Daiva Rastenyte (Chancellor of Medical Academy, LSMU, EBRAINS Lithuania) Arimantas Tamašauskas (Director of Neuroscience Institute, LSMU, EBRAINS Lithuania)
12.15 – 14.00	EBRAINS in Advancing Neurotechnology for Precision Medicine
12.15 – 13.00	<i>Digital Twins in Clinical Neuroscience</i> Damien Depannemaecker (Aix-Marseille University, EBRAINS France)
13.00 – 14.00	<i>A Federated Stroke Digital Twin in Healthcare for Europe: Integrating Brain–Heart Physiology, Clinical Trajectories, and Societal Impact</i> Prof. Philippe Bijlenga (Geneva University Hospitals (HUG) & University of Geneva, EBRAINS Switzerland)
14.00 – 14.30	Coffee break/Lunch
14.30 – 15.30	<i>Predicting Brain Diseases Using Smartphones</i> Oliver Y. Chén (University Hospital of Lausanne, CHUV, EBRAINS Switzerland)
15.30 – 16.00	<i>Secure Data Processing and AI Development in Federated and Centralized Trusted Research Environments</i> Schaffhauser Birgit (Department of Clinical Neuroscience, University Hospital of Lausanne, CHUV, EBRAINS Switzerland)
16.00 – 16.30	Coffee break
16.30 – 17.00	Clinical Neuroscience: Artificial Intelligence for Brain & Heart Health
16.30 – 17.00	<i>Functional Neuromodulation in Neurosurgery and Neurology</i> Andrius Radžiūnas (Department of Neurosurgery, LSMU, EBRAINS Lithuania)
17.00 – 17.30	<i>Pain, sleep and neurorehabilitation</i> Kęstutis Petrikonis (Department of Neurology, LSMU, EBRAINS Lithuania)
17.30 – 18.00	<i>Personalization and prediction in the auricular vagus nerve stimulation</i> Eugenijus Kaniusas (Institute of Biomedical Electronics, Vienna University of Technology, Austria)
18.00 – 18.30	<i>Wearable Devices: What they Tell About Your Brain and Heart</i> Vaidotas Marozas (Kaunas University of Technology, EBRAINS Lithuania)
18.30 – 19.00	Coffee break
19.00 – 20.00	Panel Discussion <i>The Virtual Clinic: Promise, Risk, and Ethics in AI-Driven Medicine</i> Philippe Bijlenga, Damien Depannemaecker, Schaffhauser Birgit, Oliver Y. Chén, Vaidotas Marozas, Kęstutis Petrikonis, Andrius Radžiūnas
20.00 – 22.00	Social Program