

JSPS-JST France-Japan Joint Forum 2026

Neuroscience and Neurotechnologies

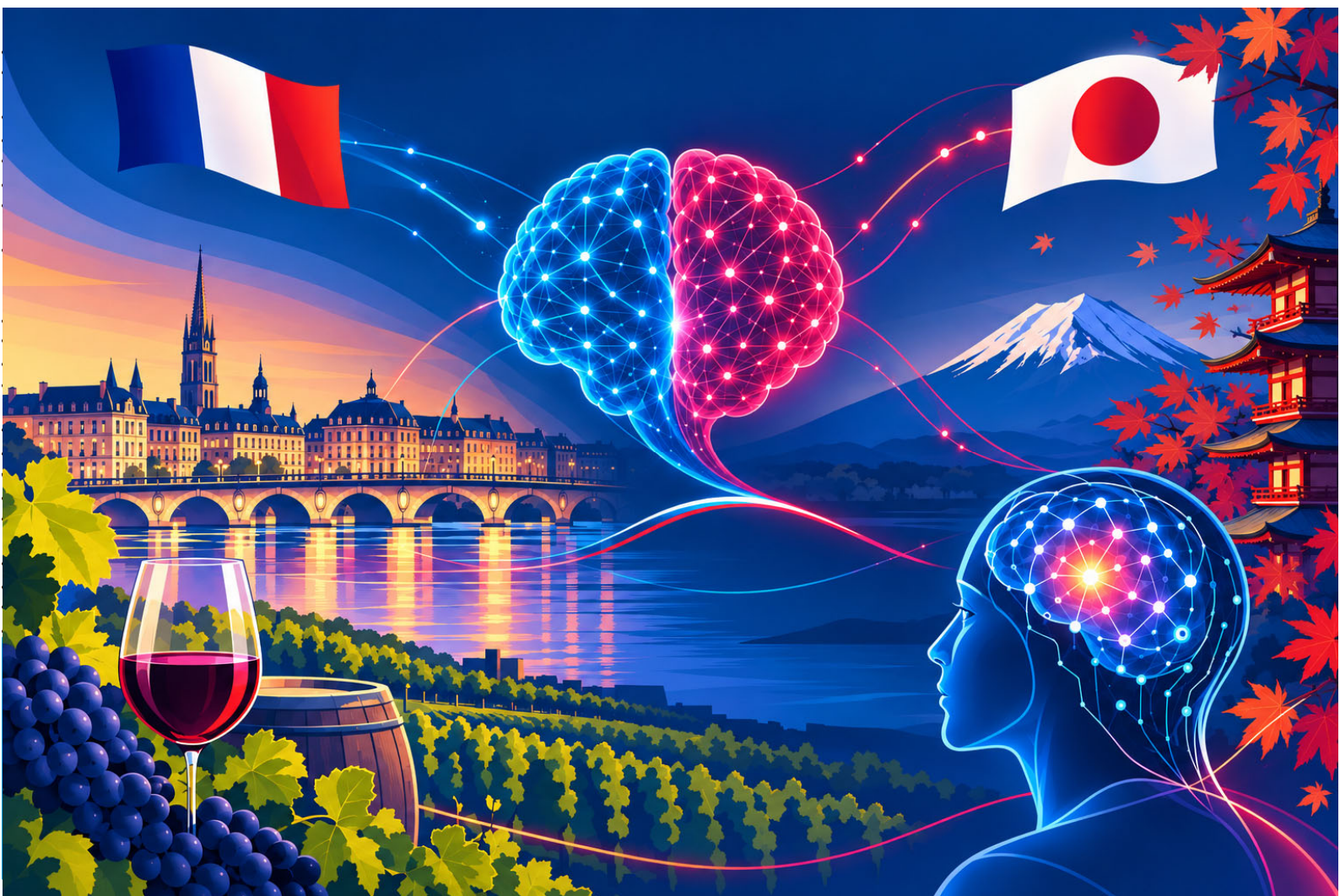
-Decoding, Encoding, and Compiling
the Native Code of the Brain-

November 4-5th, 2026

Venue : Université de Bordeaux

Campus Carreire, Salle de conférence du CARF

Address, CARF, 146, rue Léo Saignat 33076 Bordeaux



université
de **BORDEAUX**

November 4th

8:30-9:00: Registration & Welcome Coffee

9:00-9:15: Opening remarks

- Pr Jessica Fouilloux-Thomasset, Vice-President for International, University of Bordeaux

- Dr Takuro Yoshimoto, First Secretary, Science Attaché, Embassy of Japan in France

- Pr Toshiyuki Takagi, Director of Japan Society for the Promotion of Science (JSPS) Strasbourg Office

9:15-10:45: Session 1: Decoding I

- Dr Hiroko Shimada, Keio University, Japan

Astrocyte-enriched cortical organoids for studying human brain development, synaptogenesis, and neural circuit formation

- Dr Jean-Baptiste Sibarita, IINS, CNRS, Bordeaux, France

Multiscale imaging of 3D neural models from functional dynamics to nanoscale protein organization using single-objective light-sheet microscopy

- Pr Kenichi Ohki, the University of Tokyo, Japan

Encoding and Decoding Visual Stimuli Using Neuronal Population Activity in the Visual Cortex

10:45-11:00: Coffee break

11:00-12:30: Session 2: Encoding I

- Pr Hiroaki Wake, Nagoya University, Japan

Holographic manipulation of neuronal circuits

- Pr Cyril Herry, Neurocentre Magendie, INSERM, Bordeaux, France

Multiscale neuronal representation of defensive behaviors

- Pr Takuya Sasaki, Tohoku University, Japan

Vagal interoception in cognition and homeostasis

12:30-12:45: Photo

12:45-14:15: Poster Session, Lunch

14:15-15:45: Session 3: Compiling I

- Pr Hideaki Yamamoto, Tohoku University, Japan

Reservoir computing approaches to compiling target dynamics into in-vitro neural networks

- Pr Timothée Levi, IMS, University of Bordeaux, France

Real-time spiking neural network for designing a neuromorphic twin

- Dr Sayaka Deguchi, Institute of Science Tokyo, Japan

Generation of an enteric neuron-integrated gut-on-a-chip for viral infections

15:45-16:00: Coffee break

16:00-17:00: Program presentations by French and Japanese agencies

- JSPS, JST, U Bordeaux

17:00-17:15: Closing day remarks

November 5th

9:00–10:30: Session 4: Decoding II

- Dr Kenji Yamaguchi, Kyoto University, Japan

Generating tactile perceptual qualities and investigating their underlying neural mechanisms using novel haptic technology

- Pr Guilhem Larrieu, LAAS, CNRS, Toulouse, France

Nanoelectrode array platforms for high-resolution recording and stimulation of in vitro neural models

- Pr Hiroko Bannai, Waseda University, Japan

Synaptic molecular dynamics controlled by membrane fluidity -From neurophysiology to neurodegeneration

10:30–10:45: Coffee break

10:45–11:45: Session 4: Decoding III

- Pr Christophe Mulle, IINS, CNRS, University of Bordeaux, France

Presynaptic plasticity in hippocampal circuits

- Dr Naoya Takahashi, IINS, CNRS, Bordeaux, France

Sensing the world through whiskers: Neural mechanisms of touch

11:45–13:30: Poster Session, Lunch

13:30–15:00: Session 5: Encoding II

- Pr Yutaka Hirata, Chubu University, Japan

Neural encoding of motor rhythm within and beyond the cerebellum

- Dr Fabien Wagner, IMN, CNRS, Bordeaux, France

Neurostimulation of motor and cognitive networks

- Pr Masaki Tanaka, Hokkaido University, Japan

A cerebellar internal model for rhythm perception

15:00–15:15: Coffee break

15:15–16:45: Session 6: Compiling II

- Pr Vincent Studer, IINS, CNRS, Bordeaux, France

Modular human brain organoid networks as a platform for synthetic biological intelligence

- Pr Yoshiho Ikeuchi, IIS, the University of Tokyo, Japan

Network architecture drives functional diversification among connected cerebral organoids

- Dr Florian Kolbl, IMS, INP Bordeaux, France

From neural synchronisation to closed-looping control: perspectives on central nervous system stimulation

16:45–17:30: Translational advances in neuroscience, neurotechnologies and ethics

- Pr Eric Fournier, Catholic Institute of Lille, France

How can ethics be repositioned from a perceived constraint on high stake innovation into a practical design objective in neurotechnology?

17:30–17:45: Concluding remarks

- Ms. Shihoko Hasegawa, Director of Japan Science and Technology (JST) Paris Office