



INTERNATIONAL CONFERENCE FOR NEURONS AND BRAIN DISEASE

SEPTEMBER 9-11, 2025

European Doctoral School, Strasbourg, France

SEPTEMBER 9TH

8:45am - Welcoming message

9:00am - Talk session Chaired by Prof. Bong-Kiun Kaang

- **9:00-9:20am:** Prof. Marc Landry (University of Bordeaux, France): Anti-nociceptive effects of the relaxin-3/RXFP3 peptidergic system
- **9:20-9:40am:** Dr. Ipek Yalcin (CNRS, University of Strasbourg, France): Deciphering circuitry of chronic pain induced depression
- **9:40-10:00am:** Prof. Yves De Koninck (Laval University, Canada): Single cell optogenetics to decipher the mechanism of failure of inhibition in chronic pain induced depression
- **10:00-10:20am:** Prof. Uhtaek Oh (Korea Institute of Science and Technology, South Korea): Tentonins for mechanical pain.

10:20am - coffee break and pastries

10:50am - Talk session Chaired by Prof. Gleb Shumyatsky

- **10:50-11:10am:** Prof. Michel Barrot (CNRS, France): The tail of the ventral tegmental area in helplessness and other behaviors
- **11:10-11:30am:** Prof. Satoshi Kida (University of Tokyo, Japan): Hippocampal representation of fear memory extinction
- **11:30-11:50am:** Prof. Shuang Qiu (Zhejiang University, China): A distinct dmPFC ensemble discriminates safety signals from threats
- **11:50-12:10am:** Prof. Bong-Kiun Kaang (Institute for Basic Science, South Korea): Protein synthesis-dependent engram synapse.
- **12:10-12:30am:** Prof. Vadim Bolshakov (Harvard University, USA): PACAP/CRF-mediated control of fear circuits in the brain

12:30am - lunch

2:00pm - Talk session Chaired by Prof. Yves De Koninck

- **2:00-2:20pm:** Prof. Mike Salter (Sickkids, University of Toronto, Canada): GluN1 N1 cassette: a master regulator of NMDAR function
- **2:20-2:40pm:** Prof. Yulong Li (Peking University, China): Spying on neuromodulator dynamics in vivo by constructing multi-color GRAB sensors
- **2:40-3:00pm:** Prof. Marie-Eve Paquet (Laval University, Canada): Expanding the AAV toolbox through environmental diversity

3:00pm - coffee break and pastries

3:30 - Datablitz session Chaired by Prof. Mike Salter

- Marina Hernan Godoy (University of Strasbourg, France): Neurodevelopmental epigenetic alterations prime cortical neurons to dysfunction and degeneration in ALS mouse models
- Aurélien Diebold (CRBS, University of Strasbourg, France): Molecular assessment of the developmental "GABA switch" in the cerebral cortex of the Fus-NIs/+ mouse model of ALS
- Isabelle Weber (University of Strasbourg, France): Exploring the impact of NUP50 loss on nuclear pore complex integrity and the structural consequences of ALS-Linked
- Louise Leblanc (INCI, CNRS, University of Strasbourg, France): Unlocking Relaxin-3/RXFP3 : a novel pathway for neuropathic pain relief and mood stabilization
- Dr. Ileana Fuentes (University of Guadalajara, Mexico): The gastrin-releasing peptide as a modulator of dopamine release and dopamine-related gene expression in the amygdala during stress-enhanced fear learning and extinction



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SEPTEMBER 10TH

9:00am – Talk session Chaired by Prof. Marc Landry

- **9:00–9:20am:** Prof. Kaoru Inokuchi (University of Toyama, Japan): The idling brain: from memory to cognition
- **9:20–9:40am:** Prof. Thomas Nevian (University of Bern, Switzerland): Aversive processing and learning in the anterior cingulate cortex
- **9:40–10:00am:** Prof. Yu Zhou (University of Health and Rehabilitation Sciences, China): Microglial regulation of memory linking and PTSD-related memory linking deficits
- **10:00–10:20am:** Prof. Gleb Shumyatsky (Rutgers University, USA): Neuropeptide regulation of dopamine function in VTA-BLA circuit during stress-enhanced fear learning and extinction

10:20am – coffee break and pastries

10:40am – Talk session Chaired by Prof. Vadim Bolshakov

- **10:40–11:00am:** Prof. Jian-Hui Liang (Peking University, China): Breakthrough in etho-pharmacological experiments: from Skinner's operant box to Liang's contextual-stress box
- **11:00–11:20am:** Prof. Hanting Zhang (Nanchang University, China): Targeting cyclic AMP phosphodiesterases for treating Alzheimer's disease: from basic to clinic
- **11:20–11:40am:** Pr. Graham Collingridge (University of Toronto, Canada): Untangling tau: a new rat tau KO model for understanding tauopathies
- **11:40–12:00am:** Prof. Jianhua Zhang (University of Alabama at Birmingham, USA): Neurodegeneration, mechanisms and therapeutic targets

12:00am – lunch

SEPTEMBER 11TH

9:00am – Talk session Chaired by Prof. Thomas Nevian

- **9:00–9:20am:** Prof. Yong Rao (McGill University, Canada): Neurexin and neuroligin in visual circuit function and maintenance
- **9:20–9:40am:** Prof. Jianyuan Sun (Shenzhen Institutes of Advanced Technology, China): Inhibitory presynaptic modulation on synaptic transmission at the Calyx of Held synapses
- **9:40–10:00am:** Prof. Tsuyoshi Miyakawa (Fujita Health University, Japan): Repetitive neuronal activation regulates cellular maturation state vis nuclear reprogramming
- **10:00–10:20am:** Prof. Min Zhuo (University of Toronto, Canada; and Forevercheer Medicine): Long-term potentiation of thalamic-cingulate synapses in freely moving mice.

10:20am – coffee break and pastries

10:50am – Talk session Chaired by Prof. Kaoru Inokuchi

- **10:50–11:10am:** Prof. Xiangyao Li (Zhejiang University, China): TRPC4 is a critical factor for the neuronal modulation of transcranial-focused ultrasound
- **11:10–11:30am:** Prof. Aimin Bao (Zhejiang University, China): Sexual dimorphic accumulation and propagation of p-Tau in tauopathies: a role for estrogen receptor- α ?
- **11:30–11:50am:** Prof. Philippe Monnier (Krembil Research Institute, Canada): SKI-1 inhibition restores BBB integrity and restores functional stroke
- **11:50–12:10am:** Prof. Dongmin Yin (East China Normal University, China): Acetylation of CaMKII α by aspirin confers neuroprotection against ischemic stroke in mice

12:00am – lunch

2:00pm – closing message