Virtual Conference on Emerging Perspectives in Clinical Brain Research

15-16 October 2020

Registration (possible until Wed, October 14):

Hertie Institute for Clinical Brain Research (HIH)
Otfried-Müller-Str. 27
72076 Tübingen
Germany

Updated: 14. October 2020
Thursday, October 15 (all times refer to CEST)

09:45 - 10:00 Welcome to the Conference
Holger Lerche (HIH)

SESSION 1: Molecular and Cellular Diagnosis and Therapy

10:00 - 10:05 Welcome to Session 1
Hosts: Holger Lerche & Ulrike Naumann (HIH)

10:05 - 10:45 Keynote Talk
Nathalie Cartier-Lacave (Institut du Cerveau, Paris)
Impaired brain cholesterol metabolism: A therapeutic target for neurodegenerative diseases

10:50 - 11:15 Michael Heide (Max Planck Institute of Molecular Cell Biology and Genetics MPI-CPG, Dresden)
Neocortex expansion in human development and evolution and its malformations

11:20 - 11:45 Andreas Lieb (Medical University Innsbruck)
Designer receptor gene therapy targeting focal epilepsy (and beyond)

12:00 - 12:25 Gaia Colasante (San Raffaele Hospital, Milan)
Towards targeted therapy for the treatment of Dravet Syndrome

12:30 - 12:55 Marco Peviani (University of Pavia)
Towards development of theranostic platforms to investigate and modulate neuroinflammation in Amyotrophic Lateral Sclerosis

13:00 - 13:30 Discussion: Live Q&A with Session 1 speakers

www.hih-tuebingen.de
Thursday, October 15 (all times refer to CEST)

SESSION 2: Neuroprosthetics and Innovative Neurotechnologies

14:00 - 14:05 Welcome to Session 2
Hosts: Hans-Peter Thier & Ulf Ziemann (HIH)

14:05 - 14:45 Keynote Talk
John Donoghue (Brown University, Providence)
Brain Computer Interfaces for ACTION:
Accomplishments and Challenges Ahead

14:50 - 15:15 Nir Grossman (Imperial College, London)
Noninvasive deep brain stimulation via temporally interfering electric fields

15:20 - 15:45 Emiliano Ronzitti (Sorbonne University, Paris)
Light shaping for interrogating neuronal circuits

16:00 - 16:25 Marco Capogrosso (University of Pittsburgh)
Spinal cord stimulation for the recovery of reaching and grasping after paralysis

16:30 - 17:10 Sliman Bensmaia (University of Chicago)
Biological and bionic hands: Natural neural coding & artificial perception

17:15 - 17:45 Discussion: Live Q&A with Session 2 speakers

NETWORKING LOUNGE

17:45 - 18:30 Get Together in Zoom Sessions
Friday, October 16 (all times refer to CEST)

SESSION 3: Data Science in Clinical Brain Research

09:00 - 09:05 Welcome to Session 3
Hosts: Martin Giese & Ghazaleh Tabatabai (HIH)

09:05 - 09:45 Keynote Talk
Jakob Macke (University of Tübingen & Max Planck Institute for Intelligent Systems)
Machine learning for neuroscientific insight

09:50 - 10:30 Keynote Talk
Sach Mukherjee (German Center for Neurodegenerative Diseases, DZNE, Bonn)
Machine learning challenges in next-generation biomedicine

10:35 - 11:00 Catherine Jutzeler (ETH Zürich)
Pharmacological management after spinal cord injury: An opportunity for drug repurposing

11:15 - 11:40 Dmitry Kobak (University of Tübingen)
Statistical analysis of transcriptomic and multi-omic neural data

11:45 - 12:10 Vittorio Caggiano (Facebook AI Research, New York)
Movement representations to characterize Parkinson’s Disease states

12:15 - 12:45 Discussion: Live Q&A with Session 3 speakers

12:45 - 13:00 Closing Remarks & Summary
Holger Lerche (HIH)