

January 19, 2022

The 7th CiNet Conference: New horizons in brain mapping  
February 1 – 3, 2022 (Online Conference)  
Program (subject to change) :

Time zone: Japan Standard Time (UTC + 9h)

Day 1: February 1

9:00 Opening: Toshio Yanagida, Center Director, CiNet

9:05 Event outline: Hiromasa Takemura, Conference Chair

Session 1: Sensation and Perception

Chair: Yuki Murai (Osaka University/University of California, Berkeley)

9:10 Shinji Nishimoto, Osaka University/NICT, CiNet

*"Mapping sensory, cross-modal, and cognitive representations in the human brain"*

9:50 Jonathan Winawer, New York University

*"Integrating functional MRI and electrocorticography in the study of the human visual system"*

10:30 David Leopold, National Institutes of Health

*"Single-unit fMRI mapping: new perspectives on brain organization"*

11:10 Poster Flash Session

11:22 Poster & Interactive Session (Zoom breakout room)

12:20 Break

Session 2: Microstructure

Chair: Masaki Fukunaga (National Institute for Physiological Sciences)

16:00 Chantal Tax, Univ. Medical Center, Utrecht/CUBRIC

*"Increasing the acquisition space and dimensionality in microstructural MRI: promises and pitfalls"*

16:40 Yaniv Assaf, Tel Aviv University

*"Evolution of the Connectome"*

17:20 Nikolaus Weiskopf, Max Planck Institute for Human Cognitive and Brain Sciences

*"Characterizing Brain Microstructure Using Magnetic Resonance Imaging: Towards In-Vivo Histology"*

18:00 end of Day 1

Day 2: February 2

Session 3: Structural Connectivity

Chair: Taihei Ninomiya (National Institute for Physiological Sciences)

9:00 Hiromasa Takemura NICT, CiNet/ National Institute for Physiological Sciences

*“Neuroimaging approach for understanding visual streams”*

9:40 Sarah Helibrone, University of Minnesota

*“How and why should we build a wiring diagram of the brain?”*

10:20 Farran Briggs, University of Rochester

*“Corticogeniculate circuits in the visual system”*

11:00 Poster Flash Session

11:12 Poster & Interactive Session (Zoom breakout room)

12:10 Break

Session 4: Receptor and Neurotransmission

Chair: Maiko Uesaki (NICT, CiNet)

16:00 Nicola Palomero-Gallagher, Jülich Research Centre

*“Receptor expression in the human and macaque monkey brain: different but comparable”*

16:40 Holly Bridge, University of Oxford

*“Investigating the neurochemistry of human binocular vision”*

17:20 Takafumi Minamimoto, National Institutes for Quantum Science and Technology

*“Visualizing and manipulating primate brain circuits with DREADDs”*

18:00 end of Day 2

Day 3: February 3

Session 5: Evolution and Development

Chair: Tomoyo Morita (NICT, CiNet)

9:00 Nina Patzke, Health and Medical University Potsdam

*“Physical constraints on the mammalian brain evolution: viewed from marine mammals”*

9:40 Catherine Lebel, University of Calgary

- “Mapping brain development in childhood using magnetic resonance imaging”*
- 10:20 Marcello Rosa, Monash University  
*“Marmosets in visual neuroscience: why?”*
- 11:00 Poster Flash Session
- 11:10 Poster & Interactive Session (Zoom breakout room)
- 12:10 Break

Session 6: Stimulation and Intervention

Chair: Hiromasa Takemura (NICT, CiNet/National Institute for Physiological Sciences)

- 16:00 Satomi Chiken, National Institute for Physiological Sciences  
*“Mapping of the macaque brain using optogenetics and fMRI”*
- 16:40 Wim Vanduffel, KU Leuven  
*“Reversible pathway selective inactivation in the macaques: behavioral and brain-wide functional effects”*
- 17:20 Tadashi Isa, Kyoto University  
*“Dynamics of global brain networks for recovery from spinal cord injury”*
- 18:00 Closing : Junichi Nabekura, Director General, National Institute for Physiological Sciences
- 18:10 Virtual Reception (Remo)
- 20:00 end of Conference