

Program

Day 1: Monday, February 26

- 13:00 Registration
14:00 Welcome: Toshio Yanagida, Director of CiNet

<Alpha oscillations and perception>

Session 1

- 14:05-14:50 **Tony Ro (The Graduate Center, CUNY)**
Alpha oscillations: Temporal windows of visual perception
14:50-15:35 **Laura Dugué (Paris Descartes University)**
Attention explores space periodically at the theta frequency

15:35-15:55 Coffee Break

Session 2

- 15:55-16:30 **Kaoru Amano (NICT/CiNet)**
Illusory jitter perceived at the frequency of alpha oscillations
16:30-17:15 **Nir Grossman (Imperial College London)**
Noninvasive Deep Brain Stimulation via Delivery of Temporally Interfering Electric Fields

17:15-18:05 Flash Talk by Poster Presenters
18:15-20:00 Evening Session & Poster Session

Day 2: Tuesday, February 27

<Functional and anatomical connectivity>

Session 3

- 9:30- 9:55 **Hiromasa Takemura (NICT/CiNet)**
Diffusion MRI and its application to visual neuroscience
9:55-10:20 **Ai Koizumi (NICT/CiNet)**
False percept of threat emerges from excessive activity in the V1 superficial layers
10:20-11:05 **Sylvain Baillet (McGill University)**
Mechanisms and functions of interdependent neural oscillations in brain systems

11:05-12:00 Poster Session

12:00-13:00 Luncheon Seminar
by NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.

<Functional roles of neural oscillations>

Session 4

- 13:00-13:45 **Ole Jensen (University of Birmingham)**
On the role of alpha and gamma oscillations for routing and prioritizing information in the working brain
- 13:45-14:20 **Yuji Ikegaya (The University of Tokyo/CiNet)**
Hippocampal ripple oscillations induce synaptic downscaling during sleep
- 14:20-14:40 Coffee Break
- 14:40-15:15 **Shigeyoshi Fujisawa (RIKEN Brain Science Institute)**
Theta oscillations support temporal coding for event sequences in the hippocampus
- 15:15-16:00 **Andrew Heusser (Dartmouth College)**
The role of neural oscillations in the encoding and organization of sequential events
- 16:00-16:20 Coffee Break

Session 5

- 16:20-17:05 **Ayelet Landau (The Hebrew University of Jerusalem)**
Rhythmic motifs in cognition: the case of rhythmic sampling
- 17:05-17:30 **Nobuhiro Hagura (NICT/CiNet)**
Perception of tactile frequency induced by Szechuan pepper
- 17:30-18:05 **Shigeru Kitazawa (Osaka University/CiNet)**
Separation of independent sources and roles of alpha-band rhythms
- 18 : 15-20 : 00 Closed Session

Day 3 : Wednesday, February 28

<Clinical applications>

Session 6

- 10:00-10:45 **Kai Miller (Stanford University)**
Brain dynamics of the human electrocorticogram
- 10:45-11:20 **Takufumi Yanagisawa (Osaka University/CiNet)**
BMI induced plasticity modulates phantom limb pain
- 11:20-11:55 **Atsushi Nambu (National Institute for Physiological Sciences)**
Parkinson's disease as a network disorder
- 12:00-13:00 Luncheon Seminar by Panasonic Corporation

<Electrophysiological and modeling studies on neural oscillations>

Session 7

13:00-13:45 **Timo van Kerkoerle (NeuroSpin, CEA Saclay)**

Two modes of feedback in monkey visual cortex

13:45-14:30 **Markus Siegel (University of Tübingen)**

Spectral Fingerprints of Neuronal Interactions

14:30-14:50 Coffee Break

Session 8

14:50-15:25 **Kenji Mizuseki (Osaka City University)**

Temporal coordination of neuronal activity in the entorhinal-hippocampal loop

15:25-16:00 **Takuya Sasaki (The University of Tokyo, Precursory Research for Embryonic Science and Technology, Japan Science and Technology Agency)**

Hippocampal network dynamics in support of spatial working memory

16:00-16:35 **Tomoki Fukai (RIKEN Brain Science Institute)**

Information transfer during slow oscillations in cortical networks

16:35- Closing: Kaoru Amano, Meeting Chair