

**5<sup>th</sup> NIPS-CIN Joint Symposium**  
**Nov 5 (Thr)-6 (Fri), 2015**  
**Venue; Conference Room, 1F Myodaiji Bldg,**  
**NIPS, Okazaki, Japan**

Program

Talks;

Nov 5 (Thr)

- 9:00 Greetings, Keiji Imoto (NIPS) & Peter Thier (CIN)
- 9:10 1. Horst Herbert (CIN)  
The Tübingen Graduate Training Centre of Neuroscience (GTC)
- 9:40 2. Hidehiko Komatsu (NIPS)  
How do the color and luminance signals relate in the visual cortex?
- 10:10 3. Peter Thier (CIN)  
TBA
- 10:40 Coffee Break
- 11:00 4. Ayako W Ishikawa (NIPS)  
Visual experience-dependent development of fine-scale networks and synchronous firing in the rat primary visual cortex
- 11:30 5. Chih-Yang Chen (CIN)  
Layer-specific influences of microsaccadic suppression on spatial vision in primate superior colliculus
- 12:00 6. Tadashi Isa (NIPS)  
Dissecting the circuit for blindsight ; the role of pulvinar
- 12:30 Lunch
- 13:30 Flash talks for the poster session (1.5 min x 24)
- 15:00 Poster session
- 15:00 7. Klaus Scheffler (CIN)  
The potential of ultra-high fields for brain imaging
- 15:30 8. Ryo Kitada (NIPS)  
The effect of visual deprivation on brain networks underlying the recognition of face and body parts
- 16:00 9. Philipp Ehses (CIN)  
High-resolution mapping of neuronal activation in humans using balanced SSFP at 9.4T
- 16:30 Coffee Break

- 16:50 10. Hiromi Sano (NIPS)  
Physiological role of striatal projection neurons in voluntary movement.
- 17:20 11. Martin Giese (CIN)  
Neural theory for the visual recognition of goal-directed actions and the perception of causality
- 17:50 12. Yumiko Hatanaka (NIPS)  
Cortical divergent projections in mice originate from two sequentially generated, distinct populations of excitatory cortical neurons with different initial axonal outgrowth characteristics

18:30-20:30 Reception (at the Seminar room 1F)

Nov 6 (Fri)

- 9:00 13. Diljit Singh Kajal (CIN)  
Training brain activity and connectivity using brain-computer interfaces: applications in healthy subjects and stroke patients
- 9:30 14. Yukio Nishimura (NIPS)  
Causal link between mesolimbic system and motor system
- 10:00 15. Anna-Antonia Pape (CIN)  
Motor cortex activity predicts response alternation during sensorimotor decisions
- 10:30 Coffee Break
- 10:50 16. Ken-ichi Inoue (Kyoto Univ, PRI)  
Manipulation of primate neural networks by means of modified viral vectors.
- 11:20 17. Steffen Hage (CIN)  
Cognitive control mechanisms underlying vocal communication in monkeys
- 11:50 18. Akiko Miyamoto (NIPS)  
Microglia contribute to dendritic spine formation in postnatal mice somatosensory cortex
- 12:20 Closing remark (Tadashi Isa)

Posters (Presenters' name and titles)

1. Takahisa Sanada (NIPS)  
Selectivity to color combination in macaque area V4
2. Klaus Scheffler (CIN)

## Structural and functional imaging in humans at 9.4T

### 3. Takahiko Koike (NIPS)

A neural network for processing the 'onlineness' during social interaction

### 4. Motofumi Sumiya (NIPS)

Brain networks underlying the contingency effect between own actions and positive outcome in conversation: an functional MRI study

### 5. Philipp Ehses (CIN)

Functional brain imaging at 9.4T using arterial spin labeling and BOLD

### 6. Etsuko Tarusawa (NIPS)

Epigenetic regulation of lineage-dependent synaptic connectivity in the barrel cortex

### 7. Rikako Kato (NIPS)

Visuomotor neural network for compensation of V1 lesion : brain imaging study by positron emission tomography (PET) in 'blindsight' monkeys

### 8. Ziad Hafed (CIN)

Size-dependent contrast sensitivity and LFP response modulations in primate superior colliculus

### 9. Masatoshi Kasai (NIPS)

Spatial population dynamics of lateral interaction in superficial superior colliculus

### 10. Steffen Hage (CIN)

Audio-vocal interaction in the prefrontal cortex of macaque monkeys

### 11. Michiaki Suzuki (NIPS)

Neural substrates for the motivational motor outputs

### 12. Peter Thier(CIN)

TBA

### 13. Kei Eto (NIPS)

Imbalance between excitation and inhibition in the primary somatosensory cortex accelerates chronic pain

14. Horst Herbert (CIN)

The Tübingen Graduate Training Centre of Neuroscience (GTC)

15. Kaoru Isa (NIPS)

Selective optogenetic control of tectal output pathways: induction of orienting vs fear responses

16. Zenas Chao (NIPS)

Reorganization of brain networks during functional recovery from spinal cord injury.

17. Diljit Singh Kajal (CIN)

Training brain connectivity using brain-computer interfaces: applications in a visual perception task

18. Yaoki Nakao (NIPS)

Facilitation of volitional walking using transvertebral magnetic stimulation via closed-loop computer interface in individuals with severe spinal cord injury

19. Anna-Antonia Pape (CIN)

Prestimulus activity in motor cortex predicts sensorimotor decisions

20. Kengo Tsujimoto (NIPS)

Animal model of spatial neglect in macaque monkeys

21. Norihiro Takakuwa (NIPS)

Visual pathways for dopamine response to reward predictors in blindsight monkeys

22. Yoshiyuki Kubota (NIPS)

Functional effects of distinct innervation styles of pyramidal cells by fast spiking cortical interneurons

23. Satomi Chiken (NIPS)

Pallidal and cerebellar control of thalamocortical activity

24. Richard Veale (NIPS)

Functional analysis of large scale simulations of the superior colliculus