



Workshop I

Imaging of Glial Cell Activity

Wednesday, July 3, 2013, 9:00 – 13:00

Organized by

Hajime Hirase (RIKEN Brain Science Institute, Wako, Japan) and
Frank Kirchhoff (University of Saarland, Homburg, Germany)

- 9:00 – 9:10 **Frank Kirchhoff**
University of Saarland, Homburg, Germany
Introduction
- 9:10 – 9:45 **Yuji Ikegaya**
University of Tokyo, Tokyo, Japan
Functional imaging of neuro-glio-vascular network activity
- 9:45 – 10:20 **Hajime Hirase**
RIKEN Brain Science Institute, Wako, Japan
Astrocytic Ca²⁺ surges, gamma oscillations, and synaptic plasticity
- 10:20 – 10:55 **Amit Agarwal**
Johns Hopkins School of Medicine, Baltimore, USA
Imaging Ca²⁺ transients in astrocyte microdomains using the genetically encoded indicator GCaMP3
- 10:55 – 11:10 **Coffee Break**
- 11:10 – 11:45 **Ko Matsui**
National Institute for Physiological Sciences, Okazaki, Japan
Optogenetic control of glial cell activity
- 11:45 – 12:20 **Franck Debarbieux**
Université de la Méditerranée, Marseille, France
Influence of blood supply on glioblastoma progression: a two photon imaging study
- 12:20 – 12:55 **Valentin Nägerl**
Université Bordeaux Segalen
Dual-color superresolution imaging of synapses and glia cells in living brain slices using STED microscopy