# Voltage Imaging Mini Symposium at OIST

All talks are 30 minutes plus 10 minutes discussion in C209, Central Building.

## Friday, October 19

9:40-10:20 Claudia Cecchetto (OIST)

**High-resolution electrical imaging of local field potentials across the rat barrel cortex in vivo**

10:20-10:40 Coffee break

10:40-11:20 Dejan Zecevic (Yale):

**Contribution of individual synapses on dendritic spines to electrical signaling in single neurons**

11:20-12:00 Sachiko Tsuda (Saitama University):

**Development of the functional circuitry in the cerebellum: voltage imaging in zebrafish**

12:00-13:30 Lunch break

13:30-14:10 Yuki Bando (Hamamatsu University):

**Simultaneous two-photon imaging of action potentials and subthreshold potentials in vivo**

14:10-14:50 Chris Roome (OIST):

**Simultaneous spatio-temporal dendritic voltage/calcium mapping**

**and somatic recording from Purkinje neurons in awake mice**

## Saturday, October 20

9:00-9:40 Kenji Doya (OIST):

**Imaging the neural circuit for mental simulation**

9:40-10:20 Larry Cohen (Yale, KIST):

**What does the olfactory bulb contribute to odor perception:**
**the input-output transformation**

10:20-10:40 Coffee break

10:40-11:20 Takashi Tominaga (Tokushima Bunri University)

**Voltage-sensitive dye imaging: practical application to evaluate hippocampal and related cortical activities in health and disease**

11:20-11:50 Ryuichi Nakajima (SPEC corporation)

**Mapping of excitatory and inhibitory postsynaptic potentials of neuronal populations in hippocampal slices using the GEVI, ArcLight**

## Sunday, October 21

9:00-9:40 Bradley Baker (KIST):

**Ripples, knockouts, and internal membrane potentials**
**- visualizing neuronal activity with genetically encoded voltage indicators**

9:40-10:20 Yuki Sudo (Okayama University):

**Optical control of biological activities by microbial rhodopsins**

10:20-10:40 Coffee break

10:40-11:20 Srdjan Antic (University of Connecticut):

**Voltage imaging in cortical pyramidal neurons**

**with and without single action potential resolution**