

WAITT ADVANCED BIOPHOTONICS CENTER

FOURTH ANNUAL SYMPOSIUM

UNTANGLING THE BRAIN

CELLS • NETWORKS • BEHAVIOR

INVITED SPEAKERS:

PHILIPP KELLER
HHMI, Janelia Research Campus

DAVID KLEINFELD
UCSD

ED CALLAWAY
Salk Institute

BRIAN WANDELL
Stanford University

KAREL SVOBODA
HHMI, Janelia Research Campus

DAVID FITZPATRICK
Max Planck Florida Institute

AFONSO SILVA
NIH

ORGANIZING COMMITTEE:

AXEL NIMMERJAHN
Salk Institute

MARTIN HETZER
Salk Institute

FRIDAY, MAY 6, 2016 • 9:00AM TO 6:00PM
CONRAD T. PREBYS AUDITORIUM • SALK INSTITUTE

SESSION I Chair, Martin Hetzer

9:15 AM Philipp Keller
Whole-animal Imaging with High Spatio-temporal Resolution

10:00 AM Sophie Aimon
Probing Large-scale Network Dynamics at High Speed in the Brain of Behaving Flies

10:15 AM J. Tiago Goncalves
In vivo 2-photon Ca^{2+} Imaging of Multiple Hippocampal Subfields

10:30 AM **COFFEE BREAK**

11:00 AM David Kleinfeld
Vasomotion as the Biophysical Basis for Resting State Functional Connectivity Across Cortex

11:45 AM Edward Callaway
Imaging Structure and Function in the Mammalian Visual System

SESSION II Chair, Axel Nimmerjahn

2:00 PM Brian Wandell
Computational Neuroimaging: Quantifying Brain Tissue and Modeling Activity in the Living Human Brain

2:45 PM Anirvan S. Nandy
Optogenetically Induced Low-frequency Correlations Impair Perception

3:00 PM Takeo Katsuki
Flyception: Brain Activity Monitoring System for Freely Walking Fruit Flies

3:15 PM **COFFEE BREAK**

3:45 PM Karel Svoboda
Mesoscale Imaging of Neural Coding During Behavior

4:30 PM David Fitzpatrick
Visualizing the Cellular and Synaptic Architecture for Orientation Selectivity in Visual Cortex

5:15 PM Afonso Silva
Generation of Transgenic Marmosets Expressing Genetically Encoded Calcium Indicators

6:00 PM **RECEPTION**

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Poster design by Jamie Simon, after Ex Machina. The Cerebral Gordian Knot.

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