

Full Schedule

Sunday March 30th

3:00 pm Check-in

6:00 pm Reception

7:00 pm Dinner

8:00 pm Refreshments available at Bob's Pub

Spring 2008 Janelia Conference: Dendrites: Development & Plasticity

Monday March 31st

8:00 am Breakfast

9:00 am Session I

9:00 am **Lily Jan**, University of California, San Francisco
Dendritic potassium channels

9:30 am **Dax Hoffman**, National Institutes of Health
Activity dependent Kv4.2 trafficking: effects on synaptic plasticity and intrinsic excitability

10:00 am **Oswald Steward**, University of California, Irvine
Localization and local translation of mRNA at synaptic sites on dendrites

10:30 am Break and Group Photo

11:00 am Session II

11:00 am **Roger Nicoll**, University of California, San Francisco
How does a spine control its glutamate receptors?

11:30 am **Christopher Harvey**, Janelia Farm Research Campus/HHMI
Crosstalk between nearby synapses on hippocampal pyramidal dendrites

12:00 pm **Larry F. Abbott**, Columbia University College of Physicians & Surgeons
Multi-timescale synaptic plasticity in models of memory

12:30 pm Lunch

1:00 pm Tour (optional)

2:00 pm Session III

2:00 pm **Daniel Johnston**, University of Texas at Austin
Bi-directional changes in dendritic excitability accompanying LTP and LTD in hippocampal CA1 pyramidal neurons

2:30 pm **James S. Trimmer**, University of California, Davis
Potassium channel phosphorylation: Providing dynamic variability to a diverse family of ion channels

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- 3:00 pm **Jeff Magee**, Janelia Farm Research Campus/HHMI
Input feature storage through compartmentalized dendritic plasticity in CA1 pyramidal neurons
- 3:30 pm Break
- 4:00 pm Session IV**
- 4:00 pm **Don B. Arnold**, University of Southern California
Molecular mechanisms underlying targeting of proteins to and within dendrites
- 4:30 pm **Rafael M. Yuste**, Columbia University/HHMI
On the electrical function of dendritic spines
- 5:00 pm **Bartlett W. Mel**, University of Southern California
Some new (and surprising) roles for NMDA channels in single neuron computation
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Poster Session and Reception

Spring 2008 Janelia Conference: Dendrites: Development & Plasticity

Tuesday April 1st

8:00 am Breakfast

9:00 am Session V

9:00 am **Azad Bonni**, Harvard Medical School
Cell-intrinsic regulation of neuronal connectivity

9:30 am **Dmitri Chklovskii**, Janelia Farm Research Campus/HHMI
What determines the shape of neuronal arbors?

10:00 am **Morgan Sheng**, Picower Institute for Learning and Memory, MIT/HHMI
Activity-dependent regulation of synapses and dendritic spines by phosphorylation of postsynaptic density proteins

10:30 am Break

11:00 am Session VI

11:00 am **Thomas Nevian**, University of Berne
Patch clamp recordings from fine dendrites of layer 5 pyramidal neurons

11:30 am **Nace L. Golding**, University of Texas at Austin
Dendritic properties for submillisecond temporal coding

12:00 pm **John Rinzel**, New York University
Feedforward and temporally precise processing in dendrites of auditory brain stem neurons.

12:30 pm Lunch

2:00 pm Session VII

2:00 pm **Jackie Schiller**, Technion - Israel Institute of Technology
NMDA spikes in basal dendrites: role in long and short term

2:30 pm **John P. Adelman**, Oregon Health & Science University
SK2 channels and synaptic plasticity

3:00 pm **Kang Shen**, Stanford University
Extrinsic and intrinsic mechanisms mediate axonodendritic protein targeting

3:30 pm Break

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4:00 pm **Session VIII**

4:00 pm **Michael Hausser**, University College London
Dendritic calcium signals in cerebellar Purkinje cells in vivo

4:30 pm **Anirvan Ghosh**, University of California San Diego
Regulation of cortical dendrites and spines by calcium signaling

5:00 pm **Idan Segev**, Hebrew University
A novel multiple objective optimization framework for constraining conductance-based neuron models by experimental data

6:00 pm Reception

7:00 pm Dinner

8:00 pm Poster Session and Reception

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Wednesday April 2nd

8:00 am Breakfast

9:00 am Session VIII

9:00 am **Rachel O. Wong**, University of Washington
Inhibitory synaptogenesis onto retinal ganglion cell dendrites

9:30 am **Liqun Luo**, Stanford University/HHMI
Studying dendrite development using genetic mosaics

10:00 am **Wes Grueber**, Columbia University
Reciprocal dendrite-substrate interactions in dendrite growth and stabilization

10:30 am Break

11:00 am Session X

11:00 am **Ye Zhang**, University of California, San Francisco
Function and regulation of Golgi outposts in developing dendrites

11:30 am **Tadashi Uemura**, Kyoto University
Diverse morphologies of dendritic arbors: distinct dependency on mitochondrial fusion/fission and endosomal trafficking

12:00 pm Lunch
Take out boxes from Servery & shuttles to Dulles available

12:30 pm First shuttle to Dulles

1:15 pm Second shuttle to Dulles

2:00 pm Last shuttle to Dulles