

Full Schedule

Sunday, October 21st

3:00 pm **Check-in**

6:00 pm **Reception**

7:00 pm **Dinner**

8:00 pm **Session 1 (chair - Kevin Moses)**

8:00 pm **Oswald Steward**, University of California, Irvine
Mechanisms underlying the selective localization of Arc mRNA at active synapses

8:30 pm **James Eberwine**, University of Pennsylvania School of Medicine
Molecular Biology of the Neuronal Dendrite

9:00 pm **Robert Singer**, Albert Einstein College of Medicine
Following single mRNAs from birth to translation

9:30 pm **Erin Schuman**, California Institute of Technology/HHMI
Visualization of dendritic protein synthesis

10:00 pm **Refreshments available at Bob's pub**

Monday, October 22nd

7:30 am **Breakfast**

8:30 am **Session 2 (chair - Erin Schuman)**

8:30 am **Michael Kiebler**, Medical University of Vienna
The role of Staufen in dendritic RNP transport and dendritic spine morphogenesis

9:00 am **Nobutaka Hirokawa**, University of Tokyo
Intracellular transport of mRNA and kinesin superfamily proteins, KIFs

9:30 am **Mark F. Bear**, Massachusetts Institute of Technology/HHMI
Fragile X syndrome: A disease of synaptic protein synthesis

10:00 am **Suzanne Zukin**, Albert Einstein College of Medicine
AMPA receptor mRNA trafficking in dendrites and synaptic plasticity: dysregulation in Fragile X

10:30 am **Break and Group Photo**

11:00 am **Gary J. Bassell**, Emory University School of Medicine
Dysregulated mGluR-dependent translation of AMPA receptor and PSD-95 mRNAs in fragile x syndrome

11:30 am **Tom Jongens**, University of Pennsylvania School of Medicine
Regulation of the Drosophila Fragile X mental retardation gene by the siRNA pathway

12:00 pm **Claudia Bagni**, University of Rome
Translational control at synapses and mental retardation: new insights into the Fragile X Syndrome

12:30 pm **Lunch**

1:00 pm **Tour**

2:00 pm **Session 3 (chair - Mark F. Bear)**

2:00 pm **Daniela Zarnescu**, University of Arizona
Visualizing Fragile X Protein mediated mRNA transport and translation in Drosophila neurons

2:30 pm **Jennifer Darnell**, Rockefeller University
Crosslinking-IP identification of neuronal FMRP RNA targets

Fall 2007 Janelia Conference: Translation at the Synapse

- 3:00 pm **Justin Fallon**, Brown University
Circuit-selective presynaptic and axonal expression of FMRP in the developing and regenerating CNS
- 3:30 pm **Peter Vanderklisch**, Scripps Research Institute
Synaptic proteome changes and plasticity: insights from high throughput proteomic studies
- 4:00 pm Poster Reception**
- 6:00 pm Dinner**
- 8:00 pm Session 4 (chair - Mark F. Bear)**
- 8:00 pm **Lily Jan**, University of California, San Francisco/HHMI
Regulation of dendritic potassium channels
- 8:30 pm **Kim Huber**, UT Southwestern Medical Center, Dallas
Mechanisms of protein synthesis dependent LTD induced by activation of Gq coupled receptors
- 9:00 pm **Kristen Harris**, University of Texas at Austin
Elevation and redistribution of polyribosomes in dendritic spines following LTP
- 9:30 pm **Rachel Green**, Johns Hopkins School of Medicine/HHMI
Catalysis and communication in two active sites of the ribosome
- 10:00 pm Refreshments available at Bob's pub**

Tuesday, October 23rd

7:30 am **Breakfast**

8:30 am **Session 5 (chair - Kevin Moses)**

8:30 am **Jennifer A. Doudna**, University of California, Berkeley/HHMI
Hijacking the ribosome: Mechanisms of stress-induced protein synthesis

9:00 am **Robert Darnell**, Rockefeller University/HHMI
Synaptic RNA maps

9:30 am **Christine Holt**, University of Cambridge
How retinal axon growth cones use local translation for directional steering

10:00 am **Nahum Sonenberg**, McGill Cancer center
Translational control of learning and memory

10:30 am **Break**

11:00 am **Kelsey Martin**, University of California, Los Angeles/BRI
Local translation during synapse formation and synaptic plasticity

11:30 am **Eric Klann**, New York University
Plasticity and behavioral phenotypes in mice with mutations for translational control proteins

12:00 pm **Ray Kelleher**, Harvard Medical School
Translational control by the ERK and mTOR pathways in synaptic plasticity and memory

12:30 pm **Lunch**

2:00 pm **Session 6 (chair - Erin Schuman)**

2:00 pm **Wayne Sossin**, Université McGill
Regulating the balance between cap-dependent and IRES-dependent translation in Aplysia neurons

2:30 pm **Henri Tiedge**, SUNY Downstate Medical Center
Dendritic BCL RNA in translational control mechanisms

3:00 pm **Melissa Moore**, Brandeis University/HHMI
The exon junction complex, translation-dependent mRNA decay and synaptic function

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3:30 pm **Break**

4:00 pm **Yue Feng**, Emory University School of Medicine
Translational regulation of BDNF

4:30 pm **Michele Simonato**, Università di Ferrara
Targeting of BDNF mRNA and protein to discrete dendritic laminae by epileptogenic events

5:00 pm **Ken Kosik**, University of California, Santa Barbara
The neuronal microRNA system

5:30 pm **Reception**

6:00 pm **Dinner**

7:00 pm **Poster Reception**

Wednesday, October 24th

7:30 am **Breakfast**

8:30 am **Session 7 (chair - Mark F. Bear)**

8:30 am **Mani Ramaswami**, University of Arizona
P-body proteins present on neuronal staufen granules are required for synaptic plasticity

9:00 am **Sam Kunes**, Harvard University
A degradative pathway for synaptic release from RISC-mediated translational suppression

9:30 am **Michael E. Greenberg**, Harvard Children's Hospital
Brain-specific microRNA miR134 regulates dendritic spine development

10:00 am **Joel Richter**, University of Massachusetts Worcester Campus
Translational regulation by CPEB

10:30 am **Break**

11:00 am **David Wells**, Yale University
CPEB1-mediated mRNA translation is required for cerebellar LTD and motor coordination

11:30 am **Holly Cline**, Cold Spring Harbor Laboratory
CPEB is required for experience-dependent visual system development

12:00 pm **Eric Kandel**, Columbia University/HHMI
The regulation of local protein synthesis and the maintenance of memory storage

12:30 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