Sunday November 8th

- 3:00 pm Check-in
- 6:00 pm Reception
- 6:30 pm Dinner
- **7:30 pm Plenary Talk: Eric Kandel**, HHMI/Columbia University *Prion like mechanisms for the perpetuation of translation at the synapse*
- 8:30 pm Refreshments available at Bob's Pub

<u>Monday November 9th</u>

7:30 am	Breakfast
8:30 am	Session 1: Plasticity Chair: Mark Bear
8:30 am	Michael Sutton, University of Michigan Dendritic protein synthesis and local homeostatic control of synapse function
8:55 am	Joel D. Richter, University of Massachusetts Medical School Translational control of synaptic plasticity
9:20 am	Robert Darnell , HHMI/Rockefeller University Synaptic RNA maps
9:45 am	Hollis Cline, The Scripps Research Institute Mobility of dendritic RNP granules in optic tectal neurons in vivo
10:10 am	Break and Group Photo
10:40 am	Session 2: Translation and TOR Chair: Holly Cline
10:40 am	Oswald Steward , University of California, Irvine Live-cell imaging of the targeting of Arc mRNA to dendritic spine synapses
11:05 am	Nahum Sonenberg , McGill University Postnatal deamidation of 4E-BP2 in the brain slows the kinetics of excitatory postsynaptic transmission
11:30 am	Kimberly F. Raab-Graham , University of Texas at Austin Molecular mechanism of mTOR-mediated suppression of Kv1.1 translation in dendrites
11:55 am	Wayne S. Sossin , McGill University The role of eEF2 kinase in translational regulation during learning in Aplysia neurons
12:20 pm	Lunch
1:10 pm	Tour (optional) - meets at the registration desk

2:20 pm	Session 3: microRNA Chair: Eric Klann
2:20 pm	Mani Ramaswami, Trinity College Regulation of synaptic mRNAs in the Drosophila olfactory circuit
2:45 pm	Ray Kelleher , Harvard Medical School Translational repression by MicroRNAs in neural development, synaptic plasticity and neuronal survival
3:10 pm	Peter Vanderklish , Scripps Research Institute Widespread and differential control of microRNA biogenesis by a cold- inducible and circadian-regulated mRNA-binding protein
3:35 pm	Rachel Green, HHMI/Johns Hopkins University School of Medicine Allosteric regulation of Argonaute proteins by small RNAs
4:00 pm	Break
4:30 pm	Discussion 1: Is translational control a mechanism for plasticity? Lead by: Mark Bear, Holly Kline and Eric Klann
5:30 pm	Poster Reception 1
7:00 pm	Dinner
8:00 pm	Plenary Talk: Erin Schuman , HHMI/California Institute of Technology Visualizing and identifying newly synthesized proteins
9:00 pm	Refreshments available at Bob's Pub

Tuesday November 10th

7:30 am	Breakfast
8:30 am	Session 4: mRNA localization Chair: Erin Schuman
8:30 am	Eric Klann , New York University Plasticity and behavioral abnormalities in mice with excessive translation initiation
8:55 am	Michael A. Kiebler, Medical University of Vienna Neuronal RNA granules and their role in dendritic RNA localization
9:20 am	Kelsey Martin, University of California, Los Angeles Synapse and stimulus-specific local translation during neuronal plasticity
9:45 am	Robert H. Singer , Albert Einstein College of Medicine Stimulus dependent β -actin mRNA localization and translation
10:10 am	Break
10:40 am	Session 5: Fragile X and Autism I Chair: Joel Richter
10:40 am	Stephen T. Warren , Emory University School of Medicine Molecular mechanisms of Fragile X Syndrome
11:05 am	Justin R. Fallon, Brown University Fxgs: The presynaptic side of the fragile X system
11:30 am	Jennifer C. Darnell , Rockefeller University HITS-CLIP identifies specific neuronal mRNA targets of the Fragile X Mental Retardation Protein, FMRP
11:55 am	R. Suzanne Zukin , Albert Einstein College of Medicine Dysregulation of AMPA receptor mRNA targeting to dendrites in Fragile X Syndrome
12:20 pm	Lunch
2:00 pm	Session 6: Fragile X and Autism II Chair: Steve Warren
2:00 pm	Claudia Bagni , Catholic University of Leuven Medical School Developmental control of FMRP-regulated mRNA translation at synapses

2:25 pm	Kim Huber , UT Southwestern Medical Center, Dallas Mechanisms of translational regulation during hippocampal long-term synaptic depression
2:50 pm	Gary J. Bassell, Emory University School of Medicine Reversible inhibition of PSD-95 mRNA translation at synapses by miR-125a and FMRP
3:15 pm	Michel J. Simonneau , INSERM U675 Dendritic trafficking and local translation impairment in psychiatric diseases
3:40 pm	Break
4:00 pm	Discussion 2: Is Fragile X a disease of dendritic translation? Lead by: Erin Schuman, Joel Richter and Steve Warren
4:00 pm 5:00 pm	
	Lead by: Erin Schuman, Joel Richter and Steve Warren
5:00 pm	Lead by: Erin Schuman, Joel Richter and Steve Warren Poster Reception 2

Wednesday November 11th

7:30 am	Breakfast
8:55 am	Session 7: Development, Fear and Tools Chair: Kevin Moses
8:55 am	Linnaea E. Ostroff , New York University Bidirectional changes in amygdala synapse size and local protein synthesis with fear or safety learning
9:20 am	Andrew Woolley, University of Toronto Optical tools for manipulating translation
9:45 am	Melissa Moore, HHMI/University of Massachusetts Medical School A reputation in need of repair: The 80S monosome
10:10 am	Break
10:30 am	Plenary Talk: Mark F. Bear , HHMI/Massachusetts Institute of Technology <i>Fragile X: Translation in action</i>
11:30 am	Discussion 3: Is this really how memory works? Lead by: Eric Kandel
12:30 pm	Lunch (To-go boxes available from servery for those on first shuttle) and Departure
1:00 pm 1:45 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles