Sunday, May 31

3:00 pm Check-in

6:00 pm Reception *(Lobby)*

7:00 pm Dinner

8:00 pm Science Speed Dating! *(Lobby)*

NOTE:
Meals are in the **Dining Room**
Talks are in the **Seminar Room**
Posters are in the **Lobby**

Monday, June 1

7:30 am Breakfast *(service ends at 8:45am)*

9:00 am **Session 1: Mitochondrial Trafficking/Regulation**
Chair: Kang Shen

9:00 am **Peter Hollenbeck**, Purdue University
The transport, turnover and life cycle of neuronal mitochondria, in sickness and in health

9:25 am **Thomas L. Schwarz**, Harvard Medical School
Regulating the movement and clearance of neuronal mitochondria

9:50 am **Franck Polleux**, Columbia University
SIgnaling pathways underlying axon morphegenesis through regulation of presynaptic mitochondria anchoring and function

10:15 am **Zu-Hang Sheng**, National Institute of Neurological Disorders and Stroke, NIH
Mechanisms regulating mitochondrial trafficking and anchoring

10:40 am Break

11:00 am **Session 2: Neuronal Cytoskeleton**
Chair: Anthony Brown

11:00 am **Don B. Arnold**, University of Southern California
Structure and function of an actin/myosin-dependent vesicle filter

11:25 am **Subhojit Roy**, University of California San Diego
A novel axonal F-actin network involved in synaptic homeostasis

11:50 pm **Kang Shen**, HHMI/Stanford School of Medicine
Microtubule organization and motor control in C. elegans

12:15 pm **Christophe Leterrier** UMR7286-CNRS-Aix-Marseille Université
Nanoscale architecture of the axon initial segment reveals an organized and robust scaffold

12:27 pm Lunch *(service ends at 1:15pm)*

2:00 pm **Session 3: Motor Protein Regulation I**
Chair: Erika Holzbaur

2:00 pm **Steven Gross**, University of California, Irvine
CK2: A new kinesin regulatory pathway

2:25 pm **Yasushi Okada**, RIKEN
Dissecting kinesin regulation through single molecule in cellulo measurements

2:50 pm **Bianxiao Cui**, Stanford University
Tracking vesicle transport in axons – coordination of opposite polarity motors during unidirectional transport

3:15 pm **Maria Ioannou**, McGill University
Prenylation is not required for the trafficking of Rab13 on vesicles

3:27 pm Break

4:00 pm **Session 4: Motor Protein Regulation II**
Chair: Peter Hollenbeck

4:00 pm **Casper Hoogenraad**, Utrecht University
Neuronal traffic control - Microtubule organization and motor activity

4:25 pm **Gary Banker**, Oregon Health & Science University
Investigating kinesin-mediated vesicle transport in cultured hippocampal neurons

4:50 pm **Shinsuke Niwa**, Tohoku University
A small GTPase ARL-8 regulates synapse formation by unlocking the autoinhibition of the axonal transport kinesin UNC-104/KIF1A

5:02 pm **Alex Nechiporuk**, Oregon Health & Science University
Actr10 regulates retrograde transport of mitochondria in axons

5:14 pm Poster Blitz! *(5 minutes / 3 slides each)*

Varuzhan Balasanyan, University of Southern California
Ewa Bomba, University of Wisconsin
Andrés Couve, Universidad de Chile
David Ye, Harvard Medical School

5:35 pm Poster Reception

7:00 pm Dinner

8:15 pm Refreshments available at Bob's Pub

Tuesday, June 2

7:30 am Breakfast *(service ends at 8:45am)*

9:00 am **Session 5: Dyneins / Retrograde Transport / Endosomes**
Chair: Thomas Schwarz

9:00 am **Bettina Winckler**, University of Virginia School of Medicine
Uncovering neuronal endosome dynamics by live imaging

9:25 am **Erika Holzbaur**, University of Pennsylvania
Axonal transport of autophagosomes: Organelle dynamics regulate function

9:50 am **Iva Tolic**, Ruder Boskovic Institute
Dyneins on microtubules caught in the act

10:15 am **Anthony P. Barnes**, Oregon Health and Science Univ
The contribution of Rab7 in brain patterning

10:27 am **Avital A. Rodal**, Brandeis University
Drosophila as a model for neuronal endosomal traffic in development and disease

10:39 am Break

11:10 am **Session 6: Slow Axonal Transport**
Chair: Subhojit Roy

11:10 am A historical perspective of slow axonal transport (Subhojit Roy)

11:15 am **Anthony Brown**, Ohio State University
Regulation of neurofilament transport by a dynamic cycle of polymer severing and annealing

11:40 am **Peter W. Baas**, Drexel University College of Medicine
Microtubule transport in the axon – New frontiers

12:05 pm **Alison Twelvetrees,** University of Pennsylvania School of Medicine
A molecular mechanism for the anterograde transport of dynein in the axon

12:17 pm **Archan Ganguly**, University of California San Diego
Slow axonal transport of clathrin – mechanism, proteome and ultrastructure

12:29 pm Lunch *(service ends at 1pm)*

1:15 pm Tour *(optional – meet at reception)*

2:15 pm	**Session 7: Synaptic Plasticity** **Chair: Casper Hoogenraad**
2:15 pm	**Andres Villu Maricq**, University of Utah *Engines of change: Kinesin, CamKII and the control of synaptic plasticity*
2:40 pm	**Kelsey Martin**, University of California, Los Angeles *Activity-dependent translocation of CRTC1 from synapse to nucleus*
3:05 pm	**Jason Shepherd**, University of Utah *Brains and viruses: A novel trafficking pathway required for memory*
3:17 pm	**Adam Oaks**, The George Washington University *Modulation of protein trafficking during neuronal development by Cc2d1a*
3:29 pm	**Ulises Rey**, Max Planck Institute of Colloids and Interfaces *Axonal transport of Neurexin vesicles by teams of molecular motors*
3:41 pm	Break
4:15 pm	**Session 8: Injury and Disease I** **Chair: Frank Bradke**
4:15 pm	**Scott Brady**, University of Illinois at Chicago *Kinases and fast axonal transport: Regulation and degeneration*
4:40 pm	**Nobutaka Hirokawa**, University of Tokyo *Kinesin superfamily molecular motors, KIFs and reuronal trafficking: From regulation of learning/memory and development to diseases*
5:05 pm	**Frédéric Saudou**, Grenoble Institute of Neuroscience *Huntington's disease: Huntingtin and the control of intracellular dynamics*
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Group Discussion (with beer and wine!)
9:15 pm	Refreshments available at Bob's Pub

Wednesday, June 3

7:30 am Breakfast *(service ends at 8:45am)*

9:00 am **Session 9: Injury and Disease II**
Chair: Subhojit Roy

9:00 am **Frank Bradke**, German Center for Neurodegenerative Diseases
Systemic administration of epothilone B promotes axon regeneration and functional recovery after spinal cord injury

9:25 am **Shawn M. Ferguson**, Yale University
A massive accumulation of luminal protease deficient lysosomes in axons that surround amyloid plaques is a defining feature of Alzheimer's disease

9:37 am **Karina Vargas**, Yale University
Pathological and physiological function of alpha-synuclein

9:49 am **Utpal Das**, University of California, San Diego
Visualizing the APP/BACE-1 interaction – a seminal rate-limiting event in the amyloidogenic pathway.

10:51 am Closing Discussion / Final Remarks

11:30 am Lunch and departure

12:00 pm First shuttle to Dulles
1:00 pm Second shuttle to Dulles
2:00 pm Last shuttle to Dulles