

## **MSRP 2019 Program V2 (Updated on 03/09/2019)**

### **4/11 (Thu)**

- 17:30-17:45 Opening remarks  
S1 Membrane remodeling in vesicle formation I
- 17:45-18:15 Harvey McMahon  
*Membrane Shape, Fission and Fusion*
- 18:15-18:45 Volker Haucke  
*Mechanisms of endocytic membrane remodelling*
- 18:45-19:15 Liz Miller  
*Mechanisms of coat assembly and membrane bending during ER export*
- 19:15-19:30 Yusong Guo  
*An in vitro vesicle formation assay to analyze protein sorting in the secretory transport pathway*
- 19:30-19:45 Jun Yao  
*Synaptotagmin-dependent synaptic vesicle cycling -- Secrets in secretion*
- 19:45 Dinner

### **4/12 (Fri)**

- S2 Membrane remodeling in vesicle formation II
- 08:30-09:00 Reinhard Jahn  
*SNARE-dependent targeting in endosomal trafficking*
- 09:00-09:30 Juan Bonifacino  
*Regulation of the GARP tethering complex at the TGN*
- 09:30-10:00 Tao Xu  
*Membrane dynamics during DCV maturation*
- 10:00-10:30 Tomas Kirchhausen  
*Imaging Subcellular Dynamics from Molecules to Multicellular Organisms*
- 10:30-11:00 Group photo/Coffee break
- S3 Membrane dynamics and phase separation
- 11:00-11:30 Mingjie Zhang  
*Phase separation-mediated formation of neuronal pre- and post-synaptic signaling machineries beneath plasma membranes*
- 11:30-12:00 Xueliang Zhu  
*Shaping cortical actin networks through protein phase separation*
- 12:00-12:30 Tom Shemesh  
*The tilted helix: a model for dynamin oligomerization*
- 12:30-12:45 Wenyu Wen

*Phase separation in polarity complex local condensation*

12:45 Lunch

S4 Membrane dynamics in phagocytosis

16:00-16:30 Sergio Grinstein

*Monovalent ion fluxes drive endocytic traffic*

16:30-17:00 Chonglin Yang

*Lysosome reformation in phagocytic degradation of cell corpses*

17:00-17:15 Huaqing Cai

*Proteomic Analysis of Chemoattractant-induced Signaling Dynamics*

17:15-17:45 Coffee break

S5 Membrane budding and shaping I

17:45-18:15 Robert Parton

*New insights into the structure and function of caveolae*

18:15-18:45 Misha Kozlov

*Mechanism of caveolar rosette formation*

18:45-19:00 Xiaowei Chen

*Receptor-Mediated ER Exit: Two Tails are Better than One?*

19:00 Dinner

20:00 Poster session I

**4/13 (Sat)**

S6 Membrane dynamics in contact sites

08:30-09:00 Jodi Nunnari

*Mitochondrial Behavior*

09:00-09:30 Karin Reinisch

*The function of VPS13-like proteins in membrane lipid homeostasis*

09:30-10:00 Jennifer Lippincott-Schwartz

*Imaging membrane dynamics: from lipid pipelines to transport carriers*

10:00-10:15 Remy Kusters

*Actin polymerization driving localized membrane deformation*

10:15-10:45 Coffee break

S7 Membrane fission and fusion

10:45-11:15 Natalie Elia

*Cytokinetic membrane abscission mediated by the ESCRT complex*

11:15-11:45 Leonid Chernomodik

*Fusion mediated by viral and developmental fusogens*

- 11:45-12:15 Junjie Hu  
*The machinery of mitochondrial fusion*
- 12:15-12:30 Ying Lai  
*Inhibition of airway epithelial SNARE/synaptotagmin mediated membrane fusion by hydrocarbon-stapled peptides*
- 12:30-12:45 Anbing Shi  
*EHBP-1-Dynamin axis ensures endocytic recycling via membranous tubule fission*

12:45 Lunch

- S8 Membrane dynamics in autophagy I
- 16:00-16:30 Noboru Mizushima  
*Formation and maturation of the autophagosome*
- 16:30-17:00 Hong Zhang  
*Phase separation and transition control autophagic degradation of PGL granules*
- 17:00-17:15 Lei Wang  
*A secretory pathway kinase tunes endoplasmic reticulum redox homeostasis*

17:15-17:45 Coffee break

- S9 Membrane dynamics in autophagy II
- 17:45-18:15 Eric Baehrecke  
*Vps13D regulates autophagy and mitochondrial size in animals*
- 18:15-18:45 Quan Chen  
*Molecular regulation of mitochondrial homeostasis*
- 18:45-19:00 Liang Ge  
*A Translocation Process for Unconventional Secretion*

19:00 Dinner

20:00 Poster session II

#### **4/14 (Sun)**

- S10 Membrane budding and shaping II
- 08:30-09:00 Will Prinz  
*Lipid droplet biogenesis*
- 09:00-09:30 Pedro Carvalho  
*Regulation of organelle biogenesis at the endoplasmic reticulum*
- 09:30-10:00 Li Yu  
*Migrasome, migracytosis and mitocytosis*

- 10:00-10:15 Hongyuan Yang  
*Mammalian OSBP/ORP proteins in cellular lipid trafficking and membrane dynamics*
- 10:15-10:45 Coffee break
- S11 Membrane dynamics in development
- 10:45-11:15 Tom Rapoport  
*Membrane shaping and lipid transfer by surfactant protein B domains*
- 11:15-11:45 Xiaochen Wang  
*Two myosins coordinate to control spermatid differentiation in *C. elegans**
- 11:45-12:15 Nan Tang  
*The force in lung development*
- 12:15-12:30 Luca Monticelli  
*Lipid droplet budding: insight from molecular simulations*
- 12:30-12:45 Closing remarks & poster awards
- 12:45 Lunch/Departure