

# Pennsylvania Muscle Institute Annual Symposium

## Actin Cytoskeleton – Mechanisms in Health and Disease

Sponsored by The Pennsylvania Muscle Institute  
Department of Cell and Developmental Biology  
Graduate Program in Cell Biology, Physiology, and Metabolism  
Perelman School of Medicine at the University of Pennsylvania

**December 5, 2014**

Organizers: Roberto Dominguez and Michael Way

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| 8:30 – 9:15   | Coffee, Poster Setup, and Vendor Show   |
| 9:15 – 9:25   | E. Michael Ostap, Ph.D. Director, Pennsylvania Muscle Institute<br>University of Pennsylvania, Perelman School of Medicine<br>Welcome   |
| 9:25 – 10:05  | Bruce L. Goode, Brandeis University. “ <i>Mammalian formin regulation and actin-microtubule crosstalk</i> ”   |
| 10:05 – 10:45 | Jan Faix, Ph.D., Hannover Medical School, Hannover, Germany. “ <i>Coordinating actin-based activities in the front and back of migrating cells</i> ”  |
| 10:45 – 11:00 | Coffee Break  |
| 11:00 – 11:15 | Steven Jones (Svitkina’s Lab) University of Pennsylvania. “ <i>Cytoskeletal architecture and assembly of the axon initial segment in hippocampal neurons</i> ”  |
| 11:15 – 12:00 | <b>Robert E. Davies Honorary Lecture</b><br>Denise Montell, UCSB. “ <i>Mechanical Feedback through E-Cadherin Promotes Direction Sensing during Collective Cell Migration</i> ”   |
| 12:00 – 2:00  | Lunch, Poster Session, and Vendor Show  |
| 2:00 – 2:40   | Janis K. Burkhardt, Children's Hospital of Philadelphia Perelman School of Medicine University of Pennsylvania. “ <i>F-actin flow drives affinity maturation and spatial organization of LFA-1 at the immunological synapse</i> ” |
| 2:40 – 3:15   | Giorgio Scita, University of Milan, School of Medicine, Milano Italy. “ <i>Endocytic Control of Epithelial Cell Migration</i> ”   |
| 3:15 – 3:30   | Katy Ong (DiNardo’s lab) University of Pennsylvania. “ <i>Actomyosin network dynamics in epithelial morphogenesis</i> ”   |
| 3:30 – 3:45   | Coffee Break  |
| 3:45 – 4:00   | David Kast (Dominguez Lab), University of Pennsylvania, Perelman School of Medicine. “ <i>Role of Arp2/3 complex in autophagy</i> ”   |
| 4:00 – 4:40   | Michael Way, London Research Institute. London, UK. “ <i>New levels of complexity in Arp2/3 complex function and regulation</i> ”   |

- 4:40 – 5:25     **Andrew P. Somlyo Honorary Lecture**  
Laura M. Machesky, Beatson Institute for Cancer Research, Glasgow, UK. “*Role of actin dynamics in invasion and metastasis of cancer*”
- 5:30 – 7:00     Cocktails, Poster Session, and Vendor Show
- 7:00              Speaker Dinner