

Multicellular Self-Organization Meeting

Friday, November 9, 2012

BioScience Research Collaborative Auditorium

- 8:30-9:00** Breakfast/Check-in
- 9:00-10:00** **Genetic Regulation of Multicellular Organization**
- 9:00-9:20 "Pattern formation in growing yeast colonies"
Gábor Balázsi (M.D. Anderson)
- 9:20-9:40 "Evolutionary perspectives on multicellularity"
Elizabeth Ostrowski (University of Houston)
- 9:40-10:00 "The ERK substrate network based organization of multiple signaling nodes in a single tissue during *C. elegans* germ cell development"
Swathi Arur (M.D. Anderson)
- 10:00-10:20** Coffee Break
- 10:20-11:20** **Imaging & Analysis in Physiological and Pathological Development**
- 10:20-10:40 "Imaging vascular and perivascular cellular dynamics"
Mary Dickinson (Baylor)
- 10:40-11:00 TBD
M. Waleed Gaber (Texas Children's)
- 11:00-11:20 "Cell guidance during cornea formation, innervation, and avascularity"
Peter Lwigale (Rice)
- 11:30-12:30** **Keynote Talk**
- "Using Microfluidics to Study Multi-Cell Interactions in Metastatic Cancer"
Roger Kamm (MIT)
- 12:30-1:30** Lunch
- 1:30-2:30** **Computational Systems Biology of Multicellular Patterning**
- 1:30-1:50 "Decoding self-organization mechanisms in *Myxococcus xanthus* biofilms"
Oleg Igoshin (Rice)
- 1:50-2:10 TBD
Herb Levine (Rice)
- 2:10-2:30 "Behavior patterns of endothelial cells during capillary formation"
Amina Qutub (Rice)
- 2:30-2:50** Coffee Break
- 2:50-3:50** **Function & Dynamics of Multicellular Circuits**
- 2:50-3:10 "Nanodevices for scalable interrogation of neural circuits"
Jacob Robinson (Rice)
- 3:10-3:30 TBD
Caleb Kamere (Rice)
- 3:30-4:00** Break
- 4:00-5:00** **Keck Seminar**
- "Linking Bacterial Social Behaviors and Cancer"
Eshel Ben-Jacob (Tel Aviv University)
- 5:00-5:30** Reception
- 5:30-6:30** **Round-Table Discussion**