



## AGENDA

### Computational Discovery in Complex Systems Biology

- 08:30-09:00 am** Registration and coffee/tea
- 09:00-09:10 am** Welcome & introduction
- 09:10-10:00 am** Jay Humphrey, Yale  
"Computational Model of the Biochemomechanics of Thrombus in Aneurysm Progression"
- 10:00-10:20 am** Santiago Schnell, University of Michigan  
"On sex, reward or death (in fruit flies)"
- Coffee/tea break*
- 10:40-11:30 am** Andrew McCulloch, UCSD  
"Multi-Scale Modeling of Heart Failure: From Mouse to Human"
- 11:30-11:50** Jennifer Linderman, University of Michigan  
"Narrowing the design space for drug treatment in Tuberculosis"
- 12:00-01:00 pm** *Lunch- Assembly Hall, 4th floor*
- 01:10-2:00 pm** David Odde, University of Minnesota  
"Molecular mechanics of microtubule assembly dynamics"
- 02:10-02:30 pm** Barry Grant, University of Michigan  
"Computational Discovery in Biomolecular Machines"
- Coffee/tea break*
- 02:50-03:10 pm** Danny Forger, University of Michigan  
"From a network of 10,000 neurons to a smartphone app with 125,000 users: linking scales in biological rhythms"
- 03:15-04:00 pm** Tim Elston, UNC  
"Computational models for gradient sensing and collective cell behavior"
- 04:15-04:30 pm** Summary and Discussion
- 04:30-06:00 pm** Poster Session and Reception - Assembly Hall