



Quantitative Cell Biology  
Kickoff and Fall Retreat  
Monday, November 20, 2023  
Beckman Institute 1005

8:30 a.m. | Art Mart pastries and coffee

9:00 a.m. | Susan Martinis | Vice Chancellor for Research and Innovation

9:10 a.m. | Cathy Murphy | Director Beckman Institute for Science and Technology

9:20 a.m. | Zan Luthey-Schulten | Director of the NSF STC for Quantitative Cell Biology

- Introduce mission, core, students, postdoc, staff, remote collaborators & NSF officers

9:40 a.m. | Mini talks

- Rohit Bhargava
  - Team leader for advanced optical experiments using IR tomography and optogenetics (metabolomics)
- Martin Gruebele
  - Center Co-Director | Imaging and tracking experimental efforts with MINFLUX
- Emad Tajkhorshid
  - Team leader for the atomistic simulation efforts and their interface with whole cell models
- Angad Mehta
  - Team leader for the chemical biology components of center research

10:20 a.m. | Coffee break + poster session

10:40 a.m. | Sharlene Denos | Education & Outreach

- Overview outreach activities + how to connect

11:20 a.m. | Mini talks

- Mark Anastasio
  - Computational methods for label free image analysis
- Yingjie Zhang
  - Develop IR tomography for 3-D chemical profiling of metabolites in live cells
- Stephen Boppart
  - Label-free multi-modal imaging of cell, organelle, and metabolic dynamics
- Paola Mera
  - Bacterial chromosome dynamics at the initiation steps of chromosome replication

12:00 pm | Lunch

- Seating assigned based on research interests and switch halfway through the hour.

1:00 p.m. | Adjourn