

Center for the Physics of Living Cells
Post-Doc and Graduate Student Symposium
Friday, September 7, 2012
1005 Beckman Institute
University of Illinois at Urbana-Champaign

Student Organizers: Kiran Girdhar and Tyler Earnest

12:00 – 1:00 pm **Lunch, Room 1003/Center Atrium**

Alumni Talks (#1 and #2, 45 min and 35 min total, respectively, including 5 min each for questions)

Other Talks (15 min total per person: 10 min talk + 5 min questions)

1:00 – 1:45 pm Special Alumni Talk 1: Erdal Toprak (former graduate student, Selvin lab; postdoc Kishony lab Harvard Medical School; Faculty, Sabanci University, Turkey)
"Evolution of antibiotic resistance through a multi-peaked fitness landscape"

1:45 – 2:00 pm **Jingyi Fei** (postdoc, Ha lab)
"Cellular organization of dual-functional small RNA in bacteria"

2:00 – 2:15 pm **Kevin Whitley** (grad student, Chemla lab)
"Building an energy landscape for DNA hybridization"

2:15 – 2:45 pm **Ke Chen** (grad student, Luthey-Schulten lab) & **Hajin Kim** (postdoc, Ha lab)
"Visualizing induced fit during the early stage of ribosome assembly"

2:45 – 3:15 pm **Coffee Break, Room 1003**

3:15 – 3:50 pm Special Alumni Talk 2: JC Gumbart (former postdoc, Schulten lab, Assistant Professor, GA Tech) "Engineering the bacterial cell wall"

3:50 – 4:05 pm **Jejoong Yoo** (postdoc, Aksimentiev lab)
"Polyamine-mediated sequence-dependent interactions of DNA duplexes"

4:05 – 4:20 pm **Helen Hwang** (grad student, Su-Myong lab)
"POT1-TPP1 regulates telomeric overhang structural dynamics"

4:20 – 4:35pm **Hang Yu** (grad student, Schulten lab)
"Membrane sculpting by F-BAR domains studied by molecular dynamics simulations"

4:35 – 4:50 pm **Tanya Perlova** (grad student, Gruebele & Chemla Labs)
"New powerful protein denaturants"