

**Center for the Physics of Living Cells
Graduate Student and Postdoc Symposium**

Monday April 1, 2013
1005 Beckman Institute
University of Illinois at Urbana-Champaign

Organizers: **Hyuneil Kim** (grad, Kuhlman lab) and **Lela Vukovic** (postdoc, Shulten lab)

8:45 – 9:15 am	Continental Breakfast
9:15 – 9:30 am	Hannah Deberg (grad student, Selvin lab) "Huntington's disease associated motor-domain phosphorylation of kinesin-1"
9:30 – 9:45 am	Patrick Mears (grad student, Chemla & Golding labs) "Bacterial swimming: Mapping single-flagellum activity to whole-cell behavior"
9:45 – 10:00 am	Zhe Wu (postdoc, Schulten lab) "A new hypothesis for the mechanism of synaptotagmin I in synaptic neurotransmitter release"
10:00 – 10:15 am	Cac Nguyen (postdoc, Kuhlman lab) "Growth state dependence of intracellular diffusion"
10:15 – 10:30 am	Kiran Girdhar (grad student, Gruebele & Chemla labs) "Dimensionality and behavior of Zebrafish: The Eigen Fish"
10:30 – 11:00 am	Coffee Break
11:00 – 11:15 am	Tyler Earnest (grad student, Luthey-Schulten & Dahmen labs) "The addition of a coarse-grained looping state enhances bistability in a gene expression model of Lac"
11:15 – 11:30 am	Qiucen Zhang (postdoc, Ha & Goldenfeld labs) "Loop-seq: Toward the Early Detection of Cancer Genomic Instability"
11:30 – 11:45 am	Hye Ran Koh (postdoc, Ha & Myong labs) "ATP-independent diffusion of double-stranded RNA binding proteins"
11:45 am – 12:00 pm	Chris Maffeo (grad student, Aksimentiev lab) "Towards a model of the replisome: Coarse-graining ssDNA and SSB"
12:00 – 1:00 pm	Lunch