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