Fall 2016 CPLC/Biophysics Graduate Student and Postdoc Symposium

Thursday, Oct. 27th – Interaction Room (204), Loomis Lab Student Hosts: David Fraebel, Manish Shankla, and Karl Decker

8:30 a.m. Continental Breakfast
8:50 a.m. Alexander Barclay (Rienstra group)
Structural investigation of α -synuclein fibrils from Parkinson's disease brain tissue
9:10 a.m. David Winogradoff (Aksimentiev group)
The molecular mechanism of nucleosome breathing
9:30 a.m. Tatyana Perlova (Gruebele group)
Shedding light on <i>E. coli</i> phototaxis
9:50 a.m. Coffee Break
10:00 a.m. Nick Sherer (Kuhlman group)
Modeling the effect of mutation rate landscapes on mutation rate evolution
10:20 a.m. Myung Hyun Jo (Ha group)
Ultra-sensitivity in force sensing for cell adhesion
10:40 a.m. Chi Xue (Goldenfeld group)
Even parasites have parasites: Oscillatory population dynamics of mobile genetic
elements in your genome
11:00 a.m. Coffee Break
11:10 a.m. Chang Cui (Lu group)
A designed metalloenzyme achieving the catalytic rate of a native enzyme
11:30 a.m. Stuart Rose (Crofts group)
Natural MD model of the bc1 complex for determination of gating mechanisms
11:50 a.m. Tao Jiang (Tajkhorshid group)
Characterizing the lipid permeation track and the mechanism of phospholipid
translocation in a calcium-activated scramblase
12:10 p.m. Yeoan Youn (Selvin group)
Application of small, size-equalized fluorescent quantum dots for glutamate receptor
tracking in live-neuron imaging
12:30 p.m. Voting for best speakers, lunch, and announcement of best speaker prizes