2019 Molecular Biophysics Training Program Symposium

Wednesday, May 15th, 2019

9:30AM-10:00AM	**Symposium Registration: Lobby of the Chemical, Biomolecular Engineering and Chemistry (CBEC) Building**
10:00AM-10:05AM	**Opening Remarks: CBEC 130**
	All talks will be presented in CBEC 130
10:05AM-10:20AM	**Brian Caldwell, MBTP Trainee, OSBP (Chuck Bell)** Structure and function of a DNA recombination complex from bacteriophage λ
10:20AM-10:35AM	**Vinnie Cantu, MBTP Trainee, Biophysics Graduate Program (Rafael Bruschweiler)** Preliminary analysis of K-Ras structural dynamics via NMR
10:35AM-10:50AM	**Claire Hoffman, MBTP Trainee, OSBP (Jeff Kuret)** Targeting cross-β-sheet surfaces with small molecule imaging agents
10:50AM-11:05AM	**Coffee Break: CBEC Lobby**
11:05AM-11:20AM	**Jonathan Kitzrow, MBTP Trainee, OSBP (Karin Musier-Forsyth)** Intrinsic conformational dynamics of the HIV-1 genomic RNA 5′ UTR
11:20AM-11:35AM	**Vedud Purde, OSBP (Dmitri Kudryashov)** Novel intein-based technology for highly selective targeting and elimination of cancer cells
11:35AM-11:50AM	**Joshua Johnson, Biophysics Graduate Program (Carlos Castro)** Control of DNA Origami Mechanisms and Assemblies via Gold Nanoparticles
12:00PM-1:00PM	**Lunch: Physics Research Building Atrium**
1:00PM-2:00PM	**Poster Session: Physics Research Building Atrium**
2:00PM-2:10PM	**Coffee Break: CBEC Lobby**
2:10PM-2:30PM	**Dr. Christopher Jaroniec, Department of Chemistry & Biochemistry** Molecular Mechanisms of Prion and Amyloid Propagation Explored by Solid-State NMR Spectroscopy
2:30PM-2:50PM	**Dr. James Cowan, Department of Chemistry & Biochemistry** Mechanisms of Mitochondrial Export, Trafficking and Exchange of [2Fe-2S] Clusters
2:50PM-3:50PM	**KEYNOTE SPEAKER: Dr. Dorothee Kern, Brandeis University** Evolution of catalysis and regulation over 3.5 billion years: Exploitation for novel cancer drugs
3:50PM-4:00M	**Closing Remarks**