

# Program

## Friday March 25, 2011

4:00 PM Arrival and Registration

6:00 PM Dinner

7:00 PM **Introduction**

7:10 PM **Dmitri Ivanov** (UTHSCSA) "Capsid-mediated interactions in HIV assembly and restriction"

7:45 PM **Joff Silberg** (Rice) "Ironing out strategies for designing split protein biosensors"

8:20 PM **Joshua Wand - Keynote Speaker** (U Penn School of Med) "The dark energy of proteins comes to light: A role for protein conformational entropy in protein-ligand interactions"

9:10 PM Social and Discussion

## Saturday March 26, 2011

8:00 AM Breakfast

9:00 AM **Introduction**

9:10 AM **Eileen Lafer** (UTHSCSA) "Clathrin Coated Vesicle Dynamics"

9:45 AM **Jianpeng Ma** (Baylor) "Enhanced Sampling and Protein Folding in Explicit Solvent"

10:20 Coffee Break AM

10:30 AM **Adrian Keatinge-Clay** (UT Austin) "The Unusual Substructures of Modular Polyketide Synthases"

11:05 AM **Jose Barral** (UTMB) "Mechanisms Coordinating Protein Synthesis and Folding throughout Evolution"

11:40 AM **Andrey Karamyshev** (UTSW) "Identification of novel quality control systems utilizing mutant CFTRs"

12:05 PM Lunch

3:00 PM Posters and Social

6:00 PM Dinner

7:00 PM **Introduction**

7:10 PM **Margaret Cheung** (UofH) "Protein structure, stability and folding in the cell - *in silico* biophysical approaches"

7:45 PM **Michel Bouvier** (U de Montréal) "Identification of beta-arrestin inhibitors using virtual screening and bioluminescence resonance energy transfer"

8:35 PM Social and Discussion

10:00 PM **Lillian Pettitt** Classical cello concert live from San Francisco

## **Sunday March 27, 2011**

8:00 AM Breakfast

9:00 AM **Introduction**

9:10 AM **Joshua Schipper** (NC State) "Activating Procaspase-3 by targeting the dimer interface, a novel allosteric site for the design of cancer therapeutics"

9:45 AM **Steve Lockless** (TAMU) "Signal Processing by Protein Systems"

10:20 AM Coffee Break

10:30 AM **Payel Das** (IBM) "Large-scale Molecular Simulations of Influenza and Cataract"

11:05 AM **Chuanying Chen** (UofH) "Free energy landscape of nonspecific protein-DNA encounter"

11:30 AM **Krystal Morales** (TAMU) "Pb<sup>2+</sup>-modulated membrane interactions of C2 domain from PKC $\alpha$ "

12:00 noon Lunch and Departure