2018 TEXAS PROTEIN FOLDERS & FUNCTION MEETING

PROGRAM

Friday April 13, 2018

4:00 PM	Arrival and Registration
6:00 PM	Dinner
7:30 PM	Introduction
7:35 PM	Speaker 1: Jiquiang (Lanny) Ling (UTHSC Houston) "Rewiring Protein Synthesis: from Population to Single Cells"
8:10 PM	Keynote speaker 1: Axel Brunger (Stanford University) " Molecular mechanisms of neurotransmitter release "

Saturday April 14, 2018

- 8:00 AM Breakfast
- 9:00 AM Speaker 2: Lydia Contreras (UT Austin) "Understanding in vivo function of global regulatory proteins that exert post-transcriptional control"
- 9:35 AM Short talks (12 minutes each)

9:10 PM Social, Discussion, and S'mores

- Short talk 1: Omneya Nassar (UTMB) "Discovery of a 40-year-old sequence error unveils new understanding of allosteric ligand binding to glutamate dehydrogenase"
- Short talk 2: Danielle Boss (Tulane) "Changes in protein structure and stability influence antigen presentation and priming of CD4+ T-cells"
- Short talk 3: Juan C. Gonzalez-Rivera (UT Austin) "Molecular basis of the interplay of RNA post-transcriptional modifications with the exonuclease Polynucleotide Phosphorylase (PNPase)"
- Short talk 4: Ian J. Campbell (Rice University) "Using synthetic biology to study and control ferredoxin electron transfer in cells"
- 10:35 AM Group photo then Coffee break
- 11:00 AM Speaker 3: Sun Qing (Texas A&M) "Biomolecular scaffolds for enhanced biomass processing and cancer marker detection"

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11:35 AM	Speaker 4: Tim Palzkill (Baylor College of Medicine) "Structure, Function and Evolution of the Antibiotic Resistance Enzyme NDM-1 β -lactamase"
12:10 PM	Lunch
4:30 PM	Posters and Social
6:00 PM	Dinner
7:10 PM	Speaker 5: Jason Slinker (UT Dallas) "Electrochemical DNA Devices for Biomolecule Sensing and Monitoring Biological Activity"
7:45 PM	Speaker 6: David Barondeau (Texas A&M) "Structure and Mechanism of the Human Fe-S Cluster Biosynthetic Complex"
8:20 PM	Keynote speaker 2: George Phillips (Rice University) " Time-resolved crystallography: Beyond static snapshots"
9:20 PM	Social, Discussion, and S'mores

Sunday April 15, 2018

- 8:00 AM Breakfast
- 9:10 AM Speaker 7: Sheel Dodani (UT Dallas) "Optical Imaging Tools to Elucidate the Roles of Anions in Cellular Signaling"
- 9:45 AM Short talks (12 minutes each)
- Short talk 5: **David C. Marciano** (Baylor College of Medicine) "**CRISPR-FRT: Targeting** shared sites in a knock-out collection for off-the-shelf genome editing"
- Short talk 6: Denis Odokonyero (Texas A&M) "Comparison of Alicyclobacillus acidocaldarius OSBS to its promiscuous NSAR/OSBS relatives"
- Short talk 7: Jing Zhang (UT Southwestern) "Disease is a wonky protein"
- Short talk 8: Avik Bhattacharya (Tulane) "CD4+ T-cell Epitope Prediction using Antigen Structure"

10:45 AM Coffee break

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- 11:00 AM Short talks (12 minutes each)
- Short talk 9: Asuka A Orr (Texas A&M) "Sequestration of Amyloidogenic Proteins:

 Understanding β-wrapin Function and Designing Novel β-Wrapins with Improved Binding Affinities"
- Short talk 10: Sai Vamshi R. Jonnalagadda (Texas A&M) "Computational Methods for the Design of Functional Amyloid Materials"
- 11:30 AM Speaker 8: Michael Latham (Texas Tech) "A dynamic allosteric pathway underlies Rad50 ABC ATPase function in DNA repair"
- 12:05 PM Lunch and Departure