

# **23<sup>rd</sup> Annual Texas Protein Folders and Function Meeting**



**April 10-12, 2015  
The Retreat at Artesian Lakes  
Cleveland, TX**

# 2015 TEXAS PROTEIN FOLDING & FUNCTION MEETING

## — Program —

### Friday April 10, 2015

4:00 PM Arrival and Registration

6:00 PM Dinner

7:00 PM **Introduction**

7:10 PM Speaker 1: **James Hebda** (Austin College) “**Stability and Dynamics of Alpha Crystallin Oligomers Probed by FRET and FCS Reveal Persistent Oligomerization under Dilute Conditions**”

7:45 PM Speaker 2: **Jessie Zhang** (UT Austin) “**Nature’s Imitation Game: Deciphering the Code of Eukaryotic Transcription**”

8:20 PM Keynote speaker: **Michael Rosen** (UTSW & HHMI) “**Phase Separation of Multi-Valent Signaling Proteins**”

9:20 PM Social and Discussion

### Saturday April 11, 2015

8:00 AM Breakfast

9:00 AM **Introduction**

9:10 AM Speaker 3: **Montgomery Pettitt** (UTMB) “**Protein aggregation, collapse and disorder: Model systems**”

9:45 AM Speaker 4: **Elizabeth Goldsmith** (UTSW) “**WNK kinase autophosphorylation is controlled by chloride and osmotic pressure**”

10:20 AM Speaker 5: **Chien-Hung Yu** (UTSW) “**A code within the code: codon usage affects translational dynamics to regulate protein folding**”

10:45 AM Coffee Break

# 2015 TEXAS PROTEIN FOLDING & FUNCTION MEETING

11:00 AM Selected Short talks

- Short talk 1: **Jing He** (Tulane University) “**Discovery and Characterization of Novel Peptides as Viral Entry Inhibitors in Biomembranes**”
- Short talk 2: **Yuan Yang** (TAMU) “**Dual role of the intrinsically disordered V5 domain in intra- and inter-molecular interactions of PKC $\alpha$** ”
- Short talk 3: **Jeremy Weaver** (TAMU) “**GroEL: The Ultimate Poker Player**”
- Short talk 4: **Robert C. Harris** (UTMB) “**Some Problems with the Assumptions Underlying Binding Free Energies Obtained from Implicit Solvent Methods**”

12:20 PM Lunch

3:00 PM Posters and Social

6:00 PM Dinner

7:10 PM Keynote Speaker: **Angel E. Garcia** (Rensselaer Polytechnic Institute) “**Reversible folding/unfolding of RNA tetraloops**”

8:10 PM Social and Discussion

## Sunday April 12, 2015

8:00 AM Breakfast

9:00 AM Introduction

9:10 AM Speaker 6: **Bryan Sutton** (TTUHSC) “**A Field Guide to the C2 Domains of the Ferlin Proteins**”

9:45 AM Speaker 7: **Vishal M. Gohil** (TAMU) “**Discovery and characterization of novel proteins in mitochondrial respiratory chain biogenesis**”

10:20 AM Speaker 8: **Rakez Kaye** (UTMB) “**Tau aggregation and the formation of neurotoxic oligomeric structures**”

10:45 AM Coffee Break

## 2015 TEXAS PROTEIN FOLDING & FUNCTION MEETING

11:00 AM Speaker 9: **Ricardo Bernal** (UTEP) **"Ring separation highlights the protein folding mechanism used by the phage EL encoded chaperonin"**

11:35 AM Speaker 10: **Jungsoon Lee** (Baylor College of Medicine) **" A Substrate Guided Mechanism that Facilitates Protein Disaggregation by the Hsp104 ATPase"**

12:10 PM                      Lunch and Departure

# 2015 TEXAS PROTEIN FOLDING & FUNCTION MEETING

## **Program Chairs for 2015**

Kay Choi (chair) – Steve Lockless (vice-chair)

## **TPF&F Website and Registration**

Jim Hu

## **Organizing Committee for 2015**

Jim Hu – Sarah Bondos – Kay Choi – Steve Lockless

## ***Special Thanks to the Support Help***

Tillie Rausch – Jenny Ponzio – Chantel Parenzin

## **Future Meetings:**

TBD

The cover this year depicts the *Drosophila melanogaster* protein Armadillo.

The latest information about past, present, and future meetings can always be found on our web page (unless our computer gets hacked into again):

<http://txfolders.tamu.edu>

***Many thanks to the support of those who have sponsored this meeting:***



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