

# 2014 TEXAS PROTEIN FOLDING & FUNCTION MEETING

## — Program —

### Friday April 11, 2014

4:00 PM Arrival and Registration

6:00 PM Dinner

7:00 PM **Introduction**

7:10 PM Speaker 1: **Werner Braun** (UTMB) “**Predicting the potential allergenicity of proteins by sequence and 3D motifs**”

7:45 PM Speaker 2: **Patrick Thibodeau** (U of Pittsburgh) “**Calcium-mediated folding and secretion of a virulence factor from *Pseudomonas aeruginosa***”

8:20 PM Keynote speaker: **Patricia Babbitt** (UC San Francisco) “**A Global Context for Prediction of Functional Trends in Enzyme Superfamilies**”

9:10 PM Social and Discussion

### Saturday April 12, 2014

8:00 AM Breakfast

9:00 AM **Introduction**

9:10 AM Speaker 3: **Anne Skaja Robinson** (Tulane) “**Adenosine receptor expression and biophysical characterization: Role of the lipid characteristics in trafficking and activity**”

9:45 AM Speaker 4: **Andreas Matouschek** (U of Texas) “**A second code for targeting proteins to intracellular degradation by the proteasome?**”

10:20 Coffee Break AM

10:30 AM Speaker 5: **Xuewu Zhang** (UTSW) “**Regulation and signaling mechanisms of the neuronal axon guidance receptor Plexin**”

11:05 AM (**Short talks**)

- Trainee 1: **Kelly Churion** (TAMU) “**Sequence-specific incorporation of DNA into protein-based biomaterials**”
- Trainee 2: **Kevin C. Entzminger** (U of Texas) “**De novo antibody design by**

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## **complementarity determining region modeling”**

- Trainee 3: **Andrew W. McMillan**, (TAMU) **“Role of an Active Site Loop In Evolution Of Promiscuous Enzyme Activity”**
- Trainee 4: **David C. Marciano** (Baylor College of Medicine) **“Negative Feedback in Genetic Circuits Confers Evolutionary Resilience and Capacitance”**

12:05 PM Lunch

3:00 PM Posters and Social

6:00 PM Dinner

7:00 PM **Introduction**

7:10 PM – Keynote Speaker: **Josep Rizo** (UTSW) **“Reconstituting the basic mechanism of neurotransmitter release”**

8:10 PM Social and Discussion

## **Sunday April 13, 2014**

8:00 AM Breakfast

9:00 AM **Introduction**

9:10 AM Speaker 6: **Bryan Shaw**, (Baylor) **“Drugging Z”**

9:45 AM Speaker 7: **Jae-Hyun Cho** (TAMU) **“The Dark Side of Protein Thermodynamics and Folding: Energetically Significant Networks of Coupled Interactions Within an Unfolded Protein”**

10:20 AM Coffee Break

10:30 AM Speaker 8: **Nick Grishin** (UTSW) **“ECOD: An evolutionary classification of protein domains”**

11:05 AM Speaker 9: **Chuan (River) Xiao** (UTEP) **“ The folding of an immunoglobulin-like domain affects the function of the PA receptor ”**

11:35 AM Speaker 10: **Dorene Nielsen** (DNA 2.0) **“Maximizing Recombinant Protein Expression through Systematic Gene Design”**

12:00 noon Lunch and Departure

# 2014 TEXAS PROTEIN FOLDING & FUNCTION MEETING

## **Program Co-Chairs for 2014**

John Richardson – Kay Choi

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

Jim Hu

## **Organizing Committee for 2014**

Jim Hu – Sarah Bondos – John Richardson - Kay Choi

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

Tillie Rausch – Jenny Ponzio – Chantel Plaa

## **Future Meetings:**

April 10-12, 2015

The Retreat at Artesian Lakes

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>