

Scholtz

TEXAS PROTEIN FOLDERS '98

6^M

Camp Allen
May 15-17, 1998

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6th Annual Texas Folders Program

Friday, May 15, 1998

4:00 - 7:00 PM Check-In and Refreshments

7:00 PM Dinner

Session I: Folding Kinetics and Energetics

Chair: Nick Pace

- 8:00 PM Jim Hu (Texas A&M)
"Folding and assembly specificity of mutant and wild-type leucine zippers"
- 8:20 Vince Hillser (UTMB)
"Statistical Nature of Macromolecular Equilibrium"
- 8:40 Walter Englander (U. Penn)
"How proteins fold: the intermediates and the barriers"
- 9:30 **Refreshments**
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Saturday, May 16, 1998

Session II Membrane Proteins

Chair: Barry Nall

- 9:00 AM. Mikhail Bogdonov (UT Houston)
"Phospholipids as molecular chaperones"
- 9:25 Chris Wigley (UT Southwestern)
"Integral Membrane Protein Folding: A new role for proline"
- 9:50 Jose Rizo-Rey (UT Southwestern)
"Structural determinants of Ca²⁺-regulated C₂-domain function"
- 10:15 **Refreshments**
- 10:30 Art Johnson (Texas A&M) "Transmembrane Segments of a Polytopic Membrane protein pass through the translocon of the ER Membrane Sequentially"

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11:15 John Hunt (Columbia U.) "The crystal structure of the translocation ATPase SecA"

12:00 PM **Lunch**

3:30 Posters

6:00 Dinner

Session III Computational Methods ?

Chair: Robert Fox

8:00 PM Nick Grishin (UT Southwestern) "Prediction of Protein Secondary Structure and the Structure of Ornithine Decarboxylase"

8:20 Marty Scholtz (Texas A&M) Helical Propensities in Proteins and Peptides

8:40 John Moulton (CARB)
"Eight ways out of the Levinthal Paradox"

Sunday May 17, 1998

Session IV. Protein Assisted Folding and Degradation

Chair: Tom Baldwin

9:00 AM Boyd Hardesy (UT Austin)
"The mechanism by which components of the translational apparatus mediate refolding of denatured rhodanese"

9:25 Robert O. Fox (Galveston)

9:50 Abida Taher (Tulane U.)
"Chaperonin Function and Mobile loops in GroEL"

10:15 **Break**

10:30 Wah Chiu (Baylor College of Medicine)
"The Mechanism of Bundling in Acrosomal Bundles"

11:15 George DeMartino (UT Southwestern)
"Regulatory proteins of the proteasome, a molecular machine that coordinates protein degradation with protein folding and unfolding."