



New England Structure Symposium (NESS)

Structural Perspectives on Membrane Proteins

University of Connecticut

Saturday, October 8, 2005

<http://www.sb.uconn.edu/NESS>

We are delighted to announce the second annual New England Structure Symposium (NESS). This annual symposium series will provide students, postdoctoral fellows, and established investigators a venue to share expertise on new methodologies and developments in structural biology.

Morning Session:

Chair: Anthony Watts (University of Oxford)

Richard Cogdell (University of Glasgow)

The structure and function of the purple bacterial light harvesting system

Robert Birge (University of Connecticut)

Mechanisms of wavelength selection and the unique photobiology of the ultra-violet and deep red cone pigments

Yana Reshetnyak (University of Rhode Island)

Biophysical studies of the mechanism of BRC peptide membrane insertion and design of a nanosyringe for translocation of molecules into cells

James Chou (Harvard Medical School)

Solution NMR study of phospholamban pentamer

Kalina Hristova (Johns Hopkins University)

Structural characterization of proteins in fluid bilayers: Neutron diffraction and oriented circular dichroism

Lunch and Poster Viewing Session:

Lunch is provided and extra time is allotted to view posters. All attendees are encouraged to bring a poster and participate.

Registration Information:

Advance (by September 15): \$10 student; \$25 faculty

Register at the door: add \$5

Afternoon Session:

Chair: Kathleen Battaglia (University of Pennsylvania School of Dental Medicine)

Vinzenz Unger (Yale University)

A tale about molecular warfare: Insights into the structure and function of type III secretion systems

Thomas Walz (Harvard Medical School)

Structure of the AQPO-mediated membrane junction as determined by electron crystallography

Mark Girvin (Albert Einstein College of Medicine)

Solution NMR of transporters in micelles and bicelles

Lynmarie Thompson (University of Massachusetts)

NMR studies of transmembrane signaling mechanisms in bacterial chemotaxis receptors

Charles Sanders (Vanderbilt University Medical Center)

Membrane proteins, NMR, and disease

Organizers:

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