



# SYMPOSIUM ON THE MEMBRANE BIOLOGY OF CANCER

May 6-8, 2010 ■ Pfendler Auditorium, Room 241

**Thursday**  
**May 6**  
**7-9:30**  
**p.m.**

**Fundamentals of Membrane Proteins ■ Chair: Bill Cramer**

*Fundamentals of Membrane Protein Structural Biology*

**Petra Fromme**, PhD, Professor of Chemistry and Biochemistry, Arizona State University

*The Old Man and Membrane Transport*

**H. Ronald Kaback**, MD, Professor of Physiology, UCLA

*Functions of PH Domains and Other Phospholipid/Phosphoinositide-Binding Modules*

**Mark Lemmon**, PhD, Professor of Biochemistry and Biophysics, University of Pennsylvania

**Friday**  
**May 7**  
**9 a.m.-**  
**12 p.m.**

**Receptors and Signaling ■ Chair: Carol Post**

*Structural Mechanisms in Tyrosine Kinase Signaling and Ras Activation*

**John Kuriyan**, PhD, Howard Hughes Investigator, Chancellor's Professor of Biochemistry and Molecular Biology, University of California, Berkeley

*Ras Trafficking and Compartmentalized Signaling*

**Mark Philips**, MD, Professor of Medicine, Cell Biology, and Pharmacology, New York University

*Chemokine Receptors in Cancer*

**Tracy Handel**, PhD, Professor of Pharmacy, University of California, San Diego

*Endocytosis and Membrane Remodeling in Cancer and Developmental Diseases*

**Claudio Aguilar**, PhD, Assistant Professor of Biological Sciences, Purdue University

**Friday**  
**May 7**  
**2-5 p.m.**

**Drug Targeting/Delivery/Design ■ Chair: Phil Low**

*Receptor-Targeted Therapeutic and Imaging Agents for Cancer*

**Phil Low**, PhD, Ralph C. Corley Distinguished Professor of Chemistry, Purdue University

*Membrane/Core Nanoparticles for siRNA Delivery*

**Leaf Huang**, PhD, Fred N. Eshelman Distinguished Professor and Chair, School of Pharmacy, University of North Carolina

*Inhibition of Prenylated Protein Processing: A Method for the Disruption of the Membrane Localization of Oncogenic Ras?*

**Rich Gibbs**, PhD, Professor of Medicinal Chemistry, Purdue University

*Antibody-Drug Conjugates: Conferring Tumor Specificity to Highly Cytotoxic Drugs*

**Ravi Chari**, PhD, Executive Director, Chemistry and Biochemistry, Immunogen, Inc.

**Saturday**  
**May 8**  
**9 a.m.-**  
**12 p.m.**

**Membrane Biology: *in vivo* and *in situ* ■ Chair: David Riese**

*First In-human Application of Tumor Targeted Imaging in Real-Time Image-Guided Surgery*

**Go Van Dam**, MD, PhD, University Medical Center Groningen, Netherlands

*Epstein-Barr Virus Latent Membrane Proteins and Cancer*

**Richard Longnecker**, PhD, Congressman John Edward Porter Professor Microbiology-Immunology, Northwestern University

*Design and Use of Membrane Peptides Targeting Tumors, Part 1*

**Yana Reshetnyak**, PhD, Associate Professor of Physics, University of Rhode Island  
Affiliated Member, Department of Molecular Biophysics and Biochemistry, Yale University

*Design and Use of Membrane Peptides Targeting Tumors, Part 2*

**Donald Engelman**, PhD, Eugene Higgins Professor of Molecular Biophysics and Biochemistry, Yale University