

**PSTP/VSTP RETREAT SCHEDULE OF EVENTS  
SIERRA HEALTH FOUNDATION  
SEPTEMBER 12, 2003**

**8:00 – 8:30**

**Continental Breakfast**

**8:30 – 8:50**

**Welcome**

Michael F. Seldin M.D., Ph.D. Director PSTP  
Jacqueline Segersten, Sierra Health Foundation

**8:50 – 9:05**

**“Regulation of G Protein Deactivation in Rod Photoreceptors”**

*Claudia Krispel, PSTP Student*

**9:10 – 9:25**

**“Thymic B Cell Involvement in Autoimmune Lupus”**

*Tom Hsu, PSTP Student*

**9:30 – 9:50**

**“Monkey to Man: Story of mucosal immune restoration in HIV infection”**

***Dr. Satya Dandekar***, Ph.D., UC Davis School of Medicine, Professor and Chair, Department of Medical Microbiology and Immunology

**10:00 – 10:30**

**Morning Break**

**10:30 – 10:45**

**“Compact Compton Scattering X-Ray source for Cancer Diagnostics and Treatment”**

*William Frederick, PSTP Student*

**10:50 – 11:05**

**“A Quantitative Study on Microvascular Changes in Hypovolemia and Resuscitation Treatment”**

*Patricia Duong, PSTP Student*

**11:10 - 11:30**

**“FXTAS: A new perspective on the fragile X gene”**

*Dr. Paul Hagerman, MD, PhD, UC Davis School of Medicine, Department of Biological Chemistry. M.I.N.D. Institute*

**11:40 - 11:55**

**“Ultrastructural Analysis of Transient Mossy Fiber Projections in the Hippocampus of CD-1 Mice”**

*Lawrence Low, PSTP Student*

**12:00 – 12:55**

**Lunch**

**1:00 – 1:15**

**“The Human Homolog of Arabidopsis De-etiolated 1 is a Substrate Receptor for a Multisubunit C-Jun Ubiquitin Ligase”** *Ingrid Wertz, PSTP Student*

**1:20 – 1:35**

**“TNF- $\alpha$  Decreases AKT Protein Levels in 3T3-L1 Adipocytes: Involvement of the Caspase and Ubiquitin/Proteasome Pathways”**

*Edward Medina, PSTP Student*

**1:40 – 2:40**

**Key-Note: “Proteomic Approaches to Decoding Mitotic Signaling Pathways”** *Dr. Michael Yaffe, M.D., Ph.D., Howard and Linda Stern Career Development Associate Professor of Biology, Massachusetts Institute of Technology*

2:45 – 3:50

**Poster Session** (refreshments will be served)

**“Functional Magnetic Resonance Imaging Characterization of Cognitive Tasks in Patients with Fragile X-Associated Tremor Ataxia Syndrome”**

*Teresa Barcellos, PSTP Student*

**“IL-8 and its Role in Androgen Independence of Prostate Cancer Cell Lines”**

*Yu-Ming Chang, PSTP Student*

**“Anatomic Distribution of Eosinophils and Chemokines Following Allergen Challenge: Role of Mec, Eotaxin-2, and Eotaxin-3 Expression within Airways”**

*Debbie Chou, VSTP Student*

**“Population Structure and Marker Characteristics in European Americans, Mexican Americans, Amerindians, and Asians”**

*Heather Collins-Schramm, PSTP Student*

**“*Staphylococcus aureus* Enhances the Growth of *Pseudomonas aeruginosa*”**

*Margaret Dale, PSTP Student*

**“Pamidronate Effects on Long Bone Growth and Organ Weight in the Oim Mouse Model for Osteogenesis Imperfecta”**

*Kristen Evans, VSTP Student*

**“High Pressure and Rapid Decompression Induce Activation of Human, but not Northern Elephant Seal Platelets”**

*Cara Field, VSTP Student*

**“The Role of Purinergic Receptors in the Exercise Pressor Reflex”**

*Ramy Hanna, PSTP Student*

**“Amiloride Treatment Produces Death in Malignant Human Glioma Cell Lines”**

*Manu Hegde, PSTP Student*

**“Biomechanical Analysis of Three Surgical Approaches for Lumbar  
Corpectomy Using Allograft and Synthetic Devices”**

*Phil Huang, PSTP Student*

***Poster Session (continued)***

**“The Oligopeptide Transporter PEPT1 Plays a Role in Nutrient Detection in  
the Small Intestine”**

*Alice Liou, VSTP Student*

**“A Summary of Fie Stereotactic Neurosurgery Patients in Madras, India”**

*Noah Merin, PSTP Student*

**“2, 2-Dibromophenyl ether Binds and Induces Calcium Release Through  
the Ryanodine Receptor”**

*Joyce Riehl, VSTP Student*

**“A Clinical Evaluation of the Fentanyl Transdermal Therapeutic System for  
Analgesia in Horses”**

*Sara Thomasy, VSTP Student*

- 4:00 – 4:15**            **“Differential Regulation of Nuclear Corepressor Proteins, Silencing Mediator of Retionic Acid and Thyroid Hormone Receptors (SMRT) and Nuclear Hormone Receptor Corepressor (N-COR)”**  
*Brian Jonas, PSTP Student*
- 4:20 – 4:40**            **“New Insight into Cytomegalovirus Natural History”**  
*Dr. Peter Barry, Ph.D., Center for Comparative Medicine, Staff Scientist, California National Primate Research Center*
- 4:45 – 5:00**            **“Screening Human Serum for Cancer Markers and Developing Microarray Technology using the One Bead One Compound Method and the Subtractive Screening Method”**  
*Vijay Pottathil, PSTP Student*
- 5:05 – 5:20**            **“Long-Term Correction of Hyperglycemia in Diabetic Mice After Implantation of Cultured Human Cells Derived from Fetal Pancreas”**  
*Fred Wu, PSTP Student*
- 6:00**                    **Dinner at Chevy’s.**

## **About our Key-Note Speaker**

**Michael B. Yaffe**, M.D., Ph.D. is the Howard and Linda Stern Career Development Associate Professor of Biology and is an affiliate in the Division of Biological Engineering. He received his B.S. degree in Materials Science and Engineering at Cornell University, and his M.D., and Ph.D. degrees from Case Western Reserve University in Biophysical Chemistry. He completed a residency in General Surgery, a Fellowship in Surgical Critical Care, Burns and Trauma at Harvard Medical School, and post-doctoral training in Cell Signal Transduction with Lew Cantley in the Department of Cell Biology at Harvard. Research in the Yaffe lab focuses on the role of protein phosphorylation in regulating protein-protein interactions that control cell signaling, particularly the role of modular protein domains that bind to specific phosphorylated amino acid sequences to form multi-molecular signaling complexes. He is interested in how protein phosphorylation controls cell cycle progression following DNA damage or disruption of the mitotic spindle, and how phosphorylation regulates the inflammatory response of neutrophils. Techniques which have been developed by, and are used in, the Yaffe lab include phosphoserine/threonine-oriented peptide library screens, novel high-throughput proteomic screens for binding modules, and structural biology techniques aimed at deciphering the mechanism of molecular recognition in molecular and atomic detail. He is the acting director of the Structural Biology Core Facility at MIT, an Attending Surgeon in the Surgical Intensive Care Unit at the Beth Israel Deaconess Hospital, and the undergraduate advisor for Biology majors at MIT minoring in Biological Engineering.