

13th Annual Neuroscience Research Symposium

May 19th, 2004

The Cliff House - UCSB West Campus

SYMPOSIUM SCHEDULE

8:30 – 9:00

Breakfast

SESSION I

9:00 – 9:10

Welcome

Stu Feinstein, NRI Director

9:10 – 9:30

Inward Rectifier Potassium Channels: PDZ Proteins and Channel Trafficking

Lisa Conti, Ian Chua, Dmitri Leonoudakis, Leah McGuire, Carolyn Radeke, Linda Soo Hoo, Melanie Williams, Carol Vandenberg

9:30 – 9:50

**How Does Tau Cause Neuronal Cell Death and Dementia...
Gain-of-Function or Loss-of-Function?**

Stu Feinstein, Janis Bunker, Dee Ann Hartung, Noelle Huskey, Mary Ann Jordan, Adria LeBeouf, Sasha Levy, Michelle Massie, Austin Peck, Vaishali Tanna, Les Wilson

9:50 – 10:10

A New Model for Tau Regulation of Microtubule Dynamics

Sasha Levy, Adria Le Beouf, Michelle Massie, Mary Ann Jordan, Les Wilson, Stu Feinstein

10:10 – 10:30

Break

SESSION II

10:30 – 10:50

**Neuroprotection of Retinal Ganglion Cells by
Medicinal Herbs**

Laura Chambers, Amber Cordero, Lindsey Fischer, Rayelle Jones, Mandy Miller, Nate Matson, Sarah Ledbetter, George Ayoub

10:50 – 12:00

KEYNOTE ADDRESS:

**Gene-Based Therapeutic Strategies for Inherited Retinal Disease:
Translation from Animal Models to the Clinic**

Dean Bok

Departments of Ophthalmology & Neurobiology

Jules Stein Eye Institute

University of California, Los Angeles

12:00 – 1:00 **Lunch**

SESSION III

1:00 – 1:20

**Environmental Factors Influencing Horizontal Cell Morphology in the
Mouse Retina**

Kacy Strickland, Mary Raven, Ben Reese

1:20 – 1:40

**Assessing the Consequences of Retinal Detachment and Reattachment with
the Multifocal Electroretinogram**

Mickey Rowe, Geoff Lewis, Jack Calderone, Steve Fisher, Gerald Jacobs

1:40 – 2:00

**Microglial Cell Activation and Macrophage Influx Following Retinal
Detachment: A Comparison Between Species**

Geoff Lewis, Katrina Carter, Steve Fisher

&

**The Use of Knock-Out Mice to Study Cellular Responses Induced by
Retinal Detachment**

Mark Verardo, Geoff Lewis, Steve Fisher

2:00 – 2:20

NRI Alumni Presentation: Genechip Analysis of Muller Cells in Culture

Scott Geller and John Flannery

UC Berkeley

2:20 – 2:40

**Investigation of the Pro-Inflammatory Role of Osteopontin in Mouse
Retinal Inflammation**

Sherry Hikita, Igal Gery, Dennis Clegg

2:40 – 3:00

Drusen-Associated Photoreceptor Degeneration and Synaptic Pathology

Pat Johnson, Meghan Brown, Bryce Pulliam, Geoff Lewis, Steve Fisher, Don
Anderson, Linc Johnson

3:00

Discussion/Refreshments