

**The University of Texas at Austin
Section of Neurobiology
2008 Spring Retreat**

April 12-13, 2008

Balcones Springs Executive
Retreat and Conference Center
104 Balcones Springs Drive
Marble Falls, Texas 78654
Phone: 830-693-6639



AGENDA

Saturday, April 12

8:00-9:15 **Arrival and Breakfast, Outdoor Pavilion**

9:15-9:30 **Opening Remarks, Rio Grande Room**

Rick Aldrich

Session 1

9:30-10:00 **Nigel Atkinson Lab, Rio Grande Room**

Alfredo Ghezzi

Drug-induced homeostatic modulation of neural activity by BK channels

Jascha Pohl

The Role of Circadian Genes in Tolerance to Ethanol in Drosophila

10:00-10:30 **Daniel Johnston Lab**

Yul Young Park

Persistent Sodium Current in Hippocampal CA1 Pyramidal Neurons

10:30-10:50 **Max Snodderly Lab**

Max Snodderly

Brief overview of research in the Snodderly laboratory

Discussion of new Principles of Neuroscience course for Fall '08

10:50-11:10 **Break, Bluebonnet Room Hallway**

Session 2

11:10-11:30 **John Mihic Lab**

Brian Welsh

Single channel characterization of alcohol enhancement of glycine receptor function

11:30-11:50 **Helmut Koester Lab**

Juan Diego Pita-Almenar
Network plasticity in Barrel Cortex

11:50-12:10 **Kimberly Raab-Graham Lab**

Kimberly Raab-Graham
mRNAs that TOR dendrites

12:10-12:30 **Kristen Harris Lab**

Jen Bourne
Structural plasticity of mature rat hippocampal dendrites

Kristen Harris
Structural plasticity of human hippocampal dendrites and perisynaptic astroglia during MTLE (mesial temporal lobe epilepsy)

12:30-1:30 **Lunch, Rio Grande Room**

1:30-5:30 **Free Time**

Life Guard on duty from 2 – 5 PM
Horseback Riding for those who signed up ahead at 1:15 PM & 3:15 PM

Session 3

5:30-6:00 **Adron Harris Lab, Rio Grande Room**

Megan Mulligan
Transcriptome targets for alcohol action

Sheila Bal
Rapid testing of transcriptome targets

6:00-6:20 **George Bittner Lab**

Chris Spaeth
Current Projects in the Bittner Lab.

6:20-6:40 **Alex Huk Lab**

Thad Czuba, Dean Kirson, Beth Bell, and Alex Huk
Pointing and looking, ducking and deciding, mapping and bootstrapping

6:40-8:00 **Dinner, Rio Grande Room**

8:00-9:00 **Entertainment, Rio Grande Room**

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AGENDA

Sunday, April 13

8:00-9:30 **Breakfast, Outdoor Pavilion**

Session 4

9:30-10:00 **Rick Aldrich Lab, Rio Grande Room**

Tom Middendorf
Strategies for understanding activation of SK calcium.

Weiyang Li
Activation of SK potassium channels by Lanthanide ions

10:00-10:30 **Mike Mauk Lab**

Joy Kreider
Cerebellar control of response amplitude

Brenda Houck
Cerebellar deep nucleus plasticity: a dilemma and a solution

10:30-10:50 **Hitoshi Morikawa Lab**

Mark Harnett
NMDA receptor plasticity

10:50-11:10 **Break, Bluebonnet Room Hallway**

Session 5

11:10-11:30 **David Ress Lab, Rio Grande Room**

David Ress

High-resolution imaging projects overview

Sucharit Katyal

Use of fMRI to link change blindness to visual attention

11:30-11:50 **Nicholas Priebe Lab**

Nicholas Priebe

The sharpening of cortical selectivity by spike threshold

11:50-12:10 **Nace Golding Lab**

Paul Mathews and Nace Golding

Dendritic properties for encoding auditory timing.

12:10-12:30 **Eyal Seidemann Lab**

Zhiyong Yang

Imaging traveling waves in V1 during binocular rivalry

12:30-1:30 **Lunch, Rio Grande Room**

Session 6

1:30-2:00 **Harold Zakon Lab, Rio Grande Room**

Michael Markham

Peptide hormones enhance an electric communication signal via a cAMP/PKA pathway that regulates ion channel trafficking.

2:00-2:30 **Wes Thompson Lab**

Wes Thompson

What's wrong with this neuromuscular junction?

2:30-3:00 **Closing Remarks**

Rick Aldrich