## Program

## BARRELS XVI – 2003

Covington, LA USA

## *Thursday, November 6, 2003*

**14:00 – 15:30 – Session I. Development** *Alison Barth (Carnegie Mellon), Chair*

14:00 – 14:45 *Jim McCasland (SUNY Upstate)* – “Multiple defects in thalamocortical development and barrel patterning in GAP-43 deficient mice”

14:45 – 15:30 *Maria Donoghue (Yale)* – “Roles for EphA family members in the formation of barrel cortex”

**15:30 – 15:45 - Break**

**15:45 – 17:30 – Session II. Short Talks and General Discussion** *Pete Land (Pittsburgh), Chair*

15:45 – 16:00 *Shun Nakamura (National Institute of Neuroscience, Japan)* – “BDNF-dependent unmasking of ‘silent’ synapses in developing mouse barrel cortex”

16:00 – 16:15 *Richard Dyck (Calgary)* – “A role for zincergic neurons in cerebral cortical plasticity?”

16:15 – 16:30 *Mary Ann Wilson (Johns Hopkins)* – “Neonatal lead exposure impairs morphologic plasticity after whisker follicle ablation”

16:30 – 17:00 General Discussion

**18:00 – 21:00 – Session III. Reception and Posters**

## *Friday, November 7, 2003*

**8:00 – 9:30 - Session IV. Function –** *Chris Moore (MIT), Chair*

8:00 – 8:45 *Kevin Alloway (Penn State)* – “Analysis of neuronal convergence

in the somatosensory system”

8:45 – 9:30 *Jed Hartings (Walter Reed)* – “Coding, bursting and filtering: the

whisker-related thalamus”

**9:30 – 9:45 - Break**

**9:45 – 11:00 - Session V. Short Talks and General Discussion –** *Robert Rhoades (MCO), Chair*

9:45 - 10:00 *Jochen Staiger (Vogt Institute, Düsseldorf)* – “Layer IV neurons target parvalbumin-immunoreactive interneurons in rat barrel cortex”

10:00 – 10:15 Vivek Khatri (Pittsburgh) – “Firing synchrony between layer 4 barrel cells *in vivo*”

10:15 – 10:30 *Randy Bruno (Max Planck Institute, Heidelberg)* – “Subthreshold cortical activation by individual thalamocortical neurons”

10:30 – 10: 45 *Rasmus Petersen (Manchester)* – “Coding of temporally complex stimuli in the barrel cortex”

10:45 – 11:00 General Discussion

**11:00 – 11:15 – Break (caucus)**

**11:15 – 12:00 – Session VI. Business Meeting,** *Asaf Keller (Maryland), Chair*

**12:00 – 13:30 – Lunch**

**13:30 – 15:00 – Session VII. Behaviour and Plasticity –** *Rasmus Petersen (Manchester), Chair*

13:30 – 14:15 *Alexis Hattox (Bandeis)* – “Serotonin regulates rhythmic whisker movements”

14:15 – 15:00 *Ron Frostig (UCI)* – “Imaging plasticity in the adult barrel cortex”

**15:00 – 15:15 - Break**

**15:15 – 17:00 - Session VIII. Short Talks and General Discussion –** *Martin Deschênes*

*(Laval), Chair*

15:15 – 15:30 *Garrett Stanley (Harvard)* – “Encoding of spatiotemporal patterns in the barrel cortex”

15:30 – 15:45 *Ford Ebner (Vanderbilt)* – “Effects of locus and oscillation damping whisker stimulation on the response of barrel field cortex neurons in anesthetized adult rats”

15:45 -16:00 *Andreas Krauss (Max Planck Institute, Heidelberg)* – “Laminar distribution of detection thresholds for electric stimulation in rat barrel cortex”

16:00 – 16:15 *Dori Derdikman (Weizmann Institute, Rehovot)* – “Integrating kinematic data and extracellular recordings in the ‘electrically whisking’ rat: effects of whisker angle and curvature”

16:15 – 16:30 *Wendy Friedman (CUNY)* – “One whisker whisking: unit recording from awake, whisking rats”

16: 30 – 17:00 General Discussion

**17:00 Adjourn**