

Special Thanks

Event Committee

John Oberdick, Chapter Representative
Randy Nelson, Chapter President
Keri Bantz
Jessica Alexander

Contributors

Society for Neuroscience – The Grass
Foundation

William E. Hunt, M.D. and Charlotte M.
Curtis Neuroscience Endowment

Department of Neuroscience

Department of Pharmacology

Center for Molecular Neurobiology

SfN Central Ohio Chapter Meeting



April 25, 2007

Poster Presentations

Michael Rempe – Post doctoral Fellow
Compartmental Neural Simulations with Spatial
Adaptivity

Cullen Schmid – NGSP Graduate Student
Role of β -arrestin2 on trafficking of serotonin
receptors in vitro and in vivo

David Schonberg – NGSP Graduate Student
Distinct intraspinal macrophage activation protocols
differentially influence oligodendrocyte genesis

Tom Sherwood – MCDB Graduate Student
Neuropeptides Potentiate Acid-Sensing Ion Channel
1a

Richa Tripathi – NGSP Graduate Student
Oligodendrogenesis following spinal cord Injury: Role
of CNTF

Robin White – NGSP Graduate Student
Cell Proliferation Patterns in Cells of Astrocytic
Lineage Following Graded Spinal Cord Contusion
Injury in Mice

Event Schedule

Afternoon

- 4:00 P.M. Welcome and Chapter Announcements
115 Biomedical Research Tower
- 4:15 P.M. Grass Foundation Traveling Scientist Lecture
“Too much of a good thing? Roles for
serotonin and dopamine transporters in
neuropsychiatric disorders”
115 Biomedical Research Tower

Evening

- 5:15 P.M. Reception and Poster Presentations
BRT Lobby – Invitation Only
Catering provided by Vito's

Welcome

About the Speaker:

Dr. Blakely studies neurotransmitter transporter molecules to understand how their structure relates to their function and how knowledge of their regulation may elucidate mechanisms of brain disease. These transporters are essential to neuronal function, as the duration and magnitude of the postsynaptic response is affected by the length of time that the neurotransmitter remains in the cleft. Dr. Blakely's lab and colleagues identified the genes that make transporters including those encoding norepinephrine and serotonin transporters, targets of most clinically used antidepressants.

Recent Publications:

Dipace, C, Sung, U, Binda, F, Blakely, RD, Galli, A. Amphetamine induces a calcium/calmodulin-dependent protein kinase II-dependent reduction in norepinephrine transporter surface expression linked to changes in syntaxin 1A/transporter complexes. *Mol Pharmacol*, 71(1), 230-9, 2007.

Hahn, MK, Blakely, RD. The Functional Impact of SLC6 Transporter Genetic Variation. *Annu Rev Pharmacol Toxicol*, 47, 401-41, 2007.

Sung, U, Blakely, RD. Calcium-dependent interactions of the human norepinephrine transporter with syntaxin 1A. *Mol Cell Neurosci*, 34(2), 251-60, 2007.

Bazalakova, MH, Blakely, RD. The high-affinity choline transporter: a critical protein for sustaining cholinergic signaling as revealed in studies of genetically altered mice. *Handb Exp Pharmacol*, (175), 525-44, 2006.

Carneiro, AM, Blakely, RD. Serotonin-, protein kinase C-, and Hic-5-associated redistribution of the platelet serotonin transporter. *J Biol Chem*, 281(34), 24769-80, 2006.

Poster Presentations

Jessica Alexander – NGSP Graduate Student
Stress Effects on Neuropathic Pain

Holly Brothers – Behavioral Neuroscience Graduate Student
The effects of the adenosine receptor antagonist caffeine upon neuroinflammation: Implications for Alzheimer's and Parkinson's disease

Jun-Hyeong Cho – IBGP Graduate Student
Presynaptic function is altered in Acid-sensing ion channel1 knockout hippocampal neurons in microisland culture

Tatiana F. González-Cestari – Graduate Visiting Scholar
Interactions of noncompetitive antagonists with A3B4 Neuronal nicotinic receptors: modeling of a negative allosteric binding site

Chad Groer – IBGP Graduate Student
Herkinorin derivatives evaluated for mu opioid receptor regulation and signaling

Brandon Henderson – Pharmacology Graduate Student
Novel allosteric modulators of nicotinic receptors: structure-activity studies

Jeong-Eun Lim – NGSP Graduate Student
Tryptophan hydroxylase 2 (TPH2) haplotypes predict levels of TPH2 mRNA expression in human pons

Yannick Marchalant – Post doctoral Researcher
Cannabinoid receptor stimulation is anti-inflammatory and improves memory in old rats

Kirsten M. Raehal – IBGP Graduate Student
Morphine-Induced Physical Dependence and Inhibition of Gastrointestinal Transit in GRK6 Knockout Mice