Synaptic Inhibition in Health and Disease
October 15-16, 2009
Chicago, IL
For more information: www.abcam.com/SIHD

Poster list

Poster session A - 4:35PM on Thursday, October 15 (During reception)

Poster 1  Matthew Abramian
Neurosteroid modulation of cell surface expression of the GABA_A receptor a-4 subunit

Poster 3  Lorena Arancibia
Ubiquitin-dependent lysosomal targeting of GABA_A receptors regulates neuronal inhibition

Poster 5  Gong Chen
Alpha subunits play a critical role in GABA_A receptor targeting at synaptic versus extrasynaptic sites

Poster 7  LaTasha Crawford
Chronic social stress differentially alters inhibitory inputs to topographically organized subpopulations of dorsal raphe 5-HT neurons.

Poster 9  Borislav Dejanovic
Structural analysis of gephyrin

Poster 11  David Ehrlich
Postnatal development of GABA_A receptor subunit expression in the basolateral amygdala and the effects of stress

Poster 13  Abdelkader Ennaceur
A novel open space anxiety test: tolerance, sensitization, and dependence to diazepam in Balb/c mice

Poster 15  Isabella Ferando
Region-specific GABA_AR plasticity during pregnancy: effect on neuronal excitability

Poster 17  Navnath Gavande
Fluorescent GABA rho1 probes for receptor visualization and localization studies

Poster 19  Scott Heldt
In vitro and in vivo knocked down expression of GAD67 in the amygdala using a lentiviral-based RNA interference strategy

Poster 20  Ben Huang
Therapeutic potential of antagonizing elevated tonic inhibition after post-stroke impairment of GABA transport

Poster 21  Masumi Inoue
Molecular mechanisms for a paracrine role of GABA in adrenal chromaffin cells

Poster 23  Rachel Jurd
Antidepressant-like behavioral responses correlate with modified tyrosine phosphorylation of the GABA_A receptor gamma2 subunit
Poster 25  Lida Kimmel
Monitoring synapse size and density in cultured neurons using an automated image analysis system

Poster 27  Hing Cheong Lee
Prolonged activation of N-methyl-D-aspartate receptors regulates the dephosphorylation, internalization and subsequent degradation of KCC2

Poster 29  Huei-Chun Liu
Neural transdifferentiation with Neurogenin1 may benefit the therapeutic potential of human mesenchymal stem cells in Huntington's Disease

Poster 31  Jayanta Mukherjee
A phospho-dependent interaction between gephyrin and the alpha1 GABA$_A$R subunit regulates GABA$_A$R accumulation at inhibitory synapses

Poster 33  Zhan-Heng Qi
Inhibition of PKCe increased sensitivity of GABA mIPSC to neurosteroid in Hippocampus

Poster 35  Sarah Ramsden
Strategies for identifying the biological roles of gephyrin variants and novel GEFs involved with synaptic clustering

Poster 37  I. Shim
Differential dopaminergic regulation of D1 and D2 agonist over locomotor activity and GABA level in the basal ganglia

Poster 39  Tolga Soykan
A mechanistic model underlying inhibitory synapse assembly

Poster 41  Alison Twelvetrees
A HAP1-KIF5 trafficking complex directs transport of GABA$_A$ receptors to synapses and is inhibited by mutant huntingtin

Poster 43  Henry Waldvogel
An immunohistochemical study of Gephyrin and the major GABA$_A$ and Glycine receptor subunits in the normal human brainstem

Poster 45  ShinLan Wen
Characterization of GABA$_A$ receptor expression patterns in SMA

Poster 47  Rebecca Wright
A novel mechanism for regulating chloride transport in neurons

Poster 49  Agnieszka Zurek
Isoflurane-induced post-anesthetic memory impairment is not mediated by a5GABAA receptors

Poster session B - 10:05AM on Friday, October 16 (During moring coffee break)

Poster 2  Joanna Adams
Neurosteroid modulation of the a4b3d GABA$_A$ receptor: a role for protein kinases.

Poster 4  Damian Bright
Regulation of tonic GABA$_A$ receptor mediated inhibition by phosphorylation

Poster 6  Andrew Clarkson
Suppressing tonic inhibition in vivo mediates post-stroke functional improvements.

Poster 8  Paul Davies
The effects of protein kinase C activation on tonic inhibition in hippocampal neuron cultures
Poster 10  Diana Dzidziguri
The comparative study of halothane depressant effect on morphofunctional different parts of the rat hippocampus

Poster 12  Abdelkader Ennaceur
Difference between c57, CD-1, and Balb/c mice and difference between amphetamine and diazepam in a novel open space anxiety test

Poster 14  Hua-Jun Feng
Pulsed infrared laser light: a potential new tool to stimulate GABAergic neurotransmission

Poster 16  Navnath Gavande
2’-Methoxy-6-methylflavone, an allosteric activator of alpha2beta2gamma2L GABA\(_A\) receptors

Poster 18  Marco Gonzalez
Long-term regulation of GABA receptor trafficking after status epilepticus

Poster 22  Tija Jacob
Benzodiazepines modulate GABA\(_A\) receptor surface levels and synaptic inhibition

Poster 24  Gurcharan Kaur
Anti-epileptic drug valproic acid treatment disrupts GnRH neuronal plasticity by GABAergic mechanism.

Poster 26  Alexander Kleschevnikov
GABA\(_B\) receptor antagonists improve synaptic plasticity and learning in Ts65Dn mouse model of Down Syndrome

Poster 28  Corinne Lee
Function of GABA\(_A\) and GABA\(_B\) receptors in a rat model of painful diabetic neuropathy

Poster 30  Loren Martin
alpha5GABA\(_A\) receptor activity sets the threshold for long-term potentiation and constrains hippocampus-dependent memory

Poster 32  Juan Carlos Pineda
GABA\(_B\) antagonist CGP 46381 and citalopram occlude their anti-depressive-like influence in the forced swimming test

Poster 34  Zuyuan Qian
Purkinje cell activity modulates the expression of GABA\(_A\)-receptor-associated protein and influences its interaction with GABA\(_A\) receptors

Poster 36  B. Sastry
GABA-C receptor involvement in presynaptic inhibition in rat spinal cord

Poster 38  Katharine Smith
The signalling adaptor GIT1 has an important role in the regulation of GABA\(_A\) receptor trafficking dynamics and inhibitory synapse modulation

Poster 40  Lisa Topolnik
The alpha5 GABA\(_A\) receptor subunit controls the developmental switch in the dynamics of GABAergic transmission onto hippocampal CA1 oriens-lacunosum moleculare interneurons

Poster 42  Mansi Vithlani
Anxiolytic effects of acute fluoxetine in BDNF conditional mutant mice
Poster 44  Joshua Walker
Expression of KCC2 Determines the Establishment of Inhibitory Synapses During Neuronal Development

Poster 46  Corette Wierenga
Imaging formation and plasticity of inhibitory synapses

Poster 48  Xiang Yu
Early enriched environment accelerates synapse maturation