

2015 IBANGS Meeting, Uppsala, Sweden

Symposia

Genetic and epigenetic regulation of stress---related behaviors

Organizer: **Gang Chen**; Chairs: **Abraham Palmer** and **Gang Chen**

Chadi Touma, Max Planck Institute of Psychiatry, Munich, Germany. *Mice selected for extremes in stress reactivity reveal key endophenotypes of major depression: A translational approach*

Olivia O'Leary, University College Cork, Cork, Ireland. *GABAB(1) receptor subunit isoforms differentially regulate stress resilience*

Xiang Li, Queensland Brain Institute, University of Queensland, Brisbane, Australia. *Neocortical Tet3---mediated accumulation of 5--hydroxymethylcytosine promotes rapid behavioral adaptation.*

Gang Chen, Nanjing University of Chinese Medicine, Nanjing, China. *Strain dependent enduring antidepressant effects of Yueju and ketamine are associated with CREB signaling in the hippocampus of the mouse brain*

Jake A. Lulis, UCLA, Los Angeles, CA, USA. *Genetic regulation of mouse liver metabolite levels*

Epigenomic mechanisms of neuroadaptation and neurodegeneration

Organizer and Chair: **Alfredo Ghezzi**, University of Texas at Austin, USA.

Georgy Bakalkin, Uppsala University, Sweden. *A role of the epigenome in alcoholism: Genetically-regulated trajectories of DNA methylation in human brain*

Nigel Atkinson, The University of Texas at Austin, USA. *Using histone marks to identify behaviorally relevant alcohol response genes*

Susan Bergeson, Texas Tech University, Health Science Center, USA. *Bioinformatics analyses of alcohol-mediated molecular and epigenetic changes reveal age-specific differences in brain and harmacotherapeutic treatment potential*

Leonard Schalkwyk, University of Essex, United Kingdom. *DNA methylation profiles in Alzheimer disease brains*

Neurogenomics of social behaviour

Organizers: **Svante Winberg**, Uppsala, Sweden; **Rui F. Oliveira**, Lisbon, Portugal

Svante Winberg, Uppsala University, Sweden. *Stress coping styles in teleost fish – genetic factors and plastic responses to social experience*

Per Jensen, Linköping University, Sweden. *Genetics and epigenetics of domesticated social behavior*

Rui F. Oliveira, ISPA/IGC, Portugal. *Neuromolecular mechanisms of social learning in zebrafish*

Galit Shohat, Bar-Ilan University, Israel. *Social experience modulates group interaction in *Drosophila melanogaster**

Oxytocin and social behaviours: From fish to human

Organizers/Chairs: **Petronella Kettunen**; **Lars Westberg**

Petronella Kettunen, University of Gothenburg, Sweden. *Using zebrafish to study the role of oxytocin in social behavior*

Sietse de Boer, University of Groningen, The Netherlands. *The promise and perils of oxytocin as neurochemical mediator of sociality: insights from rodent studies*

Lars Westberg, University of Gothenburg, Sweden. *Variants of the oxytocin receptor gene and human social behaviors*

Siri Leknes, The Intervention Centre, Oslo University Hospital, Norway. *Oxytocin treatment in humans –reliable and variable effects*

The role of impulsivity in addiction

Organizer and Chair: **Lisa M. Tarantino**

J. David Jentsch, University of California Los Angeles, USA. *Genetic analyses of impulsivity and motivated behavior as addiction-relevant traits*

Nicholas Grahame, Indiana University-Purdue University, USA. *High Impulsivity, poor response inhibition, and prevalent habitual behavior associate with genetic differences in volitional alcohol intake*

Erika Roman, Uppsala University, Sweden. *Risk-related behaviors and propensity for excessive alcohol intake*

Chiara Giuliano, University of Cambridge, UK. *Compulsive alcohol-seeking behavior is attenuated by inhibiting μ -opioid receptors*

Vesicular glutamate transporters: From synaptic physiology to pathophysiology

Organizers and Chairs: **Åsa Wallén-Mackenzie; Salah El Mestikawy**

Christian Rosenmund, Charité – Universitätsmedizin Berlin, Germany. *Glutamate-GABA cotransmission in cultured forebrain neurons*

Louis-Eric Trudeau, Université de Montréal, Canada. *Role and topography of glutamate release sites in dopamine neurons*

Åsa Wallén-Mackenzie and **Stefano Pupe** (shared talk), Uppsala University, Uppsala, Sweden. *New subpopulations within the brain reward system*

Salah El Mestikawy and **Stephane Jamain** (shared talk), McGill University, Montreal, Canada; Université Pierre et Marie Curie, Paris, France. *VGLUT3: From glutamate synapses to pathophysiology of psychiatric disorders*

Circuit and molecular mechanisms in disordered eating animal models

Organizer and Chair: **Andrew Hardaway**

Pietro Cottone, Boston University, USA. *High trait impulsivity predicts food addiction-like behavior in the rat*

Ida Nilsson, Karolinska Institutet, Sweden. *The anorexia of the anx/anx mouse is associated with hypothalamic degeneration and mitochondrial dysfunction*

Andrew Hardaway, University of North Carolina at Chapel Hill, USA. *Nociceptin signaling modulates the expression of limited access binge eating*

Lora Heisler, University of Aberdeen, Scotland. *Subset of POMC peptides controlling ingestive behavior and body weight*

Next³: Next generation neuroscience questions, Next generation speakers, Next generation sequencing

Organizer: **Josh Dubnau**

G. Lee Henry, HHMI Janelia Farm, USA. *Application of the INTACT system to the study of neuronal cell types transcriptome---wide analysis of single drosophila mushroom body*

Amanda Crocker, Princeton, USA. *Neurons reveals learning--related changes in gene expression*

Benjamin Matthews, Rockefeller University, USA. *Genome engineering and oviposition behavior in the mosquito *Aedes aegypti**

Mike Lodato, Harvard, USA. *Mosaic single nucleotide mutations record developmental and mutational histories of single neurons in human cerebral cortex*