

# IBANGS Annual Meeting 2009 - Final Programme

## Thursday 4th June

9:00 - 12:00 **Satellite Symposium: "CRTD Symposium on Adult Neurogenesis"**

*(Chairs: Gerd Kempermann, Justin Rhodes)*

Hans-Peter Lipp

Introduction to adult neurogenesis

Irmgard Amrein

Results from the comparative method

Michael Brand

Zebrafish as model organism to dissect the genetics of adult neurogenesis

### **Coffee Break**

Constance Scharff

Finding your place when you are young: recruitment of adult-generated neurons into song nucleus HVC

Gerd Kempermann

Genes, cells, and environment in the control of adult hippocampal neurogenesis

Justin Rhodes

Functional analysis of exercise-induced neurogenesis in laboratory mice

12:00 - 13:00 **Lunch**

13:00 - 17:00 **Satellite Symposium: "Automated Systems for Phenotyping"**

*(Chairs: Gerd Kempermann, Rupert Overall)*

### Sponsored by TSE Systems

Stephan von Hörsten

Automated vs. classical phenotyping in rat models of degenerative brain diseases

### Sponsored by Illumina

Thomas Mühleisen

Genome-wide association study of bipolar disorder and follow-up: the Bonn/Mannheim study

### Sponsored by NewBehaviour

Frank Buschmann

Consistent effects on cognitive phenotypes in the IntelliCage®

### **Coffee Break**

### Sponsored by Tecan

Roland Dumer

Automating Life Science Processes

### Sponsored by Noldus

Raymond de Heer

Applying fully automated cognitive tests in a home cage

18:00 - **Welcome Reception**

## Friday 5th June

09:00 - 10:00 **Keynote Lecture**

Eric B. Keverne

Evolutionary co-adaptation of the neuroendocrine hypothalamus and placenta in foetal programming

10:00 - 10:30 **Coffee Break**

10:30 - 12:15 **Symposium 1: "Mechanisms of Learning and Memory: from Molecules to Circuits"**

(Chairs: Hee-Sup Shin, Alcino J Silva)

Seth G N Grant

Protosynapse as the origin of the brain: insights from synapse proteome studies

Alcino J Silva

Molecular and cellular mechanisms of memory allocation in neuronetworks

Chris I de Zeeuw

Creating coordination in the cerebellum

Hee-Sup Shin

Involvement of the mediodorsal thalamus in extinction of fear memory

12:15 - 13:30 **Lunch**

13:30 - 15:00 **Outstanding Travel Awardees**

Alyssa Picchini

The contribution of neural stem cells and their lineages to the adult hippocampus

Christopher Kliethermes

A role for brain insulin receptors in the locomotor stimulant response to ethanol in *Drosophila melanogaster*

Igor Ponomarev

Amygdala transcriptome hints at cellular mechanisms underlying stress-enhanced fear learning, a rat model of posttraumatic stress disorder

15:00 - 15:30 **Coffee Break**

15:30 - 17:00 **IBANGS General Business Meeting**

Everyone is encouraged to attend

## Saturday 6th June

09:00 - 10:00 **Award Lecture**

Hans-Peter Lipp

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10:00 - 10:30 **Coffee Break**

10:30 - 12:30 **Symposium 2: "Evo-Behavio: genetic investigations of the mechanisms and evolution of behavior"**

(Chair: Josh Dubnau)

Mike Cressy  
Experimental evolution of rutabaga suppression: modeling epistasis underlying behavior

Joel Levine  
Genetic basis of social behavior in *Drosophila*

Jesse Weber  
Digging for the evolutionary and genetic basis of burrowing behavior in deer mice

Seth Ament  
Nutritional regulation of division of labor in honey bee colonies

Frederic Mery  
Transgenerational memory effect of aging in *Drosophila*

Partha Mitra  
Evolution of song culture in the zebra finch

12:30 - 13:30 **Lunch**

13:30 - 15:15 **Selected Talks Session 1**

Wulf Haubensak  
Fear control by inhibitory gating in the amygdala

Christopher Janus  
Modelling dementia in mice: genes, at-risk individuals, and placebo effect

Fred Van Leuven  
The amyloid-GSK3-tau-neurodegeneration connection revealed in transgenic and viral models

Doo-Sup Choi  
Bridge between hyper-glutamatergic state and hypo-CREB Activity in alcoholism: role of Neurogranin in ENT1 null mice

15:15 - 15:45 **Coffee Break**

15:45 - 22:00 **Poster Session**

18:30 **Buffet Dinner (*during poster session*)**

## **Sunday 7th June**

09:00 - 10:00 **Award Lecture**

Abraham Palmer  
Recombination happens: my personal journey towards unorthodoxy and self realization

10:00 - 10:30 **Coffee Break**

10:30 - 12:15 **Symposium 3: "Ultrasonic vocalizations as a social indicator in rodents"**

*(Chairs: Maria Luisa Scattoni, Enrico Alleva)*

Maria Luisa Scattoni  
When and with whom: mouse vocalizations in different social contexts

Garet Lahvis  
Do mouse vocalizations convey emotional states?

Markus Wöhr  
Ultrasonic communication in rodents: playback of high-frequency ultrasonic vocalization induces social approach

Robert Liu

Hearing ultrasounds: neural activity in auditory cortex correlates with communicative significance

Julia Fischer

Rodent ultrasonic communication: insights into the evolution of communication

12:15 - **Free Afternoon**

## **Monday 8th June**

09:00 - 10:00 **Keynote Lecture**

Ralph Greenspan

Sleep and Arousal in Drosophila

10:00 - 10:30 **Coffee Break**

10:30 - 12:15 **Symposium 4: "Reference Populations of Mice to Study Nervous System Function"**

*(Chair: Leo Schalkwyk)*

Maarten Loos

Behavioural and electrophysiological analyses in the BxD population

Sabine Spijker

Striatal proteomics & behavior in mice of the collaborative cross

Lianne Stanford

A genetic dissection of a behavioural repertoire using 50 mouse lines with mutations in postsynaptic proteins

Elissa Chesler

Multivariate genetic analysis for the functional genomics of behaviour

12:15 - 13:30 **Lunch**

13:30 - 15:15 **Selected Talks Session 2**

Albert Wong

Gene-environment interactions in the disc1 mutant mouse model for schizophrenia and depression

Marissa Ehringer

The role of Chrna6 and Chrb3 genes in alcohol behaviors – human, molecular, and mouse genetics

Amy Lasek

Anaplastic lymphoma kinase is a transcriptional target of LMO4 and estrogen that controls cocaine-induced behaviors

Alexander Garthe

Genotypic influence on adult neurogenesis related aspects of spatial learning among BXD strains

John Crabbe

Pleiotropic and specific genetic influences on different ethanol withdrawal severity signs in mice

15:15 - 15:45 **Coffee Break**

15:45 - 17:30 **Symposium 5: "Expanding the alcohol withdrawal phenotype: reports from alcohol genetics research"**

*(Chair: Lauren Milner)*

**John Crabbe**

Pleiotropic and specific genetic influences on different ethanol withdrawal severity signs in mice

**Lauren Milner**

Testing multiple withdrawal behaviors in two novel mouse models: effects of alcohol and quantitative trait genes

**David Overstreet**

Depressed-like behavior - that other affective phenotype of alcohol withdrawal

**Alan Rosenwasser**

Circadian running-wheel activity during withdrawal from chronic intermittent ethanol vapor exposure in mice

19:00 - **Closing Banquet**