## 11<sup>th</sup> International Neuroscience Winter Conference, March 31<sup>st</sup> – April 4<sup>th</sup>, 2009, Sölden, Austria

http://inwc.sambax.com

## **Preliminary Program Schedule**

<b>Tuesday March 31<sup>st</sup>, 2009</b> 15:00 – 17:00 17:00 – 17:30	Registration Welcome Cocktail
17:30 – 18:15	Opening Lecture: Seth Grant (UK) Evolution of synapses and the emergence of behaviour
Wednesday April 1 <sup>st</sup> , 2009	
08:15 – 09:00	Keynote Lecture: Andreas Lüthi (Switzerland) To fear or not to fear: dissecting emotional memory circuits in the amygdala
09:00 – 11:00	<b>Symposium:</b> Molecular mobility inside and outside the synaptic cleft: microscopic mechanisms behind synaptic signal formation
	Chair: Dmitri Rusakov (UK)
	Daniel Choquet (France): Lateral mobility of synaptic receptors Jeremy Henley (UK): Cellular trafficking of neurotransmitter receptors during synaptic plasticity Alexander Dityatev (Italy): Extracellular matrix and synaptic plasticity Dimitri Rusakov (UK): Electrodiffusion inside the synaptic cleft
11:30 – 13:00	Special Interest Session: Limbic systems integrating fear and anxiety
	Chair: Günther Sperk (Austria)
	Francesco Ferraguti (Austria): Neural basis of fear learning Nicolas Singewald (Austria): Reversal of impaired fear extinction: neural correlates
	Werner Sieghart (Austria): GABAA receptor subtypes modulating fear and anxiety
	Günther Sperk (Austria): NPY receptors in anxiety
13:00 – 14.30	Special Interest Session: Death and regeneration at the Huntington's war-front
	Chair: Jose Naranjo (Spain)
	Ernesto Carafoli (Italy): Calcium deregulation and mitochondrial stress in Huntington striatal neurons

regulation of their appearance

Jiayi Li (Sweden): Impaired neurogenesis in Huntington's disease

Philip M. Beart (Australia): GABAergic striatal neurons exhibit prominent caspase-independent, mitochondrially mediated programmed cell death

Britt Mellström (Spain): Calcium- and cAMP-insensitive DREAM mutants

Rosario Moratalla (Spain): Molecular phenotype of striatal TH+ neurons and the

regulate the onset of Huntington disease

10.00	Dissecting membrane traffic and molecules at nerve terminals
16:45 – 17:15	Coffee Break
17:15 – 19:15	Symposium: Neuronal migration and specification: novel concepts Chair: Michael Frotscher (Germany)
	Xiao-bing Yuan (China): Guidance of cortical radical migration by gradients of diffusible factors
	Victor Tarabykin (Germany): Molecular control of cell fate specification in the cerebral cortex
	Victor Borrell (Spain): Mechanisms for the tangential dispersion of radially migrating cortical neurons
	<b>Michael Frotscher</b> (Germany): Reelin controls the development of the cerebral cortex by stabilizing the leading processes of migrating neurons.
Thursday April 2 <sup>nd</sup> , 2009	
08:15 – 09:00	<b>Keynote Lecture: Robert Nitsch</b> (Germany) Phospholipid signaling at the glutamatergic synapse: A role for plasticity related gene 1 (PRG-1)
09:00 – 11:00	Symposium: Neuronal damage and repair in multiple sclerosis
	Chairs: Mathias Bähr and Frauke Zipp (Germany) Frauke Zipp (Germany): Neuronal damage and repair in the inflamed central
	nervous system
	Mathias Bähr (Germany): Neuroprotective strategies in MS  Jacqueline Trotter (Germany): Oligodendrocyte and myelin fate in inflammation of the brain
	Heinz Wiendl (Germany): Modulation of CNS degeneration and inflammation by ion channels
11:30 – 13:00	<b>Special Interest Session:</b> Biomaterials and stem cells for treatment of spinal cord injury
	Chair: Eva Sykova (Czech Republic) (Chair)
	<b>Zheng Gang Zhang</b> (USA): Scaffolds promote recovery of function after traumatic brain injury
	<b>Eva Sykova</b> (Czech Republic): Stem cells and biomaterials - combined therapy for spinal cord injury
	Gary Brook (Germany): Development of collagen-based scaffolds for promoting nervous tissue repair
	Rebecca Matsas (Greece): Myelinating peripheral glia for repair of the injured spinal cord
16:00 – 16:45	Keynote Lecture: Pierre-Marie Lledo (France) Synaptogenesis of adult-born neurons in the mouse olfactory bulb
16:45 – 17:15	Coffee Break

**Keynote Lecture: Tim Ryan** (USA)

16:00 - 16:45

17:15 – 19:15 **Symposium:** Adult neurogenesis

Chairs: Herbert Zimmermann and Stephan Schwarzacher (Germany)

**Luca Bonfanti** (Italy): Adult neurogenesis in mammals, with and without germinal layers

**Sebastian Jessberger** (Switzerland): Molecular stem cell diversity in the adult brain

**H. Georg Kuhn** (Sweden): Growth factor regulation of neurogenesis in the adult mammalian brain

**Herbert Zimmermann** (Germany): Purinergic signaling in adult subventricular zone neurogenesis

Speaker to be announced: Influence of learning on hippocampal neurogenesis

19:30 Gala Dinner

## Friday April 3<sup>rd</sup>, 2009

08:15 – 09:00 **Keynote Lecture: Magdalena Götz** (Germany)

Glial cells as neural stem cells: new views on reactive gliosis and repair

09:00 – 11:00 **Symposium:** Control of neurotransmitter release

Chairs: Jens Rettig and Nils Brose (Germany)

**Michela Matteoli** (Italy): The role of SNAP-25 in vesicle fusion and calcium modulation

**Christian Rosenmund** (USA): Live imaging of Munc13 function in synaptic vesicle priming

**Jens Rettig** (Germany): Quantifying the calcium dependence of the synaptic vesicle priming process by TIRF microscopy

**Nils Brose** (Germany): SNARE regulation by Complexins in synaptic vesicle fusion

11:00 – 11:30 Coffee Break

11:30 – 13:00 **Special Interest Session:** Fat times for neuronal signaling: the roles of protein palmitoylation in neural development and synaptic activity

Chairs: Alexander Dityatev (Italy) and Evgeni Ponimaskin (Germany)

**Evgeni Ponimaskin** (Germany): Palmitoylation of adhesion molecules and modulation of neuronal morphology

**Nicholas Davis** (USA): Neuronal palmitoyl-proteomics: Dynamic modulation of palmitoylation at the synapse

**Masaki Fukata** (Japan): Synaptic palmitoylation of PSD-95 mediates AMPA receptor homeostasis

16:00 – 18:00 **Symposium:** Control of estrogen production in the brain

**Chair: Gabriele M. Rune** (Germany)

**Luke Remage-Healey** (USA): Local changes in steroid production in the forebrain during social interactions

**Jacques Balthazart** (Belgium): Genomic and non-genomic controls of estrogen synthase (aromatase) in the brainGabriele

**M. Rune** (Germany): Aromatase activity in hippocampal dendritic spines **Deepak P. Srivastava** (USA): Molecular mechanisms underlying estrogen-induced wiring plasticity

18:00 – 20:00 **Poster Session** 

Saturday April 4<sup>th</sup>, 2009

08:15 – 09:00 **Keynote Lecture: Menahem Segal** (Israel)

Stress, Plasticity and the hippocampus

09:00 – 11:00 Closing Symposium: Superresolution meets neurobiology: studying live

synapses beyond the diffraction limit

Chair: Valentin Nägerl (Germany)

Antoine Triller (France): Synapse metastability and short term plasticity

Olivier Thoumine (France): Imaging of the dynamic assembly of functional post-

synapses triggered by neurexin/neurololigin binding

Katrin Willig (Germany): Principles and applications of far-field nanoscopy using

stimulated emission depletion (STED)microscopy

Valentin Nägerl (Germany): Live-cell imaging of synapses by STED microscopy

End of the meeting