Meeting of the GBM study group "Molecular Neurobiology"



## "Perspectives in Molecular Neurobiology"

September 13-15, 2012

RUB Veranstaltungszentrum, Room 2b, Bochum

## **Preliminary Program:**

## Thursday:

Indioday	
16.00	Registration
17.00	Opening by Rolf Heumann
17.15	Eckart Gundelfinger, Magdeburg (DE)
	Molecular organization and plasticity of the cytomatrix at the active
	zone
18.15	Break
18.30	Naoyuki Inagaki, Nara (JP)
	Mechano systems biological analysis of neuronal polarity formation
19.30	Get-together
<u>Friday:</u>	
Session 1:	Live cell imaging in the study of neuronal development and
	neurodegeneration (Chair: Roland Brandt)
9.00	Roland Brandt, Osnabrück (DE)
	Imaging Tau's interactions in living neurons
9.30	Lucia Poggi, Heidelberg (DE)
	Developing neuronal diversity through lineage and asymmetric cell
	division
10.00	Christian Tackenberg, Zürich(CH)
	Neuronal and synaptic toxicity of beta-amyloid and tau – Role of
	NR2A- and NR2B-NMDA receptors
10.20	Progress report selected from Poster Abstracts
10.30	Break
Session 2:	Regulators participating in differentiation and connectivity of
11.00	neural cells (Chair: Gerald Thiel)
11.00	<b>Gerald Thiel</b> , Homburg (DE)
	Signaling and gene transcription following activation of G protein-
11.30	coupled designer receptors
11.30	<b>Ulrich Boehm</b> , Homburg (DE)
	<i>Neural circuitry underlying reproductive behavior and physiology in the central nervous system</i>
11.50	Poster Abstract
12.00	Lunch Break & Poster session & Business Meeting
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Session 3:	Intracellular transport and signaling (Chair: Rolf Heumann)
15.00	Michael Sendtner, Würzburg (DE)
	Postal Codes for axonal mRNA transport in neurons
15.30	Volkmar Lessmann, Magdeburg (DE)
	BDNF signaling in the formation, maturation and plasticity of
	glutamatergic and GABAergic-synapses

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16.00	Christoph Goemans, Bochum (DE) The role of the mitochondrial protein import translocases
16.20 16.30	in apoptotic and non-apoptotic cell death Poster Abstract Break
Session 4:	Peroxisome proliferator-activated receptors, a new concept for transcription factor control of neurosignaling and
17.00	neuroprotection (Chair: Georg Reiser) Georg Reiser, Magdeburg (DE) The new model of a PPAR triad in the brain with (PPAR) $\beta/\delta$ as integrator
17.30	Luisa Minghetti, Rome (IT) PPAR, mitochondrial functions and calcium
18.00	Michael Heneka, Bonn (DE) PPAR and protection in ischemia
18.20 18.30	Poster Abstract Dinner & More
<u>Saturday:</u>	
Junior-GBM	
9.00	Kai Erdmann, Sheffield (UK) Molecular mechanism of Lowe syndrome
9.30 9.45	Poster Abstract Poster Abstract
Session 5:	Myelin (Chair: Klaus Nave)
10.00	<b>Klaus Nave</b> , Göttingen (DE) <i>Myelinating glial cells – an introduction</i>
10.10	<b>Michael Wegner,</b> Erlangen (DE) <i>From genes to chromatin: The multiple roles of Sox10 during myelination</i>
10.40	Hauke Werner, MPI Göttingen (DE) Proteomic and genetic dissection of myelination
11.00	<b>Mika Simons,</b> MPI Göttingen (DE) Mechanisms of myelin membrane growth
11.30	Break and Poster discussion
Session 6:	Stem cells with potential for neuronal regenerative therapies
12.00	(Chair: Barbara Kaltschmidt) Jared Sterneckert, Münster (DE) Human Neural Plate Border Stem Cells for High-Throughput Disease Modelling
12.30	Alexander Storch, Dresden (DE) Stem cell-based therapies in Parkinson's disease: future hope or current treatment option?
13.00	<b>Darius Widera</b> , Bielefeld (DE) Highly efficient generation of glutamatergic and dopaminergic neurons from human inferior turbinate stem cells
13.20	Poster Abstract
13.30	Closing Remarks & Poster prize

**RESEARCH** DEPARTMENT of Neuroscience





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