

DFG-Priority Programme 1176 – Final Symposium in Kaiserslautern Germany
**THE ROLE OF NEUROGLIA FOR THE FORMATION,
 FUNCTION AND PLASTICITY OF SYNAPSES**
at the Fraunhofer-Centre, 26. – 29. August 2010

THURSDAY, 26. AUGUST 2010

14.30	<i>Welcome, Coffee & Tea</i>
14.45	Welcome addresses

Session 1: System, Structure & Organization

15.00	<i>Philip Haydon, Boston, MA</i> The astrocyte as a modulator of sleep and its impact on synaptic function in health and disease
15.30	<i>Frank Pfrieger, Strasbourg</i> Synapse-Glia Interactions: Models Matter!
16.00	<i>Coffee & Tea</i>
16.30	<i>Andreas Faissner, Bochum</i> Regulation or perineuronal nets (PNNs), synaptogenesis and synaptic plasticity by glial-derived extracellular matrix
17.00	<i>Renato Frischknecht, Magdeburg</i> From juvenile to adult plasticity: a role for the brain's extracellular matrix
17.30	<i>Daniela Dietrich, Magdeburg</i> Characterization of astroglial proteome dynamics using cell-specific proteomic profiling
18.00	<i>Benedikt Berninger, München</i> Directing astroglia from the cerebral cortex into subtype specific functional neurons
19.00	<i>Welcome Buffet at Fraunhofer Centre</i>

FRIDAY, 27. AUGUST 2010

09.00	<i>Swen Hülsmann, Göttingen</i> Astrocytes in the respiratory network, anything special about them?
09.30	<i>Andreas Reichenbach, Leipzig</i> Interactions of Müller glial cells with retinal synapses
10.00	<i>Helmut Kettenmann, Berlin</i> Neuron-astrocyte interactions in the barrel cortex
10.30	<i>Coffee & Tea</i>

Session 2: Release of transmitters

11.00	<i>Nils Brose, Göttingen</i> Regulation of neurotransmitter release: speed and accuracy matter
11.30	<i>Yoshinori Moriyama, Okayama, Japan</i> The role of vesicular nucleotide transporter in neuron/glia interaction
12.00	<i>Robert Zorec, Ljubljana, Slovenia</i> Properties of regulated exocytosis and vesicle traffic in astrocytes
12.30	<i>Martin Oheim, Paris</i> Do they or don't they? Imaging gliotransmitter release
13.00	<i>Lunch at the bistro (in FHZ)</i>
14.00	<i>Excursion, Evening free to explore the city of Kaiserslautern</i>

SATURDAY, 28. AUGUST 2010

Session 2: Release of transmitters (continued)

09.00	<i>Vladimir Parpura, Birmingham, AL</i> Exocytotic release of glutamate from astrocytes
09.30	<i>Christian Lohr, Hamburg</i> Role of extrasynaptic transmitter release in neuron-glia communication and neurovascular coupling
10.00	<i>Eliana Scemes, New York</i> Pannexin-mediated ATP release from astrocytes
10.30	<i>Coffee & Tea</i>

Session 3: Synaptic transmission and plasticity

11.00	<i>Schuichi Koizumi, Yamanashi, Japan</i> Gliotransmitter release and regulation of synaptic transmission by astrocytes
11.30	<i>Shumin Duan, Shanghai, China</i> Glial cells and synaptic plasticity
12.00	<i>Alexej Verkhratsky, Manchester, GB</i> Purinergic transmission in neuronal-glia networks
12.30	<i>Nathalie Rouach, Paris</i> Astroglial connexin30 controls synaptic strength
13.00	<i>Photo shooting in front of FHZ</i>
13.15	<i>Lunch (Snacks)</i>
14.00	<i>Mitchel Chesler, New York</i> Regulation and modulation of extracellular pH and its impact on excitatory synaptic transmission
14.30	<i>Christine Rose, Düsseldorf</i> Synaptically-induced sodium transients in glial cells
15.00	<i>Elena B. Pasquale, La Jolla, CA</i> Neuron-glia communication through EphA4 and ephrin-A3
15.30	<i>Sonia Paixão, München-Martinsried</i> Neuroglia interaction via Eph/ephrins modulates synaptic plasticity
16.00	<i>Coffee & Tea</i>

Session 4: Metabolism & Signaling

16.30	<i>Arne Schousboe, Kopenhagen, Denmark</i> Glycogen, glucose and lactate as energy substrates at the synapse
17.00	<i>Johannes Hirrlinger, Leipzig</i> The redox state of astrocytes: regulation and functional implications
17.30	<i>Joachim Deitmer, Kaiserslautern</i> Glucose uptake and distribution in the mouse brain
18.00	<i>Felipe Barros, Valdivia, Chile</i> Second-to-second modulation of local energy metabolism in response to synaptic activity
19.30	<i>Symposium Banquet at Restaurant "Das Brauhaus an der Gartenschau"</i>

SUNDAY, 29. AUGUST 2010

09.30	<i>Frank Kirchhoff, Homburg</i> AMPA receptors in Bergmann glia and their impact for cerebellar function
10.00	<i>Christian Steinhäuser, Bonn</i> Hippocampal NG2 cells display multiple calcium-signaling pathways and highly motile processes
10.30	<i>Coffee & Tea</i>
11.00	<i>Martin Theis, Bonn</i> Expression and function of CPEB translational regulators in astrocytes and NG2 glia
11.30	<i>Sergej Kirischuk, Mainz</i> Glutamate and GABA transporters replace glutamate for GABA in neonatal cerebral cortex
12.00	<i>Volker Eulenburg, Erlangen</i> Glial GlyT1 function is essential for early postnatal life but dispensable in adult mice
12.30	<i>General Discussion</i>
13.00	<i>End of Symposium & Farewell (Lunch Package)</i>