

Annual meeting
DFG Priority Programme

Functional Specialisation of Neuroglia as Critical Determinants of Brain Activity

Berlin | Oct 9 - 11, 2016





Venue: **NH Collection Hotel**

Friedrichstrasse 96, 10117 Berlin

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Room Verdi (first floor)

<http://www.nh-hotels.de/hotel/nh-collection-berlin-friedrichstrasse>

Scientific Program

Sunday, October 9, 2016

14:00 – 15:00	Registration Christine Rose/Frank Kirchhoff Opening Remarks
15:00 – 15:30	Bianca Brunne <i>Center of Molecular Neurobiology</i> <i>Institute for Structural Neurobiology</i> Radial glial-like cells and Reelin in development and adulthood
15:30 – 16:00	Christine R. Rose <i>Institute of Neurobiology</i> <i>Heinrich Heine University Duesseldorf</i> Developmental and regional heterogeneity in astrocyte sodium signalling
16:00 – 16:30	Christian Steinhäuser <i>Institute of Cellular Neurosciences</i> <i>Rheinische Friedrich Wilhelms-Universität, Bonn</i> Deletion of Kir channels and AMPA receptors as a tool to study NG2 glia-neuron interactions
16:30 – 17:00	Coffee break
16:30 – 17:00	Jacqueline Trotter <i>Molecular Biology</i> <i>Johannes Gutenberg-University, Mainz</i> Local protein translation in NG2 cells

17:00 – 17:30	<p>Dirk Dietrich <i>Department of Neurosurgery University Clinic Bonn</i></p> <p>NG2 glial cells integrate synaptic input in global and dendritic calcium signals</p>
17:30 – 18:00	<p>Magdalena Götz <i>Ludwig Maximilians University Munich Physiological Genomics</i></p> <p>Region-specific differences in astrocyte plasticity in the mouse forebrain</p>
18:00 – 22:00	<p>Time for dinner and discussions in adjacent restaurants</p>

Monday, October 10, 2016

9:00 – 9:30	<p>Joachim W. Deitmer <i>Technical University Kaiserslautern Department of Biology, General Zoology</i></p> <p>News out of the glia cuisine: Does bicarbonate facilitate glucose utilization in astrocytes?</p>
9:30 – 10:00	<p>Young Investigator presentation</p> <p>Anne Volkenhoff <i>Westfälische Wilhelms-Universität Münster Institute of Neuro- and Behavioral Biology</i></p> <p>Glial glycolysis is essential for neuronal survival in <i>Drosophila</i></p>
10:00 – 10:30	<p>Coffee break</p>
10:30 - 12:00	<p>Poster session I</p>
12:00 – 13.00	<p>Lunch</p>

13:00 – 14.30	<p>Symposium „Career Perspectives - not only for women“ <i>Daniela Dietrich (University of Magdeburg)</i> How to develop a scientific career in- and outside of academia</p> <p><i>Elly Hol (UMC Utrecht Brain Center)</i> European career options</p> <p><i>Constanze Seidenbecher (LIN, Magdeburg)</i> Careers in science and beyond</p>
14:30 – 15:00	Coffee break
15:00 – 15:30	<p>Rainer Pielot <i>Leibniz-Institut für Neurobiologie/SPP 1757</i> New databases at the SynProt portal documenting for the proteomes of astrocytes and synapses: PreProt and AstroProt</p>
15:30 – 16:00	<p>Frank Kirchhoff <i>Molecular Physiology, CIPMM, University of Saarland</i> Archive for image sets of transgenic expression of fluorescent proteins in glia</p>
16:00 – 16:30	Coffee break
16:30 – 18:00	Poster session II
19:00	Walk to AquaDom & Sealife, Dinner

Tuesday, October 11, 2016

9:00 – 9:30	Anje Grosche <i>Institute of Human Genetics at the University of Regensburg</i> Heterogeneity in retinal Müller glial cell population – regional and disease related aspects
9:30 – 10:00	Lars Kürschner <i>Life and Medical Sciences Institute (LIMES)</i> <i>University of Bonn</i> Differential fatty acid metabolism in the hypothalamus
10:00 – 10:30	Coffee Break
10.30 – 11.15	Helmut Kettenmann <i>Cellular Neurosciences, Max Delbrück Center of Molecular Medicine</i> History of glia research
11:15 – 12:00	Elly Hol <i>UMC Utrecht Brain Center Rudolf Magnus</i> Reactive astrocytes in Alzheimer Diseases - molecular changes and functional implications
12:00 - 12:30	Christine Rose/ Frank Kirchhoff Concluding remarks
12:30 - 13:00	Lunch and departure

Members of the SPP 1757

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Poster

- 1 Jasmine Pahle, Jo Kristin Welzel, Michael Frotscher and Bianka **Brunne**: Reelin and radial glia-like cells in the dentate gyrus
- 2 Yvonne Schwarz and Dieter **Bruns**: v-SNARE mediated gliotransmitter release from astrocytes coordinates synaptic signaling
- 3 Chris **Bolychevsky**, Wenjing Sun and Dirk **Dietrich**: Clustering of AMPA receptors along NG2 glial cell dendrites
- 4 Daniela C. **Dieterich**: Role of protein translation and protein turnover for astrocyte heterogeneity in the hippocampus, striatum and prefrontal cortex
- 5 Wenjing **Sun** and Dirk **Dietrich**: Role of A-type K⁺ currents in synaptic integration and calcium signaling in NG2 glial cells
- 6 Nicole Unger and Leda **Dimou**: The heterogenous nature of NG2-glia
- 7 Ewa Bres, Ramona Romeo, Ina Schäfer and Andreas **Faissner**: Heterogeneity of LRP1 Functions in Distinct Glial Subpopulations
- 8 Ina **Schäfer**, Ewa Bres and Andreas **Faissner**: Role of LRP1 in radial glia and NG2 glia development
- 9 Markus May and Andreas **Faissner**: Influence of the glycoprotein tenascin-C on the cell cycle of spinal cord progenitors
- 10 Thomas Pannicke, A. Karl, H. Kuhrt, M. Reisenhofer, T. I. Chao, Mike **Francke** and Andreas **Reichenbach**: Comparative studies of vertebrate retinal Müller glial cells and their contribution to retinal axon envelopment
- 11 Sandra **Goebbels**: The effects of aging on wild type and CNP1 mutant myelin
- 12 Stefanie **Ohlig** and Magdalena **Götz**: Region-specific differences in astrocyte plasticity in the mouse forebrain
- 13 Michel K. Herde and Christian **Henneberger**: Perisynaptic astroglial glutamate uptake is determined by synapse size and synaptic plasticity
- 14 Daniel Minge and Christian **Henneberger**: Interdependence of astrocyte morphology and synaptic release probability in the hippocampal stratum radiatum
- 15 Ulrike Winkler and Johannes **Hirrlinger**: Analysis of astrocyte metabolic heterogeneity in situ
- 16 Carmen V. Bohn, Hannah M. Jahn, Xianshu Bai, Anja Scheller and Frank **Kirchoff**: Impact of the glial P2Y1 receptor under pathological conditions - Role of P2Y1 receptors in cortical astrocytes and cerebellar Bergmann glia
- 17 Gebhard Stopper, Michael Schweigmann, Laura Schlosser, Anja Scheller, Klaus Koch and Frank **Kirchoff**: Novel technologies for recording spontaneous and evoked signals in the brain of awake mice

- 18 Laura Schlosser, Xianshu Bai, Hannah M. Jahn, Laura C. Caudal, Anja Scheller and Frank **Kirchhoff**: Analysis of astrocyte-specific and inducible GABA_B receptor deletion in the mouse brain
- 19 Nils **Otto**, Kerem Yildirim, Silke Thomas, Dimitri Berh, Benjamin Risse and Christian **Klämbt**: Modulation of larval neural locomotion-behavior by glial cells
- 20 Griemsmann S, Erlenhardt N, Beyer F, Jadasz J, Küry P, **Klöcker** N: Glutamate Receptors in Adult Neural Stem Cells and Glial Cell Cultures
- 21 Mölders A, Menke R, Orth A, **Klöcker** N: Heterogeneity of astrocytic AMPA Receptors
- 22 Wen Ping Kuo-Elsner, Carsten Frühbeis, Dominik Fröhlich, Christina Müller, Anja Scheller, Frank Kirchhoff, Leticia Peris, Annie Andrieux, Jacqueline Trotter and Eva-Maria **Krämer-Albers**: The role of Exosomes in neuron-glia communication and neuroprotection
- 23 Martin Auber, Hannah Mende, Oliver Drechsel, Dominik Fröhlich, Ping Kuo-Elsner, Carsten Frühbeis, Eva-Maria **Krämer-Albers**: Analysis of small RNA in oligodendroglial exosomes
- 24 Felix Beyer, Janusz J. Jadasz, Leda Dimou, Nirmal Raman Kannaiyan, Moritz Rossner, Stephanie Griemsmann, Nikolaj Klöcker and Patrick **Küry**: Oligodendroglial fate of adult neural stem cells? — Intrinsic p57kip2 dependent- vs. extrinsic brain niche signaling effects
- 25 Janusz J. Jadasz, Lena Tepe, Felix Beyer, Iria Samper Agrelo, Rainer Akkermann, Lucas-Sebastian Spitzhorn, James Adjaye and Patrick **Küry**: Same same but different — heterogeneous population of adult NSC-derived oligodendrocytes
- 26 Antonia Beiersdorfer and Christian **Lohr**: Panglial gap-junctional coupling mediates calcium signalling between olfactory bulb glial cells
- 27 Andrea Trevisiol, Johannes Hirrlinger and Klaus-Armin **Nave**: Monitoring ATP levels in electrically active myelinated axons
- 28 Rodrigo Lerchundi & Christine R. **Rose**: Astrocyte sodium signals directly correlate with changes in cellular ATP levels
- 29 Daniel Ziemens, Behrouz Moshrefi-Ravasdjani & Christine R. **Rose**: Regional Heterogeneity in Astrocyte Sodium Signalling
- 30 Gesine **Saher**: Analysis of glial metabolism in response to ketogenic diet 34
Mika **Simons**: Molecular mechanisms and functional implications of heterogeneity in myelin structure
- 31 Camille Philippot and Christian **Steinhäuser**: Structural and functional analyses of panglial coupling networks in the thalamus and its impact on brain signalling

- 32 Aline Timmermann and Christian **Steinhäuser**: Deletion of Kir channels and AMPA receptors as a tool to study NG2 glia-neuron interactions
- 33 Hatice Yigit, Sandra Schick, Abhijeet Pataskar, Jens Hartwig, Vijay Tiwari and Jacqueline **Trotter**: Revealing the locally translated mRNA repertoire at synapses between neurons and NG2-expressing glial cells
- 34 Julio **Vera-Gonzalez** and Martina Cantone: Network-based data analysis platform
- 35 Kathrin Truch, Julio Vera-González and Michael **Wegner**: Differences between adult and embryonal oligodendrocyte precursor cells
- 36 Simone Reiprich, Melanie Küspert, Martina Cantone, Julio Vera-González and Michael **Wegner**: Deciphering a differential regulatory network in adult and embryonal OPCs
- 37 Michael **Wegner**: The role of transcription factor Zfp276 in glial development

Monday, October 10, 2016

19.30 – AquaDom & SeaLife



