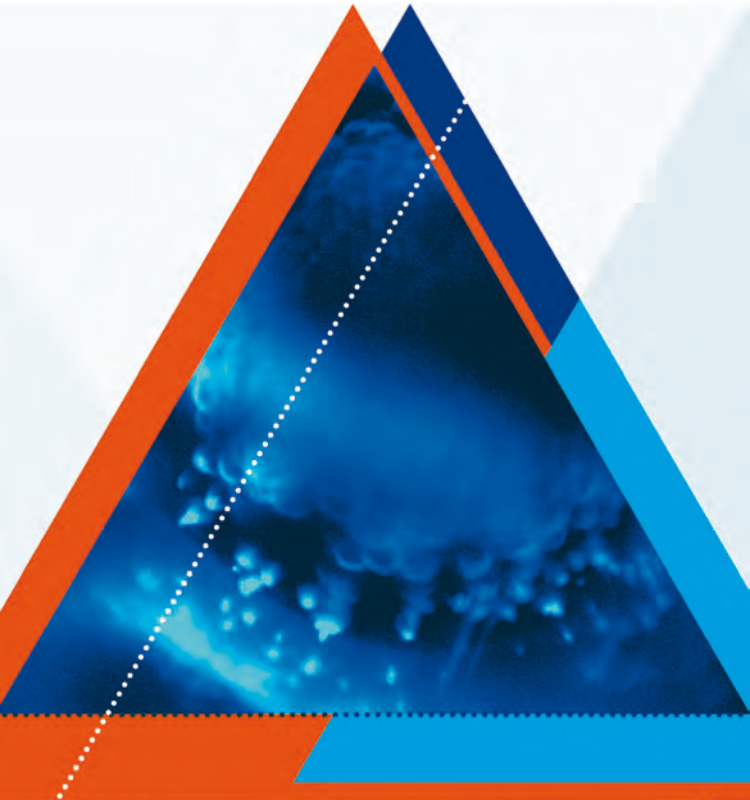


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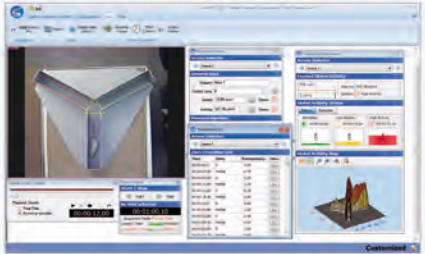
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German Neuroscience Society**

March 13–16, 2013

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Welcome Address

We are pleased to welcome you to the 10th Göttingen Meeting of the German Neuroscience Society. We also celebrate this year the 20th anniversary of the German Neuroscience Society. The origins of this meeting go back as far as 1973, when the late Otto Creutzfeldt (1927 – 1992) together with Ernst Florey (1927 – 1997) organized, as a small expert meeting, the initial Neurobiology Conference in Göttingen. Since then, the conference has steadily grown in size and has significantly broadened in spectrum. It now covers a wide range of research fields in the neurosciences including vertebrate and invertebrate systems, molecular, cellular and systemic neurobiology, neuropharmacology, developmental, computational, behavioral, cognitive and clinical neuroscience. With many high-ranking proposals for symposia and excellent suggestions for keynote speakers, it was again difficult for the Program Committee to select the contributions that you find in the final program. We are very happy and pleased that we could attract such high profile scientists to our meeting and we are very much looking forward to their presentations. We would like to especially highlight the featured lectures, some of them with a long-standing conference tradition such as the Roger Eckert Lecture, the Otto Creutzfeldt Lecture, the Ernst Florey Lecture or the Zülch Lecture. We also have two new lectures at this meeting. The first is the Norbert Elsner Lecture to honor and commemorate the long-time organizer of the Göttingen Neurobiology Conference and internationally renowned insect neuroethologist Norbert Elsner, who died in 2012 and to whom the Society owes great debt. The second is the Hertie Lecture, generously sponsored by the Hertie Foundation, a long time supporter of the German Neuroscience Society that, for example, funds the Internet portal “Das Gehirn” (www.dasGehirn.info). However, this meeting would not be successful without the many important contributions by young researchers who present and discuss their findings in front of their posters. We have received over 850 poster submissions, many of which are first authored by young scientists. We have also encouraged students to participate in the symposia with a short communication and have reserved special slots for them at this meeting. We thank all of them for their interest in the meeting and their invaluable contributions. To better accommodate all posters we have increased the number of poster sessions from 6 to 8 and have added two sessions on Wednesday. The meeting will now end on Saturday instead of Sunday. In addition, we will have lectures by two young neuroscientists who have been awarded the scientific prizes of the German Neuroscience Society, the TILL Photonics Technology prize for excellent achievements in developing novel techniques in neuroscience, and the Schilling-Forschungspreis, which is donated by the Schilling Foundation. We would like to take this opportunity to deeply thank all sponsors. In particular,

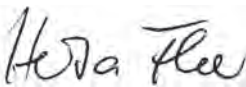
TILL Photonics and the Schilling Foundation, but also all other sponsors, and especially the companies which present their products in the foyer, for their generous support of the meeting. Without them many amenities such as the free buffets and the Neuro-Party night would not have been possible! We also thank the University of Göttingen for providing the conference center for the meeting and in particular the Deutsche Forschungsgemeinschaft (DFG), whose financial support allowed us to invite many internationally renowned scientists to this conference.

An essential component of a successful meeting is the local organizing team. We thank Inga Zerr and all the dedicated co-workers of the local organizer at the Prion Research Group in the Department of Neurology in Göttingen for their excellent work and also Matthias Bähr as Head of Department for making it possible. Last but not least, we would like to thank all the volunteers who have helped to organize this conference in many ways and who make it enjoyable for all of us. The dedication and the help of the Berlin office, namely Stefanie Korthals and Meino Gibson, is instrumental in enabling us to generate the hospitable and interactive ambience so characteristic of the Göttingen meeting.

The full contents of the meeting, including abstracts, will be provided again on CD, which is a supplement to the society's journal *Neuroforum* and thus citable. In addition, a program booklet is available upon request. Furthermore, an itinerary planner is available on the meeting website (<https://www.nwg-goettingen.de/2013/>) which allows generating individual timetables.

Finally, we would like to remind you that the Göttingen meeting is biannual and alternates with the FENS Forum, which will be held in Milan from July 5 to 9, 2014, hosted by the Italian Neuroscience Society. We would like to encourage you to contribute to this large-scale European neuroscience meeting as well and hope that you will support the Milan conference as much as the last FENS Forum in Barcelona, which was a great success not least in part due to the many excellent contributions from Germany. We hope to see you there and in Göttingen at the next meeting of the German Neuroscience Society on March 18 to 21, 2015.

Now we wish you an exciting conference and a pleasant stay in Göttingen,



Prof. Dr. Herta Flor



Prof. Dr. Inga Zerr



Acknowledgement

The German Neuroscience Society (NWG) and the organizers of this meeting gratefully acknowledge the collaboration and the financial support of the following partners:

Deutsche Forschungsgemeinschaft (DFG)

Bereich Humanmedizin
Georg-August-Universität Göttingen

Herrmann und Lilly Schilling-Stiftung für
medizinische Forschung im Stifterverband für die
Deutsche Wissenschaft, Essen

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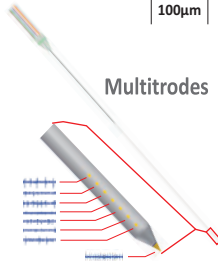
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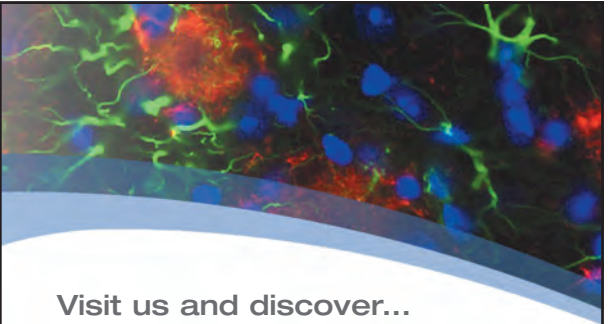
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Young Investigator Stipends

Travel grants from the German Neuroscience Society

The following applicants were selected for a travel grant to attend the 10th Göttingen Meeting of the German Neuroscience Society (March 13 – 16, 2013) by the German Neuroscience Society amounting to 300 Euros:

- Luc Arnal, (New York, USA)
- Karelle Benardis (Hannover, Germany)
- Felix Benninger (Petach Tikva, Israel)
- Verena Buchholz (Nijmegen, The Netherlands)
- Johanna Derix (Freiburg, Germany)
- Erhan Genç (Bochum, Germany)
- Nicole Hellbach (Freiburg, Germany)
- Susanne Hoffmann (München, Germany)
- Dragan Hrcic (Belgrade, Serbia)
- Christine Mißbach (Jena, Germany)
- Doreen Möckel (Frankfurt/Main, Germany)
- Lisa Moeller (Aachen, Germany)
- Valentina Mosienko (Berlin, Germany)
- Guanxiao Qi (Jülich, Germany)
- Nicole Rosskothén-Kuhl (Freiburg, Germany)
- Lena Veit (Tübingen, Germany)
- Hongying Wei (Kassel, Germany)





Young Investigator Orals in a Symposium

Each symposium has two slots reserved for Young Investigator Presentations. These were selected from the submissions by the organizer(s) of the symposia:

(The following students were selected to give a short communication)

- Jan Marek Ache** (Bielefeld) - Symposium 22
Andres Agudelo-Toro (Göttingen) - Symposium 4
Mirjam Appel (Planegg/Martinsried) - Symposium 10
Stephanie Badde (Hamburg) - Symposium 15
Eva Berg (Köln) - Symposium 22
Abhilash Dwarakanath (Tübingen) - Symposium 15
Ahmed El Hady (Göttingen) - Symposium 9
Juan Daniel Flórez Weidinger (Göttingen) - Symposium 5
Falko Fuhrmann (Bonn) - Symposium 19
Erhan Genç (Bochum) - Symposium 10
Özgür Genç (Lausanne, Switzerland) - Symposium 7
Franziska Greifzu (Göttingen) - Symposium 5
Iris Grothe (Frankfurt/Main) - Symposium 24
Patricia S. Guerreiro (Lisbon, Portugal) - Symposium 14
Cordelia Imig (Göttingen) - Symposium 7
Pierre Junca (Gif-sur-Yvette, France) - Symposium 13
Robin Kemmler (Tübingen) - Symposium 2
Antje Kilius (Freiburg) - Symposium 3
Adrian Klein (Bonn) - Symposium 9
Viktoria Klippenstein (Berlin) - Symposium 18
Kristina Lippmann (Berlin) - Symposium 20
Alejandro Mendoza Schulz (Göttingen) - Symposium 6
Stephanie Miceli (Nijmegen, The Netherlands) - Symposium 11
Jorge Leon Morales-Quezada (Boston, USA) - Symposium 4
Valentina Mosienko (Berlin) - Symposium 11
Torsten Neher (Bochum) - Symposium 3
Sonja Neumann (Frankfurt/Main) - Symposium 2
Martin Puskarjov (Helsinki, Finland) - Symposium 19
Daniel Rolke (Potsdam) - Symposium 8
Natalie Rotermund (Hamburg) - Symposium 23
Stefan Schaffelhofer (Göttingen) - Symposium 24
Lisa Scheunemann (Berlin) - Symposium 13
Swathi Srivatsa (Berlin) - Symposium 16
Juliane Tinter (Wien, Austria) - Symposium 6
Julia Veit (Fribourg, Switzerland) - Symposium 1
Lysann Wagner (Leipzig) - Symposium 23
Anne Christine Wolfes (Göttingen) - Symposium 20



Introductory Remarks to Satellite Symposium

3rd Schram Foundation Symposium „Neuronal differentiation, synapses and neural circuits“

*Renato Frischknecht and Alexander Gottschalk (Magdeburg
and Frankfurt/Main)*

In 2000, Dr. Armin Schram generously donated part of his assets to establish a new Foundation, the Schram Foundation, in order to support basic research in the neurosciences in Germany. Meanwhile, 15 different projects have been funded, chosen in a highly competitive process. The first and second symposia of the Foundation, held in 2009 and 2011 as Satellites to the biennial meeting of the German Neuroscience Society, were very well attended and provided a platform to present and discuss projects, which had been supported by the Schram Foundation. In addition, keynotes by prominent neurobiologists were given.

The third symposium will also follow this outline, and cover aspects of synapse structure and dynamics, as well as mechanisms of neurogenesis, differentiation and circuit function. Two keynote lectures will open and close the symposium: Daniel Choquet (Bordeaux, France) will discuss the regulation of post-synaptic AMPA receptor trafficking in health and disease. Harvey McMahon (Cambridge, UK) will address the function of proteins that mediate alterations in membrane shape, in synaptic transmission and beyond.

The keynotes frame two sessions: The first one, about molecular aspects of plasticity and synaptic function, will include Renato Frischknecht (Magdeburg), who will report on the influence of the extracellular matrix on synaptic plasticity and network activity, followed by Volker Haucke (Berlin), who will capitalize on mechanisms and proteins of the endocytic machinery involved in synaptic vesicle recycling and protein sorting. The second session, "Neurogenesis, Differentiation and Networks", will feature Dorothea Schulte (Frankfurt), presenting new insights about the role of TALE transcription factors in regulating adult neurogenesis. Jens Schwamborn (Münster), will portray his work on neural stem cell differentiation, and Marlene Bartos (Freiburg) will shed light on the role of perisomatic versus dendritic inhibition in microcircuits of the dentate gyrus.

The symposium will be heralded and faded out by remarks of Heinrich Betz (Heidelberg/Göttingen), Eckart Gundelfinger (Magdeburg) and Armin Schram (Hamburg). The Symposium will be held in the lecture hall of the Max Planck Institute for Experimental Medicine in Göttingen (<http://www.em.mpg.de/index>). Attendance is complimentary.



Deutsches
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Satellite Symposium

Tuesday, March 12, 2013

13:00 – 19:00, Lecture Hall of MPI for
Experimental Medicine (Hermann-Rein-Str. 3, Göttingen)

Chair: Renato Frischknecht and Alexander Gottschalk

- 13:00 **Opening Remarks**
(Heinrich Betz / Eckart D. Gundelfinger /
Armin Schram)
- 13:10 Daniel Choquet, Bordeaux, France
NANOSCALE IMAGING OF AMPAR
TRAFFICKING IN HEALTH AND DISEASE
- 14:05 Renato Frischknecht, Magdeburg
ROLE OF THE PERISYNAPTIC EXTRACELLULAR
MATRIX IN SYNAPTIC PLASTICITY AND
NETWORK ACTIVITY
- 14:35 Volker Haucke, Berlin
MOLECULAR MECHANISM OF SYNAPTIC
VESICLE CYCLING
- 15:05 **Coffee Break and Poster Session**
- 16:00 Dorothea Schulte, Frankfurt/Main
TRANSCRIPTIONAL REGULATION OF ADULT
NEUROGENESIS: NOVEL ROLES FOR
TALE-HOMEODOMAIN TRANSCRIPTION
FACTOR
- 16:30 Jens Schwamborn, Münster
NUCLEAR TRANSLOCATION OF CELL FATE
DETERMINANTS INDUCES NEURAL STEM CELL
DIFFERENTIATION
- 17:00 Marlene Bartos, Freiburg
FUNCTIONAL PROPERTIES OF PERISOMATIC
VERSUS DENDRITIC INHIBITION IN DENTATE
GYRUS MICROCIRCUITS
- 17:30 **Break and Poster Session**
- 17:50 Harvey Mc Mahon, Cambridge, UK
ROLE OF MEMBRANE SHAPE CHANGES,
GUIDED BY PROTEINS, IN BIOLOGY
- 18:45 **Closing Remarks**
(Heinrich Betz / Eckart D. Gundelfinger /
Armin Schram)

Symposium 3

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 10

Chair: Sen Cheng and Laurenz Wiskott, Bochum

- 15:00 **Opening Remarks**
- 15:05 Edmund Rolls, Oxford and Warwick, UK
A THEORY OF HIPPOCAMPAL FUNCTION,
AND HOW IT INCORPORATES SPATIAL VIEW
CELLS IN PRIMATES AND PLACE CELLS IN
RODENTS (S3-1)
- 15:35 Sen Cheng, Bochum
THE CRISP THEORY OF HIPPOCAMPAL
FUNCTION IN EPISODIC MEMORY (S3-2)
- 16:05 Torsten Neher, Bochum
ARE MEMORIES REALLY STORED IN THE
HIPPOCAMPAL CA3 REGION? (S3-3)
- 16:20 **Coffee Break**
- 16:40 Francesco Battaglia, Nijmegen, The Netherlands
NEURAL OSCILLATIONS, BEHAVIOR, AND
INTERACTION WITHIN THE HIPPOCAMPAL
FORMATIONS AND BETWEEN CORTEX AND
HIPPOCAMPUS (S3-4)
- 17:10 Antje Kiliyas, Freiburg
SUSTAINED PHASE COUPLING OF
HIPPOCAMPAL SINGLE CELL FIRING TO
NETWORK OSCILLATIONS UNDER EPILEPTIC
CONDITIONS (S3-5)
- 17:25 Neil Burgess, London, UK
NEURAL MECHANISMS OF SPATIAL
COGNITION (S3-6)
- 17:55 **Concluding Remarks**

Symposium 9

Thursday, March 14, 2013
9:00 – 12:00, Lecture Hall 9

Chair: Andreas Neef, Göttingen

- 09:00 **Opening Remarks**
- 09:05 Fred Wolf, Göttingen
BRUCE KNIGHT'S PERFECT ENCODER AND
THE UNSOLVED PROBLEM OF ACTION
POTENTIAL INITIATION (S9-1)
- 09:30 Ilan Lampl, Rehovot, Israel
SHORT-TERM SYNAPTIC PLASTICITY SHAPES
THE BALANCE BETWEEN EXCITATION AND
INHIBITION DURING ONGOING CORTICAL
ACTIVITY (S9-2)
- 09:55 Adrienne L. Fairhall, Seattle, USA
MULTIPLE TIMESCALES OF INFORMATION
REPRESENTATION IN NEURONS AND
NETWORKS (S9-3)
- 10:20 **Coffee Break**
- 10:35 Adrian Klein, Bonn
THE ACTIVITY OF MEDULLARY LATERAL
LINE UNITS OF COMMON RUDD, *SCARDINIUS*
ERYTHROPTHALMUS, WHICH WERE EXPOSED
TO KÁRMÁN VORTEX STREETS (S9-4)
- 10:50 Matthew H. Higgs, Seattle, USA
K⁺ CHANNELS AFFECT CORTICAL
NEURON INPUT ENCODING ON MULTIPLE
TIME SCALES (S9-5)
- 11:15 Ahmed El Hady, Göttingen
NON-INVASIVE CHARACTERIZATION OF
INDIVIDUAL NEURONS' COMPUTATIONAL
PROPERTIES USING CONTINUOUS DYNAMIC
PHOTO-STIMULATION (S9-6)
- 11:30 Clemens Boucsein, Freiburg
THE BEST FROM TWO WORLDS:
NEOCORTICAL NEURONS AS INTEGRATORS
WITH PRECISE SPIKE TIMING (S9-7)
- 11:55 **Concluding Remarks**



Introductory Remarks to Symposium 17

Heterogeneity of microglia

Uwe-Karsten Hanisch and Susanne Wolf, Göttingen and Berlin

Sentinel and immune functions of microglia require appropriate reactions upon infectious and non-infectious threats to the CNS. Indeed, microglia can commit to diverse reactive phenotypes. However, whether activated cells mount a homogeneous response or whether subsets conduct selective tasks is unknown. Microglia may not comprise a uniform cell type but rather vary by house-keeping duties and functional capacities during development and in emergency situations. Uwe-Karsten Hanisch (Göttingen) will report on the developmental reorganization of Toll-like receptor (TLR) systems in microglia and microglial responder subsets upon TLR and other receptor challenges. Rosa Chiara Paolicelli (Zurich) will show how microglia participate in the maturation and modelling of synaptic connections during normal postnatal development. Deficiency in CX3CR1 results in a transient reduction in microglia as well as an excess of weak excitatory synapses in the hippocampus, due to defective synaptic pruning and leading to long-term impairments resembling some features of autism spectrum disorders. Monica Carson (Riverside) will draw a link between developmental heterogeneity of microglial phenotypes and a regional regulation of synaptic maturation. Restricted to developmental windows, TREM2-dependent microglial functions modulate the ratio of excitatory to inhibitory synapses in response to bouts of systemic inflammation as well as in the normal CNS. Pre-, neo- and postnatal inflammatory events may determine the onset and/or exacerbation of neurodevelopmental disorders. Knut Biber (Freiburg) will address region-specific differences in microglial expression patterns corroborating the concept of distinct microglial phenotypes in the non-inflamed brain. In models of NMDA-induced excitotoxicity, microglia display region-specific influences on the survival of neurons in the hippocampal formation. Susanne Wolf (Berlin) will cover the current knowledge about interactions of microglia with brain tumor cells. A concluding remark will summarize the essentials pointing to an existence of microglial subpopulations with distinct portfolios of tasks in the healthy and the diseased CNS.

Symposium 17

Friday, March 15, 2013
9:00 – 12:00, Lecture Hall 102

Chair: Uwe-Karsten Hanisch and Susanne Wolf,
Göttingen and Berlin

- 09:00 **Opening Remarks**
- 09:05 Uwe-Karsten Hanisch, Göttingen
MICROGLIAL RESPONDER SUBSETS UPON
TLR CHALLENGES (S17-1)
- 09:35 Rosa Chiara Paolicelli, Zurich, Switzerland
SYNAPTIC PRUNING BY MICROGLIA:
SCULPTING BRAIN CONNECTIVITY (S17-2)
- 10:05 Monica Carson, Riverside, USA
AGE-SPECIFIC HETEROGENEITY IN
MICROGLIAL REGULATION OF SYNAPTIC
MATURATION AND MAINTENANCE (S17-3)
- 10:35 **Coffee Break**
- 10:55 Knut Biber, Freiburg
REGIONAL HETEROGENEITY OF MICROGLIA
AND MICROGLIAL RESPONSES (S17-4)
- 11:25 Susanne Wolf, Berlin
MICROGLIA/MACROPHAGE – GLIOMA
INTERACTION (S17-5)
- 11:55 **Concluding Remarks**