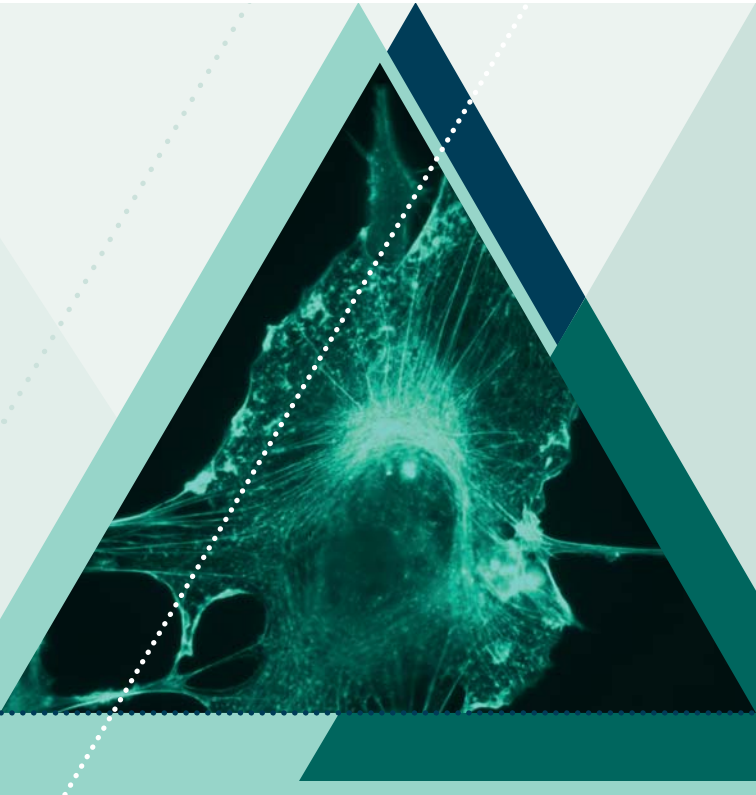


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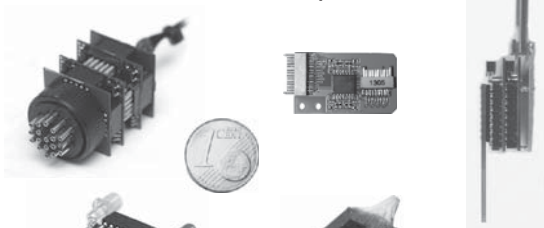
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Welcome Address

Welcome to the 11th Göttingen Meeting 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. In 1982 the organization was taken over by the late Norbert Elsner (1940-2011) who succeeded in establishing this conference as the national German neuroscience meeting. The conference has enormously 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 neuroscience, 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 this final program. We are very happy and pleased that we could attract such high profile scientists to our meeting and we very much look 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. Two more recent lectures are the Norbert-Elsner-Lecture to honor and commemorate the long-time organizer of the Göttingen Neurobiology Conference and internationally renowned insect neuroethologist Norbert Elsner, and the Hertie-Lecture, generously sponsored by the Hertie Foundation, a long time supporter of the German Neuroscience Society which, for example, sponsors the internet portal "DasGehirn.info". In addition, we will have lectures by two young neuroscientists who have been awarded the scientific prizes of the German Neuroscience Society, the FEI Technology Award for excellent achievements in developing novel techniques in neuroscience, and the Schilling Research Award, which is donated by the Schilling Foundation.

This meeting would not be that successful without the many important contributions by young researchers. We have received over 750 poster submissions, many of which are first authored by young scientists. To better accommodate all posters we have increased the number of poster sessions from 6 to 8 and have added two sessions on Wednesday. We also had encouraged students to participate with an oral presentation and have reserved special slots for them in each symposium. Around 70 young investigators had applied for these slots. In addition, two Breaking News Sessions will be organized for the first time. We thank all these young researchers for their interest in the meeting and their invaluable contributions.

Other features of the Göttingen meeting which have become a tradition are the Schram Foundation Satellite Symposium on Tuesday prior to the meeting, the Publishing Workshop on how to successfully submit a paper for publication, the CARE workshop on the responsible use of animals in neuroscience and the DFG-Seminar on how to start a scientific career.

We would like to take this opportunity to deeply thank all sponsors and especially our commercial partners who exhibit in the hall. Without their generous support many amenities of the meeting such as the free buffets in the evening or the NeuroParty night would not have been possible! We also thank the University of Göttingen for providing the venue for the meeting and in particular the Deutsche Forschungsgemeinschaft (DFG), whose financial support allowed us to invite many internationally renowned scientists.

An essential component of a successful meeting is the local organizing team. Special thanks go to Martin Göpfert as Head of the Department of Cellular Neuroscience and his dedicated crew who tremendously supported the Central Office of the German Neuroscience Society in Berlin. We also thank the local neuroscience community in Göttingen for making this meeting possible. Last but not least, we would like to thank all the volunteers who helped to organize this conference and who make it enjoyable for all of us.

The full contents of the meeting, including abstracts will be provided again on CD, as a citable supplement to the society's journal *Neuroforum*. In addition, a printed program booklet can be purchased. Furthermore, an itinerary planner is available on the meeting website (<https://www.nwg-goettingen.de/2015/>) which allows the generation of 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 next time in Copenhagen from July 2 to 6, 2016, hosted by the Danish Society for Neuroscience. We would like to encourage you to contribute to this large-scale European Neuroscience meeting as well and hope that you will support the Copenhagen conference. We hope to see you there, and in Göttingen at the next meeting of the German Neuroscience Society on March 22 to 25, 2017.

Enjoy the meeting and have a pleasant stay in Göttingen,



Prof. Dr. Helmut Kettenmann
President of the German Neuroscience Society



Acknowledgement

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

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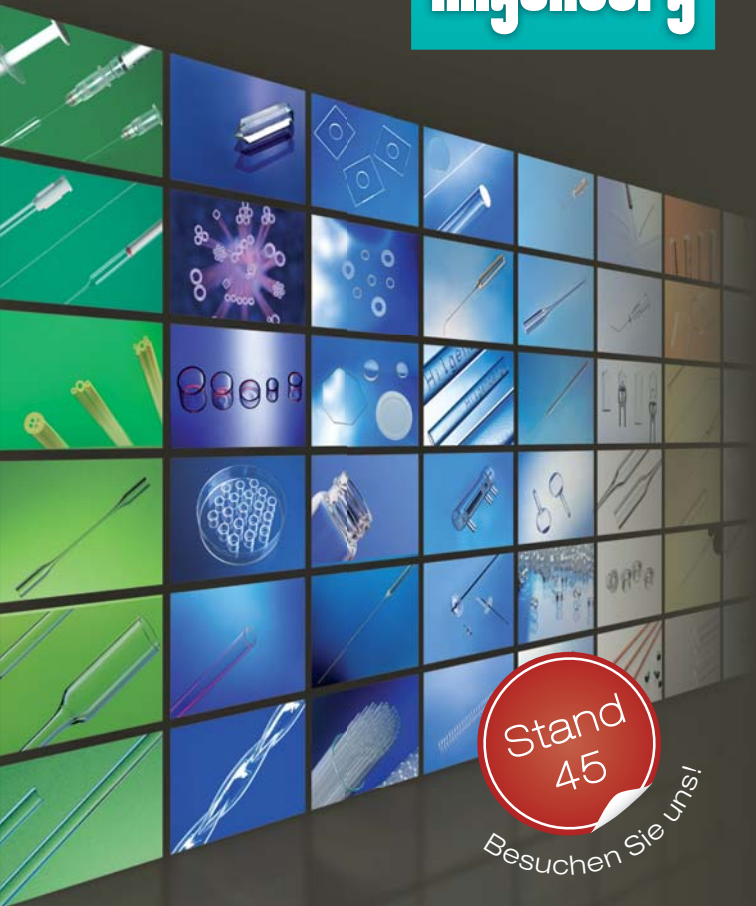
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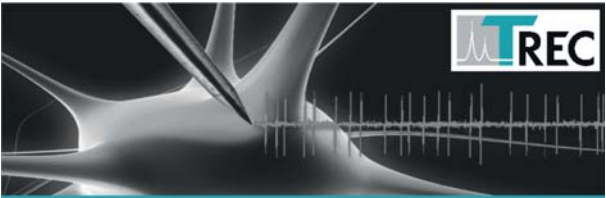
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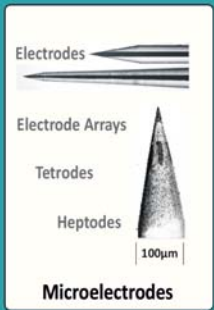


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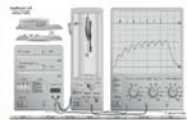
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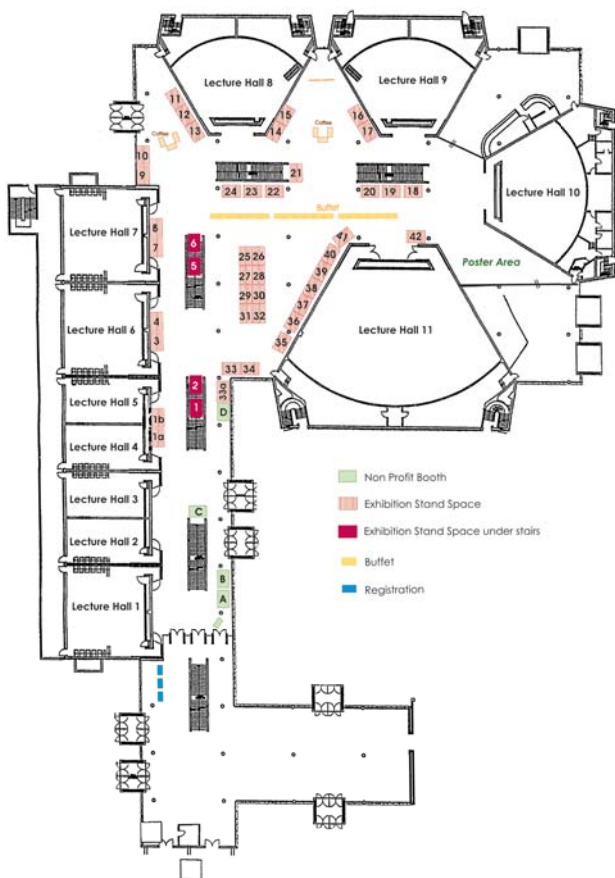
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This award supports young researchers of an age under 35. The sum awarded is 2.500 Euro. Qualified research is reflected in outstanding publications. Eligible are scientists either working in a German laboratory or she/he is a German native working abroad. Applications from all fields of neuroscience research are invited. The candidate either applies directly for the award or is nominated by another person. Being a member of the German Neuroscience Society is not mandatory.

The prize was given for the first time in 2003. It is awarded during the Congress of the German Neuroscience Society in Göttingen.

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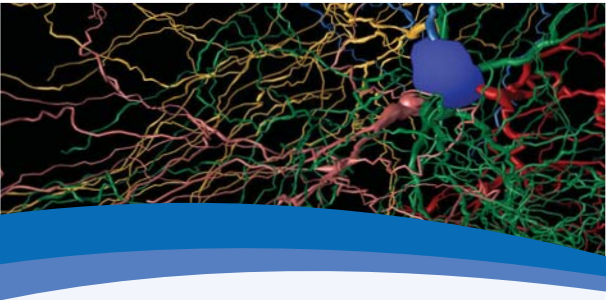
Schilling-Research Award of the German Neuroscience Society 2015

This prize is awarded by the German Neuroscience Society for outstanding contributions in the field of brain research. The award supports young researchers up to the age of 35. The prize money amounts to 20.000 Euro. Qualified research is reflected in outstanding publications. The applicant can either work in a German laboratory or she/he is of German origin working abroad. The application can be submitted by the applicant her-/himself or the candidate can be nominated. Applications from all fields of neuroscience research are invited. Being a member of the German Neuroscience Society is not mandatory.

The prize was given for the first time in 2005 during the 6th conference of the German Neuroscience Society in Göttingen.

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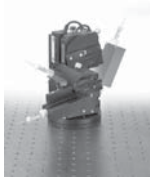
The following applicants were selected for a travel grant to attend the 11th Göttingen Meeting of the German Neuroscience Society (March 18 – 21, 2015) amounting to 300 Euros:

- Ackels, Tobias (Aachen, Germany)
Alexa, Teodora (Iasi, Romania)
Antonides, Alexandra (Utrecht, The Netherlands)
Apostolopoulou, Anthi A. (Konstanz, Germany)
Baz, El-Sayed (Kassel, Germany)
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The following students/young postdocs were selected to give a short communication:

- Ferdinand Althammer** (Heidelberg, Germany) – Symposium 16
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Nina Jährling (Vienna, Austria) – Symposium 11
Nikolaos Karalis (Munich, Germany) – Symposium 25
Ajayrama Kumaraswamy (Martinsried, Germany) – Symposium 31
Sara Leijon (Stockholm, Sweden) – Symposium 33
Kerstin Lenk (Tampere, Finland) – Symposium 28/2
Niklas Lonnemann (Braunschweig, Germany) – Symposium 20
Rohit Menon (Regensburg, Germany) – Symposium 16
Matthias Nau (Tübingen, Germany) – Symposium 5
Krisztián Pájér (Szeged, Hungary) – Symposium 17
Santosh Pothula (Magdeburg, Germany) – Symposium 33
Georg Raiser (Konstanz, Germany) – Symposium 28
Alpha Renner (Hilzingen, Germany) – Symposium 15
Manuel J. Roth (Tübingen, Germany) – Symposium 5



- Dina Safina** (Bochum, Germany) – Symposium 22
Susanne Seltmann (Seewiesen, Germany) – Symposium 2
Christin Schifani (Ludwigshafen, Germany) – Symposium 24
Matthias Schlichting (Würzburg, Germany) – Symposium 21
Christian Schmidt (Magdeburg, Germany) – Symposium 25
Anna Caren Schneider (Cologne, Germany) – Symposium 29
Constantin Stautner (Neuherberg, Germany) – Symposium 34
Anne-Kathrin Theis (Berlin, Germany) – Symposium 8
Franziska Toepfer (Würzburg, Germany) – Symposium 6
Katrin Vogt (Martinsried, Germany) – Symposium 21
Florian Walker (Göttingen, Germany) – Symposium 19
Marianna Weller (Braunschweig, Germany) – Symposium 24
Nina Westphal (Hamburg, Germany) – Symposium 22
Anne C. Wolfes (Göttingen, Germany) – Symposium 7

Young Investigator Orals in the Breaking News

The following students were selected to give a short communication:

- Janil Annamneedi** (Magdeburg, Germany) – Symposium 12
Sophie Batsching (Würzburg, Germany) – Symposium 12
Benedikt Bausewein (Bayreuth, Germany) – Symposium 23
Stephanie D. Biergans (Konstanz, Germany) – Symposium 23
Christoph Bode (Leipzig, Germany) – Symposium 23
Karolina Can (Göttingen, Germany) – Symposium 23
Lisa K. J. Clausen (Oxford, UK) – Symposium 12
Rainer Engelken (Göttingen, Germany) – Symposium 23
Bettina Hein (Frankfurt/Main, Germany) – Symposium 12
Jan-Hendrik Heyne (Magdeburg, Germany) – Symposium 12
Lars Emil Larsen (Ghent, Belgium) – Symposium 23
Johannes Mayer (Rostock, Germany) – Symposium 12
Julia Michely (Saarbrücken, Germany) – Symposium 12
Esther Nibbeling (Groningen, The Netherlands) – Symposium 12
Uta Pegel (Marburg, Germany) – Symposium 23
Steffen Platschek (Frankfurt/Main, Germany) – Symposium 12
Sarah Starosta (Bochum, Germany) – Symposium 23
Lena Veit (Tübingen, Germany) – Symposium 23
Kerstin Wernecke (Magdeburg, Germany) – Symposium 12
Carola Wormuth (Bonn, Germany) – Symposium 23



Committees and Organization

Program Committee

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(Chair)
Andreas Draguhn
Charlotte Förster
Eckhard Friauf
Martin Göpfert
Gerd Kempermann
Michael Koch
Sigrun Korsching
Thomas Münte
Erwin Neher
Hans-Joachim Pflüger
Andreas Reichenbach
Christian Steinhäuser
Fred Wolf

Scientific Organization

Helmut Kettenmann
Max Delbrück Center Berlin-Buch
Cellular Neuroscience

Local Organization

Martin Göpfert
University of Göttingen
Cellular Neurobiology
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NWG Office

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E-Mail: korthals@mdc-berlin.de / gibson@mdc-berlin.de

Homepage

www.nwg-goettingen.de

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General Information

Venue

Central Lecture Hall Building (Zentrales Hörsaalgebäude),
Georg August University Göttingen, Platz der Göttinger
Sieben 5, 37073 Göttingen

Conference Office

During the meeting the conference office is open on Wed-
nesday, March 18, from 9 a.m. to 8 p.m., on Thursday,
March 19 and Friday, March 20, from 8 a.m. to 8 p.m.
and on Saturday, March 21, from 8 a.m. to 4 p.m.

Phone: +49 551 39 9594

Fax: +49 551 39 9596

E-Mail: korthals@mdc-berlin.de

Exhibition

The exhibition is open on Wednesday, March 18 from 12
p.m. to 7 p.m., on Thursday, March 19, from 9 a.m. to 7
a.m. and on Friday, March 20 from 9 a.m. to 2.30 p.m.

Public Transportation and Travel

The meeting site is only about ten minutes walk from the
center of the city and from the train station. Bus lines No.
2, 3, 5, 9, 10, 12 and 14 stop near the venue. The bus
stops are called Auditorium, Kreuzbergring, Blauer Turm,
Campus.

Registration

On site registration will be available. Please pay in cash
or by Visa or Eurocard.

Registration fee ALL days:

EUR 160 - FENS or GNS **members**

EUR 240 - **non-members**

EUR 120 - **student members** of FENS or GNS

EUR 160 - **student non-members**

Registration fee PER day:

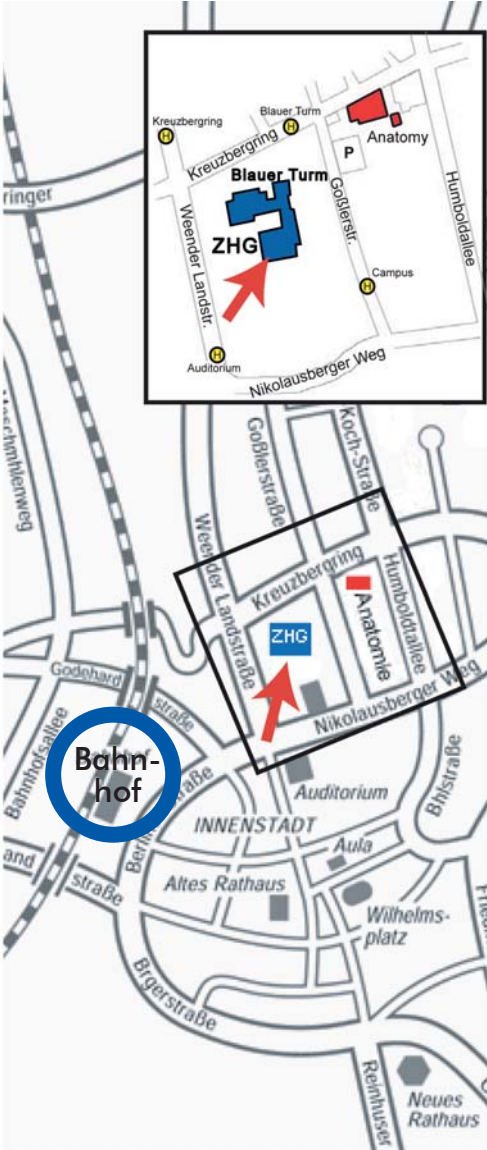
EUR 40 - FENS or GNS **members**

EUR 60 - **non-members**

EUR 30 - **student members** of FENS or GNS

EUR 40 - **student non-members**

Map of Göttingen





Students must show a copy of their student identity card!

The registration fee includes:

- free access to the scientific program
- congress bag
- abstract CD
- evening reception with food and drinks at the meeting site on Wednesday, Thursday and Friday
- coffee breaks

Lunch

Lunch is available from Wednesday to Saturday in the Mensa in the same building.

Internet Access

The building is equipped with WLAN. However, as extensive use of wireless usually slows down the internet connection drastically, we strongly recommend to download the program and the abstracts prior to the meeting on your mobile device.

In addition to the wireless some computers with internet access will be available for public use.

Poster Presentations

Each poster will hang for one day. Posters with poster numbers containing A will hang on Wednesday, posters with poster numbers containing B will hang on Thursday, posters with poster numbers containing C will hang on Friday, and posters with poster numbers containing D will hang on Saturday (see also explanation on page 124).

The presenting author of each poster is requested to be present at her/his poster during the poster session. The poster sessions are divided into odd and even serial numbers. Each poster is presented in two sessions of 45 min.

Posters with numbers containing A

Wednesday, March 18, 2015

(hanging of posters: before 13:00)

13:00 - 13:45 odd serial numbers (e.g. T20-1A)

13:45 - 14:30 even serial numbers (e.g. T20-2A)

16:30 - 17:15 odd serial numbers (e.g. T20-1A)

17:15 - 18:00 even serial numbers (e.g. T20-2A)

(all posters must be removed immediately after 19:00)

*2-Photon Microscopy
Amplifiers
Data Acquisition and Data
Analysis Systems
Electrodes, Wires & Glasses
Electrode Holders
Micropipette Pullers
Microforges and Bevelers
Micromanipulators
Microinjection Systems
Perfusion Systems
Stereotaxic Instruments
Stimulators and Stimulus
Isolators
Tables and Faraday Cages
Temperature Controllers*

... and more!



**Posters with numbers containing B**

Thursday, March 19, 2015

(hanging of posters: before 10:00)

10:00 - 10:45 odd serial numbers (e.g. T20-1B)

10:45 - 11:30 even serial numbers (e.g. T20-2B)

16:30 - 17:15 odd serial numbers (e.g. T20-1B)

17:15 - 18:00 even serial numbers (e.g. T20-2B)

(all posters must be removed immediately after 18:00)

Posters with numbers containing C

Friday, March 20, 2015

(hanging of posters: before 10:00)

10:00 - 10:45 odd serial numbers (e.g. T20-1C)

10:45 - 11:30 even serial numbers (e.g. T20-2C)

16:30 - 17:15 odd serial numbers (e.g. T20-1C)

17:15 - 18:00 even serial numbers (e.g. T20-2C)

(all posters must be removed immediately after 18:00)

Posters with numbers containing D

Saturday, March 21, 2015

(hanging of posters: before 10:30)

10:30 - 11:15 odd serial numbers (e.g. T20-1D)

11:15 - 12:00 even serial numbers (e.g. T20-2D)

13:30 - 14:15 odd serial numbers (e.g. T20-1D)

14:15 - 15:00 even serial numbers (e.g. T20-2D)

(all posters must be removed the same day)

Please be aware that the registration number you received is NOT corresponding to your poster number.

You can easily find your poster using the online itinerary planner (www.nwg-goettingen.de/2015) or with the authors' index in this program booklet.

The size of the poster is 1 x 1 m. Pins to hang your poster will be available.

Projection

The standard equipment in all lecture rooms is ONE power point projector.

We therefore have to ask you to present your talk without double projection. Please be so kind and save your presentation in power point on a USB stick.

Language

The official language of this meeting is English.

Hotels

The travel agency responsible for hotel reservations is Deutsches Reisebüro Berlin:

Annemarie van der Hoff
DER Deutsches Reisebüro GmbH & Co. OHG
Theodor-Heuss-Platz 2
14052 Berlin

Tel.: +49 30 302 5002
Fax: +49 30 301 9768
E-Mail: annemarie.vanderhoff@der.de

Insurance

The organizers do not take responsibility for individual medical, travel or personal insurance. Participants are advised to carry out their own insurance policies.

Electricity Supply

220 V - 50 Hz AC.

Neuro-Party

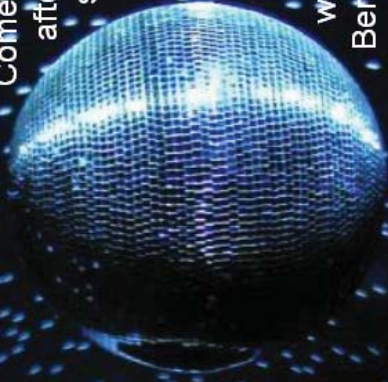
Thursday, March 19th

Come together
after the
scientific
program
at

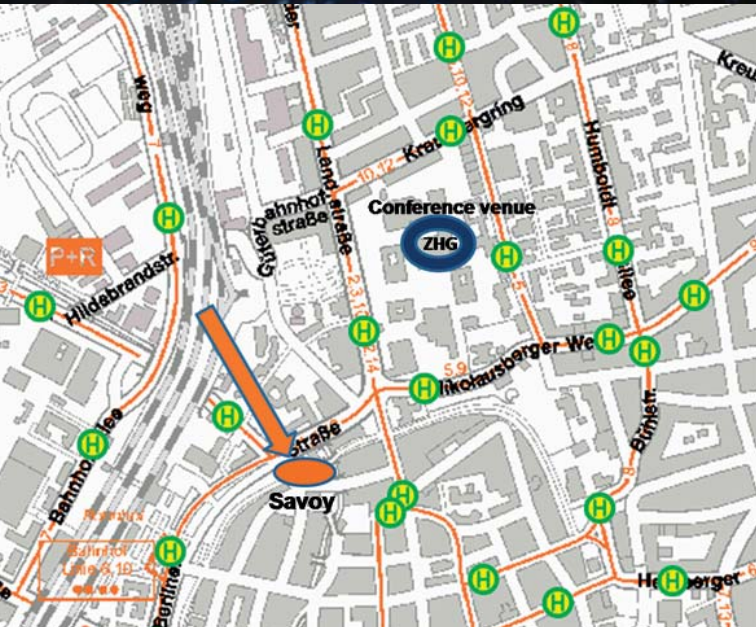
9:00 p. m.

Savoy Club
Göttingen

www.club-savoy.de
Berliner Str. 5



Free entrance for all participants of the congress with badge.
Happy hour from 9-10 p. m.



Scientific Program

Tuesday, March 17, 2015

- 13:00 - 19:00 *Satellite Symposium, Paulinerkirche
(Papendiek 14, Göttingen)*
4th Schram Foundation Symposium
**„The molecular basis of neuronal
circuit formation and function“**
*Chair: Dorothea Schulte and Marlene
Bartos, Frankfurt/Main and Freiburg*

Wednesday, March 18, 2015

- 12:00 - 13:00 **Plenary Lecture, Hall 11**
 Opening Lecture
Richard Morris, Edinburgh (UK)
**Memory consolidation - synaptic
tagging and schemas**
Chair: Helmut Kettenmann, Berlin
- 13:00 - 14:30 **Poster Session I: Posters A**
 13:00 - 13:45 Odd serial numbers
 13:45 - 14:30 Even serial numbers
- 14:30 - 16:30 **Symposia I (S1 - S6)**
 14:30 - 16:30 *Symposium 1, Hall 10*
**Astrocytes as new targets for antiepi-
leptic drugs**
*Chair: Peter Bedner and Kjell Heuser,
Bonn and Oslo (Norway)*
- 14:30 - 16:30 *Symposium 2, Hall 101*
**Neuronal basis of vocal communi-
cation in vertebrates - from genes to
physiology to behavior**
*Chair: Boris Chagnaud and Steffen R.
Hage, Planegg-Martinsried and Tübingen*
- 14:30 - 16:30 *Symposium 3, Hall 102*
DBS-underlying mechanisms
*Chair: Anaïs Djodari-Irani and Christine
Winter, Berlin and Dresden*



- 14:30 - 16:30 *Symposium 4, Hall 9*
Timing and valence in associative learning
Chair: Markus Fendt, Ayse Yarali and Bertram Gerber, Magdeburg
- 14:30 - 16:30 *Symposium 5, Hall 104*
When the effect determines the cause – sensory consequences of self-action and their relevance for planning, control, and perceptual interpretation of one's behavior
Chair: Alexander Gail and Axel Lindner, Göttingen and Tübingen
- 14:30 - 16:30 *Symposium 6, Hall 8*
Neural mechanisms underlying spatial orientation in insects
Chair: Uwe Homberg and Keram Pfeiffer, Marburg
- 16:30 - 18:00 **Poster Session II: Posters A**
 16:30 - 17:15 Odd serial numbers
 17:15 - 18:00 Even serial numbers
- 18:00 - 19:00 **Cold Buffet in the Foyer**
- 19:00 - 20:00 **Plenary Lecture, Hall 11**
 Zülch Lecture
Wolfram Schultz, Cambridge (UK)
Neuronal signals for reward, risk and economic decisions
Chair: Mathias Bähr, Göttingen

Thursday, March 19, 2015

- 9:00 - 10:00 **Awarding and Lectures, Hall 11**
 9:00 - 9:30 Schilling Award Lecture
Marion Silies, Göttingen
A neurogenetic approach to understanding motion computation
Chair: Gerd Kempermann, Dresden
- 9:30 - 10:00 FEI Technology Award Lecture
Benjamin Judkewitz, Berlin
Imaging deep with time-reversed light
Chair: Heiko Luhmann, Mainz

- 10:00 - 11:30 **Poster Session III: Posters B**
 10:00 - 10:45 Odd serial numbers
 10:45 - 11:30 Even serial numbers
- 11:30 - 13:30 **Symposia II (S7 - S12)**
 11:30 - 13:30 *Symposium 7, Hall 10*
Contribution of astrocyte connexins to neuroglial interaction in the healthy and diseased brain
Chair: Christian Steinhäuser, Bonn
- 11:30 - 13:30 *Symposium 8, Hall 103*
The ontogeny of entorhinal circuitry and function
Chair: Ileana Hanganu-Opatz and Dietmar Schmitz, Hamburg and Berlin
- 11:30 - 13:30 *Symposium 9, Hall 8*
Processing of acoustic pulse patterns: Common themes in different brains?
Chair: Berthold Hedwig and Stefan Schöneich, Cambridge (UK)
- 11:30 - 13:30 *Symposium 10, Hall 104*
Microcephaly and developmental defects of the brain
Chair: Angela M. Kaindl, Berlin
- 11:30 - 13:30 *Symposium 11, Hall 9*
Ultramicroscopy for imaging the central nervous system and its pathological alterations
Chair: Edgar R. Kramer, Hamburg
- 11:30 - 13:30 *Symposium 12, Hall 105*
Breaking News I
Chair: Carmen Smarandache-Wellmann, Cologne
- 13:30 - 14:30 **Lunch Break**
- 13:30 - 14:30 **Annual General Meeting of the NWG (Hall 11)**
- 13:30 - 14:30 **DFG-Seminar**
Lecture Hall 101 and 1.141 (interviews)
Roland Krüppel and Jan Kunze, DFG
Starting your research career - DFG funding programmes and application procedures



- 13:30 - 14:30 **CARE Workshop**, Hall 102
Stefan Treue, Göttingen
Neuroscience research using animals: The legal, ethical and political situation
- 14:30 - 16:30 **Symposia III (S13 - S17)**
 14:30 - 16:30 *Symposium 13, Hall 104*
Functional consequences of sensory loss and restoration
Chair: Stephen Lomber, London (UK)
- 14:30 - 16:30 *Symposium 14, Hall 8*
Recent advances in basal ganglia research: action-selection, movement and pathologies
Chair: Robert Schmidt and Arvind Kumar, Freiburg
- 14:30 - 16:30 *Symposium 15, Hall 10*
Is insect odor transduction primarily based upon an ORCO-dependent ionotropic mechanism or on metabotropic cascades?
Chair: Monika Stengl, Kassel
- 14:30 - 16:30 *Symposium 16, Hall 9*
Molecular, neuronal and behavioral effects of oxytocin: a translational approach
Chair: Inga D. Neumann and Valery Grinevich, Regensburg and Heidelberg
- 14:30 - 16:30 *Symposium 17, Hall 105*
Regeneration in the injured spinal cord - hopes and perspectives
Chair: Antal Nógrádi, Szeged (Hungary)
- 16:30 - 18:00 **Poster Session IV: Posters B**
 16:30 - 17:15 Odd serial numbers
 17:15 - 18:00 Even serial numbers
- 18:00 - 19:00 **Cold Buffet in the Foyer**
- 19:00 - 20:00 **Plenary Lecture, Hall 11**
 Hertie Foundation Lecture
Tamás Freund, Budapest (Hungary)
The reciprocal GABAergic septo-hippocampal connection: target selectivity and function
Chair: Andreas Draguhn, Heidelberg

**Friday, March 20, 2015**

- 9:00 - 10:00 **Plenary Lecture, Hall 11**
Norbert Elsner Lecture
Michael Stryker, San Francisco (USA)
A neural circuit that controls plasticity and the gain of sensory responses in mouse visual cortex
Chair: Charlotte Förster, Würzburg
- 10:00 - 11:30 **Poster Session V: Posters C**
10:00 - 10:45 Odd serial numbers
10:45 - 11:30 Even serial numbers
- 11:30 - 13:30 **Symposia IV (S18 - S23)**
11:30 - 13:30 *Symposium 18, Hall 102*
Cellular adaptations for temporal precision in the auditory system
Chair: Felix Felmy, Thomas Kunzel and Ivan Milenkovic, Planegg-Martinsried, Aachen and Leipzig
- 11:30 - 13:30 *Symposium 19, Hall 8*
Novel mechanisms influencing synaptic plasticity at GABAergic synapses
Chair: Shiva Tyagarajan and Anne McKinney, Zurich (Switzerland) and Montreal (Canada)
- 11:30 - 13:30 *Symposium 20, Hall 105*
Actin cytoskeleton in neuronal morphogenesis and plasticity
Chair: Britta Qualmann and Michael Kessels, Jena
- 11:30 - 13:30 *Symposium 21, Hall 10*
Neuronal mechanisms of behavioral timing
Chair: Christian Wegener and Wolfgang Rössler, Würzburg
- 11:30 - 13:30 *Symposium 22, Hall 103*
Recognition molecule-associated glycans in synaptic plasticity and regeneration after trauma
Chair: Melitta Schachner, Hamburg
- 11:30 - 13:30 *Symposium 23, Hall 104*
Breaking News II
Chair: Marc Spehr, Aachen



- 13:30 - 14:30 **Lunch Break**
- 13:30 - 14:30 **Publishing Workshop, Hall 9**
Helmut Kettenmann and Werner Paulus, Berlin and Münster
How to publish in neuroscience journals?
- 14:30 - 16:30 **Symposia V (S24 - S28/2)**
 14:30 - 16:30 *Symposium 24, Hall 105*
The emerging etiopathogenic role of infections and inflammation in chronic CNS diseases
Chair: Wolfgang Löscher and Wolfgang Baumgärtner, Hannover
- 14:30 - 16:30 *Symposium 25, Hall 104*
Regulation of normal and impaired sleep
Chair: Axel Steiger and Mayumi Kimura, Munich
- 14:30 - 16:30 *Symposium 26, Hall 8*
Nanostructure and function of presynaptic active zones
Chair: Tobias Moser and Carolin Wichmann, Göttingen
- 14:30 - 16:30 *Symposium 27, Hall 102*
Brain tumors strongly interact with different cell-types in the CNS: biological mechanisms and therapeutic impact
Chair: Michael Synowitz, Berlin
- 14:30 - 16:30 *Symposium 28, Hall 10*
Processing of temporal stimulus cues in the insect olfactory system
Chair: Paul Szyszka, Konstanz
- 14:30 - 16:30 *Symposium 28/2, Hall 101*
Role of glial heterogeneity in brain function
Chair: Frank Kirchhoff and Christine Rose, Homburg and Düsseldorf
- 16:30 - 18:00 **Poster Session VI: Posters C**
 16:30 - 17:15 Odd serial numbers
 17:15 - 18:00 Even serial numbers
- 18:00 - 19:00 **Cold Buffet in the Foyer**



- 19:00 - 20:00 **Plenary Lecture, Hall 11**
Roger Eckert Lecture
Eric Jorgensen, Salt Lake City (USA)
Ultrafast endocytosis: Revisiting Heuser and Reese in the 21st century
Chair: Erwin Neher, Göttingen

Saturday, March 21, 2015

- 8:30 - 10:30 **Symposia VI (S29 - S34)**
8:30 - 10:30 *Symposium 29, Hall 10*
Mechanisms of synchronization and coordination of neural oscillators
Chair: Carmen Smarandache-Wellmann, Cologne
- 8:30 - 10:30 *Symposium 30, Hall 102*
Adaptation and plasticity in a distorted sense of hearing during tinnitus and hyperacusis
Chair: Manuela Nowotny and Marlies Knipper, Frankfurt/Main and Tübingen
- 8:30 - 10:30 *Symposium 31, Hall 9*
Integrative study of the social insect brain - combining neuroethological and computational approaches
Chair: Hiroyuki Ai, Hidetoshi Ikeno and Thomas Wachtler, Fukuoka and Hyogo (Japan) and Planegg-Martinsried
- 8:30 - 10:30 *Symposium 32, Hall 104*
Microglia and brain Tumors: Friends or foes?
Chair: Nicolai Savaskan, Erlangen
- 8:30 - 10:30 *Symposium 33, Hall 8*
Balancing change and stability: homeostatic plasticity in the central nervous system
Chair: Corette Wierenga and Andreas Vlachos, Utrecht (The Netherlands) and Frankfurt/Main



- 8:30 - 10:30 *Symposium 34, Hall 105*
Modeling evolution, neuronal development and neurodegenerative disorders using mammalian induced pluripotent stem cells
Chair: Marisa Karow, Beate Winner and Jürgen Winkler, Munich and Erlangen
- 10:30 - 12:00 **Poster Session VII: Posters D**
10:30 - 11:15 Odd serial numbers
11:15 - 12:00 Even serial numbers
- 12:00 - 12:30 **Lunch Break**
- 12:30 - 13:30 **Plenary Lecture, Hall 11**
Ernst Florey Lecture
Maiken Nedergaard, Copenhagen (Denmark)
Emerging concepts on the roles of astrocytes
Chair: Christian Steinhäuser, Bonn
- 13:30 - 15:00 **Poster Session VIII: Posters D**
13:30 - 14:15 Odd serial numbers
14:15 - 15:00 Even serial numbers
- 15:00 - 16:00 **Plenary Lecture, Hall 11**
Otto Creutzfeldt Lecture
Sabine Kastner, Princeton (USA)
Perceptual and cognitive functions of the thalamus
Chair: Jochen Pflüger, Berlin
- 16:00 **Departure**





Neurowissenschaftliche Gesellschaft e.V.

Ziele

Die Neurowissenschaftliche Gesellschaft e.V. hat sich zum Ziel gesetzt, die Neurowissenschaften in Forschung und Lehre zu fördern und in allen ihren Teilbereichen im In- und Ausland zu repräsentieren. Sie versucht, forschungspolitische Schwerpunkte mit neurowissenschaftlicher Thematik zu setzen und neue Konzepte anzuregen. Sie steht in Kontakt mit innerdeutschen Fördereinstellungen und privaten Stiftungen und unterstützt die neurowissenschaftliche Ausrichtung der Förderprogramme der Europäischen Union. Sie fördert die Kontakte zur Industrie. Sie tritt für die Etablierung eines interdisziplinären neurowissenschaftlichen Ausbildungskonzepts ein. Bei all dem verfolgt sie ausschließlich gemeinnützige Zwecke.

Neuroforum

Die Mitglieder erhalten vierteljährlich das *Neuroforum* kostenlos. *Neuroforum* informiert über Themen, Trends, Fortschritte, neue Methoden, Forschungsschwerpunkte, Fördermöglichkeiten, Stellenangebote und Ausschreibungen.

e-Neuroforum

Parallel zur gedruckten Ausgabe gibt es die Hauptartikel des *Neuroforum* auch online in englischer Version über Springerlink.com.

Methodenkurse

Mehrmals jährlich werden insbesondere für Studenten, Doktoranden und junge Wissenschaftler Methodenkurse angeboten.

Rund-Mails und Stellenmarkt

Einmal monatlich werden an alle Mitglieder Rund-E-Mails mit Informationen zu Drittmitteln, Stipendien, Stellenanzeigen u.a. verschickt.

Kongresse

Mit der Veranstaltung und Förderung der Göttinger Jahrestagung sowie mit der Beteiligung am FENS Forum verfolgt die Gesellschaft ihr interdisziplinäres Konzept weiter. Neurowissenschaftler aller Fachrichtungen aus Forschung und Industrie sind zu einem lebendigen Meinungsaustausch aufgefordert.

Stipendien

Die Gesellschaft stellt Stipendien für Studenten, Doktoranden und junge Wissenschaftler für die Teilnahme an der eigenen Tagung wie auch für die FENS Tagungen zur Verfügung.

Förderpreise

Die Gesellschaft vergibt zweijährlich den mit 2.500 Euro dotierten FEI Technologiepreis, den mit 20.000 Euro dotierten Schilling-Forschungspreis und jährlich einen Sonderpreis bei 'Jugend forscht'.

Freier Zugang zu EJM online

Die Mitglieder der Gesellschaft haben kostenlosen Zugang zur Online-Version des *European Journal of Neuroscience*.

Lehrerfortbildung

Bundesweit werden Fortbildungsveranstaltungen für Lehrer der Oberstufe zu neurowissenschaftlichen Themen angeboten.

Slots für das SfN-Meeting

Über die Mitgliedschaft in FENS erhalten die Mitglieder der NWG jedes Jahr für das Meeting der amerikanischen Society für Neuroscience sog. „society sponsored abstract slots“. NWG-Mitglieder mit einem solchen Slot zahlen dieselbe reduzierte Teilnahmegebühr beim SfN-Meeting wie SfN-Mitglieder.

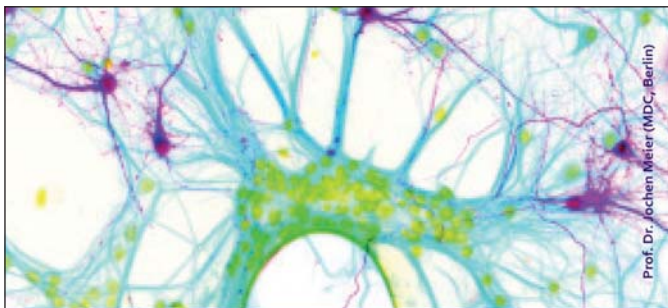
www.dasGehirn.info

hat sich zum Ziel gesetzt, das Gehirn, seine Funktionen und seine Bedeutung für unser Fühlen, Denken und Handeln darzustellen – umfassend, verständlich, attraktiv und anschaulich in Wort, Bild und Ton.

Die Neurowissenschaftliche Gesellschaft e.V. vertritt deutsche Neurowissenschaftler in der IBRO, ist Gründungsmitglied der Federation of European Neuroscience Societies (FENS) und vertritt die nationalen Interessen in der FENS. Sie ist kooperatives Mitglied des Verbandes Deutscher Biologen (VBIO).

Mitgliedschaft

Mitglied der Gesellschaft kann werden, wer auf einem Gebiet der Neurowissenschaften oder in verwandten Fächern tätig ist. Das Aufnahmegesuch ist mit der Befürwortung von zwei Mitgliedern der Gesellschaft an die Geschäftsstelle zu richten, über die Aufnahme entscheidet der Vorstand. Der Mitgliedsbeitrag für Studenten beträgt 30 Euro, für Vollmitglieder 70 Euro pro Jahr.



Prof. Dr. Jochen Meier (MDC, Berlin)

German Neuroscience Society

Neurowissenschaftliche Gesellschaft e.V. (NWG)



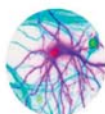
Vorstand der Amtsperiode 2013 - 2015:

Präsident: Prof. Dr. Helmut Kettenmann

Vizepräsident: Prof. Dr. Hans-Joachim Pflüger

Generalsekretär: Prof. Dr. Christian Steinhäuser

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Computational Neuroscience: Prof. Dr. Fred Wolf

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Geschäftsstelle:

Neurowissenschaftliche Gesellschaft e.V.

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Plenary Lectures

Richard Morris, Edinburgh (UK)

- Opening Lecture -

Memory consolidation - synaptic tagging and schemas (P1)

Wednesday, March 18, 2015, 12:00 – 13:00 h

Wolfram Schultz, Cambridge (UK)

- Zülch Lecture -

Neuronal signals for reward, risk and economic decisions (P2)

Wednesday, March 18, 2015, 19:00 – 20:00 h

Marion Silies, Göttingen

- Schilling Prize Lecture -

A neurogenetic approach to understanding motion computation (P3)

Thursday, March 19, 2015, 9:00 – 9:30 h

Benjamin Judkewitz, Berlin

- FEI Technology Award Lecture -

Imaging deep with time-reversed light (P4)

Thursday, March 19, 2015, 9:30 – 10:00 h

Tamás Freund, Budapest (Hungary)

- Hertie Foundation Lecture -

The reciprocal GABAergic septo-hippocampal connection: target selectivity and function (P5)

Thursday, March 19, 2015, 19:00 – 20:00 h

Michael Stryker, San Francisco (USA)

- Norbert Elsner Lecture -

A neural circuit that controls plasticity and the gain of sensory responses in mouse visual cortex (P6)

Friday, March 20, 2015, 9:00 – 10:00 h

Eric Jorgensen, Salt Lake City (USA)

- Roger Eckert Lecture -

Ultrafast endocytosis: Revisiting Heuser and Reese in the 21st century (P7)

Friday, March 20, 2015, 19:00 – 20:00 h

Maiken Nedergaard, Copenhagen (Denmark)

- Ernst Florey Lecture -

Emerging concepts on the roles of astrocytes (P8)

Saturday, March 21, 2015, 12:30 – 13:30 h

Sabine Kastner, Princeton (USA)

- Otto Creutzfeldt Lecture -

Perceptual and cognitive functions of the thalamus (P9)

Saturday, March 21, 2015, 15:00 – 16:00 h

All plenary lectures will take place in hall 11.



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Introductory Remarks to the CARE Workshop

Neuroscience research using animals: The legal, ethical and political situation

Stefan Treue, Göttingen

In 2010 the Federation of European Neuroscience Societies (FENS) has established a Committee on Animals in Research (CARE, www.fens.org/Outreach/FENS-Outreach/CARE-Committee-on-Animals-in-Research1/). The tasks of CARE are similar to the tasks of the corresponding committee of the Society for Neuroscience in the US. CARE advises FENS on the responsible use of animals in neuroscience research. It supports the development of resources on animals in research and promotes the public education in matters related to the use of animals in neuroscience. It monitors the development of European legislation on the use of animals in biomedical research, makes contributions to the efficient implementation of the EU-Directive on animal research and provides expert advice on animal research issues. The Committee challenges the claims, rethorics and actions of groups attempting to end use of animals in research, provides support to researchers under attack and responds to media when the ethics and importance of research using animals is questioned.

In this information event at the annual meeting of the German Neuroscience Society CARE members and other experts will provide an overview of the current situation regarding the use of animals in neuroscience research. The topics will include:

- a review of the state of implementation of the „Directive on the protection of animals used for scientific purposes“ that the EU passed in 2010 in the various EU states
- the situation in Europe concerning providing the public and politicians with accurate information about animal research
- a presentation of the „Basel Declaration“ on animal research
- a discussion of the role of individual researchers, neuroscience societies and other organisations in the public and political debate about animal research

The event should therefore be of interest to any researcher involved in or benefitting from research using animals.



CARE Workshop

Thursday, March 19, 2015
13:30 – 14:30, Lecture Hall 102

Chair: Stefan Treue, Göttingen

- 13:30 **Introductory remark**
- 13:45 **Short presentation**
- 14:15 **Discussion and conclusion**
- 14:30 **End of the workshop**



DFG Workshop

Thursday, March 19, 2015

13:30 – 14:30, Lecture Hall 101 and 1.141 (interviews)

Starting your research career - DFG funding programmes and application procedures

Roland Krüppel and Jan Kunze,
DFG Head Office, Bonn

This workshop is mainly addressed to researchers at an early stage of their scientific careers and aims at introducing the German Research Foundation (DFG) as the largest research funding organisation in Germany, and the DFG funding programmes. Application and review procedures will be discussed and recent developments presented.

In addition to this workshop, appointments for individual consultations will be offered by the DFG Programme Officers in the course of the meeting. For further information about individual appointments, please refer to the announcements that will be given on site.

Topics:

The DFG – Germany's largest research funding organisation

DFG funding programmes

Application and review procedures

News from the DFG

Discussion

Deutsche
Forschungsgemeinschaft

DFG

Publishing Workshop

Friday, March 20, 2015
13:30 – 14:30, Lecture Hall 9

How to publish in neuroscience journals?

Helmut Kettenmann and Werner Paulus,
Berlin and Münster

This workshop will address two important elements of successful publication of scientific results in neuroscience.

Helmut Kettenmann will cover the topic of manuscript preparation, emphasizing key features to be taken into consideration prior to submission.

Werner Paulus will present the review process, and discuss how to adequately revise a manuscript in response to the comments of the reviewers and editors.

Topics:

Purpose of scientific publishing

Key elements of a scientific manuscript

The review process

Revisions and response to reviewers

The rebuttal letter

Helmut Kettenmann is Editor-in-Chief of *GLIA* and Werner Paulus is Editor-in-Chief of the *Acta Neuropathologica*.





Introductory Remarks to Satellite Symposium

4th Schram Foundation Symposium „The molecular basis of neuronal circuit formation and function“

Dorothea Schulte and Marlene Bartos, Frankfurt/Main and Freiburg

The Schram Foundation, initiated in 2000 through a generous donation by Dr. Armin Schram, supports basic research in molecular and cellular neuroscience in Germany. To date, nineteen project grants have been awarded to independent laboratories across Germany that study questions as diverse as the regulation of gene expression during neuronal differentiation and aging, intracellular transport in neurons, synapse formation, function and plasticity, or the mechanisms that underlie neuronal network formation in the brain. By these means, the Schram Foundation strives to contribute to a better understanding of the molecular, structural, and functional basis of higher brain operations.

Since 2009, the Schram Foundation hosts a Satellite Symposium to the biennial meeting of the German Neuroscience Society in Göttingen at which results of current and past projects funded by the Foundation are presented. Keynote lectures closely related to the topic of the meeting open and close the symposium. Following this tradition, the 2015 Schram Symposium will be opened by a keynote lecture given by Peter Jonas (Klosterneuburg, Austria) who will give novel insights into the role of fast-spiking interneurons in hippocampal microcircuits. Christian Rosenmund (Berlin) will report on regulatory mechanisms of neurotransmitter release, followed by Marlene Bartos (Freiburg) who will discuss Ca^{2+} -permeable AMPA and metabotropic glutamate receptors in the regulation of synaptic plasticity in the hippocampus. The second session will be opened by Michael Kreutz (Magdeburg) who will share his recent work on the transport of proteins from the synapse to the cell nucleus, while Michael Kiebler's (Munich) presentation focuses on novel roles of the RNA-binding protein Staufen2. He will be followed by Carmen Ruiz de Almodovar (Heidelberg) who will shed light on the communication between the neuronal and vascular systems in the brain. The symposium will be closed by a keynote lecture by Rüdiger Klein (Martinsried) who will discuss the molecular logic of axon guidance in the central nervous system.

Attendance of the symposium is complimentary.



Satellite Symposium

Tuesday, March 17, 2015
13:00 – 19:00, Paulinerkirche
(Papendiek 14, 37073 Göttingen)

Chair: Dorothea Schulte and Marlene Bartos,
Frankfurt/Main and Freiburg

- 13:00 **Opening Remarks**
(Heinrich Betz / Eckart D. Gundelfinger)
- 13:10 Peter Jonas, Klosterneuburg, Austria
THE 'IN' AND 'OUT' OF FAST-SPIKING, PARVALBUMIN-EXPRESSING INTERNEURONS IN THE HIPPOCAMPUS
- 14:05 Christian Rosenmund, Berlin
REGULATION OF NEUROTRANSMITTER RELEASE BY VESICULAR GLUTAMATE TRANSPORT
- 14:35 Marlene Bartos, Freiburg
JOINT CP-AMPA AND GROUP I mGLU RECEPTOR ACTIVATION IS REQUIRED FOR SYNAPTIC PLASTICITY IN DENTATE GYRUS FAST-SPIKING INTERNEURONS
- 15:05 **Coffee Break and Poster Session**
- 16:00 Michael Kreutz, Magdeburg
WHEN SYNAPTIC PROTEINS MEET THE GENOME - PROTEIN TRANSPORT FROM SYNAPSE TO NUCLEUS
- 16:30 Michael Kiebler, Munich
NEW AND UNEXPECTED FUNCTIONS OF THE RNA-BINDING PROTEIN STAUFEN2 IN THE CNS
- 17:00 Carmen Ruiz de Almodovar, Heidelberg
NEURO-VASCULAR COMMUNICATION IN THE CENTRAL NERVOUS SYSTEM
- 17:30 **Break and Poster Session**
- 17:50 Rüdiger Klein, Martinsried
THE MOLECULAR LOGIC OF AXON GUIDANCE
- 18:45 **Closing Remarks**
(Heinrich Betz / Eckart D. Gundelfinger)



Introductory Remarks to Symposium 1

Astrocytes as new targets for antiepileptic drugs

Peter Bedner and Kjell Heuser, Bonn and Oslo (Norway)

Epilepsy is a disorder of the brain characterised by unprovoked, recurrent seizures and affects about 1% of the population worldwide. A deeper understanding of the cellular basis of the epilepsies would be essential for the identification of novel targets for therapeutic intervention. Since neuronal hyperexcitation and hypersynchronization are hallmarks of epilepsy, the search for new antiepileptic drugs (AEDs) has concentrated so far mainly on compounds that affect neuronal functions. However, the efficacy and tolerability of these drugs have not substantially improved over the past decades, and all known AEDs merely suppress the symptoms without treating the underlying disorder. Hence, new strategies for the development of more efficacious AEDs are required. In this context glial cells, astrocytes in particular, have attracted increasing attention. These cells play essential roles in brain physiology: they modulate synaptic transmission by release, uptake, degradation and recycling of transmitters, and control ion homeostasis and blood–brain-barrier integrity. Impairment of these functions has been associated with the pathophysiology of epilepsy. This symposium will highlight an alternative view on the etiopathogenesis of epilepsy and challenge the commonly accepted neurocentric view of epileptogenesis. We will bring together scientists with basic research background and practising clinicians working on different aspects of neuron-glia interactions in epilepsy. The symposium will be opened by Peter Bedner with a brief introduction to clinical and neuropathological characteristics of epilepsy and the possible role of dysfunctional astrocytes in the development and progression of the disorder. The first speaker, Tore Eid, will talk about the astrocytic regulation of glutamate homeostasis in epilepsy. Eleonora Aronica will reveal the role of astrocyte immune responses in epilepsy. Kjell Heuser will present new evidence of altered astrocytic Ca^{2+} signaling in the early stage of epileptogenesis. Finally, Peter Bedner will discuss the involvement of impaired astrocytic gap junction coupling in the development and progression of temporal lobe epilepsy.

Symposium 1

Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 10

Chair: Peter Bedner and Kjell Heuser,
Bonn and Oslo (Norway)

14:30 **Opening Remarks**

14.40 Tore Eid, New Haven, USA
ASTROCYTES, GLUTAMINE SYNTHETASE AND
EPILEPSY (S1-1)

15:05 Eleonora Aronica, Amsterdam, The Netherlands
ASTROCYTE IMMUNE RESPONSES IN EPILEPSY
(S1-2)

15:30 Kjell Heuser, Oslo, Norway
STIMULATION-INDUCED CHANGES OF
ASTROCYTIC Ca^{2+} SIGNALING DURING THE
LATENT PERIOD OF MESIAL TEMPORAL LOBE
EPILEPSY (S1-3)

15:55 Peter Bedner, Bonn
ASTROCYTE UNCOUPLING AS A CAUSE OF
HUMAN TEMPORAL LOBE EPILEPSY (S1-4)

16:20 **Concluding Remarks**



Introductory Remarks to Symposium 2

Neuronal basis of vocal communication in vertebrates - from genes to physiology to behavior

Boris Chagnaud and Steffen R. Hage, Planegg-Martinsried and Tübingen

Vocal behavior is a fundamental aspect of vertebrate communication and of uttermost importance in our everyday's life. In general, vocal communication can be subdivided into learned vocal patterns such as bird song or human speech and genetically pre-programmed vocalizations, which include most other vertebrate vocal utterances. At any time, vocal production mechanisms are inherently linked with the auditory system at each level of the brain. Such audio-vocal integration processes are crucial for proper vocal output since animals do rely on auditory feed-forward and feedback mechanisms to adapt their vocal behavior. Birds, for example, do not learn their songs without auditory perception, bats highly rely on a tight link between vocal production and auditory perception to perform proper echolocation and there is no meaningful vocal communication without auditory input in any vertebrate.

Within this conceptual framework vocalization is an ideal model with high behavioral relevance to study adaptive behavior at all organizational levels of the brain. Recent findings across vertebrate species gave novel insights into vocal production and perception mechanisms as well as into how vocal motor and auditory networks interact. The major purpose of the proposed symposium is to frame these developments into the context of auditory circuit modulation by vocal production networks across vertebrate classes (from fish to birds to bats to primates) rather than only to provide an overview of recent developments in the field of vocal pattern generation.

Research within the field of vocal production and perception mechanisms as well as audio-vocal processing strongly benefits from a wide diversity of animal models each of which is ideally suited to answer specific questions which will be reflected within this symposium. The symposium will guide the audience from brainstem-based to higher order motor pattern generating processes to cognitive control of vocal output. In addition, we will particularly focus on audio-vocal interactions and auditory-motor modulation of vocal output on each brain level.

Symposium 2

Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 101

Chair: Boris Chagnaud and Steffen R. Hage,
Planegg-Martinsried and Tübingen

14:30 **Opening Remarks**

- 14:35 Andrew H. Bass, Ithaca, USA
CENTRAL PATTERN GENERATOR FOR VOCA-
LIZATION: IN SEARCH OF A VERTEBRATE
MORPHOTYPE (S2-1)
- 15:00 Susanne Seltmann, Seewiesen
THE INFLUENCE OF SLEEP ON SONG-
RELATED NEURONAL ACTIVITY IN RA –
WHAT ROLE DOES MELATONIN PLAY? (S2-2)
- 15:10 Richard Mooney, Durham, USA
MOTOR-AUDITORY INTERACTIONS FOR
LISTENING AND LEARNING (S2-3)
- 15:35 M. Jerome Beetz, Frankfurt
ABOUT HOW CORTICAL NEURONS OF
BATS COPE WITH FAST ECHOLOCATION
SEQUENCES: MULTI-ELECTRODE AND
SINGLE-ELECTRODE RECORDINGS WITH
NATURAL ECHOLOCATION STIMULI (S2-4)
- 15:45 Steffen R. Hage, Tübingen
AUDIO-VOCAL INTEGRATION AND COGNI-
TIVE CONTROL OF VOCAL BEHAVIOUR IN
MAMMALS (S2-5)
- 16:05 Constance Scharff, Berlin
NEUROGENETIC CONTRIBUTIONS TO VOCAL
PRODUCTION LEARNING (S2-6)



Introductory Remarks to Symposium 3

DBS-underlying mechanisms

Anaïs Djodari-Irani and Christine Winter, Berlin and Dresden

Deep brain stimulation (DBS) has shown to be an efficient treatment-option in therapy-resistant neurological disorders like Parkinson's disease or dystonia. DBS is a neurosurgical treatment involving the implantation of a brain pacemaker, sending electrical impulses to specific parts of the brain. As such, DBS allows focal intervention in disturbed neuronal networks in a modifiable and reversible way, therefore successfully replacing former ablative irreversible techniques. In the last years, increasing attention has also been drawn to DBS as an alternative treatment option for therapy-refractory psychiatric diseases like obsessive-compulsive disorder and depression. However, despite the fact that this technique is widely accepted by now in the neurological field and is even approved by the Food and Drug Administration (FDA) as a treatment for essential tremor, Parkinson's disease and also dystonia, its underlying principles are not fully understood. The application of DBS in the psychiatric field led to somewhat inconsistent results due to lack of consent as to which brain areas are the most promising as DBS targets, different stimulation intensities used and various observed beneficial effects. Altogether further investigation into the underlying mechanisms of DBS is of great necessity. Consequently, in this symposium we wish to address the question of how DBS works, using different strategies. We will present different approaches from (i) the examination of neurotransmissional network plasticity over (ii) in-vivo strategies exhausting diverse animal models for evaluation of DBS-effects employing different targets and stimulation criteria and finally we will discuss (iii) cellular approach examining the effects of DBS on the immune competent cells of the brain - the microglia.

Symposium 3

Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 102

Chair: Anaïs Djodari-Irani and Christine Winter,
Berlin and Dresden

- 14:30 **Opening Remarks**
- 14:35 Sabrina Boulet, Grenoble, France
MOTIVATIONAL DISORDERS IN PARKINSON'S
DISEASE AND HIGH FREQUENCY STIMULA-
TION OF THE SUBTHALAMIC NUCLEUS: PRE-
CLINICAL STUDY IN THE RAT (S3-1)
- 15:00 Nicolas Singewald, Innsbruck, Austria
DEEP BRAIN STIMULATION IN PSYCHOPATHO-
LOGICAL MOUSE MODELS OF FEAR AND
AFFECTIVE DISORDERS (S3-2)
- 15:25 Ravit Hadar, Dresden
FROM RATS TO MEN: DEEP BRAIN STIMULA-
TION IN RODENT MODELS OF PSYCHIATRIC
AFFLICTIONS (S3-3)
- 15:50 Anaïs Djodari-Irani, Berlin
MICROGLIA: THE MISSING LINK IN DBS'
MECHANISM? (S3-4)
- 16:15 Águida Förster, Göttingen
EFFECTS OF DIFFERENT TRANSCRANIAL
DIRECT CURRENT STIMULATION (TDCS) PO-
LARITY ON MOTOR LEARNING INDUCED OF
MENTAL PRACTICE
(S3-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 4

Timing and valence in associative learning

Markus Fendt, Ayse Yarali and Bertram Gerber, Magdeburg

Memories relating to a negative event are adaptive when supporting pre-emptive avoidance, escape or attack. However, such memories can also become overwhelmingly powerful. They may trigger excessively negative psychological states and uncontrollable, maladaptive behaviours. Clearly, any process to counteract such effects will be of value. Recent research emphasizes the notion that negative events are 'Janus-faced' in the sense that there are actually two aspects worth remembering about them: what made them happen, and what made them cease.

This symposium will present the latest research from fruit flies, rats and humans to show that both aspects, respectively related to the beginning and the end of a negative event, induce distinct and oppositely valenced memories: stimuli experienced before e.g. an electric shock acquire negative value as they warn of potential threat (this process is also called fear or punishment learning), whereas stimuli experienced after an electric shock acquire positive value because they promise relief.

During this symposium we will discuss what is known, and what should be asked, about the mechanisms of such fear and relief learning. One focus will be how both these forms of learning relate to reward as well as to safety learning. We selected speakers such that perspectives also will be offered as to how this mnemonic organization relates to applied psychology. This is timely, because despite the rich literature on fear learning, little is known about the neurobiological mechanisms or the psychological corollaries of relief learning. Such knowledge would be important, however, in particular from an applied perspective: the more distinct the underlying opponent processes of fear- and relief learning are, the more likely they contribute independently to pathology, and the easier it will be to selectively interfere with either of them.

Symposium 4

Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 9

Chair: Markus Fendt, Ayse Yarali and Bertram Gerber,
Magdeburg

- 14:30 **Opening Remarks**
- 14:35 Ayse Yarali, Magdeburg
RELIEF LEARNING IN FRUIT FLIES (S4-1)
- 14:55 Markus Fendt, Magdeburg
RELIEF AND SAFETY LEARNING IN RATS:
BEHAVIORAL CHARACTERIZATION AND
NEURAL BASIS (S4-2)
- 15:15 Anushka Fernando, Oxford, UK
SAFETY SIGNALS INHIBIT FEAR BUT ARE THEY
REINFORCING? (S4-3)
- 15:35 **Coffee Break**
- 15:45 Siri Leknes, Oslo, Norway
RELIEF AND REWARD IN THE HUMAN BRAIN
(S4-4)
- 16:05 Marta Andreatta, Würzburg
PAIN RELIEF LEARNING IN HUMANS (S4-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 5

When the effect determines the cause - sensory consequences of self-action and their relevance for planning, control, and perceptual interpretation of one's behaviour

Alexander Gail and Axel Lindner, Göttingen and Tübingen

In this symposium we highlight the idea that the expected sensory effects of action play a profound role in processes related both (i) to the perceptual distinction of self-produced from external sensory events, and (ii) to the cause of these effects – namely action planning and control.

How is an organism able to distinguish sensory events that are self-produced from events that arise from the environment? It has been suggested that the brain uses corollary discharge of motor commands to predict the sensory consequences of motor acts. By subtracting such sensory predictions – also referred to as forward models - from the actual sensory afference, sensory information that is self-produced could be attenuated. This is needed, for instance, to guarantee the visual percept of a stable environment despite eye movements.

Psychophysical evidence clearly supports the concept of corollary discharge in explaining perceptual stability. Yet, only quite recently we started to understand the neural underpinnings of corollary discharge pathways in primates. In this symposium Robert Wurtz will address how the perception of space is modified by interrupting corollary discharge in monkeys.

But sensory predictions of action consequences are not just relevant for perceptual stability. They also mark an essential concept in adaptive motor control. Reza Shadmehr will show how the cerebellum represents predictive forward models, underlying the high accuracy of eye movement execution.

Finally we will address how the motor system solves the inverse problem, namely finding the “correct” motor cause for a desired sensory effect. Computational theories suggest that so-called inverse models serve this ability. Richard Hahnloser will provide us important computational and empirical insights into inverse models for motor control in songbirds.

The speakers in our symposium represent different disciplines and take complimentary perspectives on sensorimotor behaviour. Thereby, their converging evidence underlines the importance of treating perception and action as an integrated, mutually dependent closed-loop system.



Symposium 5

*Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 104*

Chair: Alexander Gail and Axel Lindner,
Göttingen and Tübingen

- 14:30 **Opening Remarks**
- 14:35 Robert Wurtz, Bethesda, USA
VISUAL PERCEPTION DEPENDS ON AN
EFFERENCE COPY OF SACCADDES (S5-1)
- 15:00 Reza Shadmehr, Baltimore, USA
CEREBELLAR CONTRIBUTIONS TO LEARNING
SENSORY CONSEQUENCES OF ACTION (S5-2)
- 15:25 Richard Hahnloser, Zurich, Switzerland
INVERSE MODELS FOR MOTOR CONTROL -
A SONGBIRD PERSPECTIVE (S5-3)
- 15:50 Manuel J. Roth, Tübingen
A DOMAIN-GENERAL ROLE OF THE CEREBEL-
LUM IN FINE-TUNING SENSORY PREDICTIONS
(S5-4)
- 16:05 Matthias Nau, Tübingen
AREA V3A ENCODES OBJECTIVE MOTION
VELOCITY REGARDLESS OF EYE MOVEMENT
VELOCITY (S5-5)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 6

Neural mechanisms underlying spatial orientation in insects

Uwe Homberg and Keram Pfeiffer, Marburg

Orientation in space includes sophisticated behaviors such as long-range migration and vector navigation, as well as simpler behaviors like maintaining a straight heading. Research on different insect species increasingly points to the central complex (CX) in the insect brain as the neural substrate mediating various aspects of spatial orientation. The symposium presents recent advances in understanding this neuropil's role in spatial orientation. Roy Ritzmann studies the neural control of turning and climbing behavior in cockroaches. Multi-unit recordings show that activity in units of the CX is closely correlated with walking speed and suggest a key role of the CX in locomotor decisions. Roland Strauss investigates short- and long-term memories in visual orientation of fruit flies. Wild type flies decide on a target and maintain walking direction even when a second target is presented in alternation. Specific mutants of the CX lack this memory and perform zigzag movements toward the two alternating targets. In addition, a specific part of the fly CX is essential to learn and use information about the fly's own body size for decisions on gap crossing. Keram Pfeiffer and Basil el Jundi analyze neural mechanisms in sky compass orientation. The sky polarization pattern and colour gradient are used by insects as orientation cues. Keram Pfeiffer reports on the integration of chromatic and polarization cues in the CX of bumblebees. Basil el Jundi shows that nocturnal dung-beetles roll dung balls away from a dung pat in a straight compass course determined by the low light levels of polarized moon light. Intracellular recordings suggest that polarization-sensitive neurons of the CX play a major role in this behaviour. Two student presentations address issues in fly optomotor behavior (Franziska Toepfer) and processing of sky compass signals in locusts (Tobias Bockhorst). Taken together, the comparative approaches illustrate that the CX serves a variety of spatial orientation tasks, including sky compass orientation and visual landmark memory.

Symposium 6

Wednesday, March 18, 2015
14:30 – 16:30, Lecture Hall 8

Chair: Uwe Homberg and Keram Pfeiffer,
Marburg

- 14:30 Roy E. Ritzmann, Cleveland, USA
CENTRAL COMPLEX ACTIVITY ASSOCIATED
WITH CONTEXT AND STATE DEPENDENT
SPATIAL ORIENTATION (S6-1)
- 14:55 Roland Strauss, Mainz
SHORT-LIVED AND LONG-TERM MEMORIES
IMPROVE SPATIAL ORIENTATION IN *DROSOPHILA*
(S6-2)
- 15:20 Franziska Toepfer, Würzburg
PERCEPTUAL HYPOTHESES IN *DROSOPHILA*
VISION (S6-3)
- 15:30 Keram Pfeiffer, Marburg
PROCESSING OF CHROMATIC AND POLA-
RIZED LIGHT STIMULI IN THE CENTRAL BRAIN
OF THE BUMBLEBEE (S6-4)
- 15:55 Basil el Jundi, Lund, Sweden
NEURAL CODING OF THE HIERARCHY OF
CELESTIAL COMPASS CUES IN AN INSECT
BRAIN (S6-5)
- 16:20 Tobias Bockhorst, Marburg
CONTEXT-DEPENDENT SIGNALING OF SKY-
COMPASS CUES IN AN INSECT BRAIN
(S6-6)



Introductory Remarks to Symposium 7

Contribution of astrocyte connexins to neuroglial interaction in the healthy and diseased brain

Christian Steinhäuser, Bonn

The last decade has seen the emergence of a new concept of brain signaling that has challenged the prevailing “neurocentric” view. Indeed, increasing evidence has established that synaptic plasticity, neuronal activity and survival should also be considered as resulting from an active interplay of neurons with glial cells. Such dynamic and metabolic neuroglial interactions have been identified in healthy as well as in diseased situations suggesting a role of glia in normal brain functions and pathologies. Interestingly, compared to neurons, a characteristic feature of glial cells, in particular astrocytes, is their high expression level of connexins. Once at the membrane, these proteins support two channel functions: formation of gap junction intercellular channels and hemichannels allowing, respectively, direct communication between the cytoplasm of adjacent cells and exchanges between the intra- and extracellular medium. The participants to this symposium will cover several aspects of neuro-glial interactions in which astroglial connexins are involved either in a physiological function or in a pathological context. This will include: i) the analysis of connexin 30-mediated gap junctional communication in thalamic panglial networks between astrocytes and oligodendrocytes which will be presented by a young PhD student, Stephanie Griemsmann (Bonn, Germany); ii) the role of connexin 43 in the regulation of sleep homeostasis presented by Phil Haydon (Boston, USA), an internationally recognized expert in the field who has initially proposed the concept of the “tripartite synapse” associating an astrocyte to the pre- and postsynaptic elements; iii) the interaction between connexin 43 and c-Src activation, proliferation and glucose uptake in astroglioma presented by a young investigator, Arantxa Taberner (Salamanca, Spain) and iv) the contribution of connexin 43 hemichannel activity in reactive astrocytes to neuronal dysfunctions studied in a murine model of Alzheimer’s disease, the APP/PS1 mouse, which will be presented by a postdoctoral investigator Chenju Yi (Paris, France). This program should be of interest to a large audience of neuroscientists: i) by offering a broad view of several aspects of neuro-glial interactions in normal brain function and diseases, but also ii) by putting the light on an important characteristic of astrocytes, which concerns their high content of connexins, providing the basis of intercellular networks as well as of a pathway for the release of active molecules.

Symposium 7

Thursday, March 19, 2015
11:30 – 13:30, Lecture Hall 10

Chair: Christian Steinhäuser, Bonn

11:30 **Opening Remarks**

11:40 Stephanie Griemsmann, Bonn
CHARACTERIZATION OF PANGLIAL GAP
JUNCTION NETWORKS IN THE MURINE
BRAIN (S7-1)

12:00 Phil G. Haydon, Boston, USA
DELETION OF ASTROCYTIC CONNEXIN 43
CAUSES A NARCOLEPSY-LIKE PHENOTYPE
(S7-2)

12:20 Arantxa Tabernero, Salamanca, Spain
RELEVANCE OF THE INTERACTION BET-
WEEN CONNEXIN43 AND C-SRC IN ASTRO-
CYTOMA CELLS (S7-3)

12:40 Chenju Yi, Paris, France
CHRONIC HEMICHANNEL ACTIVATION IN
ASTROCYTES CONTRIBUTES TO NEURONAL
SUFFERING IN A MURINE MODEL OF ALZ-
HEIMER'S DISEASE (S7-4)

13:00 Anne C. Wolfes, Göttingen
CALCIUM SIGNALLING AND VESICLE-RELATED
PROTEINS IN DIFFERENT ASTROCYTE CULTURE
TYPES (S7-5)

13:10 Alenka Gucek, Ljubljana, Slovenia
FUSION PROPERTIES OF GLIOTRANSMITTER
VESICLES IN CULTURED ASTROCYTES (S7-6)

13:20 **Concluding Remarks**



Introductory Remarks to Symposium 8

The ontogeny of entorhinal circuitry and function

Ileana Hanganu-Opatz and Dietmar Schmitz, Hamburg and Berlin

The ability to internally represent the external space and to accordingly guide the navigation-based behavior mainly relies on the specific activation of several areas in the medial temporal lobe. The identification of place cells in the hippocampus as well as of grid, head-direction and border cells in the entorhinal cortex led the research focus on these two brain areas and their functional interplay. While the neuronal mechanisms underlying the spatial memory in adult have been largely investigated, only recently their ontogeny in relationship to the maturation of entorhinal-hippocampal networks has been experimentally addressed. The proposed symposium aims at providing a comprehensive overview of recent key findings on the emergence of information processing and encoding in the entorhinal networks. The lecture by Menno Witter will set the anatomical framework of early hippocampal-entorhinal communication and introduce the patterning mechanisms of parahippocampal and hippocampal projections during neonatal and juvenile development of rodents. This emerging connectivity represents the substrate of functional coupling within neuronal networks, including the hippocampus, entorhinal cortex and prefrontal cortex. The ability of oscillatory patterns of activity to mediate the directed interactions between these areas and set the initial wiring of neuronal networks involved in mnemonic abilities will be highlighted in the talk by Ileana Hanganu-Opatz. The last two talks will focus on the establishment of circuitry responsible for the neural representation of space. The lecture by Rhiannon Meredith aims at identifying early topographic modules in the entorhinal cortex, the coupling by synchrony of which will lead to grid cell entrainment at juvenile age. The talk by Francesca Cacucci will highlight that the maturation of spatial representation involves not only the entorhinal networks, but results from a tight interplay within entorhinal-hippocampal networks in response to environmental boundaries. These recent insights from neuroanatomy, electrophysiology, imaging, and behavior represent a synopsis of current understanding of how mnemonic ontogeny is encoded into developing neural circuits.

The symposium is supported by the DFG Priority Program SPP 1665 "Resolving and manipulating neuronal networks in the mammalian brain".

Symposium 8

Thursday, March 19, 2015
11:30 – 13:30, Lecture Hall 103

Chair: Ileana Hanganu-Opatz and Dietmar Schmitz,
Hamburg and Berlin

11:30 **Opening Remarks**

- 11:40 Menno Peter Witter, Trondheim, Norway
POSTNATAL DEVELOPMENT OF PARAHIPPO-
CAMPAL-HIPPOCAMPAL CONNECTIVITY
(S8-1)
- 12:00 Ileana Hanganu-Opatz, Hamburg
SEARCHING FOR FEEDBACK: CONTRIBUTION
OF THE ENTORHINAL PROCESSING TO THE
DEVELOPMENT OF PREFRONTAL-HIPPOCAM-
PAL COMMUNICATION (S8-2)
- 12:20 Rhiannon Meredith, Amsterdam, The Netherlands
PACEMAKERS AND WAVES: DEVELOPING
PRE-GRID CELL NETWORKS OF RODENT
MEDIAL ENTORHINAL CORTEX (S8-3)
- 12:40 Francesca Cacucci, London, UK
THE DEVELOPMENT OF THE NEURAL MAP OF
SPACE IN THE HIPPOCAMPAL FORMATION
(S8-4)
- 13:00 Franziska Bender, Berlin
OPTOGENETIC CONTROL OF HIPPOCAMPAL
THETA OSCILLATIONS REVEALS THEIR FUNC-
TION IN LOCOMOTION VIA HIPPOCAMPUS
TO LATERAL SEPTUM PATHWAY (S8-5)
- 13:10 Anne-Kathrin Theis, Berlin
BACKPROPAGATING ACTION POTENTIALS
MEDIATE PLASTICITY OF SPINE CALCIUM
DYNAMICS IN THE MEDIAL ENTORHINAL
CORTEX (S8-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 9

Processing of acoustic pulse patterns: Common themes in different brains?

Berthold Hedwig and Stefan Schöneich, Cambridge (UK)

The processing of sound patterns is essential for acoustically communicating species throughout the animal kingdom and therefore a specific function of many nervous systems. One fundamental aspect is how the temporal pattern of amplitude modulated signals is transformed into a neural representation of signal periodicities. Recent progress in analysing the underlying neuronal processing may point to some common principles in terms of cellular properties and neural algorithms. The symposium aims at a comparative approach that draws its examples from vertebrate, invertebrate and computational models. It will elucidate the neuronal underpinning of transformation of amplitude modulated sound patterns into a signal representation by neural activity. The central question we like to pose is: To what degree have different types of brains come up with similar solutions for the same problem?

Our intention is to bring together scientists who work on the processing of temporal sound patterns in different acoustically communicating animals (e.g. mouse, frog and cricket) and with a theoretical approach. The recent progress in analysing the neuronal mechanisms underlying temporal auditory processing may point to some common principles in terms of cellular properties and neural algorithms. These principles for the detection and recognition of amplitude modulated sound patterns have a strong behavioural relevance for acoustic communication and also for processing the temporal aspects of speech and music.

Symposium 9

*Thursday, March 19, 2015
11:30 – 13:30, Lecture Hall 8*

Chair: Berthold Hedwig and Stefan Schöneich,
Cambridge (UK)

- 11:30 **Opening Remarks**
- 11:40 Stefan Schöneich, Cambridge, UK
NEURAL NETWORK AND MECHANISM FOR
SOUND PATTERN RECOGNITION IN THE
CRICKET BRAIN (S9-1)
- 12:00 Jakob Christensen-Daalsgard, Odense, Denmark
TEMPORALLY SELECTIVE PROCESSING OF
COMMUNICATION SIGNALS BY FROG
AUDITORY MIDBRAIN NEURONS (S9-2)
- 12:20 Anna K. Magnusson, Stockholm, Sweden
KEEPING TIME: PROCESSING OF AUDITORY
COMMUNICATION CUES IN THE BRAINSTEM
(S9-3)
- 12:40 Dominik F. Aschauer, Mainz
CHRONIC CALCIUM IMAGING OF NEURONAL
ENSEMBLES IN THE MOUSE AUDITORY CORTEX
(S9-4)
- 13:00 Leo van Hemmen, Munich
HOW TO MEASURE SIGNAL PERIODICITY,
IF YOU MUST? (S9-5)



Introductory Remarks to Symposium 10

Microcephaly and developmental defects of the brain

Angela M. Kaindl, Berlin

Microcephaly, the clinical sign of reduced brain size, can be caused by congenital neurodevelopmental disorders. It has a high prevalence of about 2% in the general population and is frequently associated with intellectual disability. In corresponding pedigrees, a multitude of mutant genes has been identified in the past decades, but further genetic heterogeneity exists, and mechanisms by which these regulate cognitive function and brain size remain to be elucidated. For congenital microcephaly, various disorders of stem cell survival, proliferation and specification as well as defects in the maintenance of postmitotic cells have been reported. In this symposium, we discuss pathomechanisms underlying developmental defects of the brain that lead to microcephaly and intellectual disability. Specifically, we discuss 1) novel hereditary microcephalies, 2) defects in neuronal specification of stem cells in cortical development that lead to microcephaly, 3) evolutionary concepts and stem cells in microcephaly, and 4) models of brain development and microcephaly. The subject has a broad appeal for all aspects of basic research and also a high clinical relevance.

Symposium 10

Thursday, March 19, 2015
11:30 – 13:30, Lecture Hall 104

Chair: Angela M. Kaindl, Berlin

11:30 **Opening Remarks**

11:40 Wieland B. Huttner, Dresden
NEURAL STEM AND PROGENITOR CELLS AND
NEOCORTEX EXPANSION IN DEVELOPMENT
AND EVOLUTION (S10-1)

12:05 Pierre Vanderhaeghen, Brussels, Belgium
MECHANISMS OF MICROCEPHALY, AND THEIR
LINKS TO DEVELOPMENT AND EVOLUTION
OF THE HUMAN BRAIN
(S10-2)

12:30 Magdalena Renner, Jürgen A. Knoblich, Vienna,
Austria
MODELING HUMAN BRAIN DEVELOPMENT
AND DISEASE IN 3D CULTURE (S10-3)

12:55 Angela M. Kaindl, Berlin
MICROCEPHALY – FROM BEDSIDE TO BENCH
(S10-4)

13:20 **Concluding Remarks**



Introductory Remarks to Symposium 11

Ultramicroscopy for imaging the central nervous system and its pathological alterations

Edgar R. Kramer, Hamburg

Being able to visualize neuronal connections is the basis to understand the physiological function of complex cellular networks such as the central nervous system. And imaging pathological alterations in the brain and spinal cord enables investigating the etiology of their neurological malformations during development and aging.

Ultramicroscopy is an excellent tool to accomplish these two tasks by using light sheet illumination to image fluorescently labeled single cells, cell populations, neuronal networks but also protein aggregates and cell lesions in complete brains or spinal cords in subcellular resolution without the need for the cumbersome classical histology. The critical steps are first the fluorescently labeling of the structure of interest in the nervous system, second the clearing procedure to transform the brain or spinal cord into a glass body without bleaching the fluorescent signal and third the high resolution imaging and data processing to obtain a representative 3D animation. Although this novel technique has revealed already exciting insides into the nervous system development and maintenance and ultramicroscopic setups are now commercially available, it is still pioneering work to develop this technique further and elucidate its full potential.

In this symposium we will present on one hand new technical developments that improve and widen the use of ultramicroscopy to study the central nervous system of rodents and on the other hand new applications of these method to address central questions in the neuroscience field such as the monosynaptic connection map to the entorhinal cortex, the absolute quantification of dopaminergic neurons affected in Parkinson's disease patients, the distribution of Alzheimer plaques in the brain, and the stimulation of axonal regeneration in the spinal cord.

This symposium is supported by LaVision BioTec GmbH in Bielefeld (www.lavisionbiotec.com).

Symposium 11

Thursday, March 19, 2015
11:30 - 13:30, Lecture Hall 9

Chair: Edgar R. Kramer, Hamburg

- 11:30 **Opening Remarks**
- 11:35 Nina Jährling, Vienna, Austria
TECHNICAL ADVANCES IN ULTRAMICROSCOPY AND THEIR APPLICATION FOR INVESTIGATING NEURONAL DEVELOPMENT AND DISEASE (S11-1)
- 11:55 Günter Giese, Heidelberg
VISUALIZING NEURONAL STRUCTURES IN TRANSLUCENT ADULT MOUSE BRAIN WITH LIGHT SHEET FLUORESCENCE MICROSCOPY (S11-2)
- 12:20 Andrea Tedeschi, Bonn
RNA-SEQ SCREEN IDENTIFIES CRITICAL REGULATORS OF AXON GROWTH AND REGENERATION (S11-3)
- 12:45 Ulrich Leischner, Jena
IMAGING OF WHOLE-MOUNT SAMPLES WITH μM RESOLUTION USING LIGHT-WEDGE-MICROSCOPY (S11-4)
- 13:05 Edgar R. Kramer, Hamburg
IMAGING AND QUANTIFICATION OF DOPAMINERGIC NEURONS OF THE MOUSE USING ULTRAMICROSCOPY (S11-5)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 12

Breaking News I

Carmen Smarandache-Wellmann, Cologne

Registered students had the choice to either register with a poster presentation or apply for an oral communication. The program committee has selected the young investigator presentations from these submissions and assigned them either to a symposium or to one of the two Breaking News symposia (symposia 12 and 23).

The following students were selected to give a short communication in Symposium 12 – Breaking News I:

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- 14:30 **Opening Remarks**
- 14:35 Anil Annamneedi, Magdeburg
CONDITIONAL MUTANTS OF BASSOON IN
EXCITATORY FOREBRAIN SYNAPSES AND
DOPAMINERGIC SYNAPSES, TO STUDY THEIR
CONTRIBUTION IN LEARNING AND MEMORY
PROCESSES (S12-1)
- 14:45 Sophie Batsching, Würzburg
LEARNED HELPLESSNESS IN *DROSOPHILA*
MELANOGASTER- DOES IT TRANSFER TO
OTHER BEHAVIOR? (S12-2)
- 14:55 Lisa K. J. Clausen, Oxford, UK
EXPLORING THE EFFECTS OF β 2-ADRENERGIC
RECEPTOR AGONISTS IN DOK7 CONGENITAL
MYASTHENIC SYNDROME (S12-3)
- 15:05 Bettina Hein, Frankfurt/Main
CHRONIC STUDY OF SPONTANEOUS ACTIVITY
AND ORIENTATION SELECTIVITY IN VISUAL
CORTEX AROUND EYE OPENING (S12-4)

Symposium 12

Thursday, March 19, 2015
14:30 – 16:30, Lecture Hall 105

Chair: Carmen Smarandache-Wellmann, Cologne

- 15:15 Jan-Hendrik Heyne, Magdeburg
OPPOSING EFFECTS OF CAMP-EFFECTORS
PKA AND EPAC ON ACTIVITY-DEPENDENT
BDNF SECRETION IN DISSOCIATED HIPPO-
CAMPAL NEURONS (S12-5)
- 15:25 **Break**
- 15:35 Johannes Mayer, Rostock
INFLUENCE OF MTDNA SINGLE NUCLEOTIDE
POLYMORPHISMS ON AGE DEPENDENT
CHANGES OF MEMORY FUNCTION (S12-6)
- 15:45 Julia Michely, Saarbrücken
THE IMPACT OF MICRORNAS IN MEMORY
FORMATION PROCESSES IN THE HONEYBEE
(*APIS MELLIFERA*) (S12-7)
- 15:55 Esther Nibbeling, Groningen, The Netherlands
IDENTIFICATION OF NOVEL SPINOCEREBELLAR
ATAXIA DISEASE GENES USING NEXT GENE-
RATION SEQUENCING APPROACHES (S12-8)
- 16:05 Steffen Platschek, Frankfurt/Main
COMPUTATIONAL MODELING OF LESION
INDUCED DENDRITIC REORGANIZATION
(S12-9)
- 16:15 Kerstin Wernecke, Magdeburg
THE OLFACTORY HOLE-BOARD TEST: A NEW
PARADIGM TO STUDY BEHAVIOR TO BIOLO-
GICALLY-RELEVANT ODORS (S12-10)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 13

Functional consequences of sensory loss and restoration

Stephen Lomber, London, Canada

Plasticity is the neural mechanism by which complex nervous systems adjust themselves to their environment. Adaptive, or compensatory plasticity is a part of this overall process resulting from the loss of a class (or modality) of sensory inputs that is accompanied by a corresponding expansion of the remaining systems. Not only does this process provide some substitute for the lost modality, but the additional circuitry also conveys enhanced abilities to the remaining systems. Developmental studies of the deaf and blind, as well as recent studies in mature subjects, demonstrate remarkable multisensory plasticity throughout the cerebrum. As hearing can be restored through cochlear implants, and more recently sight can be restored with retinal prosthetics, sensory deprivation represents an opportunity to study the capacity of cortical plasticity within and between modalities. The symposium brings together information from both human and animal studies examining functional compensations following deafness and blindness, and the changes that occur following the initiation of hearing and sight. Speakers will describe psychophysical, imaging, electrophysiological, and anatomical studies performed to reveal the functional consequences and underlying mechanisms of crossmodal plasticity.

Symposium 13

Thursday, March 19, 2015
 14:30 – 16:30, Lecture Hall 104

Chair: Stephen Lomber, London (Canada)

- 14:30 **Opening Remarks**
- 14:35 Stephen Lomber, London, Canada
 DEAF AUDITORY CORTEX MEDIATES ENHANCED FACE PERCEPTION IN THE CONGENITALLY DEAF (S13-1)
- 15:00 Andrej Kral, Hannover
 PLASTICITY WITH SINGLE-SIDED DEAFNESS: REPRESENTATIONAL MAPS AND BINAURAL INTERACTIONS (S13-2)
- 15:25 Brigitte Roeder, Hamburg
 SENSITIVE PHASES FOR THE DEVELOPMENT OF MULTISENSORY PROCESSES (S13-3)
- 15:50 Amir Amedi, Jerusalem, Israel
 THE NEURAL CORRELATES OF HEARING COLORS AND SHAPES: INSIGHTS FROM DARKNESS ON BRAIN PLASTICITY AND STABILITY (S13-4)
- 16:15 Blake Edward Butler, London, Canada
 CORTICAL PLASTICITY FOLLOWING SENSORY DEPRIVATION: CHARACTERIZING THE PATTERNS OF THALAMOCORTICAL AND CORTICOCORTICAL PROJECTIONS IN EARLY- AND LATE-DEAF CATS (S13-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 14

Recent advances in basal ganglia research: action selection, movement and pathologies

Robert Schmidt and Arvind Kumar, Freiburg and Freiburg/Stockholm (Sweden)

Recent discoveries have changed our view on how movements are selected and executed through basal ganglia pathways. In particular, classic concepts of processing in the direct and indirect pathways have been challenged and modified. For instance, the massive backprojection of so-called arky pallidal neurons from the globus pallidus to the striatum calls for an update in the simplified feed-forward description of the basal ganglia. Specifically, the arky pallidal neurons might inhibit a striatal "Go" signal during the successful suppression of movements (Schmidt). Therefore, it is crucial to understand the integration of multi-sensory excitatory and inhibitory inputs in the striatum to guide action selection (Silberberg). On a systems level the striatum can function as a decision threshold to facilitate action selection (Bahuguna). Besides these functional roles of basal ganglia circuits in normal behavior, the classic description of direct and indirect pathways was also instrumental to understand behavioral deficits in neurological disorders like Parkinson's disease. However, the limitations of this simplified concept have also become apparent. An extended approach includes the oscillatory dynamics of the basal ganglia. Neural oscillations in basal ganglia circuits have been strongly associated with Parkinson's disease and advances in understanding the pathological activity are complemented by pioneering advances in treatment (Brown). Finally, de la Crompe presents how the selective optogenetic manipulation of different basal ganglia subregions affects neural oscillations related to Parkinson's disease. The goal of this symposium is to bring together clinical, experimental and theoretical researchers interested in basal ganglia function to discuss these recent developments in the field.

Symposium 14

Thursday, March 19, 2015
14:30 – 16:30, Lecture Hall 8

Chair: Robert Schmidt and Arvind Kumar, Freiburg and
Freiburg/Stockholm (Sweden)

14:30 **Opening Remarks**

14:35 Robert Schmidt, Freiburg
DYNAMICS OF BASAL GANGLIA CIRCUITS
DURING MOVEMENT INITIATION AND
SUPPRESSION (S14-1)

15:00 Gilad Silberberg, Stockholm, Sweden
MICROCIRCUITS UNDERLYING MULTISEN-
SORY INTEGRATION IN THE MOUSE STRIATUM
(S14-2)

15:25 Jyotika Bahuguna, Freiburg
EXISTENCE AND CONTROL OF GO/NO-GO
DECISION TRANSITION THRESHOLD IN THE
STRIATUM (S14-3)

15:40 Peter Brown, Oxford, UK
PATHOLOGICAL NEURONAL SYNCHRONI-
SATION IN PARKINSON'S DISEASE AND ITS
CONSEQUENCES (S14-4)

16:05 Brice de la Crompe, Bordeaux, France
OPTOGENETIC MAPPING OF NETWORK
DYNAMIC IN BASAL GANGLIA (S14-5)

16:20 **Concluding Remarks**



Introductory Remarks to Symposium 15

Is insect odor transduction primarily based upon an ORCO-dependent ionotropic mechanism or on metabotropic cascades?

Monika Stengl, Kassel

Insect odor transduction is still under lively debate. Insect olfactory receptors (ORs) are 7TM receptors which adopt an inverse membrane topology. A conserved coreceptor (ORCO) is a chaperon which locates ORs to dendritic membranes of sensory neurons. In addition ORCO is suggested to form a heteromeric ligand-gated ion channel together with ORs. Contradicting results suggest either solely ionotropic, or solely metabotropic, or both ionotropic and metabotropic mechanisms for insect odor transduction. In this symposium the four main talks report the involvement of different metabotropic transduction cascades in insect odor transduction even in the same insect species. We will focus mainly on odor transduction in *Drosophila* and on the crosstalk between different signal transduction cascades. We will discuss the apparently contradicting results and different hypotheses to come to a conclusion how odor transduction in insects is solved by evolution.

Symposium 15

Thursday, March 19, 2015
14:30 – 16:30, Lecture Hall 10

Chair: Monika Stengl, Kassel

- 14:30 **Opening Remarks**
- 14:35 Robin Schumann, Kassel
THE CONTRIBUTION OF METABOTROPIC
SIGNAL TRANSDUCTION CASCADES IN
INSECT OLFACTION (S15-1)
- 14:55 Eva Neuhaus, Jena
THE STIMULATORY $G\alpha S$ PROTEIN IS INVOLVED
IN OLFACTORY SIGNAL TRANSDUCTION IN
DROSOPHILA (S15-2)
- 15:15 Giovanni Galizia, Konstanz
OLFACTORY TRANSDUCTION IN *DROSOPHI-
LA MELANOGASTER* - THE CONTRIBUTION
OF SOME G PROTEINS (S15-3)
- 15:35 Dieter Wicher, Jena
FUNCTION AND REGULATION OF INSECT
ODORANT RECEPTORS (S15-4)
- 15:55 Alpha Renner, Hilzingen
RAPIDLY RESPONDING OLFACTORY RECEPTOR
NEURONS IN *DROSOPHILA MELANOGASTER*
(S15-5)
- 15:15 **Outlook**



Introductory Remarks to Symposium 16

Molecular, neuronal and behavioural effects of oxytocin: a translational approach

Inga D. Neumann and Valery Grinevich, Regensburg and Heidelberg

The neuropeptide oxytocin (OXT) - often popularly dubbed the "love hormone" - currently attracts scientific attention due to its profound pro-social, anxiolytic and anti-stress effects. Although an abundant variety of human studies describes its use after intranasal application, underlying neurobiological mechanisms of these behavioural and physiological effects are less well understood. The symposium will bring together experts in the fields of neuroanatomy (V. Grinevich, Heidelberg), electrophysiology (R. Stoop, Lausanne), and behavioural/molecular neuroendocrinology (I. Neumann, Regensburg) with a human researcher (J. Bartz, Montreal) to discuss important aspects of OXT actions, their variability and their translational value.

V. Grinevich will focus on the morphological transformations of the OXT system during vertebrate evolution, in particular the co-development of OXT immunoreactive projections in the brain and the establishment of social and emotional behaviours. Using virus-based vectors he explores anatomical features of OXT neurons in rodents, including their projections to forebrain and limbic regions. Using optogenetics in combination with *in vitro* electrophysiology, he shows neuronal responsiveness and fear-reducing effects after optically evoked axonal OXT release. R. Stoop combines fluorescent retrograde tracing of projections from the central amygdala (CeA) to areas modulating behavioural and autonomic fear responses with *in vitro* electrophysiology. He identified CeA projections from separate neuronal populations with different electrophysiological characteristics and OXT responsiveness *in vitro* and *in vivo* in the context of fear conditioning. I. Neumann will focus on the brain OXT system and its involvement in non-social and social anxiety and fear in rodent models. Her group monitored the activation of subsequent intracellular signaling cascades in response to acute or chronic OXT and binding to its G-protein coupled receptors; activation of the MAP kinase and CREB pathways underlie the anxiolytic and anti-stress effects of OXT, respectively, both in a social and non-social context. J. Bartz will present evidence from human data showing that OXT effects are highly variable due to the individual, partly genetically determined, variability of the endogenous OXT system with the emergence of both pro- and anti-social effects. These human data are essential for the development of OXT as a potential treatment option in diseases such as social anxiety disorders, schizophrenia or autism.

Symposium 16

Thursday, March 19, 2015
14:30 – 16:30, Lecture Hall 9

Chair: Inga D. Neumann and Valery Grinevich,
Regensburg and Heidelberg

- 14:30 Valery Grinevich, Heidelberg
CENTRAL OXYTOCINERGIC PATHWAYS AND
THEIR INVOLVEMENT IN SOCIALITY (S16-1)
- 14:55 Ron Stoop, Lausanne, Switzerland
NEUROMODULATION BY OXYTOCIN IN
THE CENTRAL AMYGDALA: AN IN VITRO AND
IN VIVO OPTOGENETIC AND ELECTRO-
PHYSIOLOGICAL DISSECTION OF THE UN-
DERLYING CIRCUITRY (S16-2)
- 15:20 Inga Neumann, Regensburg
INTRANEURONAL SIGNALING CASCADES
MEDIATING OXYTOCIN ON ANXIETY AND
STRESS REGULATION: EFFECTS OF CHRONIC
TREATMENT (S16-3)
- 15:45 Jennifer A. Bartz, Montreal, Canada
OXYTOCIN, ATTACHMENT AND THE SELF IN
RELATION TO OTHER (S16-4)
- 16:10 Rohit Menon, Regensburg
EPIGENETIC ADAPTATIONS OF OXYTOCIN
SYSTEM DURING SOCIAL FEAR CONDITIO-
NING (S16-5)
- 16:20 Ferdinand Althammer, Heidelberg
FEAR ACTIVATED-GENETIC TARGETING OF
OXYTOCIN NEURONS AND THEIR BEHA-
VIORAL EFFECTS (S16-6)



Introductory Remarks to Symposium 17

Regeneration in the injured spinal cord - hopes and perspectives

Antal Nógrádi, Szeged, Hungary

Spinal cord injury leads to severe loss of grey and white matter and subsequent deficit of motor and sensory functions below the lesion. In the mammalian CNS very little regeneration occurs following spinal cord injury, therefore these deficits remain permanent and often fatal. On the other hand, anamniotes possess a remarkable regenerative and neurogenic capacity, which may carry very important knowledge for the strategies aiming at the repair of the injured mammalian cord. Apart from the immediate morphological damage and functional loss there are late-onset consequences, such as incontinence, spasticity and chronic pain which often are more difficult for the patients to tolerate than the sudden loss of motor function. As to our present knowledge there are very limited treatment strategies for spinal cord injured patients. However, at the preclinical level there are very promising approaches which suggest that the regeneration inhibiting effects within the mammalian spinal cord can be overcome and lost function can be at least partially restored.

The symposium speakers will focus on the complexity of the spinal cord injuries from various aspects. Thomas Becker (University of Edinburgh) will present their results on zebrafish that underwent spinal cord injury but showed extensive axonal regeneration and neurogenic capacity to generate motoneurons. Laurent Vinay (Institut de Neurosciences de la Timone, Marseille) is interested in the basic mechanisms of spasticity and chronic pain which develop several weeks or months following spinal cord injury. Recent results from his laboratory may lead to successful treatment of these terrible conditions. Urszula Slawinska (Nencki Institute, Warsaw) has been working for many years on the restoration of locomotor function below the level of a transection injury. Her laboratory, in close collaboration with Larry Jordan in Winnipeg has successfully transplanted embryonic 5-HT tissue into the injured cord or has applied 5-HT agonists to activate the hind limb central pattern generator. Our laboratory at University of Szeged has provided evidence that transplantation of a neuroectodermal stem cell line dramatically reduces micro- and astroglial upregulation in the injured spinal cord and thus prevents secondary damage and deposition/expression of axonal growth-inhibiting molecules around the injury. These favorable processes in the spinal cord microenvironment promote axonal regeneration and reorganization of the local circuitry.

Symposium 17

Thursday, March 19, 2015
14:30 – 16:30, Lecture Hall 105

Chair: Antal Nógrádi, Szeged (Hungary)

14:30 **Opening Remarks**

14:35 Thomas Becker, Edinburgh, UK
NEURONAL REGENERATION IN THE SPINAL
CORD OF ADULT ZEBRAFISH (S17-1)

15:00 Laurent Vinay, Marseille, France
NEW PERSPECTIVES FOR THE TREATMENT OF
SPASTICITY AND NEUROPATHIC PAIN AFTER
SPINAL CORD INJURY (S17-2)

15:25 Urszula Slawinska, Warsaw, Poland
SEROTONINERGIC CONTROL OF LOCOMO-
TOR HINDLIMB MOVEMENTS – PROSPECTIVE
STRATEGY FOR RESTORING LOCOMOTION
AFTER SPINAL CORD INJURY (S17-3)

15:50 Antal Nógrádi, Szeged, Hungary
REGENERATION IN THE INJURED RODENT
CORD INDUCED BY GRAFTED STEM CELLS:
MULTIPLE MECHANISM (S17-4)

16:15 Krisztián Pájér, Szeged, Hungary
HUMAN iPS CELLS MEDIATE TISSUE SPARING
WITH MODERATE FUNCTIONAL IMPROVE-
MENT AFTER SPINAL CORD CONTUSION
INJURY IN RATS (S17-5)

16:25 **Concluding Remarks**





Introductory Remarks to Symposium 18

Cellular adaptations for temporal precision in the auditory system

*Felix Felmy, Thomas Künzel and Ivan Milenkovic,
Planegg-Martinsried, Aachen and Leipzig*

Sensory systems use temporal variations of stimuli to construct the perception of the world. The auditory system is ideally suited to study the impact of temporal variations, as multiple temporal cues are simultaneously processed on different time scales. In this symposium the role of different cellular adaptations in specific temporal processing tasks of the auditory system are discussed.

Auditory nerve fibers convey sensory information from the cochlea and form the endbulb of Held (EoH) synapse on bushy cells in the cochlear nucleus. These giant terminals relay information with high fidelity and temporal precision in the sub-millisecond time range. Matthew Xu-Friedman will focus on the activity-dependent regulation of synaptic depression and the synaptic mechanisms regulating the reliability of this synapse. The second talk by Ivan Milenkovic will address the role of inhibition for the information transfer at the EoH synapse. Again at the EoH, the student talk by David Goyer will present how cholinergic modulation affects the sub- and supra-threshold excitability of these neurons. Upstream of the EoH auditory information is processed in the superior olivary complex with temporal precision ranging from the sub- to the millisecond time range. Ian Forsythe will elaborate on the role of voltage gated ion channels in regulating the firing properties of neurons in the superior olivary complex. The discussion of this processing stage is complemented by the student talk by Alexander Fischer, illuminating how inhibition affects the temporal precision in the millisecond range during binaural processing in the lateral superior olive. Along the ascending auditory pathway the complexity of processing increases by adding information about the time-variable context ranging from milliseconds to tens of milliseconds. At this level, the mechanisms underlying the adjustment of processing time scales become particularly important. Ida Siveke will elucidate how different synaptic components account for context dependent processing in the dorsal nucleus of the lateral lemniscus, a structure implicated in the suppression of sound sources during reverberations.

Symposium 18

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 102

Chair: Felix Felmy, Thomas Künzel and Ivan Milenkovic,
Planegg-Martinsried, Aachen and Leipzig

11:30 **Opening Remarks**

11:40 Matthew Xu-Friedman, Buffalo, USA
ACTIVITY-DEPENDENT, HOMEOSTATIC REGULATION OF SYNAPTIC DEPRESSION AT THE ENDBULB OF HELD (S18-1)

12:00 Ivan Milenkovic, Leipzig
DYNAMIC FIDELITY CONTROL TO THE CENTRAL AUDITORY SYSTEM: SYNERGISTIC GLYCINE/GABAERGIC INHIBITION IN THE COCHLEAR NUCLEUS (S18-2)

12:20 David Goyer, Aachen
CHOLINERGIC SIGNALING INFLUENCES GERBILS SPHERICAL BUSHY CELLS EXCITABILITY IN VITRO (S18-3)

12:30 Ian Forsythe, Leicester, UK
THE ROLE OF VOLTAGE GATED ION CHANNELS IN BRAINSTEM AUDITORY PROCESSING (S18-4)

12:50 Alexander U. Fischer, Kaiserslautern
THE ROLE OF INHIBITION FOR TEMPORAL PRECISION IN THE LATERAL SUPERIOR OLIVE (S18-5)

13:00 Ida Siveke, Planegg-Martinsried
CELLULAR MECHANISMS OF CONTEXT DEPENDENT SIGNAL PROCESSING IN THE LATERAL LEMNISCUS (S18-6)

13:20 **Concluding Remarks**



Introductory Remarks to Symposium 19

Novel mechanisms influencing synaptic plasticity at GABAergic synapses

Shiva Tyagarajan and Anne McKinney, Zurich (Switzerland) and Montreal (Canada)

Homeostatic plasticity can be described as a mechanism through which neurons adjust the strength of their synapses in response to global or local changes in excitability. It is becoming increasingly clear that functional alteration at a given synapse is often accompanied by compensatory adaptation at other synapses at both local and network level. A major tenet of our proposal is that synaptic homeostasis depends on signaling cascades regulating the efficacy of GABAergic transmission. These signals converge onto postsynaptic protein scaffolds to regulate synaptic function by means of posttranslational modifications on specific target proteins, recruitment of specific GABAAR subunits, control of local protein degradation and actin remodeling via changes in local pH. This symposium comprising of two female and two male scientists will address four emerging concepts in the field of inhibitory neurotransmission.

1. Shiva Tyagarajan (University of Zurich, Switzerland) will present data showing how neuronal activity shapes mRNA splicing, protein degradation, in turn affecting GABAergic synapse structure.

2. Co-organizer Anne McKinney (McGill University, Canada) will present data showing molecular adaptations at GABAergic post-synapse in response to changes in BDNF signaling.

3. Patricia Seja (University of Helsinki, Finland) will provide evidence showing that carbonic anhydrase CA VII is effective in promoting HCO_3^- -dependent excitatory GABAAR responses³. Mechanism(s) that allow CA VII to control actin remodeling, neuronal excitability, synaptic structure via pH regulation has shed new light into synaptic transmission and plasticity.

4. Derek Bowie (McGill University, Canada) has recently demonstrated that mitochondrial- reactive oxygen species (mROS) regulates the strength of postsynaptic GABAA receptors at inhibitory synapses. He will provide evidence to show that cellular metabolism can be coupled to synaptic plasticity changes.

Symposium 19

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 8

Chair: Shiva Tyagarajan and Anne McKinney,
Zurich (Switzerland) and Montreal (Canada)

- 11:30 **Opening Remarks**
- 11:40 Derek Bowie, Montreal, Canada
MITOCHONDRIAL REACTIVE OXYGEN SPECIES COUPLES CELLULAR METABOLISM TO NEURONAL COMMUNICATION (S19-1)
- 12:00 Anne McKinney, Montreal, Canada
BDNF REGULATES SYNAPSE MAINTENANCE AFTER OXYGEN-GLUCOSE DEPRIVATION IN THE HIPPOCAMPUS (S19-2)
- 12:20 Shiva Tyagarajan, Zurich, Switzerland
ADAPTATIONS AT GABAERGIC POSTSYNAPSES IS FACILITATED BY GEPHYRIN POSTTRANSLATIONAL MODIFICATIONS (S19-3)
- 12:40 Dr. Patricia Seja, Helsinki, Finland
KCC2 AND CA7: NEURONAL ION-REGULATORY PROTEINS WITH A MORPHOGENIC FUNCTION (S19-4)
- 13:00 Marta Carus-Cadavieco, Berlin
COORDINATION OF INNATE BEHAVIOURS BY GABAERGIC CELLS IN LATERAL HYPOTHALAMUS (S19-5)
- 13:10 Florian Walker, Göttingen
INTEGRATION OF MARTINOTTI CELLS INTO DIS-/INHIBITORY CORTICAL CIRCUITS (S19-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 20

Actin cytoskeleton in neuronal morphogenesis and plasticity

Britta Qualmann and Michael Kessels, Jena

The astonishing morphological intricacy neurons acquire during their differentiation is a structural basis for the complex architecture of the neuronal networks, cellular arrays, and layers. This complex architecture of neuronal networks and the organized connectivity of neurons within neuronal arrays and layers is a key requisite for higher brain function. Cytoskeletal elements are crucially involved in bringing about the morphological complexity that neurons develop during their differentiation. Such cell shape changes predominantly occur in brains of embryos and newborns but to a lesser extent also are occurring life-long. Compelling evidence has emerged that actin filament organization and dynamics are not only pivotal for control of early neuronal morphology but are also crucially involved in establishing, maintaining and remodeling the complex and dynamic environment of postsynaptic specializations during processes indispensable for neuronal plasticity. Although these remodeling processes are an important basis for regeneration and plasticity of the brain, astonishingly little is known about how actin filament formation giving rise to the forces initiating and promoting the complex morphologies of neuronal cells are brought about. The speakers of this symposium will highlight that the neuronal actin cytoskeleton has indispensable functions in neuromorphogenesis and synaptic plasticity. They will furthermore unravel how the pivotal spatial and temporal control of cytoskeletal organization and dynamics underlying brain structure and function is brought about. The symposium aims to emphasize the role of the neuronal actin cytoskeleton in synaptic plasticity and its possible contribution to pathological changes in neurologic and psychiatric diseases.

Symposium 20

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 105

Chair: Britta Qualmann and Michael Kessels, Jena

- 11:30 **Opening Remarks**
- 11:40 Gaia Tavosanis, Bonn
THE ARP2/3 COMPLEX IS REQUIRED FOR
DE NOVO FORMATION OF DENDRITIC
BRANCHES (S20-1)
- 12:00 Britta Qualmann, Jena
ACTIN NUCLEATION AND MEMBRANE REMO-
DELLING IN NEUROMORPHOGENESIS AND
SYNAPTIC PLASTICITY (S20-2)
- 12:20 Martin Korte, Braunschweig
REGULATION OF ACTIN-DYNAMICS IN PRO-
CESSES OF NEURONAL PLASTICITY, MEMORY
FORMATION AND SYNAPSE STABILIZATION
(S20-3)
- 12:40 Britta Eickholt, Berlin
PTEN REGULATES DENDRITIC SPINE FUNC-
TION BY TARGETING THE ACTIN BINDING
PROTEIN DREBRIN (S20-4)
- 13:00 Niklas Lonnemann, Braunschweig
FAST NOGO-A SIGNALING ACUTELY MODU-
LATES NEURONAL STRUCTURE AND FUNC-
TION IN THE MATURE MOUSE HIPPOCAMPUS
(S20-5)
- 13:10 Torsten Götz, Berlin
UNCONVENTIONAL MYOSIN AFFECTS PRE-
SYNAPTIC ASSEMBLY (S20-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 21

Neuronal mechanisms of behavioral timing

Christian Wegener and Wolfgang Rössler, Würzburg

The brain is the master organ in timing neurophysiological processes controlling behavior. Timing is also a key component for the internal functioning of the brain itself, like rhythmic oscillations, temporal aspects in learning and memory, synchronization of decision-making processes, and a variety of cognitive processes. Not surprisingly, the activity of neurons, neuronal networks and brains must be timed in the ranges of milliseconds to hours and days to years. Brains also generate timing signals or produce rhythmic output across this wide range of time scales including ultradian neuroendocrine output. At the same time, brains are able to adjust or synchronize these activities with external input to generate appropriate timing of behavior. The past years have seen an impressive progress in understanding molecular and neuronal underpinnings of the central circadian clock across animal taxa. However, most studies have separately addressed circadian or interval timing at the neurobiological or behavioral levels and respective computational models have been developed. Until now it remains largely unexplored how circadian and interval timers interact with each other and the environment and feed their information into neuronal networks to generate appropriate timing of adaptive behaviour. As doing the right thing at the right time is crucial for the survival of all animal species, it seems reasonable to assume that timing mechanisms are positively selected by evolution and may share common molecular, cellular and functional principles across brains from different taxa.

This symposium intends to shed light on current concepts and research progress on neuronal mechanisms of behavioural timing from different angles: from synchronising input to neuronal activity and coding all the way to the generation of behaviorally-relevant output. The symposium presents a perspective from different phylogenetic standpoints to address common neuronal principles of neuronal timing. A major focus of the symposium is on insect models with smaller brains that offer good experimental access to integrative approaches aiming at understanding neuronal mechanisms and behavioral consequences of timing.



This symposium proposal is an initiative out of the SFB1047 Insect timing.

Symposium 21

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 10

Chair: Christian Wegener and Wolfgang Rössler,
Würzburg

- 11:30 Valter Tucci, Genova, Italy
NEURONAL MECHANISMS OF BEHAVIORAL
TIMING (S21-1)
- 11:50 Monika Stengl, Kassel
CIRCADIAN RHYTHMS IN SECOND MESSENGERS AND BIOGENIC AMINES SET OLFACTORY THRESHOLDS IN INSECT ANTENNAE (S21-2)
- 12:10 Ralf Stanewsky, London, UK
SENSORY SYSTEMS AND MOLECULAR MECHANISMS INVOLVED IN SYNCHRONIZING THE *DROSOPHILA* CIRCADIAN CLOCK (S21-3)
- 12:30 Mareike Selcho, Würzburg
TIMING OF THE PEPTIDE-ORCHESTRATED ECLOSION BEHAVIOR IN *DROSOPHILA* (S21-4)
- 12:50 Martin Strube-Bloss & Martin Nawrot, Würzburg and Berlin
CHRONOLOGICAL INTERACTIONS BETWEEN ANTENNAL LOBE AND MUSHROOM BODY: EXTRACTING THE BEHAVIORALLY RELEVANT STIMULUS (S21-5)
- 13:10 Katrin Vogt, Martinsried
VARIABLE EVENT TIMING IN VISUAL CONDITIONING LEADS TO MEMORIES WITH OPPOSITE VALENCE IN *DROSOPHILA* (S21-6)
- 13:20 Matthias Schlichting, Würzburg
THE HOFBAUER-BÜCHNER-EYELET SIGNALS TO THE VENTRO-LATERAL NEURONS AND THEREBY MEDIATES SIESTA AND PHASE-SHIFTS IN *DROSOPHILA* (S21-7)



Introductory Remarks to Symposium 22

Recognition molecule-associated glycans in synaptic plasticity and regeneration after trauma

Melitta Schachner, Hamburg

Melitta Schachner will describe the functional roles of alpha 2,8 polysialic acid (PSA) and the human natural killer antigen-1 (HNK-1) in mice and zebrafish. These glycans can influence the functions of different types of synapses. For instance, HNK-1 regulates the activity of the GABA_B receptor. In regeneration after trauma, PSA and HNK-1 enhance regeneration in mouse and zebrafish models of spinal cord injury, respectively. HNK-1 improves preferential motor reinnervation after mouse femoral nerve injury, thus regulating axonal regrowth into appropriate nerve branches. For these studies, glycan mimetic peptides and small organic compounds were crucial.

Alexander Dityatev will discuss the importance of PSA in activity and plasticity of central nervous system synapses in vitro and in vivo.

Andreas Faissner will show that the stem cell niche contains factors in cerebrospinal fluid and in blood or factors originating from endothelial cells or cells in or at the niche which contribute to differentiation of glial progenitors and affect glial tumors and their stem cells. Specialized chondroitin sulfates and particular variants of the LewisX glycan, as well as the corresponding carbohydrate presenting proteins regulate proliferation and differentiation of neural stem cells.

Rita Gerardy-Schahn and Herbert Hildebrandt will present data on how NCAM's functions are modified by PSA added to the NCAM protein backbone by two polysialyltransferases, ST8SIA2 and ST8SIA4. Abnormal levels of NCAM or PSA and polymorphisms in NCAM and ST8SIA2 have been reported to be relevant to schizophrenia. Complete loss of PSA by deletion of both polysialyltransferases causes severe malformations of major fiber tracts in the brain. Even minor reductions of PSA during brain development in ST8SIA2-deficient mice cause enlarged ventricles, reduced size of some brain nuclei, and disorganized patterns of fiber tracts connecting thalamus and cortex. Loss of PSA affects interneuronal populations in the prefrontal cortex in different polysialyltransferase-deficient mouse lines, leading to abnormalities in different GABAergic interneuronal subtypes in the prefrontal cortex in the transgenic mice.

Symposium 22

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 103

Chair: Melitta Schachner, Hamburg

- 11:30 Melitta Schachner, Hamburg
RECOGNITION MOLECULE-ASSOCIATED
GLYCANS IN SYNAPTIC PLASTICITY AND
REGENERATION AFTER TRAUMA (S22-1)
- 11:55 Alexander Dityatev, Magdeburg
NCAM-ASSOCIATED POLYSIALIC ACID RE-
GULATES HIPPOCAMPAL AND CORTICAL
SYNAPTIC PLASTICITY
(S22-2)
- 12:20 Andreas Faissner, Bochum
COMPLEX GLYCANS AND THEIR CARRIER
PROTEINS IN THE NEURAL STEM CELL NICHE
(S22-3)
- 12:45 Rita Gerardy-Schahn, Hannover
POLYSIALIC ACID ON NCAM: REGULATOR
OF CORTICAL DEVELOPMENT WITH RELEVANCE
TO SCHIZOPHRENIA (S22-4)
- 13:10 Dina Safina, Bochum
LOW DENSITY LIPOPROTEIN RECEPTOR-RELA-
TED PROTEIN 1 (LRP1) – A NOVEL MODULATOR
OF THE NEURAL STEM CELLS' PROLIFERATION,
DIFFERENTIATION AND SURVIVAL (S22-5)
- 13:20 Nina Westphal, Hamburg
NUCLEAR IMPORT OF POLYSIALIC ACID CAR-
RYING FRAGMENTS OF THE NEURAL CELL
ADHESION MOLECULE NCAM (S22-6)



Introductory Remarks to Symposium 23

Breaking News II

Marc Spehr, Aachen

Registered students had the choice to either register with a poster presentation or apply for an oral communication. The program committee has selected the young investigator presentations from these submissions and assigned them either to a symposium or to one of the two Breaking News symposia (symposia 12 and 23).

The following students were selected to give a short communication in Symposium 23 – Breaking News II:

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- 11:30 **Opening Remarks**
- 11:35 Benedikt Bausewein, Bayreuth
REPRESENTATION OF VISUAL INFORMATION
IN THE ARCHERFISH MAUTHNER-CELL (S23-1)
- 11:45 Stephanie D. Biergans, Konstanz
TEMPORAL DYNAMICS AND GENOME-WIDE
TARGET REGIONS OF CYTOSINE METHYLATION
AND HYDROXYMETHYLATION DURING LONG-
TERM MEMORY FORMATION IN HONEYBEES
(S23-2)
- 11:55 Christoph Bode, Leipzig
DEVELOPMENTAL CHANGES OF STRIATAL IN-
TERNEURONS IN AN ANIMAL MODEL OF
PAROXYSMAL DYSTONIA (S23-3)

Symposium 23

Friday, March 20, 2015
11:30 – 13:30, Lecture Hall 104

Chair: Marc Spehr, Aachen

- 12:05 Karolina Can, Göttingen
RETT SYNDROME PROVOKES REDOX IMBALANCE ALREADY IN NEONATAL NEURONS, AFFECTING THE CYTOSOL AND THE MITOCHONDRIA (S23-4)
- 12:15 Rainer Engelken, Göttingen
INPUT SPIKE TRAINS SUPPRESS CHAOS IN BALANCED NEURAL CIRCUITS (S23-5)
- 12:25 **Break**
- 12:35 Carola Wormuth, Bonn
A YOUNG PILOCARPINE MODEL FOR EPILEPSY (S23-6)
- 12:45 Lars Emil Larsen, Ghent, Belgium
EFFECTS OF VAGUS NERVE STIMULATION ON HIPPOCAMPAL NEUROPHYSIOLOGY IN FREELY MOVING RATS (S23-7)
- 12:55 Uta Pegel, Marburg
INTEGRATION OF SKY COMPASS CUES IN THE BRAIN OF THE DESERT LOCUST (S23-8)
- 13:05 Sarah Starosta, Bochum
DYNAMIC CODING PATTERNS IN SINGLE UNITS OF THE FOREBRAIN ACROSS THREE STAGES OF LEARNING (S23-9)
- 13:15 Lena Veit, Tübingen
LEARNING OF ARBITRARY VISUAL ASSOCIATIONS IN THE CORVID ENDBRAIN (S23-10)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 24

The emerging etiopathogenic role of infections and inflammation in chronic CNS diseases

Wolfgang Löscher and Wolfgang Baumgärtner, Hannover

Infectious diseases as well as neurodegenerative and inflammatory disorders of the central nervous system (CNS) represent major medical challenges of the health care systems in the coming decades. Numerous CNS diseases are triggered directly or indirectly by infections or a misdirected immune response against their causative agents. Additionally, some emerging diseases, many of them arising from zoonotic pathogens, like spongiform encephalopathy (new variant of Creutzfeldt-Jacob disease in humans), influenza, tick-borne encephalitis, and West Nile disease, are neurotropic to a varying degree. Moreover, several neuro-degenerative diseases including Alzheimer's disease and multiple sclerosis (MS) are suspected to be caused or aggravated by infections. To develop new strategies for diagnosis, prevention, and treatment of these and other CNS disorders, the complex interactions between CNS and pathogens urgently require a more profound understanding. This is not limited to a better understanding of the pathogenesis of neurological and psychiatric disorders and associated infections, but should also encompass their epidemiology by studying routes of transmission within and between species. The chairs and main speakers of this symposium are principal investigators of the novel research network N-RENNT (Niedersachsen-Research Network on Neuroinfectiology), which brings together a unique consortium of experts and institutions in the integrated fields of neuroscience and infectious diseases in Lower Saxony.

The talks give examples of the N-RENNT research, which is funded by the Ministry of Science and Culture of Lower Saxony and the VolkswagenStiftung in Germany.



Symposium 24

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 105

Chair: Wolfgang Löscher and Wolfgang Baumgärtner,
Hannover

14:30 **Opening Remarks**

14:35 Albert Osterhaus, Hannover
EMERGING VIRUS-INDUCED CNS DISEASES
(S24-1)

14:55 Christian Hammer and Hannelore Ehrenreich,
Göttingen
ROLE OF AUTOANTIBODIES IN NEUROPSY-
CHIATRIC DISEASES (S24-2)

15:15 Alexander Flügel, Göttingen
ROLE OF LYMPHOCYTE INVASION IN CNS
DISEASES (S24-3)

15:35 Kristin Michaelsen and Martin Korte, Braun-
schweig
ROLE OF CNS INFECTIONS FOR NEURO-
DEGENERATIVE DISEASES (S24-4)

15:55 Marianna Weller, Braunschweig
LONG-TERM INFLUENCES OF AN IMMUNE
STIMULATION ON NEURONAL STRUCTURE
AND PLASTICITY (S24-5)

16:05 Christin Schifani, Ludwigshafen
VALIDITY OF A "TWO-HIT" DEVELOPMENTAL
MODEL OF SCHIZOPHRENIA (PRENATAL POLY
I:C AND NEONATAL PCP) (S24-6)

16:15 **General Discussion and Concluding
Remarks**



Introductory Remarks to Symposium 25

Regulation of normal and impaired sleep

Axel Steiger and Mayumi Kimura, Munich

Recent research accumulated much knowledge about regulation and function of sleep and the pathophysiology of impaired sleep. This symposium brings together leading experts who contributed distinctly to the recent development in this area.

Tarja Stenberg (Helsinki) reports molecular mechanisms of sleep homeostasis. Adenosine increases in basal forebrain (BF) during wakefulness and decreases during sleep. Nitric oxide increases in BF through activation of inducible nitric oxide synthase coupling adenosine increase to immunological activation. These effects on sleep are connected to cortically projecting cholinergic neurons in BF, as inactivation of these cells abolishes sleep homeostasis.

Jian-Sheng Lin (Lyon) deals with the control of wakefulness under different behavioral situations focusing on brain histamine and orexin neurons. The regulation of wakefulness depends on behavioral context. Each arousal system contributes complementarily and synergistically to the maintenance of cortical activation during wakefulness. In different behavioral and cognitive context their individual participation and specific role are distinct.

Mayumi Kimura (Munich) presents a mechanism of sleep impairment by stress. In healthy condition, after long wakefulness deeper sleep increases representing sleep homeostasis. During stress, however REM sleep appears more frequently than nonREM sleep during recovery. Such REM sleep disinhibition occurs in animal models of depression and depressed patients. Corticotropin-releasing hormone is a major modulator of stress. Its brain-site specific effects on sleep under stress are discussed with a possible cholinergic enhancement in prefrontal-limbic structures.

Martin Dresler (Nijmegen) addresses sleep related memory consolidation in depressed patients. In depression, it is decreased for procedural, but not declarative tasks. Neither sleep disturbances nor REM suppression by drugs underlie these impairments, whereas high-dose corticosteroids led to impaired procedural memory consolidation. Sleep-related memory impairments in depression seem to be related to stress hormone dysfunction rather than to sleep changes.

Symposium 25

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 104

Chair: Axel Steiger and Mayumi Kimura, Munich

- 14:30 **Opening Remarks**
- 14:40 Tarja Stenberg, Helsinki, Finland
THE MOLECULAR MECHANISMS OF SLEEP
HOMEOSTASIS (S25-1)
- 15:00 Jian-Sheng Lin, Lyon, France
THE MULTIPLE FACETS OF WAKEFULNESS,
CONTROL BY HISTAMINE AND OREXINS (S25-2)
- 15:20 Mayumi Kimura, Munich
THE ROLE OF CRH IN STRESS-INDUCED SLEEP
IMPAIRMENT (S25-3)
- 15:40 Martin Dresler, Nijmegen, The Netherlands
SLEEP-RELATED NEUROPLASTICITY IN HEALTHY
SUBJECTS AND PSYCHIATRIC PATIENTS (S25-4)
- 16:00 Christian Schmidt, Magdeburg
TARGETING THE SEROTONERGIC AND NOR-
ADRENERGIC BRAIN SYSTEM TO TREAT NAR-
COLEPSY IN A MOUSE MODEL (S25-5)
- 16:10 Nikolaos Karalis, Munich
HIGH-DENSITY ELECTROPHYSIOLOGICAL
CHARACTERIZATION OF THE HIPPOCAMPAL
AND CORTICAL NETWORK ACTIVITY IN THE
AWAKE AND SLEEPING MOUSE (S25-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 26

Nanostructure and function of presynaptic active zones

Tobias Moser and Carolin Wichmann, Göttingen

Presynaptic active zones are highly specialized membrane nanodomains that mediate transmitter release onto the postsynaptic neurons. Ca^{2+} channels and vesicular release sites are spatially well-organized at the active zones for efficient Ca^{2+} -triggered exocytosis. Recent technical advances have enabled gaining insights into the molecular nanoanatomy and -physiology of the active zone. The speakers of the symposium will present progress towards understanding the sophisticated supramolecular organization of active zones that accomplishes spatiotemporally well-defined Ca^{2+} signalling, Ca^{2+} triggered membrane fusion, vesicle replenishment and maturation. In their contributions they will relate nanoanatomy to -physiology and address concepts such as synaptic vesicle priming and vesicle pool dynamics using electron tomography combined with high-pressure freezing, cell physiology, high-resolution fluorescence and super-resolution fluorescence microscopy.

Symposium 26

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 8

Chair: Tobias Moser and Carolin Wichmann,
Göttingen

- 14:30 **Opening Remarks**
- 14:40 Carolin Wichmann, Göttingen
ULTRASTRUCTURAL DETERMINATION OF
DYNAMIC VESICLE POOLS AT INNER HAIR
CELL RIBBON SYNAPSES (S26-1)
- 15:00 Thomas Kuner, Heidelberg
NANOARCHITECTURE OF ACTIVE ZONES AT
THE CALYX OF HELD
(S26-2)
- 15:20 Benjamin Cooper, Göttingen
THE MORPHOLOGICAL AND MOLECULAR NA-
TURE OF SYNAPTIC VESICLE PRIMING AT
PRESYNAPTIC ACTIVE ZONES (S26-3)
- 15:40 Jens-Karl Eilers, Leipzig
MUNC13-3 SUPERPRIMES SYNAPTIC VESICLES
AT GRANULE CELL-TO-BASKET CELL SYNAPSES
IN THE MOUSE CEREBELLUM (S26-4)
- 16:00 Rituparna Chakrabarti, Göttingen
ACTIVITY DEPENDENT NANOSTRUCTURE OF
INNER HAIR CELL RIBBON SYNAPSES (S26-5)
- 16:10 Tanvi Butola, Göttingen
ROLE OF PICCOLO IN HIGH FREQUENCY
TRANSMISSION AT THE ENDBULB OF HELD
SYNAPSE (S26-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 27

Brain tumors strongly interact with different cell-types in the CNS: biological mechanisms and therapeutic impact

Michael Synowitz, Berlin

High-grade gliomas are malignant, incurable brain tumors. Our understanding of the cellular and molecular mechanisms promoting the formation of high-grade gliomas and their interaction with their microenvironment are rapidly advancing and can lead to new therapies. Furthermore, investigating the interplay of gliomas with cells of the adaptive or the innate immune system, neural precursors (NPCs) or with endothelial cells provides important insights into cell biological reactions to CNS pathology. Gliomas are immunosuppressive and uncovering the signalling mechanism modulating T-cell responses in the neoplastic brain identifies the cytokines that are important for coordinating immunity in the CNS. Johannes vom Berg (Zurich, Switzerland) will show how interleukins control the function of regulatory T (Treg) and effector (Teff) cells in the brain. His experiments showed that local delivery of specific interleukins together with systemic blockade of a co-inhibitory T-cell receptor determines the ratio of Treg and Teff and primes the adaptive immune system towards an efficient antitumor immune response. Stefan Momma (Frankfurt, Germany) found that small vesicles secreted from tumor cells and from physiological brain cells carry mRNA and miRNA that is taken up by target cells. Microvesicular shedding has large implications for signal transduction in the CNS and also mediates under-acknowledged effects in transgenic mouse models. Roland Kälin (Munich, Germany) will show how signalling pathways that are important for embryonic development, like the G-protein coupled receptor APJ and the cognate ligand apelin, function in endothelial cells of the brain. During glioma angiogenesis the apelin/APJ system accelerates tumour angiogenesis and constitutes a new therapeutic target. Rainer Glass (Munich, Germany) will present new data on the anti-tumorigenic effect of NPCs against gliomas. Recent evidence indicates that NPC-mediated tumor suppression is relevant to the human brain and that glioma cell-death induction is a function specifically related to NPCs, but not other stem and precursor cells. We are confident that this topic is of interest for a broad audience of neuroscientists, stem cell researchers and clinicians. With this symposium we hope to stimulate discussions and also collaborations between researchers of these different fields, since only the combined effort of researchers with different background may lead to progress in glioma research.

Symposium 27

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 102

Chair: Michael Synowitz, Berlin

14:30 **Opening Remarks**

14:40 Stefan Momma, Frankfurt/Main
GENERATION OF NEURONAL PROGENITOR
CELLS IN RESPONSE TO TUMORS IN THE
HUMAN BRAIN (S27-1)

15:05 Johannes vom Berg, Zurich, Switzerland
SITE MATTERS - IMMUNOTHERAPY OF
MALIGNANT BRAIN TUMORS USING
PRO-INFLAMMATORY CYTOKINES AND
SYSTEMIC IMMUNOSTIMULATION (S27-2)

15:30 Roland Kälin, Munich
DISSECTING THE ROLE OF APELIN SIGNALING
IN GLIOMAGENESIS (S27-3)

15:55 Rainer Glass, Munich
THE DUAL ROLE OF NEURAL PRECURSOR
CELLS (NPCS) IN TUMORIGENESIS: NPCS
ARE THE POINT OF ORIGIN FOR GLIOMAS
AND ALSO CONSTITUTE A FIRST LINE OF
DEFENCE AGAINST BRAIN TUMORS (S27-4)

16:20 **Concluding Remarks**



Introductory Remarks to Symposium 28

Processing of temporal stimulus cues in the insect olfactory system

Paul Szyszka, Konstanz

In order to generate a dynamic representation of the outside world, sensory systems have to encode both the static quality of a stimulus (e.g. color or shape) as well as its kinetics (e.g. speed and direction). The processing of stimulus kinetics is well understood in vision and audition, but less in olfaction. Airborne odors occur in turbulent plumes that break them into thin filaments, so that flying insects encounter odors as short and intermittent stimuli. In this symposium we will challenge the common notion that olfaction has rather long integration times relative to other senses and we will address the following questions: How is temporal stimulus information represented in olfactory receptor neurons and in the brain? What are the time scales of temporal stimulus information that insects can use for odor source identification? What are the neuronal mechanisms underlying the extraction of temporal stimulus information? This topic is only just emerging in the neuroscience research community, but we foresee that it will gain increasing attention in the near future. While we still have to understand how temporally complex stimuli are coded at the sensory level, the next step will be to investigate how temporal information is preserved and processed in the brain.

We have put together an international team of researchers to elucidate these problems from different angles, and in different species: Martin Andersson investigates the effect of olfactory receptor neuron co-localisation on beetles' capability to discriminate between closely separated odor sources. Carlotta Martelli will report on the use of single sensillum recordings in fruit flies to study the kinetics of olfactory receptor neuron responses and how they depend on the identity and intensity of odorants. Georg Raiser and Paul Szyszka probe the limits of insects' temporal resolution in the transduction, central processing and perception of odors. Thomas Nowotny uses computational approaches to investigate neural mechanisms underlying odor segregation based on stimulus-onset asynchrony, and how the brain can disentangle intrinsic time stamps from external temporal information.

Symposium 28

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 10

Chair: Paul Szyszka, Konstanz

- 14:30 **Opening Remarks**
- 14:35 Martin Andersson, Lund, Sweden
CO-LOCALISATION OF INSECT OLFACTORY SENSORY CELLS IMPROVES THE DISCRIMINATION OF CLOSELY SEPARATED ODOUR SOURCES (S28-1)
- 15:00 Carlotta Martelli, Göttingen
INTENSITY INVARIANT DYNAMICS AND ODOR-SPECIFIC LATENCIES IN OLFACTORY RECEPTOR NEURON RESPONSE (S28-2)
- 15:25 Paul Szyszka, Konstanz
HIGH SPEED SMELLING AND ODOR OBJECT SEGREGATION IN INSECTS (S28-3)
- 15:50 Georg Raiser, Konstanz
DROSOPHILA KENYON CELL RESPONSES TO TEMPORALLY COMPLEX ODOR MIXTURES GENERATED WITH A NOVEL HIGH-BAND WIDTH OLFACTORY STIMULATOR (S28-4)
- 16:05 Thomas Nowotny, Brighton, UK
EXPLORING NEURAL MECHANISMS OF ODOR OBJECT-SEGREGATION IN COMPUTATIONAL MODELS (S28-5)



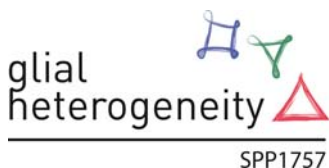
Introductory Remarks to Symposium 28/2

Role of glial heterogeneity in brain function

Frank Kirchhoff and Christine Rose, Homburg and Düsseldorf

Neuroscience research has long established that the major classes of neurones such as projection neurones or interneurones each consist of a multitude of specialized subtypes adapted to performing defined tasks in the network. Also the major classes of glial cells, namely astrocytes, oligodendrocytes and microglial cells, have important, but diverse functions. Therefore, each class of glia should not be considered a homogeneous population of cells. Recent studies provided compelling evidence that the picture of "the" astrocyte or "the" oligodendrocyte is way too simplistic. Each class of glial cells embodies a diverse cell population. Many new discoveries were possible due to increasing use of electrophysiology, imaging, and gene modification approaches in vitro and in vivo, as well as due to development of new transgenic mouse lines specific for glia. This work revealed distinct physiological properties of glia in different brain regions, at different developmental stages and at different activity levels of the organism. Functional specializations of glia apparently emerge to meet the specific requirements of distinct networks which might as such be critical determinants of brain activity. This new concept will change the way we think about brain function and puts glial cells into an even more prominent focus of attention. It is, however, still based on rather anecdotal evidence and as such, research on glial heterogeneity is in its infancy. In this symposium we will address this fundamental question of neuroscience. We will try to understand glial cell specialization and to elucidate its contribution to brain function and behavior in vitro, in vivo and in silico.

This symposium will be a joint meeting of the SPP 1757 and the Study Group Molecular Neurobiology of the Gesellschaft für Biochemie und Molekularbiologie (GBM).



Symposium 28/2

Friday, March 20, 2015
14:30 – 16:30, Lecture Hall 101

Chair: Frank Kirchhoff and Christine Rose,
Homburg and Düsseldorf

- 14:30 Leda Dimou, Munich
NG2⁺GLIA: A JOURNEY THROUGH THEIR
DIVERSITY IN THE ADULT BRAIN (S28/2-1)
- 14:50 Maria Kukley, Tübingen
DEVELOPMENTAL CHANGES IN SYNAPTIC
COMMUNICATION BETWEEN AXONS AND
OLIGODENDROCYTE PRECURSOR CELLS IN
CORPUS CALLOSUM (S28/2-2)
- 15:10 Christian Henneberger, Bonn
HETEROGENEITY OF ASTROCYTE COVERAGE
OF HIPPOCAMPAL SYNAPSES (S28/2-3)
- 15:30 Kerstin Lenk, Tampere, Finland
INEX – A COMPUTATIONAL MODEL TO SI-
MULATE SPATIAL NEURONAL-ASTROCYTIC
ACTIVITY (S28/2-4)
- 15:50 Ralf Dringen, Bremen
UPTAKE AND TOXICITY OF METAL OXIDE NA-
NOPARTICLES IN GLIAL CELLS (S28/2-5)
- 16:10 Svetlana Sirko, Munich
HETEROGENEITY IN THE RESPONSE OF
ASTROCYTES FOLLOWING CNS INJURY
(S28/2-6)
- 16:20 Daniela Dieterich, Magdeburg
ROLE OF PROTEIN TRANSLATION AND PRO-
TEIN TURNOVER FOR ASTROCYTE HETERO-
GENEITY IN THE HIPPOCAMPUS, STRIATUM
AND PREFRONTAL CORTEX (S28/2-7)



Introductory Remarks to Symposium 29

Mechanisms of synchronization and coordination of neural oscillators

Carmen Smarandache-Wellmann, Cologne

Studying the mechanisms of synchronization of central pattern generators (CPGs) is of eminent importance if we want to understand the generation and functional outputs in the central nervous system. All rhythmic activity is driven by coupled neuronal oscillators that have to be synchronized for proper functioning. In the nervous system, we find different levels of such activity, for example, starting from the visceral system where CPGs of respiration or peristaltic movement which have to be active at the correct timing. Another conglomeration of synchronized neuronal oscillators are those responsible for coordination of locomotor patterns. Their activity is coordinated on segment-by-segment and network-by-network bases, but also governed through descending control from higher centers. We also find coordinated networks in cortical areas, where we are just starting to understand why these neuronal oscillators fire in the synchrony of theta, gamma and beta patterns. In this symposium, we aim to start discussions between scientists who are all interested in synchronization of neural oscillators but work with different animal model systems. The different perspectives range from: (I) coordination of locomotion CPGs, (II) coordination between locomotion and respiration, or (III) synchronization of neural oscillators in cortical networks, which can enhance cooperation. Finally, we want to show an example of a small network where the mechanisms of coordination were studied on cellular level. Here we understand how the neuronal oscillator is able to encode coordinating information and how it is able to decode and integrate this information in the neighboring neuronal oscillators.

Symposium 29

Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 10

Chair: Carmen Smarandache-Wellmann, Cologne

08:30 **Opening Remarks**

08:40 Karen Mesce, St. Paul, USA
KEEPING IT TOGETHER BEFORE AND AFTER
NERVE CORD INJURY: HOW SINGLE NEU-
RONS HELP TO COORDINATE LOCOMO-
TOR OSCILLATORS (S29-1)

09:00 Réjean Dubuc, Montreal, Canada
LINKING RESPIRATION TO LOCOMOTION
(S29-2)

09:20 Carmen Smarandache-Wellmann, Cologne
MECHANISMS OF COORDINATION IN DIS-
TRIBUTED NEURAL CIRCUITS: FROM ENCO-
DING THROUGH DECODING TO INTEGRA-
TION OF COORDINATING INFORMATION
(S29-3)

09:40 Anna Caren Schneider, Cologne
COORDINATING CENTRAL PATTERN GENE
RATORS: TWO NEURONS, TWO STRATEGIES
(S29-4)

09:50 Andreas Kreiter, Bremen
ATTENTION DEPENDENT ROUTING BY SYN-
CHRONY AND DYNAMIC COORDINATION
OF NEURONAL PROCESSING IN MONKEY'S
VISUAL CORTEX (S29-5)

10:10 Zahra Bahmani Dehkordi, Teheran, Iran
THE ROLE OF NEURAL SYNCHRONY AND
OSCILLATIONS IN FEATURE-BASED ATTENTION
IN THE PRIMARY VISUAL CORTEX OF THE
MACAQUE MONKEY (S29-6)

10:20 **Concluding Remarks**



Introductory Remarks to Symposium 30

Adaptation and plasticity in a distorted sense of hearing during tinnitus and hyperacusis

*Manuela Nowotny and Marlies Knipper, Frankfurt/Main
and Tübingen*

Plasticity is an essential characteristic of the brain. It allows adaptation to new circumstances and relearning after an injury such as a stroke. In case of acoustic overstimulation (trauma), however, damage-induced adaptation processes and plasticity of the brain can have fatal consequences like the emergence of hyperacusis and tinnitus. Trauma-induced changes emerge along the entire auditory pathway beginning in the ear and across the entire auditory brain areas and accessory areas. Therefore our symposium starts with topics related to noise-induced changes in the ear including the development of tinnitus and successively change focus to more central processes.

Factors including aging and stress-related changes in the inner ear and the brain interact with tinnitus at the time of generation. Therefore compensating homeostatic processes that occur during restoration of the hearing function in animal models are investigated. To understand processes leading to tinnitus and hyperacusis, computational modeling approaches can help to test different candidate mechanisms potentially related to both, plastic changes in the auditory system after hearing loss and the development of tinnitus.

Finally, studies in humans, based on magnetic resonance methods, allow to investigate gray-matter and activity differences across diverse brain areas. These studies clearly demonstrate that not only a single brain area, but a variety of brain areas is involved in tinnitus perception. Comparing hearing-impaired patients with and without tinnitus reveals activity pattern in the human brain specifically related to tinnitus.

This symposium is supported by the Hertie-Foundation (<http://www.ghst.de>).

Gemeinnützige

Hertie-Stiftung



Symposium 30

Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 102

Chair: Manuela Nowotny and Marlies Knipper,
Frankfurt/Main and Tübingen

- 08:30 **Opening Remarks**
- 08:40 Manuela Nowotny, Frankfurt/Main
NOISE-INDUCED HEARING LOSS AND THE
DEVELOPMENT OF TINNITUS IN MONGO-
LIAN GERBILS (S30-1)
- 09:05 Lukas Rüttiger, Tübingen
INTERACTIONS OF AROUSAL AND TRAUMATIC
STRESS WITH TINNITUS RELATED HEARING
DISORDERS IN ANIMAL MODELS
(S30-2)
- 09:30 Roland Schaette, London, UK
TINNITUS AND HIDDEN HEARING LOSS
(S30-3)
- 09:55 Pim van Dijk, Groningen, The Netherlands
ABNORMAL SOUND PROCESSING IN TINNI-
TUS PATIENTS SUGGESTS THALAMIC DYS-
FUNCTION: RESULT FROM FMRI (S30-4)
- 10:20 **Final Remarks**



Introductory Remarks to Symposium 31

Integrative study of the social insect brain - combining neuro-ethological and computational approaches

Hiroyuki Ai, Hidetoshi Ikeno and Thomas Wachtler, Fukuoka and Hyogo (Japan) and Planegg-Martinsried

The honeybee is known as an excellent model for inquiries into social learning and communication. Honeybees can learn associations between odors and rewards, even though their brain is much smaller than those of mammals. And it was recently discovered that some pheromones used by honeybees modulate the learning behaviors. Furthermore, they can communicate using their own unique behavior, the waggle dance (von Frisch, 1967). During the waggle dance, they produce airborne vibrations induced by wing-beat, encoding direction and distance to the nectar-bearing flower. Honeybee foragers also learn odors associated with reward, and transfer such information to their hive mates by species-specific stereotyped in-hive behaviors. With its impressive performance despite its small size, the honeybee brain is experimentally accessible and computationally attractive. Here, we bring together a number of scientists working at the interface of experimental and theoretical approaches to study the biology of olfactory learning and vibration communication underlying social communication in the honeybee. Randolph Menzel will discuss research on the function of the mushroom body as a recording device taking into account the evaluated history of experience. Martin Nawrot will present a neural network model for olfactory associative learning in the honeybee. Hiroyuki Ai will talk about the morphological characteristics of the Johnston's organ which is the vibration detector of honeybee and primary center receiving spatial information encoded in the waggle dance. Alison Mercer will talk about the adaptive value of social modulation of learning in honeybees. Student talks by Ajayrama Kumaraswamy and Anna Beer will highlight developmental aspects of behavior-relevant adaptations in communication signal processing and circadian rhythms, respectively. This symposium will make a unique contribution to the field of social insect brain, exposing synergies between experimental and theoretical approaches to systems neuroscience. The speakers will present a combination of established methods and new approaches that can be inspiring for experienced researchers and young scientists alike.

Symposium 31

Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 9

Chair: Hiroyuki Ai, Hidetoshi Ikeno and Thomas Wachtler,
Fukuoka and Hyogo (Japan) and Planegg-Martinsried

08:30 **Opening Remarks**

08:40 Randolph Menzel, Berlin
EXPLORATORY LEARNING IN BEES, AND THE
SEARCH FOR NEURAL CORRELATES (S31-1)

09:00 Martin Nawrot, Berlin
FROM INSECT NEUROETHOLOGY TO NEU-
ROTECHNOLOGY: COMPUTATIONS IN SMALL
BRAINS (S31-2)

09:20 Hiroyuki Ai, Fukuoka, Japan
THE PARALLEL SYSTEMS IN THE PRIMARY
AUDITORY CENTER OF THE HONEYBEE (S31-3)

09:40 Ajayrama Kumaraswamy, Munich
EVIDENCE FOR MORPHOLOGICAL REFINE-
MENT OF NEURONS ENCODING WAGGLE
DANCE COMMUNICATION SIGNALS IN THE
HONEYBEE (S31-4)

09:50 Alison Mercer, Dunedin, New Zealand
DOPAMINE SIGNALLING AND THE SURVIVAL
OF HONEY BEE QUEENS (S31-5)

10:10 Anna Beer, Würzburg
HOW THE CLOCK DEVELOPS: THE PDF-
NETWORK IN HONEYBEE BRAINS OF DIFFE-
RENT DEVELOPMENTAL STAGES (S31-6)

10:20 **Concluding Remarks**



Introductory Remarks to Symposium 32

Microglia and brain Tumors: Friends or foes?

Nicolai E. Savaskan, Erlangen

Microglia, the brain resident macrophages, are abundant in the malignant brain tumor (glioma) microenvironment and execute tumor-promoting as well as tumor-destructive capacities. Beyond their phagocytic capacity microglia influence important biological hallmarks of gliomas including angiogenesis, adaptive immunity, resistance to therapy and cell migration.

This symposium aims at integrating various aspects of microglial function in the glioma microenvironment to critically discuss technical approaches and current concepts of microglial plasticity and function.

Symposium 32

Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 104

Chair: Nicolai E. Savaskan, Erlangen

- 08:30 **Opening Remarks**
- 08:35 Michael Platten, Heidelberg
TARGETING THE IMMUNOSUPPRESSIVE
GLIOMA MICROENVIRONMENT (S32-1)
- 08:55 Peter Vajkoczy, Berlin
MICROGLIA AND MACROPHAGES AS MO-
DULATORS OF GLIOMA VASCULARIZATION
AND PROGRESSION (S32-2)
- 09:15 Janka Held-Feindt, Kiel
BUZZING THE BUDDY: CHEMOKINES IN THE
INTERPLAY OF TAMS AND GLIOMA CELLS
(S32-3)
- 09:35 Nicolai E. Savaskan, Erlangen
MIF SIGNALING AND THE BRAIN TUMOR
MICROENVIRONMENT (S32-4)
- 09:55 Anne Régnier-Vigouroux, Mainz
MICROGLIA IN GLIOMA BIOLOGY (S32-5)
- 10:15 Ali Ghoochani, Erlangen
MIF SIGNALING AND THE BRAIN TUMOR
MICROENVIRONMENT (S32-6)
- 10:25 **Concluding Remarks**



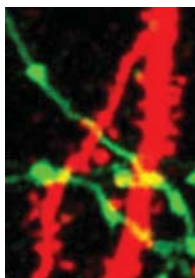
Introductory Remarks to Symposium 33

Balancing change and stability: homeostatic plasticity in the central nervous system

Corette Wierenga and Andreas Vlachos, Utrecht (The Netherlands) and Frankfurt/Main

Synaptic connections within our brain are highly dynamic structures that continuously change in response to experience adjusting strength and number. During the past 40 years enormous effort has been spent to dissect the cellular and molecular mechanisms of Hebbian forms of plasticity granting experience-dependent synaptic changes. Conversely, it has been recognised that despite ongoing synaptic changes functional stability of neuronal networks needs to be assured. Emerging evidence suggests that various forms of homeostatic plasticity keep the activity of neuronal networks within a dynamic range and are therefore essential to balance change and stability in the brain. Homeostatic mechanisms have been reported to occur at different synapses, at different developmental stages, or under disease conditions and we are undoubtedly only starting to appreciate the full scope of these fundamental compensatory mechanisms.

In our symposium we will discuss different forms of homeostatic plasticity that occur in the central nervous system under physiological and pathological conditions. The first speaker, Juan Burrone is an expert on synapse formation and homeostatic plasticity during functional network formation in culture. Corette Wierenga will discuss how plasticity of inhibitory and excitatory synapses may interact within dendrites. Tara Keck studies homeostatic adaptations in inhibitory neurons in the visual cortex after retinal lesion. Andreas Vlachos will elaborate on homeostatic synaptic changes occurring upon partial deafferentation. Finally, we have two contributions from young scientists working on homeostatic adaptations.



Our symposium brings together German and international neuroscientists and forms an excellent platform to examine and discuss an essential topic in neuroscience: how functional stability of networks is maintained in the brain despite ongoing synaptic changes.

Symposium 33

Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 8

Chair: Corette Wierenga and Andreas Vlachos,
Utrecht (The Netherlands) and Frankfurt/Main

- 08:30 **Opening Remarks**
- 08:40 Juan Burrone, London, UK
ACTIVITY-DEPENDENT PLASTICITY OF THE
AXON INITIAL SEGMENT AND ITS SYNAPSES
(S33-1)
- 09:00 Corette Wierenga, Utrecht, The Netherlands
INHIBITORY AXONS AS DYNAMIC STRUC-
TURES ADAPTING TO ACTIVITY (S33-2)
- 09:20 Tara Keck, London, UK
HOMEOSTATIC PLASTICITY OF SUBNET-
WORKS OF EXCITATORY AND INHIBITORY
NEURONS IN MOUSE VISUAL CORTEX IN VIVO
(S33-3)
- 09:40 Andreas Vlachos, Frankfurt/Main
STABILITY MATTERS - HOMEOSTATIC PLASTI-
CITY IN DENERVATED NEURONAL NETWORKS
(S33-4)
- 10:00 Santosh Pothula, Magdeburg
HOMEOSTATIC REGULATION OF SYNAPTIC
FUNCTION AND RECONFIGURATION OF
GENE EXPRESSION UPON KETAMINE TREAT-
MENT: RELEVANCE TO ANTIDEPRESSANT
EFFECTS (S33-5)
- 10:10 Sara Leijon, Stockholm, Sweden
STAGGERED DEVELOPMENT OF SPON NEU-
RONS IN MICE LACKING L-TYPE Ca^{2+} -
CHANNELS (S33-6)
- 10:20 **Concluding Remarks**



Introductory Remarks to Symposium 34

Modeling evolution, neuronal development and neurodegenerative disorders using mammalian induced pluripotent stem cells

Marisa Karow, Beate Winner and Jürgen Winkler, Munich and Erlangen

Induced pluripotent stem cells (iPSC) exhibit an embryonic stem cell-like state, which allows for their differentiation into neural cells that in turn can be used to study various neurodegenerative diseases including Parkinson's disease (PD). Our symposium will discuss how to apply pluripotent reprogramming and direct conversion strategies from somatic cells for modelling evolution, neuronal development, and neurodegeneration. Identifying cellular and molecular differences between human and non-human primates is essential to the basic understanding of the evolution and diversity of our own species. Thus, M. C. Marchetto will show how to use iPSC as a unique biological resource to study relevant phenotypical differences between human and non-human primates. Those differences could have potential adaptation and speciation value also in the context of neurodegenerative diseases. Next, S. Cappello will focus on neuronal migration disorders and the emerging role of neural stem cells (NSC) as key players in developmental malformations. iPSC-derived NSC from patients carrying genetic aberrations are used to study the putative changes in their molecular, cellular, and functional properties. Furthermore, strategies for the development of therapeutic approaches such as the re-expression of mutant genes will be discussed. B. Winner will show how to use iPSC to investigate the pathogenesis underlying neurodegenerative diseases. Specifically, she will present how to model a motor neuron disease characterized by a progressive paraparesis and defined as hereditary spastic paraplegia (HSP) using iPSC-derived cells with a mutation in the SPG4 gene, encoding Spastin. Finally, M. Karow will present strategies for direct reprogramming of pericyte-derived cells isolated from the adult human cerebral cortex via forced expression of developmentally inspired transcription factors. Here, a special focus will be laid on the generation of human striatal interneurons as an approach to restore the basal ganglia activity that is detrimentally affected in patients with PD. In summary, we will cover a wide range of potential applications for iPSC-based techniques to model evolution, neuronal development, and neurodegeneration.

Symposium 34

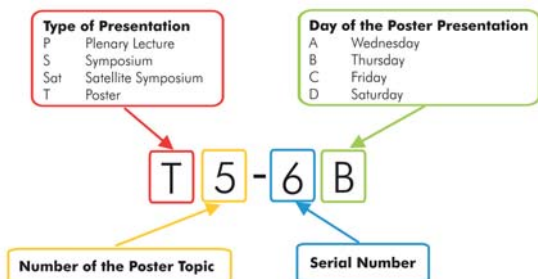
Saturday, March 21, 2015
8:30 – 10:30, Lecture Hall 105

Chair: Marisa Karow, Beate Winner and Jürgen Winkler,
Munich and Erlangen

- 08:30 Maria Carolina Marchetto, La Jolla, USA
USING HUMAN NEURAL CELLS TO MODEL
FOR AUTISM SPECTRUM DISORDERS WITH
ACCELERATED BRAIN GROWTH (S34-1)
- 08:55 Silvia Cappello, Munich
UNDERSTANDING CORTICAL MALFORMA-
TIONS: COMBINING HUMAN IPSCS TECH-
NOLOGY AND MOUSE MODELS (S34-2)
- 09:20 Constantin Stautner, Neuherberg
MITOCHONDRIAL FUNCTION IN IPSC FROM
PD PATIENTS (S34-3)
- 09:30 Marisa Karow, Munich
PERICYTES AS AN ALTERNATIVE CELL SOURCE
FOR DIRECT NEURAL REPROGRAMMING
(S34-4)
- 09:55 Beate Winner, Erlangen
GENE DOSAGE-DEPENDENT RESCUE OF HSP
NEURITE DEFECTS IN SPG4 PATIENTS'
NEURONS (S34-5)
- 10:20 Katharina Günther, Würzburg
DERIVATION OF EARLY NEUROEPITHELIAL
PRECURSORS FROM FETAL TISSUE TO ASSESS
NOVEL NEURAL REPROGRAMMING PATHWAYS
(S34-6)



Explanation of Abstract Numbers



There are two poster sessions on Wednesday, Thursday, Friday and Saturday. Poster with poster numbers ending with an A are displayed on Wednesday, poster with a poster number ending with a B are displayed on Thursday, posters with a poster number ending with a C are displayed on Friday and posters with a poster number ending with a D are displayed on Saturday.

Each poster session (90 min) is divided into two parts (each 45 min): odd and even serial numbers. In the first part of the first session of a day posters with odd serial numbers will be discussed. In the second 45 min of the first session of a day posters with even serial numbers will be discussed.

In the second session of a day posters with odd serial poster numbers will be discussed again in the first 45 min and in the second 45 min of the same session posters with even serial numbers will be discussed once more.

Example

T21-2B

- T** = poster to a poster topic
- 21** = the poster topic is No. 21, i.e. "Motor Systems"
- 2** = serial number (even number, i.e. second 45 min of each session)
- B** = indicates the day, i.e. Thursday

This means:

Poster T21-2B is a poster belonging to the topic "Motor Systems" and is presented on:

Thursday, March 19, 2015
10:45 - 11:30 h and 17:15 - 18:00 h in the poster area 21.

Poster Topics

Poster Topic	Wednesday	Thursday	Friday	Saturday
T1: Stem cells, neurogenesis and gliogenesis	T1-1A – T1-6A	T1-1B – T1-5B	T1-1C – T1-5C	T1-1D – T1-5D
T2: Axon and dendrite development, synaptogenesis	T2-1A – T2-4A	T2-1B – T2-3B	T2-1C – T2-3C	T2-1D – T2-4D
T3: Developmental cell death, regeneration and transplantation	T3-1A – T3-1A	T3-1B – T3-1B	T3-1C – T3-1C	T3-1D – T3-1D
T4: Neurotransmitters, retrograde messengers and cytokines	T4-1A – T4-1A	T4-1B – T4-1B	T4-1C – T4-1C	T4-1D – T4-1D
T5: G Protein-linked and other receptors	T5-1A – T5-2A	T5-1B – T5-3B	T5-1C – T5-1C	T5-1D – T5-2D
T6: Ligand-gated, voltage-dependent ion channels and transporters	T6-1A – T6-9A	T6-1B – T6-10B	T6-1C – T6-9C	T6-1D – T6-9D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T7: Synaptic transmission, pre- and postsynaptic organization	T7-1A – T7-10A	T7-1B – T7-10B	T7-1C – T7-11C	T7-1D – T7-11D
T8: Synaptic plasticity, LTP, LTD	T8-1A – T8-10A	T8-1B – T8-9B	T8-1C – T8-9C	T8-1D – T8-9D
T9: Glia, glia-neuron interactions	T9-1A – T9-4A	T9-1B – T9-5B	T9-1C – T9-4C	T9-1D – T9-5D
T10: Aging and developmental disorders	T10-1A – T10-6A	T10-1B – T10-6B	T10-1C – T10-6C	T10-1D – T10-6D
T11: Alzheimer's, Parkinson's and other neuro-degenerative diseases	T11-1A – T11-12A	T11-1B – T11-12B	T11-1C – T11-12C	T11-1D – T11-11D
T12: Neuroimmunology, inflammation and neuro-protection	T12-1A – T12-9A	T12-1B – T12-9B	T12-1C – T12-9C	T12-1D – T12-8D
T13: Cognitive, emotional, behavioral state disorders and addiction	T13-1A – T13-9A	T13-1B – T13-9B	T13-1C – T13-9C	T13-1D – T13-9D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T14: Vision: invertebrates	T14-1A – T14-3A	T14-1B – T14-4B	T14-1C – T14-4C	T14-1D – T14-4D
T15: Vision: retina and subcortical pathways	T15-1A – T15-6A	T15-1B – T15-6B	T15-1C – T15-6C	T15-1D – T15-6D
T16: Vision: striate and extrastriate cortex, eye movement and visuomotor processing	T16-1A – T16-6A	T16-1B – T16-5B	T16-1C – T16-5C	T16-1D – T16-5D
T17: Auditory mechanoreceptors, vestibular, cochlea, lateral line and active sensing	T17-1A – T17-5A	T17-1B – T17-5B	T17-1C – T17-5C	T17-1D – T17-5D
T18: Auditory system: subcortical and cortical processing	T18-1A – T18-12A	T18-1B – T18-13B	T18-1C – T18-12C	T18-1D – T18-13D
T19: Chemical senses: olfaction, taste, others	T19-1A – T19-16A	T19-1B – T19-16B	T19-1C – T19-16C	T19-1D – T19-16D
T20: Somatosensation: touch, temperature, proprioception, nociception	T20-1A – T20-5A	T20-1B – T20-4B	T20-1C – T20-4C	T20-1D – T20-5D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T21: Motor systems	T21-1A – T21-8A	T21-1B – T21-9B	T21-1C – T21-9C	T21-1D – T21-8D
T22: Homeostatic and neuroendocrine systems, stress response	T22-1A – T22-2A	T22-1B – T22-1B	T22-1C – T22-2C	T22-1D – T22-2D
T23: Neural networks and rhythm generators	T23-1A – T23-10A	T23-1B – T23-11B	T23-1C – T23-11C	T23-1D – T23-11D
T24: Attention, motivation, emotion and cognition	T24-1A – T24-8A	T24-1B – T24-7B	T24-1C – T24-8C	T24-1D – T24-7D
T25: Learning and memory	T25-1A – T25-15A	T25-1B – T25-15B	T25-1C – T25-14C	T25-1D – T25-15D
T26: Computational neuroscience	T26-1A – T26-8A	T26-1B – T26-8B	T26-1C – T26-8C	T26-1D – T26-8D
T27: Techniques and demonstrations	T27-1A – T27-8A	T27-1B – T27-7B	T27-1C – T27-7C	T27-1D – T27-7D

T1: Stem cells, neurogenesis and gliogenesis

Wednesday

- T1-1A** ARE OLFACTORY BULB AND BRAIN VOLUME GROWING PROPORTIONALLY?
Elke Weiler, Willi Bennegger, Ulm
- T1-2A** AXONAL PATHOLOGY IN PATIENT-DERIVED NEURONS HARBORING SPG11 MUTATIONS: AN IPSC MODEL FOR SPATACSIN-LINKED HEREDITARY SPASTIC PARAPLEGIA
Himanshu Kumar Mishra, Francesc Pérez-Brangulí, Iryna Prots, Steven Havlicek, Zacharias Kohl, Jonatan Dorca-Arevalo, Martin Regensburger, Elisabeth Sock, Juan Blasi, Teja W Groemer, Ursula Schlötzer-Schrehardt, Jürgen Winkler, Beate Winner, Erlangen
- T1-3A** CALCIUM RESPONSE PROFILE OF DIFFERENT CELL TYPES IN THE MOUSE SUBVENTRICULAR ZONE
Nanette Messemer, Laura Fritz, Joachim W. Deitmer, Kaiserslautern
- T1-4A** CHEMICALLY DEFINED DIFFERENTIATION OF HUMAN ASTROCYTES FROM IPSC DERIVED NEURAL STEM CELLS FOR DISEASE MODELING
Pretty Garg, Kurt Gottmann, Katja Nieweg, Düsseldorf
- T1-5A** DIRECT CONVERSION OF ADULT CORTICAL OLIGODENDROCYTE PROGENITOR CELLS TO FUNCTIONAL NEURONS
Daniel Peterson, S Bazarek, A Mehta, RA Marr, GE Stutzmann, RM Howard, SR Whitemore, Bonn
- T1-6A** EFFICIENT GENERATION OF HUMAN IPSC DERIVED PARVALBUMIN INTERNEURONS FOR DISEASE MODELLING
Debia Rajnath Wakhloo, Katja Nieweg, Marburg

Thursday

- T1-1B** EXPRESSION AND FUNCTION OF LIN28B IN THE AUTONOMIC NERVOUS SYSTEM
Melanie Hennchen, Ikram Abarchan- El Makhfi, Hermann Rohrer, Frankfurt
- T1-2B** FILOPODIA-BASED WNT TRANSPORT DURING PATTERNING OF THE NEURAL PLATE IN VERTEBRATES
Steffen Scholpp, Eliana Stanganello, Alexander Schug, Karlsruhe
- T1-3B** INDUCIBLE FORMATION OF HIPPOCAMPAL OLIGODENDROCYTES FROM PRE-EXISTING LOCAL PRE-CURSORS
Christoph Ott, Imam Hassouna, Liane Dahm, Meike Hütte, Miso Mitkovski, Sandra Göbbels, Klaus-Armin Nave, Hannelore Ehrenreich, Göttingen



T1-4B INFANTILE MULTISYSTEM NEUROLOGIC, ENDOCRINE, AND PANCREATIC DISEASE (IMNEPD), DEFINING A NOVEL MITOCHONDRIAL DISEASE ENTITY
Lina Issa-Jahns, Hao Hu, Nadine Kraemer, Luciana Musante, Olaf Ninnemann, Detlev Schindler, Marco Sifringer, Sandra Schrötter, Brita Eickholt, Gisela Stoltenburg-Didinger, Hans-Hilger Ropers, Thomas F. Wienker, Christoph Hübner, Angela M. Kaindl, Berlin

T1-5B INTERACTIONS BETWEEN THE MENINGES AND THE CORTICAL NEUROEPITHELIUM TIME GLIOGENESIS DURING CORTICAL DEVELOPMENT
Alexander von Holst, Richard Sturm, Heidelberg

Friday

T1-1C MUTATIONS IN MOUSE CDK5RAP2; MORE THAN JUST MICROCEPHALY
Sami Zaqout, Nadine Krämer, Gisela Stoltenburg, Jessica Fassbender, Gregor Willerding, Angela Kaindl, Berlin

T1-2C MYCN IN SYMPATHETIC NEUROGENESIS AND NEUROBLASTOMA DEVELOPMENT
Marco Kramer, Marie Arsenian-Henriksson, Hermann Rohrer, Frankfurt/Main

T1-3C NEURONAL ORGANIZATION OF THE I LAYER OF HUMAN NEOCORTEX DURING PRENATAL DEVELOPMENT
Alena A. Kozlova, Nadezhda A. Sidorova, Lyubov A. Tkachenko, Saint-Petersburg, Russia

T1-4C PROTOCADHERIN18A INFLUENCES NEUROGENESIS IN ZEBRAFISH THALAMUS
Bernadett Bösze, Steffen Scholpp, Eggenstein-Leopoldshafen

T1-5C ROLE OF TGF- β ON THE DEVELOPMENT AND SURVIVAL OF MOUSE HINDBRAIN SEROTONERGIC NEURONS
Enaam Chleilat, Eleni Roussa, Freiburg

Saturday

T1-1D ROLE OF TGF- β ON THE DEVELOPMENT OF MID-BRAIN DOPAMINERGIC NEURONS
Fabian Josue Cardenas Lara, Eleni Roussa, Kerstin Kriegelstein, Freiburg

T1-2D TARGETED DISRUPTION OF THE SERINE/THREONINE KINASE ULK4 GENE LEADS TO ABNORMAL NEUROGENESIS AND CONGENITAL HYDROCEPHALUS-LIKE PHENOTYPE
Min Liu, Zhenlong Guan, Timothy O'Brien, Sanbing Shen, Galway, Ireland

- T1-3D** TCF7L2 STEERS NEURONAL DIVERSITY REQUIRED FOR ASYMMETRIC BRAIN FORMATION AND FUNCTION
Matthias Carl, Ulrike Hüsken, Stephen Wilson, Mannheim
- T1-4D** TGFB2 CONDITIONAL KNOCK-OUT IN THE DEVELOPING TELEENCEPHALON RESULTS IN NEUROVASCULAR DEFECTS
Tanja Vogel, Nicole Hellbach, Stefan Weise, Freiburg
- T1-5D** THE ECTONUCLEOTIDASE NTPDASE2 CONTROLS PROGENITOR CELL PROLIFERATION IN NEUROGENIC NICHE OF THE ADULT MOUSE BRAIN
Jennifer Stefani, Kristine Gampe, Klaus Hammer, Peter Brendel, Alexandra Pöttsch, Grigori Enikolopov, Keiichi Enjyoji, Amparo Acker-Palmer, Simon C. Robson, Herbert Zimmermann, Frankfurt/Main

T2: Axon and dendrite development, synaptogenesis

Wednesday

- T2-1A** ALPHA-SYNUCLEIN IS ASSOCIATED WITH THE SYNAPTIC VESICLE APPARATUS IN THE HUMAN AND RAT ENTERIC NERVOUS SYSTEM
Martina Böttner, Tobias Fricke, Melanie Müller, Martina Barrenschee, Thilo Wedel, Kiel
- T2-2A** AXOGENESIS IN THE ANTENNAL SENSORY SYSTEM OF THE GRASSHOPPER: PIONEER NEURONS
Erica Ehrhardt, Tatjana Kleele, Yu Liu, George Boyan, Planegg-Martinsried
- T2-3A** CDH13 IN THE DEVELOPING MOUSE NERVOUS SYSTEM
Dominik Pascal Kiser, Andrea Forero, Theresa Gerstle, Sarah Sich, Jonas Waider, Olga Rivero, Klaus-Peter Lesch, Würzburg
- T2-4A** CORTICAL PROGENITORS RELEASE THE CHEMOKINE CXCL12 (SDF-1) TO PROMOTE INGROWTH OF THALAMOCORTICAL AFFERENTS
Philipp Abe, Zoltán Molnár, Ralf Stumm, Jena

Thursday

- T2-1B** FASCICLE SWITCHING: AN ANCIENT PATTERN OF AXOGENESIS IN A MODERN BRAIN
George Stephen Boyan, Leslie Williams, Yu Liu, Martinsried
- T2-2B** GENERATION AND ANALYSIS OF A NOVEL TRANSGENIC MOUSE LINE WITH DEFECTIVE FIBER TRACTS
Maria Eleni Kastriti, Marina Theodosiou, Marina Vidaki, Kostas Theodorakis, Domna Karageorgos, Heraklion, Crete, Greece



- T2-3B** LIM-DOMAIN-BINDING PROTEINS: INTERACTION IN NEURONAL DEVELOPMENT AND EPILEPTOGENESIS
Barbara Karoline Iwaniuk, Robert Maresch, Alexander Grote, Rebecca Kulbida, Karen MJ van Loo, Heinz Beck, Susanne Schoch, Albert J. Becker, Bonn

Friday

- T2-1C** LOCAL STIMULATION OF MOUSE HIPPOCAMPAL NEURONS BY RECOMBINANT PRION PROTEIN INDUCES RAPID NEURITE OUTGROWTH
Ladan Amin, Xuan Thi Anh Nguyen, Gabriele Giachin, Giuseppe Legname, Dan Cojoc, Trieste, Italy
- T2-2C** MOLECULAR MECHANISMS OF EXOCYTOSIS OF LARGE DENSE CORE VESICLES IN DORSAL ROOT GANGLION NEURONS
Ali Hussein Shaib, Margarete Klose, Jens Rettig, Barbara Niemeyer, Ute Becherer, Homburg
- T2-3C** NEURONAL FUNCTIONS OF RIM3 γ AND RIM4 γ
Katrin Michel, Sara Ferando-Colomer, Johannes A. Müller, Ana-Maria Oprisoreanu, Albert Becker, Dirk Dietrich, Susanne Schoch, Bonn

Saturday

- T2-1D** NEUROPLASTINS INTERACT WITH TRAF6 TO INITIATE CELL SIGNALING
Sampath Kumar Vemula, Magdeburg
- T2-2D** POSTNATAL DEVELOPMENT AND PLASTICITY OF ANATOMICAL PATHWAYS SUITABLE FOR MULTISENSORY INTEGRATION PROCESSES IN RODENT PRIMARY SENSORY CORTICES A1, S1, AND V1
Julia U. Henschke, Patrick Kanold, Henning Scheich, Eike Budinger, Magdeburg
- T2-3D** QUANTIFICATION OF HIPPOCAMPAL AND CORTICAL NETWORK ACTIVITY IN AWAKE NEONATAL MICE
Robin Till Hinsch, Stephan Marguet, Walid Fazeli, Dirk Isbrandt, Cologne
- T2-4D** REELIN INDUCES BRANCHING OF NEURONS AND RADIAL GLIAL CELLS DURING CORTICOGENESIS
Xuejun Chai, Li Fan, Hong Shao, Xi Lu, Wei Zhang, Jiawei li, Jianlin Wang, Shulin Chen, Michael Frotscher, Shanting Zhao, Hamburg

T3: Developmental cell death, regeneration and transplantation

Wednesday

- T3-1A** CELL TYPE-SPECIFIC DIFFERENCES IN ACTIVITY-DEPENDENT POSTNATAL APOPTOSIS IN NEOCORTICAL CULTURES
Oriane Blanquie, Anne Sinning, Heiko Luhmann, Mainz

Thursday

- T3-1B** INFLUENCE OF THE NICOTINAMID-NUCLEOTID-TRANSHYDROGENASE ON THE MANIFESTATION OF PERINATAL HYPOXIC-ISCHEMIC BRAIN LESIONS IN THE MOUSE
Sandra Semar, Thomas Tschernig, Carola Meier, Homburg/Saar

Friday

- T3-1C** NEUROPROTECTIVE EFFECT OF GRAFTED MURINE INDUCED PLURIPOTENT STEM CELLS ON INJURED SPINAL MOTONEURONS FOLLOWING VENTRAL ROOT AVULSION IN RATS
Antal Nógrádi, Krisztián Pajer, Csilla Nemes, Sára Berzsenyi, András Dinnyés, Szeged, Hungary

Saturday

- T3-1D** REGENERATION OF THE SUBGENUAL COMPLEX IN THE STICK INSECT *SIPYLOIDEA SIPYLUS*
Reinhard Lakes-Harlan, Stefanie Weis, Johannes Strauß, Giessen

T4: Neurotransmitters, retrograde messengers and cytokines

Wednesday

- T4-1A** CAPS1 CRITICALLY REGULATES BDNF RELEASE AND INTRAGRANULAR PH OF SECRETORY GRANULES
Robert Eckenstaler, Volkmar Leßmann, Tanja Brigadski, Magdeburg

Thursday

- T4-1B** MUSCARINIC RECEPTOR CONTROL OF PYRAMIDAL NEURON MEMBRANE POTENTIAL IN MEDIAL PREFRONTAL CORTEX (MPFC) IN YOUNG RATS
Przemyslaw Norbert Kurowski, Maciej Gawlak, Pawel Szulczyk, Warsaw, Poland

Friday

- T4-1C** NO EVIDENCE FOR ROLE OF EXTRACELLULAR CHOLINE-ACETYLTRANSFERASE IN GENERATION OF GAMMA OSCILLATIONS IN RAT HIPPOCAMPAL SLICES IN VITRO
Jan-Oliver Hollnagel, Rizwan ul Haq, Christoph J. Behrens, Anna Maslarova, Istvan Mody, Uwe Heinemann, Berlin



Saturday

- T4-1D** PRE- AND POSTSYNAPTIC EFFECTS OF NOREPINEPHRINE ON NEUROTRANSMISSION BETWEEN LAYER 4 EXCITATORY NEURONS IN RAT BARREL CORTEX
Jiali Tang, Gabriele Radnikow, Dirk Feldmeyer, Jülich

T5: G Protein-linked and other receptors

Wednesday

- T5-1A** ACTIVATION OF μ -OPIOID RECEPTORS INHIBITS INTERCALATED INTERNEURONS AND MODULATES FEED-FORWARD INHIBITION IN THE MOUSE AMYGDALA
Lena Goedecke, Peter Blaesse, Michael Bazelat, Marco Capogna, Hans-Christian Pape, and Kay Jüngling, Münster
- T5-2A** DECIPHERING THE NEURONAL CIRCUIT ACTIVATED BY THE DEATH-ASSOCIATED ODOR CADAVERINE
Milan Dieris, Gaurav Ahuja, Venkatesh Krishna, Sigrun Korsching, Cologne

Thursday

- T5-1B** MODELING AND EXPERIMENTAL VERIFICATION OF LIGAND-RECEPTOR INTERACTION IN A HIGH AFFINITY CADAVERINE RECEPTOR WITH AN UNUSUAL BIFUNCTIONAL LIGAND REQUIREMENT
Kanika Sharma, Gaurav Ahuja, Arnd Baumann, Sigrun Korsching, Cologne
- T5-2B** MOLECULAR MECHANISMS OF OLFACTORY DETECTION IN POLYPHAGOUS MOTH *SPODOPTERA LITTORALIS*: DEORPHANIZATION OF ODOURANT RECEPTORS VIA THE *DROSOPHILA* EMPTY NEURON SYSTEM
Fredrik Schlyter, William B. Walker, Muhammad Binyameen, Arthur de Fouchier, Claudia Steiner, Christelle Monsempes, Annick Maria, Marie-Christine François, Peter Anderson, Bill S. Hansson, Thomas Chertemps, Nicolas Montagné, Emmanuelle Jacquinjoly, Mattias Larsson, Alnarp, Sweden
- T5-3B** POSSIBLE REGULATION OF CB1-RECEPTOR BY RGS-PROTEINS IN A CELL TYPE SPECIFIC MANNER
Sebastian Loch, Bernadette Mohr, Krisztina Monory, Mainz

Friday

- T5-1C** SCA-23 MUTANT DYNORPHIN A CAUSES CELL DEATH VIA NON-OPIOID MECHANISMS
Cleo JLM Smeets, J Jezierska, MN Melo, A Stargardt, C Dooley, G Bakalkin, J McLaughlin, S Marrink, HH Kampinga, EA Reits, DS Verbeek, Groningen, Netherlands

Saturday

- T5-1D** THE V1R-RELATED ORA5 RECEPTOR IS NOT EXPRESSED IN CILIATED AND MICROVILLOUS NEURONS, THE MAJOR OLFACTORY RECEPTOR NEURON POPULATIONS
Daniel Kowatschew, Shahrzad Bozorg Nia, Yuichiro Oka, Sigrun Korsching, Cologne
- T5-2D** TRANSACTIVATION OF TRKB RECEPTOR THROUGH THE ADENOSINE RECEPTOR A2A-R LEADS TO CHANGES IN DOWNSTREAM SIGNALING CASCADES
Stefan Wiese, Teresa Tsai, Dennis Stern, Alice Klausmeyer, Bochum

T6: Ligand-gated, voltage-dependent ion channels and transporters

Wednesday

- T6-1A** A MULTISCALE MODEL OF SHAKER-TYPE KV-CHANNEL MUTANTS PREDICTS MACROSCOPIC ELECTROPHYSIOLOGICAL RESULTS
Alexander Peyser, Wolfgang Nonner, Jülich
- T6-2A** BALANCING NOCICEPTIVE SIGNALING BY CO-ACTIVATION OF TRESK AND TRP CHANNELS BY LYSOPHOSPHATIDIC ACID
Sina Kollert, Frank Döring, Erhard Wischmeyer, Würzburg
- T6-3A** CHANGES IN NEURAL NETWORK HOMEOSTASIS TRIGGER NEUROPSYCHIATRIC SYMPTOMS
Jochen C. Meier, Nicola Maggio, Iris Müller, Gürsel Caliskan, Marcus Semtner, Joanna Eller, Ute Häussler, René Jüttner, Tamar Dugladze, Eva Chronowska, Carola A. Haas, Akos Kulik, Tengis Gloveli, Oliver Stork, Uwe Heinemann, Aline Winkelmann, Berlin
- T6-4A** CHARACTERIZATION OF CALCIUM CURRENTS IN NEONATAL AND MATURE SPIRAL GANGLION NEURONS OF $\alpha_2\delta_3^{-/-}$
Friederike Stephani, Wenying Wang, Jutta Engel, Homburg
- T6-5A** CHLORIDE TRANSPORTER, A NEW THERAPEUTIC TARGET
Mahmoudreza Hadjighassem, Tehran, Iran
- T6-6A** COMPLEX AND SPARSE CODING ALONG THE HONEY BEE'S OLFACTORY PATHWAY: POTENTIAL CONTRIBUTION OF IONIC CURRENTS OF MEDIAL AND LATERAL PROJECTION NEURONS AND KENYON CELLS
Jan Kropf, Wolfgang Rössler, Würzburg
- T6-7A** CORRELATIONS BETWEEN NEURONAL SPIKE TRAINS EXAMINED UNDER RECREATED FLUCTUATING SYNAPTIC CONDUCTANCE INPUTS
Daniele Linaro, Michele Giugliano, Antwerp, Belgium



- T6-8A** DEAFNESS BY MUTATION IN ATP GATED P2X2 CHANNELS (DFNA41) IS NOT INDUCED BY THE DOMINANT NEGATIVE EFFECT
Yan Zhu, Tübingen
- T6-9A** DEFECTIVE ESCAPE BEHAVIOUR IN DEAH-BOX RNA HELICASE MUTANTS IMPROVED BY RESTORING GLYCINE RECEPTOR EXPRESSION
Sophie Leacock, Hiromi Hirata, Kazutoyo Ogino, Kenta Yamada, Robert J. Harvey, London, United Kingdom

Thursday

- T6-1B** DIFFERENTIAL REGULATION OF CHLORIDE TRANSPORTER EXPRESSION BY POTASSIUM CHLORIDE AND AMPAKINE IN CHICKEN AUDITORY BRAINSTEM IN VITRO
Marcus Joseph Wirth, Lars Roentgen, Hermann Wagner, Aachen
- T6-2B** EFFECTS OF EPILEPSY-ASSOCIATED ION CHANNEL MUTATIONS ON NEURONAL NETWORK ACTIVITY
Filip Rosa, Sabina Vejzovic, Heidi Löffler, Stephan Theiss, Marcel Dihné, Holger Lerche, Snezana Maljevic, Tübingen
- T6-3B** FOREBRAIN 5-HT₁ RECEPTORS RELIEVE NEUROPATHIC PAIN BY REVERSING DYSFUNCTION OF DENDRITIC INTEGRATION
Mirko Santello, Thomas Nevian, Bern, Switzerland
- T6-4B** FUNCTIONAL CHARACTERIZATION OF NOVEL GABA(A) RECEPTOR MUTATIONS ASSOCIATED WITH IDIOPATHIC GENERALIZED EPILEPSIES
Merle Bock, Cristina Niturad, Julia Knaus, Thomas Ott, Timm Danker, Steven Petrou, Yvonne Weber, Holger Lerche, Snezana Maljevic, Tübingen
- T6-5B** HYPERPOLARIZATION-ACTIVATED CATION CHANNELS INFLUENCE SYNAPTIC INTEGRATION IN SUBSTANTIA NIGRA DOPAMINE NEURONS
Dominique Engel, Vincent Seutin, Liège, Belgium
- T6-6B** IMPERMEANT ANIONS, FIXED CHARGES, AND THE DRIVING FORCE OF GABA_A R-MEDIATED CL⁻ CURRENTS
Juha Voipio, Kai Kaila, Helsinki, Finland
- T6-7B** IN VIVO TAGGING OF CA_v1.3 CALCIUM CHANNELS REVEALS C-TERMINAL MODULATION OF GATING PROPERTIES AND SUBCELLULAR EXPRESSION OF THE FULL LENGTH CHANNEL IN MOUSE INNER HAIR CELLS
Stephanie Eckrich, Anja Scharinger, Dietmar Hecker, Kai Schönig, Dusan Bartsch, Martina J Sinnegger-Brauns, Bernhard Schick, Jutta Engel, Jörg Striessnig, Homburg
- T6-8B** INFLUENCE OF CKAMP44 ON AMPA RECEPTOR NUMBER AND FUNCTION IN RELAY NEURONS OF THE LATERAL GENICULATE NUCLEUS
Xufeng Chen, Jakob von Engelhardt, Heidelberg
- T6-9B** INTRACELLULAR CA²⁺/CALMODULIN MODULATES KVβ1.1-INDUCED INACTIVATION OF KV CHANNELS
Sandip Madhusudan Swain, Nirakar Sahoo, Sophie Denhardt, Roland Schönherr, Stefan H. Heinemann, Jena

- T6-10B** PERSISTENT DISCHARGES IN DENTATE GYRUS PERISOMA-INHIBITING INTERNEURONS REQUIRE HCN CHANNEL ACTIVATION
Claudio Elgueta, Johannes Köhler, Marlene Bartos, Freiburg

Friday

- T6-1C** INTRACELLULAR SODIUM CHANGES MEDIATED BY THE ELECTROGENIC SODIUM-BICARBONATE CO-TRANSPORTER NBCE1 IN MOUSE CORTICAL ASTROCYTES
Zinnia Naoshin, Shefeeq M. Theparambil, Joachim W. Deitmer, Kaiserslautern
- T6-2C** MECHANISMS OF KCC2-MEDIATED NEUROPROTECTION
Marcus Semtner, Aline Winkelmann, Jochen C. Meier, Berlin
- T6-3C** MOTONEURON FUNCTION IN *DROSOPHILA* IS SHAPED BY CACOPHONY (CAV2) CALCIUM CHANNEL POST-TRANSCRIPTIONAL MODIFICATIONS
Stefanie Ryglewski, Mainz
- T6-4C** MULTIPLE CA²⁺ CHANNEL DEPENDENT COMPONENTS IN GROWTH-HORMONE SECRETION FROM MALE RAT ANTERIOR PITUITARY SOMATOTROPHS
Itzhak Nussinovitch, Elad Sosial, Jerusalem, Israel
- T6-5C** MUTATIONS IN GABRA3 CAUSE X-LINKED IDIOPATHIC EPILEPSY
Cristina Elena Niturad, Esther Leshinsky, Dorit Lev, Pasquale Striano, Federico Zara, Holger Lerche, Tally Sagie, Snezana Maljevic, Tübingen
- T6-6C** NEOCORTICAL NEURONS POSSESS TWO DISTINCT PERSISTENT SODIUM CURRENTS WITH DIFFERENT VOLTAGE DEPENDENCE AND DIFFERENT UNDERLYING MECHANISM OF GENERATION
Ilya A. Fleidervish, Michael J. Gutnick, Efrat Lasser-Katz, Beer-Sheva, Israel
- T6-7C** PHYSIOLOGY AND ION CHANNEL EXPRESSION OF AXONS OF AMYGDALA PROJECTION NEURONS
Jan Gründemann, Verena Senn, Andreas Lüthi, Basel, Switzerland
- T6-8C** RECIPROCAL MODULATION OF CAV2.3 VOLTAGE-GATED CA²⁺ CHANNELS BY COPPER(II) IONS AND KAINIC ACID
Felix Neumaier, Isha Akhtar, Maxine Dibué-Adjei, Jürgen Hescheler, Toni Schneider, Cologne
- T6-9C** REGULATION OF INTRACELLULAR H⁺ FROM ALKALOSIS IN CORTICAL ASTROCYTES IS MEDIATED BY THE ELECTROGENIC SODIUM-BICARBONATE COTRANSPORTER NBCE1
Mohammed Shefeeq Theparambil, Joachim W. Deitmer, Kaiserslautern



Saturday

- T6-1D** RYANODINE RECEPTOR ACTIVATION INDUCES LONG-TERM PLASTICITY OF SPINE CALCIUM DYNAMICS
Friedrich Johnenning, Anne-Kathrin Theis, Ulrike Pannasch, Martin Rückl, Sten Rüdiger, Dietmar Schmitz, Berlin
- T6-2D** SELECTIVE ABLATION OF IONOTROPIC GLUTAMATE RECEPTOR SUBUNITS 2 AND 4 IN HORIZONTAL CELLS OF THE MOUSE RETINA
Sebastian Swirski, Karin Dedek, Ulrike Janssen-Bienhold, Oldenburg
- T6-3D** SEVERAL POTASSIUM CONDUCTANCES MODULATE ACTION POTENTIAL KINETICS AND DISCHARGE PATTERNS IN GFP-EXPRESSING INTERNEURONS (GIN) IN THE MOUSE CINGULATE CORTEX
Therese Riedemann, Bernd Sutor, Munich
- T6-4D** STIM1 CONTROLS NEURONAL Ca^{2+} SIGNALING AND MGLUR1/TRPC3-DEPENDENT SYNAPTIC TRANSMISSION IN CEREBELLAR PURKINJE CELLS
Arjan Dijke, Jana Hartmann, Arthur Konnerth, Munich
- T6-5D** SURFACE MOBILITY OF $\alpha 2\delta$ -SUBUNITS WITHIN THE NEURONAL MEMBRANE
Anna Maria Ciuraszkiewicz, Magdeburg
- T6-6D** TRANSIENT RECEPTOR POTENTIAL MELASTATIN-3 (TRPM3)-INDUCED ACTIVATION OF AP-1 REQUIRES Ca^{2+} IONS AND THE TRANSCRIPTION FACTORS C-JUN, ATF2, AND TCF
Andrea Lesch, Gerald Thiel, Homburg
- T6-7D** TRPV1 REGULATES INNERVATION IN THE HIPPOCAMPUS
Joaquin Isaac Hurtado Zavala, Saheeb Ahmed, Camin Dean, Göttingen
- T6-8D** TYRAMINE FUNCTIONS AS A NEUROMODULATOR OF *DROSOPHILA* LARVAL MOTONEURONS
Natalie Christine Schützler, Carsten Duch, Stefanie Ryglewski, Mainz
- T6-9D** VOLTAGE-GATED CALCIUM CHANNELS IN THE MOUSE SCIATIC NERVE
Ruxandra Barzan, Nicole Fröhlich, Daniela Eissler, Maria Kukley, Tübingen

T7: Synaptic transmission, pre- and postsynaptic organization

Wednesday

- T7-1A** A POINT MUTATION ABOLISHES THE TARGETING OF MOVER TO PRESYNAPTIC TERMINALS
Asha Kiran Akula, Saheeb Ahmed, Camin Dean, Thomas Dresbach, Göttingen

- T7-2A** ACTIONS OF FLUOXETINE (PROZAC) ON BEHAVIOR AND NEURONAL FUNCTION
Sandra Larissa Elena Blümich, Kyle Ritter, Zana R. Majeed, Jonathan Robinson, Eugen Brailoiu, Robin L. Cooper, Leipzig
- T7-3A** ADF/COFILIN IN SYNAPSE PHYSIOLOGY AND MOUSE BEHAVIOR
Marco Rust, Andreas Görlich, Anika-Maria Zimmermann, Michael Wolf, Marco Sassoè-Pognetto, Christine Gurniak, Eckhard Friauf, Walter Witke, Marburg
- T7-4A** ALTERATION IN DENDRITIC SPINE MORPHOLOGY AND SYNAPTIC RECEPTOR COMPOSITION IN RICH2 KNOCK-OUT MICE
Tasnuva Sarowar, Stefanie Grabrucker, Juergen Bockmann, Tobias M. Boeckers, Andreas M. Grabrucker, Ulm
- T7-5A** BDNF RECRUITMENT TO OPTOGENETICALLY ACTIVATED REGIONS AND ITS TRANSFER TO NEIGHBOURING CELLS
Markus A. Stahlberg, Karl Deisseroth, Stefan W. Hell, Camin Dean, Göttingen
- T7-6A** CALCIUM CHANNEL MOBILITY WITHIN THE PRESYNAPTIC MEMBRANE
Martin Heine, Romy Schneider, Eric Hosy, Johannes Kohl, Yulia Klueva, Daniel Choquet, Ulrich Thomas, Andreas Voigt, Magdeburg
- T7-7A** COMPLEXINS 3 AND 4 ACT AS FUSION CLAMP AND REGULATE VESICLE AVAILABILITY AT PHOTORECEPTOR RIBBON SYNAPSES IN MOUSE RETINA
Johann Helmut Brandstätter, Anna Sendelbeck, Andreas Feigenspan, Michaela Fuchs, Norbert Babai, Kerstin Reim, Erlangen
- T7-8A** DELETION OF THE TRYPTOPHAN-RICH BASIC PROTEIN WRB CAUSES PROGRESSIVE HEARING IMPAIRMENT IN MICE
Tina Pangrsic, Iliana Panou, Christian Vogl, Gulnara Yamanbaeva, Carolin Wichmann, Artur Indzhykulian, Shuh-Yow Lin, Sonja Wojcik, Nicola Strenzke, David Corey, Tobias Moser, Göttingen
- T7-9A** DEPOLARIZING GABA ORCHESTRATES INHIBITION IN DEVELOPING MOUSE NEOCORTEX IN VIVO
Knut Kirmse, Michael Kummer, Yury Kovalchuk, Otto W. Witte, Olga Garaschuk, Knut Holthoff, Jena
- T7-10A** DIFFUSION OF SODIUM SIGNALS IN SPINY DENDRITES
Christian Kleinhans, Karl W. Kafitz, Christine R. Rose, Düsseldorf

Thursday

- T7-1B** DIFFUSION VERSUS EXTRUSION: MECHANISMS FOR RECOVERY FROM SODIUM LOADS IN MOUSE CA1 PYRAMIDAL NEURONS
Miguel Mondragão, Christine R. Rose, Düsseldorf



- T7-2B** DYNAMIC FIDELITY CONTROL TO THE CENTRAL AUDITORY SYSTEM: SYNERGISTIC GLYCINE/GABAERGIC INHIBITION IN THE COCHLEAR NUCLEUS
Ivan Milenkovic, Jana Nerlich, Thomas Kuenzel, Christian Keine, Michael Burger, Rudolf Ruebsamen, Leipzig
- T7-3B** ESTABLISHMENT OF APPROPRIATE METHODS FOR THE IDENTIFICATION OF PUTATIVE INTERACTION PARTNERS OF GLYCINE TRANSPORTER 2
Sabrina Marz, Jan Kullmann, Pascal Schalkowsky, Claudia Fecher-Trost, Eckhard Friauf, Kaiserslautern
- T7-4B** HOMEOSTATIC CHANGES OF NEURONAL EXCITABILITY IN THE SOMATOSENSORY CORTEX OF MICE FOLLOWING TRAUMATIC BRAIN INJURY
Florie Le Prieult, Barbara Imbrosci, Serge C. Thal, Kristin Engelhard, Thomas Mittmann, Mainz
- T7-5B** HOMEOSTATIC REGULATION OF FUNCTION IN SPECIFIC SUBTYPES OF GABAERGIC INTERNEURONS FOLLOWING FOCAL CORTICAL LESIONS
Thomas Mittmann, Angela Neitz, Barbara Imbrosci, Mainz
- T7-6B** IMAGING EXOCYTOSIS AND Ca^{2+} INFLUX AT INDIVIDUAL INNER HAIR CELL RIBBON SYNAPSES
Stefanie Krinner, SangYong Jung, Tobias Moser, Göttingen
- T7-7B** LOCAL POSTSYNAPTIC SODIUM CHANNEL ACTIVATION IN DENDRITIC SPINES OF OLFACTORY BULB GRANULE CELLS
Wolfgang Georg Bywalez, Vanessa Rupprecht, Dinu Patirniche, Martin Stemmler, Andreas Herz, Balázs Rózsa, Gergely Katona, Veronica Egger, Planegg-Martinsried
- T7-8B** LOCALIZATION AND QUANTIFICATION OF THE PRE-SYNAPTIC PROTEIN BRUCHPILOT IN THE HONEYBEE CENTRAL BRAIN AND IN SUBCOMPARTMENTS OF MUSHROOM BODY LIP BOUTONS
Katrin B. Gehring, Karin Heufelder, Christine Quentin, Isabella Kersting, Stephan Sigrist, Dorothea Eisenhardt, Berlin
- T7-9B** MECHANISMS OF SYNAPTIC VESICLE RELEASE STUDIED AT SINGLE ACTIVE ZONES
Chao-Hua Huang, Hideki Takago, Tobias Moser, Göttingen
- T7-10B** MIRNA-96 ALTERS INFORMATION TRANSFER AT A CENTRAL AUDITORY SYNAPSE
Christina Berger, Tina Schlüter, Hans Gerd Nothwang, Felix Felmy, Planegg-Martinsried

Friday

- T7-1C** MODULATION OF NEUROTRANSMITTER RELEASE BY ENDOGENOUS AMYLOID BETA IN PHYSIOLOGICAL CONCENTRATION INVOLVES MOLECULAR REMODELING OF PRESYNAPTIC RELEASE APPARATUS
Anna Fejtova, Vesna Lazarevic, Maria Andres-Alonso, Magdeburg
- T7-2C** MOVER: A NEW PLAYER IN SYNAPTIC STRENGTH
Julio Santos Viotti, Thomas Dresbach, Göttingen

- T7-3C** NANO-ARCHITECTURE OF PRESYNAPTIC P/Q-TYPE CALCIUM CHANNELS IN PARVALBUMIN-EXPRESSING HIPPOCAMPAL BASKET CELLS
Akos Kulik, Daniel Althof, Masahiko Watanabe, Freiburg
- T7-4C** NEW GENETIC TOOLS FOR THE ANALYSIS OF GABA AND GLYCINE CO-TRANSMITTING NEURONS
Stefanie Besser, Marit Sicker, Ulrike Winkler, Swen Hülsmann, Johannes Hirrlinger, Leipzig
- T7-5C** NOVEL FUNCTIONS OF C-JUN N-TERMINAL KINASES IN NEURONS
Stella-Amrei Kunde, Nils Rademacher, Sarah A. Shoichet, Berlin
- T7-6C** NOVEL GROUP OF NEURON BOUND EXTRACELLULAR METALLOPEPTIDASES (NEMPS) LOCATED IN THE SYNAPTIC AREA
Mark I. Mosevitsky, Ekaterina S. Kropotova, Gatchina, Russia
- T7-7C** PHYSIOLOGICAL ROLE OF NLGN2 IN ANXIETY PROCESSING CIRCUITRY
Olga Babaev, Hannelore Ehrenreich, Dilja Krueger-Burg, Göttingen
- T7-8C** POTENTIAL BASIS FOR LOCAL FEEDBACK FROM HORIZONTAL CELLS TO CONES IN THE MOUSE RETINA
Camille Anastasia Chapot, Sinziana Pop, Robin Kemmler, Thomas Euler, Timm Schubert, Tübingen
- T7-9C** PRE- AND POSTSYNAPTIC FUNCTIONS OF THE VOLTAGE-DEPENDENT Ca^{2+} -CHANNEL DMCA1D (CAV1) IN *DROSOPHILA*
Aylin Klein, Dimitrios Kadas, Carsten Duch, Mainz
- T7-10C** REGULATION OF PSD-95 COMPLEX ASSEMBLY
Nils Rademacher, Stella-Amrei Kunde, Sarah A. Shoichet, Berlin
- T7-11C** RIM PROTEINS AT THE PHOTORECEPTOR RIBBON SYNAPSE
Martina Löhner, Jenny Atorf, Norbert Babai, Jan Kremers, Susanne Schoch, Elena Alvarez-Baron, Johann H. Brandstätter, Hanna Regus-Leidig, Erlangen

Saturday

- T7-1D** ROLE OF BASSOON IN THE REGULATION OF NEUROTRANSMITTER RELEASE
Carolina Montenegro Venegas, Eneko Pina, Claudia Marini, Eckart Gundelfinger, Anna Fejtova, Magdeburg
- T7-2D** SYNCHRONOUS EPILEPTIC ACTIVITY BETWEEN CA1 AND CA3 HIPPOCAMPUS DURING POSTSYNAPTIC BLOCKADE OF GLUTAMATE AND GABA RECEPTORS
Olha Zapukhliak, Olga Netsyk, Arthur Romanov, Olena Isaeva, Oleg Krishtal, Dmytro Isaev, Kyiv, Ukraine



- T7-3D** THE MORPHOLOGICAL AND MOLECULAR NATURE OF SYNAPTIC VESICLE PRIMING AT PRESYNAPTIC ACTIVE ZONES
Cordelia Imig, Sang-Won Min, Stefanie Krinner, Marife Arancillo, Christian Rosenmund, Thomas C. Südhof, JeongSeop Rhee, Nils Brose, Benjamin Cooper, Göttingen
- T7-4D** TIGHT COUPLING BETWEEN Ca^{2+} SENSORS OF EXOCYTOSIS AND PRESYNAPTIC Ca^{2+} CHANNELS AT INNER HAIR CELL RIBBON SYNAPSES
Mantas Gabrieliatis, Aaron B Wong, Tina Pangrsic, Mark A. Rutherford, Carolin Wichmann, Fred Wolf, Tobias Moser, Göttingen
- T7-5D** TYPE OF INHIBITORY TRANSMITTERS DISTINGUISHES RESPONSES TO ANOXIA IN FRAGILE AND NON-FRAGILE MOTOR NEURONS IN RATS
Yu Kono, Satoshi Takagi, Masashi Nagase, Soichiro Mochio, Fusao Kato, Tokyo, Japan
- T7-6D** ULTRASTRUCTURAL DETERMINATION OF DYNAMIC VESICLE POOLS AT INNER HAIR CELL RIBBON SYNAPSES
Carolin Wichmann, Susann Michanski, Christian Vogl, Rituparna Chakrabarti, SangYong Jung, Tanja Maritzen, Volker Haucke, Tobias Moser, Göttingen
- T7-7D** VERTEBRATE-SPECIFIC PRESYNAPTIC PROTEIN MOVER CONTROLS RELEASE PROBABILITY AT THE CALYX OF HELD
Christoph Körber, Darius Schwenger, Thomas Kremer, Thomas Dresbach, Thomas Kuner, Heidelberg
- T7-8D** VESICULAR REPLENISHMENT IN COCHLEAR INNER HAIR CELLS OPERATES WITHOUT MUNC13 AND CAPS PRIMING PROTEINS
Christian Vogl, Benjamin H. Cooper, Jakob Neef, Sonja M. Wojcik, Kerstin Reim, Ellen Reisinger, Nils Brose, JeongSeop Rhee, Tobias Moser, Carolin Wichmann, Göttingen
- T7-9D** VESICULAR SYNAPTOBREVIN2/VAMP2 LEVELS GUARDED BY AP180 CONTROL EFFICIENT NEUROTRANSMISSION
Gaga Kochlamazashvili, Seong Joo Koo, Benjamin Rost, Dmytro Puchkov, Niclas Gimber, Martin Lehmann, Georgi Tadeus, Jan Schmoranzner, Christian Rosenmund, Volker Haucke, Tanja Maritzen, Berlin
- T7-10D** $\alpha 5$ -GABAA RECEPTORS REGULATE DENDRITIC INTEGRATION IN CA1 PYRAMIDAL NEURONS
Jan Michael Schulz, Maria-Clemencia Hernandez, Josef Bischofberger, Basel, Switzerland
- T7-11D** SYNAPTIC PROPERTIES OF SOM- AND CCK-EXPRESSING CELLS IN DENTATE GYRUS INTERNEURON NETWORKS
Shakuntala Savanthrapadian, Thomas Meyer, Claudio Elgueta, Marlene Bartos, Freiburg

T8: Synaptic plasticity, LTP, LTD

Wednesday

- T8-1A** A HIGH CONTENT IN VITRO SCREEN FOR MEASURING REGULATION OF SYNAPTIC STRUCTURE/FUNCTION BY SMALL MOLECULES
Judith Rudolph, Kerstin Kellner, Isabell Cardaun, Karsten Kottig, Christina Thiede, Kenneth Young, Heinz von der Kammer, Hamburg
- T8-2A** A TRANSGENIC MOUSE MODEL (BLEV) FOR VISUALIZATION OF THE DIFFERENTIAL USAGE OF BDNF EXON IV AND VI IN THE LIVING ORGAN
Wibke Singer, Eleonora Passeri, Hyun-Soon Geisler, Da Guo, Florian Mayer, Jing Hu, Verena Bautze, Jörg Strotmann, Ulrike Zimmermann, Lukas Rüttiger, Rama Panford-Walsh, Marlies Knipper, Tübingen
- T8-3A** ACTIVATION OF THE METABOTROPIC GLUTAMATE RECEPTOR MGLU5 DETERMINES THE DIRECTION OF SYNAPTIC PLASTICITY AT MOSSY FIBER – CA3 AND ASSOCIATIONAL/COMMISSURAL – CA3 SYNAPSES
Hardy Hagen, Denise Manahan-Vaughan, Bochum
- T8-4A** ACTIVITY DEPENDENT MODULATION OF ECM BY EXTRACELLULAR PROTEOLYSIS
Jeet Bahadur Singh, M.J.C. Valenzuela, E.D. Gundelfinger, C.I. Seidenbecher, Renato Frischknecht, Magdeburg
- T8-5A** ACTIVITY-DEPENDENCE AND TARGET SPECIFICITY OF SYNAPSE FORMATION DURING LONG-TERM POTENTIATION
Cvetalina Nikolaeva Coneva, Tobias Bonhoeffer, Tobias Rose, Martinsried
- T8-6A** CIRCUIT ANALYSIS OF FUNCTIONALLY CHARACTERIZED NEURONS IN THE VISUAL CORTEX OF MICE
Simon Weiler, Tobias Rose, Mark Hübener, Tobias Bonhoeffer, Volker Scheuss, Martinsried
- T8-7A** CONTRIBUTION OF CALCIUM-INDUCED CALCIUM RELEASE TO SYNAPTIC PLASTICITY AT THE MOSSY FIBER SYNAPSE
Urban Maier, Alexander Drakew, Michael Frotscher, Hamburg
- T8-8A** DEVELOPMENT AND SPIKE-TIME DEPENDENT PLASTICITY OF INHIBITION IN A BINAURAL E/I NUCLEUS
Brice Bouhours, Enida Gjoni, Ralf Schneggenburger, Lausanne, Switzerland
- T8-9A** DIFFERENT FORMS OF TIMING-DEPENDENT LTP CAN COEXIST AT CA3-CA1 HIPPOCAMPAL SYNAPSES
Elke Edelmann, Efrain Cepeda-Prado, Volkmar Leßmann, Magdeburg



- T8-10A** DIFFERENTIAL CONTRIBUTION OF MATRIX METALLOPROTEINASES 3 AND 2/9 TO LONG-TERM POTENTIATION OF NMDAR-MEDIATED FIELD POTENTIALS AND LTP IN BASAL VS APICAL DENDRITES IN MOUSE CA1 HIPPOCAMPAL REGION
Tomasz Wojtowicz, Patrycja Brzdak, Jerzy W. Mozrzymas, Wroclaw, Poland

Thursday

- T8-1B** DYNEIN LIGHT CHAIN - AN ESSENTIAL FACTOR FOR GEPHYRIN CLUSTERING
Vanessa Kress, Günter Schwarz, Cologne
- T8-2B** ENDOPLASMIC RETICULUM DYNAMICS AND SPINE STRUCTURAL PLASTICITY ARE CORRELATED
Alberto Perez Alvarez, Shuting Yin, Wolfgang Wagner, John A. Hammer III, Thomas G Oertner, Hamburg
- T8-3B** GAD65-SPECIFIC ANTIBODY EFFECTS ON SYNAPTIC PLASTICITY IN HIPPOCAMPAL ORGANOTYPIC SLICES
Paula Paci, Laurence Ris, Mons, Belgium
- T8-4B** GROWTH FACTOR RECEPTOR BOUND-PROTEIN 2 IS ESSENTIAL FOR SOCIAL LONG-TERM RECOGNITION MEMORY FORMATION
Judith Camats Perna, Thomas Schlüter, Kristina Langnäse, Thomas Endres, Rita Murau, Volkmar Leßmann, Lars Nitschke, Oliver Stork, Klaus-Dieter Fischer, Mario Engelmann, Magdeburg
- T8-5B** HIPPOCAMPAL SYNAPTIC PLASTICITY CAN BE INDUCED VIA PATTERNED AFFERENT STIMULATION OF THE PRIMARY OLFACTORY CORTEX
Christina Strauch, Denise Manahan-Vaughan, Bochum
- T8-6B** IMPAIRED SHORT-TERM PLASTICITY IN THE HIPPOCAMPUS OF SPHINGOSINE-1-PHOSPHATE LYASE DEFICIENT MICE
André Deutschmann, Daniel N. Mitroi, Maren Raucamp, Michael Hans, Jochen Walter, Gerhild van Echten-Deckert, Dieter Swandulla, Bonn
- T8-7B** INTERPLAY BETWEEN THE DOPAMINERGIC SYSTEM AND THE EXTRACELLULAR MATRIX IN TERMS OF LEARNING
Jessica Mitlöhner, Constanze Seidenbecher, Renato Frischknecht, Alexander Dityatev, Magdeburg
- T8-8B** LACK OF TYPE 1 IFN RECEPTOR AFFECTS SYNAPTIC PLASTICITY IN MOUSE HIPPOCAMPUS
Gayane Grigoryan, Shirin Hosseini, Chintan Chhatbar, Wiebke Arendt, Kristin Michaelsen-Preusse, Ulrich Kalinke, Martin Korte, Braunschweig
- T8-9B** LIGHT-INDUCIBLE TRANSCRIPTOMIC AND EPIGENOMIC CHANGES UNDERLYING BRAIN PLASTICITY IN HONEYBEES
Nils Becker, Robert Kucharski, Sylvain Foret, Ryszard Maleszka, Wolfgang Rössler, Würzburg

Friday

- T8-1C** LONG-TERM PLASTICITY AND FEAR LEARNING IN ADULT HETEROZYGOUS BDNF KNOCKOUT MICE
Susanne Meis, Thomas Endres, Thomas Munsch, Volkmar Lessmann, Magdeburg
- T8-2C** LONG-TERM POTENTIATION IN PERFORANT-PATH DENTATE GYRUS SYNAPSES OF FREELY BEHAVING RATS REQUIRES ACTIVATION OF 5 α -ADRENERGIC RECEPTORS
Niels Hansen, Anne Kemp, Hardy Hagen, Denise Manahan-Vaughan, Bochum
- T8-3C** MECHANISMS REGULATING CTBP1 NUCLEO-CYTOPLASMIC FUNCTIONS
Anika Dirks, Daniela Ivanova, Eckart D. Gundelfinger, Anna Fejtová, Magdeburg
- T8-4C** METHYLPHENIDATE AMPLIFIES LONG-TERM POTENTIATION IN RAT HIPPOCAMPUS INVOLVING β -ADRENERGIC AND D1/D5 RECEPTORS AND INSERTION OF AMPA RECEPTORS
Bernardo Enrique Morales, Claudia Carvallo, Carlos Rozas, Darwin Contreras, Mario Carreño, Gonzalo Ugarte, Marc Leander Zeise, Santiago, Chile
- T8-5C** METHYLPHENIDATE INDUCES LONG-LASTING METAPLASTIC CHANGES IN THE RAT PREFRONTAL CORTEX
Marc Leander Zeise, Héctor Burgos, Rocio Agurto, Christian Cofré, Patricio Saez, Alejandro Hernández, Bernardo Morales, Santiago, Chile
- T8-6C** MOLECULAR MECHANISMS MEDIATING THE SPECIFIC EFFECTS OF BDNF-TRKB SIGNALING IN HIPPOCAMPAL NEURONS
Nina Gödecke, Anita Remus, Marta Zagrebelsky, Martin Korte, Braunschweig
- T8-7C** PHENOTYPIC SYNAPTIC PLASTICITY IN THE BRAIN OF THE NECTAR-FEEDING ANT CAMPONOTUS RUFIPES
Annekathrin Lindenberg, Wolfgang Rössler, Claudia Groh, Würzburg
- T8-8C** ROLE OF HISTONE-METHYLTRANSFERASES IN LEARNING AND MEMORY
Cemil Kerimoglu, Susanne Burkhardt, Eva Benito-Garagorri, Ana Martinez-Hernandez, Jerzy Dyczkowski, Andre Fischer, Göttingen
- T8-9C** ROLE OF THE SYNAPTIC VESICLE PROTEIN MOVER AT BUSHY CELL SYNAPSES
Friederike Wetzel, Thomas Dresbach, Göttingen

Saturday

- T8-1D** SPIKE TIMING-DEPENDENT PLASTICITY: CONTRIBUTION OF THE NUMBER OF SPIKE PAIRINGS IN SYNAPTIC MODIFICATION AT SCHAFFER COLLATERAL-CA1 SYNAPSES.
Efrain Cepeda-Prado, Volkmar Leßmann, Elke Edelmann, Magdeburg



- T8-2D** SYNAPTIC PLASTICITY AND THE SPINE APPARATUS
Alexander Drakew, Anja Tippmann, Urban Maier, Michael Frotscher, Hamburg
- T8-3D** SYNAPTOTAGMIN3 CONTROLS ENDOCYTOSIS OF POST-SYNAPTIC RECEPTORS TO AFFECT SYNAPTIC PLASTICITY
Ankit Awasthi, Saheeb Ahmed, Binu Ramachandran, Yo Shinoda, Henrik Martens, Carolin Wichmann, Camin Dean, Göttingen
- T8-4D** THE APP INTERACTING PROTEIN FAMILY FE65 REVEALS A CRUCIAL ROLE FOR SYNAPTIC FUNCTION AND PLASTICITY
Susann Ludewig, Ulrike Herrmann, Meike Hick, Paul Strecker, Ulrike Müller, Suzanne Guenette, Stefan Kins, Martin Korte, Braunschweig
- T8-5D** THE EFFECT ON THE FIELD POTENTIALS FROM THE HIPPOCAMPUS OF BAD-BAD-EXTRACT (SOLANACEA SPECIES): IS THERE A CONTRIBUTION ON THE MEMORY?
Yalcin Yetkin, Mehmet A. Pak, Van, Turkey
- T8-6D** THE EFFECTS OF ALBUMIN ON PLASTICITY CHANGES IN THE HIPPOCAMPUS AND ON RESPONSE TO ANTI-EPILEPTIC DRUGS IN THE ENTORHINAL CORTEX
Seda Salar, Ezequiel Lapilover, Julia Müller, Alon Friedman, Uwe Heinemann, Berlin
- T8-7D** THE NEURAL CELL ADHESION MOLECULE-ASSOCIATED POLYSIALIC ACID REGULATES SYNAPTIC PLASTICITY IN THE MOUSE PREFRONTAL CORTEX
Hristo Varbanov, Gaga Kochlamazashvili, Herbert Hildebrandt, Alexander Dityatev, Magdeburg
- T8-8D** THE ROLE OF METABOTROPIC GLUTAMATE RECEPTORS IN DIFFERENT FORMS OF SYNAPTIC PLASTICITY IN VITRO
Amira Latif-Hernandez, Enrico Faldini, Tariq Ahmed, Detlef Balschun, Leuven, Belgium
- T8-9D** TIME-RESTRICTED IMPACT OF MATRIX METALLOPROTEASE 3 ACTIVITY ON LONG-TERM PLASTICITY OF NMDARS-MEDIATED SYNAPTIC TRANSMISSION AND LTP IN APICAL AND BASAL DENDRITES IN MOUSE CA1 HIPPOCAMPAL REGION
Patrycja Brzdak, Jerzy W. Mozrzymas, Tomasz Wojtowicz, Wroclaw, Poland

T9: Glia, glia-neuron interactions

Wednesday

- T9-1A** A PHOTOACTIVATBLE CRE SYSTEM BASED ON A CAGED TAMOXIFEN ANALOG FOR PERMANENT GENETIC MANIPULATION OF CELLS IN THE BRAIN
Sidney Cambridge, Betsi Flores, Ludovic Jullien, Alexandre Specht, Heidelberg

- T9-2A** ACTIVITY-DEPENDENT REGULATION OF SODIUM/BICARBONATE CO-TRANSPORTER 1, NBCE1, IN RODENT HIPPOCAMPUS AND CORTEX
Eleni Roussa, Magdalena Schrödl-Häußel, Freiburg
- T9-3A** ASTROCYTIC NEURONAL LACTATE SHUTTLE: FUEL SUBSTRATE FOR MAINTENANCE OF IONIC HOMEOSTASIS IN RAT HIPPOCAMPUS
Eskedar Ayele Angamo, Uwe Heinemann, Berlin
- T9-4A** ASTROGLIOSIS: CHANGES IN POTASSIUM BUFFERING IN ALZHEIMER'S
Lana M. Osborn, Lieneke Kooijman, Willem Kamphuis, Elly M. Hol, Wytse J. Wadman, Amsterdam, Netherlands

Thursday

- T9-1B** ATP SENSING AND DYNAMICS IN BRAIN CELLS
Ulrike Winkler, Andrea Trevisiol, Pauline Seim, Yvonne Enzbrenner, Aiman S. Saab, Klaus-Armin Nave, Johannes Hirrlinger, Leipzig
- T9-2B** CHARACTERIZATION OF PANGLIAL NETWORKS IN BARRELOIDS OF THE MURINE JUVENILE THALAMUS
Lena Claus, Stephanie Griemsmann, Ronald Jabs, Christian Henneberger, Christian Steinhäuser, Bonn
- T9-3B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF ION CHANNELS IN ASTROCYTES PROLIFERATING IN RESPONSE TO ACUTE BRAIN INJURY
Stefanie Götz, Lars Kunz, Benedikt Grothe, Magdalena Götz, Planegg-Martinsried
- T9-4B** FUNCTIONAL ROLE OF PRESYNAPTIC NMDA RECEPTORS DURING THE INDUCTION OF LONG-TERM DEPRESSION AT NEOCORTICAL L4-L2/3 SYNAPSES IN JUVENILE RATS
Florian B. Neubauer, Rogier Min, Thomas Nevian, Bern, Switzerland
- T9-5B** HETEROGENEOUS GAP JUNCTIONAL COUPLING OF ASTROCYTES IN THE AUDITORY BRAINSTEM
Jonathan Stephan, Simon Wadle, Charlotte Bold, Philipp Naumann, Christian P. Moritz, Julia Langer, Christine R. Rose, Eckhard Friauf, Kaiserslautern

Friday

- T9-1C** IMPACT OF NEURONAL ACTIVITY ON GLIAL ENERGETIC METABOLITES AS DETERMINED WITH GENETICALLY ENCODED FRET-BASED NANOSENSORS IN ORGANOTYPIC MOUSE HIPPOCAMPAL SLICES
Iván Ruminot, Jana Schmaelzle, Alejandro San Martin, Sebastián Ceballo, L. Felipe Barros, Joachim W. Deitmer, Kaiserslautern
- T9-2C** LACTATE SUPPORTS SODIUM HOMEOSTASIS OF NEURONS, BUT NOT OF ASTROCYTES, UNDER METABOLIC STRESS IN THE MOUSE HIPPOCAMPUS
Daniel Ziemens, Claudia Karus, Christine R. Rose, Düsseldorf



- T9-3C** MICROGLIA COMPRISE FUNCTIONALLY DISTINCT CELLULAR SUBSETS WITH SPECIALIZED PHAGOCYTOTIC CAPACITY
Alexander Adalbert Götz, Angela Borisch, Martin Weber, Uwe-Karsten Hanisch, Göttingen
- T9-4C** SOLUBLE NEUREGULIN-1 MODULATES DISEASE PATHOGENESIS IN RODENT MODELS OF CHARCOT-MARIE-TOOTH DISEASE 1A
Robert Fledrich, Ruth M. Stassart, Klink A, Thomas Prukop, Tamer A. M. Abdelaal, Christine Stadelmann, Wolfgang Brück, Klaus-Armin Nave, Michael W. Sereda, Göttingen

Saturday

- T9-1D** THE ROLE OF MYELIN IN COGNITIVE PROCESSING: DIRECTION AND STRENGTH OF LATERALIZATION
Livia de Hoz, Klaus-Armin Nave, Sharlen Moore, Göttingen
- T9-2D** THE ROLE OF MYELIN IN TEMPORAL AND SPECTRAL PROCESSING IN THE AUDITORY SYSTEM
Sharlen Yared Moore Corona, Klaus-Armin Nave, Livia de Hoz, Göttingen
- T9-3D** THE ROLE OF THE MONOCARBOXYLATE TRANSPORTERS (MCTS) IN NEURONS AND ASTROCYTES IN THE UPTAKE OF KETONE BODIES
Linda S. Forero Quintero, L. F. Barros, H.M. Becker, J. W. Deitmer, Kaiserslautern
- T9-4D** TIGHT JUNCTION BARRIERS IN THE FIBER LAYER OF THE FISH RETINA
Lidia Garcia Pradas, Corinna Gleiser, Andrea Wizenmann, Hartwig Wolburg, Andreas F Mack, Tübingen
- T9-5D** WATER DEPRIVATION INDUCED NEURO-ASTROCYTIC INTERACTIONS IN BOTH SUPRAOPTIC AND PARAVENTRICULAR NUCLEI OF HYPOTHALAMUS OF BRAIN MERIONES SHAWI WHICH IMPROVED THE CONTROL OF VASOPRESSIN ON KIDNEY WATER CHANNEL NAMED AQUAPORINES-2
Abdeljalil Elgot, Omar Elhiba, Halima Gamrani, Settati, Morocco

T10: Aging and developmental disorders

Wednesday

- T10-1A** A NOVEL FORM OF INFANT-ONSET MITOCHONDRIOPATHY
Bianca Hartmann, Hao Hu, Nadine Kraemer, Luciana Musante, Björn Fischer, Hans-Hilger Ropers, Thomas Wienker, Christoph Huebner, Angela M. Kaindl, Berlin

- T10-2A** ADVANCED PATERNAL AGE AS A RISK FACTOR FOR AUTISM: EFFECTS ON BEHAVIOR AND BRAIN MORPHOLOGY IN RATS AND HUMANS
Dominik Seffer, Axel Krug, Julius C. Eggebrecht, Henrike Rippberger, Bruno Dietsche, Heidelore Backes, Rainer K.W. Schwarting, Tilo Kircher, Markus Wöhr, Marburg
- T10-3A** AUTISTIC-LIKE BEHAVIOR AND ALTERED NEUROTRANSMITTER LEVELS IN MICE LACKING THE POST-SYNAPTIC SCAFFOLDING PROTEIN SHANK1
A. Özge Sungur, Magdalena C. E. Jochner, Elena Andres, Adriana del Rey, Rainer KW Schwarting, Markus Wöhr, Marburg
- T10-4A** BDNF DELETION IN THE COCHLEA/LOWER BRAINSTEM LEADS TO CENTRAL PLASTICITY CHANGES OVER AGE
Dario Campanelli, Sze Chim Lee, Ksenya Varakina, Annalisa Zuccotti, Wibke Singer, Lukas Rüttiger, Thomas Schimmang, Marlies Knipper, Tübingen
- T10-5A** CB1 RECEPTOR SIGNALING INFLUENCES ASTROGLIAL MORPHOLOGY AND DISTRIBUTION IN THE AGEING HIPPOCAMPUS
Andras Bilkei-Gorzo, Önder Albayram, Frank Ativie, Safak Hasan, Till Zimmer, Karsten Bach, Andreas Zimmer, Bonn
- T10-6A** ULTRASONIC VOCALIZATIONS OF NEONATAL RATS PRENATALLY EXPOSED TO VALPROIC ACID
Eva Bollen, Karolina Rojek, Piotr Popik, Krakow, Poland

Thursday

- T10-1B** EARLY TREATMENT OF AN M-CHANNEL EPILEPSY PHENOTYPE PREVENTS DISORDERED BEHAVIOR, BRAIN STRUCTURE AND ACTIVITY
Stephan Marguet, Quyen Le, Andrea Merseburg, Axel Neu, Fabio Morellini, Igor Jakovcevski, Dirk Isbrandt, Hamburg
- T10-2B** FUNCTIONAL ANALYSIS OF NOVEL COLLYBISTIN MISSENSE MUTATIONS ASSOCIATED WITH INTELLECTUAL DISABILITY
Philip Long, Victoria James, Maya Topf, Philipp Wesche, Kirsten Harvey, Robert Harvey, London, United Kingdom
- T10-3B** GENE THERAPY IN FRAGILE X SYNDROME
David Richard Hampson, Shervin Gholizadeh, Jason Arsenault, Toronto, Canada
- T10-4B** MODELING MORPHOLOGICAL AND FUNCTIONAL BRAIN DISEASES BY ABLATION OF I(H) DURING DEVELOPMENT
Andrea Merseburg, Anna Katharina Schlusche, Igor Jakovcevski, Steffi Sandke, Axel Neu, Dirk Isbrandt, Hamburg
- T10-5B** MYELIN ABNORMALITIES IN MENTAL DISEASES: FOCUS ON MYELIN BASIC PROTEIN (MBP)
Giulia Poggi, Susann Boretius, Wiebke Möbius, Klaus-Armin Nave, Hannelore Ehrenreich, Göttingen



- T10-6B** NOVEL ALTERNATIVE SPLICE VARIANTS OF MOUSE CDK5RAP2 CAUSE A LACK OF MICROCEPHALY PHENOTYPE IN CONDITIONAL CDK5RAP2 LOXP/HCMV CRE MUTANT MOUSE
Nadine Krämer, Lina Issa-Jahns, Gerda Neubert, Ethiraj Ravindran, Olaf Ninnemann, Angela M. Kaindl, Berlin

Friday

- T10-1C** NOVEL MID-HINDBRAIN MALFORMATION, MICROCEPHALY, AND INTELLECTUAL DISABILITY
Ethiraj Ravindran, Hao Hu, Nadine Kraemer, Olaf Ninnemann, Luciana Musante, Eugen Boltshauser, Detlev Schindler, Hans-Hilger Ropers, Thomas Wienker, Christoph Hubner, Angela M Kaindl, Berlin
- T10-3C** PROBIOTIC BACTERIA PROTECTS DOPAMINERGIC NEURONS IN A ROTENONE MODEL OF PD IN RATS
Mohamed Moheb Elgamal, Mohamed Salama, Mohamed Alaa, Mahmoud Elkotb, Hussein Sheashaa, Mohamed Sobh, Mansoura, Egypt
- T10-4C** RECOMBINANT HUMAN ERYTHROPOIETIN MODULATES NEUROGENESIS AND VASCULOGENESIS IN THE HYPOXIC MOUSE BRAIN DURING EARLY DEVELOPMENT
Mandy Richter-Kraus, Susan Jung, Florian Brackmann, Regina Trollmann, Erlangen
- T10-5C** REELIN FUNCTION IN THE ADULT DENTATE GYRUS
Jasmine Pahle, Jo Kristin Welzel, Michael Frotscher, Bianka Brunne, Hamburg
- T10-6C** SYNAPTIC PROTEINS AND THEIR RELATIONSHIP TO BRAIN AGING IN MALE AND FEMALE ZEBRAFISH (DANIO RERIO)
Michelle Marie Adams, Ayca Arslan-Ergul, Dilara Halim, Elif Karoglu, Bahriye Erkaya, Ferda Altaytas, Ozlen Konu, Ankara, Turkey

Saturday

- T10-1D** THE EXPRESSION OF MYELIN-ASSOCIATED GENES IS REDUCED IN MILD FOCAL CORTICAL DYSPLASIA
Catharina Donkels, Dietmar Pfeifer, Susanne Huber, Julia Nakagawa, Vera van Velthoven, Astrid Weyerbrock, Josef Zentner, Carola A. Haas, Freiburg
- T10-2D** THE MULTIPLE ROLES OF REELIN IN NEURONAL MIGRATION AND LAYER FORMATION: BEYOND THE SIMPLISTIC VIEW
Nieves Mingo-Moreno, Rebecca Wallrafen, Jochen F. Staiger, Robin J. Wagener, Göttingen
- T10-3D** THE NF2 TUMOR SUPPRESSOR PROTEIN MERLIN IN PERIPHERAL NERVE REGENERATION
Alexander Schulz, Stephan L. Baader, Andrey Irintchev, Otto W. Witte, Helen Morrison, Jena

- T10-4D** THEORETICAL MODELING OF CEREBRAL ORGANOIDS: MICROCEPHALY AND THE GRIFFITHS SINGULARITY
Karen G. Petrosyan, Chin-Kun Hu, Taipei, Taiwan
- T10-5D** TOUCHSCREEN-BASED VISUAL PAIRWISE DISCRIMINATION AND REVERSAL LEARNING IN THE PRIMATE BRAIN AGING MODEL MICROCEBUS MURINUS
Sandra Ammersdörfer, Daniel Schmidtke, Marine Joly, Elke Zimmermann, Hannover
- T10-6D** VISUO-SPATIAL PAIRED ASSOCIATE LEARNING (PAL) IN A STREPSIRRHINE PRIMATE (MICROCEBUS MURINUS): NEW INSIGHTS INTO EARLY PRIMATE COGNITION FROM A COMPUTER-BASED LEARNING TASK
Daniel Schmidtke, Sandra Ammersdörfer, Elke Zimmermann, Hannover

T11: Alzheimer's, Parkinson's and other neurodegenerative diseases

Wednesday

- T11-1A** ²⁰¹¹TLDDC-SPECT IMAGING OF ALTERATIONS IN CNS K⁺-METABOLISM IN MOUSE MODELS OF DEMENTIA
Anja M. Oelschlegel, Franziska Stöber, Daniel Vincenz, Henning Scheich, Ivayala Apostolova, Holger Amthauer, Klaus G. Reymann, Jürgen Goldschmidt, Magdeburg
- T11-2A** ALTERED LOCALIZATION AND ABNORMAL MODIFICATIONS OF SIGMA RECEPTOR-1 IN AMYOTROPHIC LATERAL SCLEROSIS
Anand Goswami, Aachen
- T11-3A** AMYLOID- β -INDUCED NMDA-RECEPTOR SIGNALING TO THE NUCLEUS
Katarzyna Maria Grochowska, Julia Baer, Giriraj Sahu, Michael R. Kreutz, Magdeburg
- T11-4A** AN ANIMAL MOUSE MODEL FOR RETINAL DEGENERATION REVEALS CCDC66 TRANSGENE EXPRESSION OUTSIDE THE RETINA AND EXPRESSION PROFILING IDENTIFIES RETINAL DEGENERATION MARKER
Wanda Maria Gerding, Sabrina Schreiber, Benjamin Robertz, Amer Denis Akkad, Elisabeth Petrasch-Parwez, Jörg Thomas Epplen, Bochum
- T11-5A** ATTEMPT TO PROVE THE ACETYLCHOLINE-DEPENDENT CHARACTER OF SUPPRESSION OF THE APOMORPHINE-INDUCED ROTATION RATE OF HEMIPARKINSONIAN RATS AFTER INTRASTRIATAL TREATMENT WITH BOTULINUM NEUROTOXIN-A AND EVIDENCE FOR THE POSSIBILITY OF REPEATED INTRASTRIATAL BONT-A TREATMENTS OF HEMIPARKINSONIAN RATS DURING 6 MONTHS
Alexander Hawlitschka, Eilhard Mix, Andreas Wree, Rostock



- T11-6A** CHARACTERIZATION OF A HUMAN CELL CULTURE MODEL SYSTEM FOR STUDYING PARKINSON'S DISEASE
Katharina Pieger, Nadja Schröder, Norbert Babai, Janina Deußler, Jürgen Winkler, Johann Helmut Brandstätter, Erlangen
- T11-7A** CHARACTERIZATION OF NEWLY IDENTIFIED REGULATORS OF PROTEIN HOMEOSTASIS IN MAMMALIAN CELLS
Albrecht M. Clement, Anna S. Besemer, Christian von Hilchen, Christian Behl, Mainz
- T11-8A** CYCLODEXTRIN MIMICS ALTERATION OF INHIBITORY SYNAPTIC TRANSMISSION OBSERVED IN CA1 PYRAMIDAL CELLS OF NPC1 DEFICIENT MICE
Michael Rabenstein, Katja Bovensiepen, Arndt Rolfs, Moritz J. Frech, Rostock
- T11-9A** DE- AND REMYELINATION IN METACHROMATIC LEUKODYSTROPHY
Klaudia Brysch, Matthias Eckhardt, Volkmar Gieselmann, Bonn
- T11-10A** DECIPHERING THE BRAIN NON-CODING RNAOME LINKED TO COGNITIVE AGING AND ALZHEIMER'S DISEASE USING THE MOUSE AS MODEL ORGANISMS
Magdalena Navarro, Eva Benito, Andre Fischer, Göttingen
- T11-11A** DELAYED FEEDBACK CONTROL OF PATHOLOGICAL NETWORK OSCILLATIONS
Ioannis Vlachos, Taskin Deniz, Arvind Kumar, Freiburg
- T11-12A** DELETION OF MYOSIN VI CAUSES SLOW RETINAL OPTIC NEUROPATHY AND AGE-RELATED MACULAR DEGENERATION (AMD)-LIKE RETINAL PHENOTYPE
Timm Schubert, Corinna Gleiser, Peter Heiduschka, Christoph Franz, Kerstin Nagel-Wolfrum, Ayse Sahaboglu, Nicole Weisschuh, Gordon Eske, Karin Rohbock, Norman Rieger, Francois Paquet-Durand, Bernd Wissinger, Uwe Wolfrum, Bernhard Hirt, Wibke Singer, Lukas Rüttiger, Ulrike Zimmermann, Marlies Knipper, Tübingen

Thursday

- T11-1B** DOES THE CYTOPLASMIC MEMBRANE LOCALIZED VOLTAGE-DEPENDENT ANION CHANNEL 1 (VDAC-1) PARTICIPATE IN HA-RAS-MEDIATED NEURONAL PROTECTION?
Sebastian Neumann, Konstantin Kuteykin-Teplyakov, Rolf Heumann, Bochum
- T11-2B** EFFECTS OF ALPHA-SYNUCLEIN ON AXONAL TRANSPORT OF MITOCHONDRIA
Alexander Böcker, Jan Koch, Mathias Bähr, Paul Lingor, Göttingen
- T11-3B** EFFECTS OF STN-DBS ON THE AMPHETAMINE-INDUCED TURNING BEHAVIOR IN HEMI-PARKINSONIAN RAT MODEL
Pegah Azizi, Maria Mesch, Michael T. Lippert, Kentaroh Takagaki, Magdeburg

- T11-4B** EPIGENETIC PROFILING OF APP/PS1 MICE – A MOUSE MODEL FOR ALZHEIMER'S DISEASE
Michael Andre Gertig, André Fischer, Göttingen
- T11-5B** EVIDENCE OF NUCLEOLAR STRESS IN GENETIC MODELS OF NEURODEGENERATIVE DISORDERS: FOCUS ON BASAL GANGLIA
Rosanna Parlato, Valentin Evsyukov, Suzana Gispert, Falk Schlaudraff, Holger Bierhoff, Rasem Mustafa, Wolfgang Wurst, Birgit Liss, Ulm
- T11-6B** EXPOSURES TO DAILY SOCIAL DEFEAT LEAD TO MOTOR IMPAIRMENT AND CALRETICULIN UPREGULATION. A RISK FACTOR FOR LATER-LIFE ONSET OF NEURODEGENERATIVE DISORDERS
Jordi Tomas Roig, Göttingen
- T11-7B** EXPRESSION AND FUNCTION OF INWARDLY RECTIFYING POTASSIUM CHANNEL IN ALS OLIGODENDROCYTES
Danijela Bogoljub Bataveljic, Ljiljana Nikolic, Mina Peric, Pavle Radoslav Andjus, Belgrade, Serbia Montenegro
- T11-8B** EXPRESSION OF THE CYTOSKELETON PROTEIN VIMENTIN IS ALTERED IN NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC IPSC DERIVED CELLS
Franziska Runge, Michaela Trilck, Arndt Rolfs, Moritz J. Frech, Rostock
- T11-9B** FEAR AND FEAR EXTINCTION LEARNING IN APP/PS1 MICE
Thomas Endres, Gloria Hölzl, Elke Edelmann, Volkmar Lessmann, Magdeburg
- T11-10B** FIBROBLASTS AS AN ATTRACTIVE MODEL FOR THE EXPLORATION OF GLUCOCEREBROSIDASE DEFICIENCY IN PARKINSON'S DISEASE
Diana Beekharee, Lille, France
- T11-11B** FUNCTIONAL CHARACTERISATION OF NIEMANN-PICK TYPE C1 NEURONAL CELLS DERIVED FROM PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS
Moritz J. Frech, Sarah Joost, Michaela Trilck, Franziska Runge, Michael Rabenstein, Arndt Rolfs, Rostock
- T11-12B** FUNCTIONAL PROPERTIES OF MICROGLIA IN MOUSE MODELS OF ALZHEIMER'S DISEASE
Nasrin Saiepour, Thomas A Bayer, Hendrikus W.G.M. Boddeke, Uwe-Karsten Hanisch, Göttingen

Friday

- T11-1C** HSP22 MEDIATES THE DIFFERENTIAL DEGENERATION OF DOPAMINERGIC MIDBRAIN NEURONS
Baozhu Zhang, Xinhua Zhang, Sen Li, Yanqing Yin, Jiawei Zhou, Shanghai, China
- T11-2C** INFLUENCE OF α -SYNUCLEIN ON INTRACELLULAR LEVELS OF TRANSITION METALS
Eleonora Carboni, Stefan Roudeau, Lisa Barski, Lars Tatenhorst, Mathias Bähr, Asuncion Carmona, Richard Ortega, Paul Lingor, Göttingen



- T11-3C** LABEL FREE QUANTITATIVE PROTEOMICS OF ASTROCYTES DIRECTLY CONVERTED TO NEURONS
Hendrik Schöneborn, Shariful Islam, Fabian Raudzus, Christina Rolfes, Marcus Krüger, Hermann Heumann, Koushik Chakrabarty, Sebastian Neumann, Rolf Heumann, Bochum
- T11-4C** MIRNAS IN NEURITE OUTGROWTH AND REGENERATION OF MIDBRAIN NEURONS
Anna-Elisa Roser, Rashi Halder, Jerzy Dyczkowski, Mathias Bähr, André Fischer, Paul Lingor, Göttingen
- T11-5C** MOLECULAR IMAGING OF CAV3.2-CHANNEL PROMOTER REGULATION IN HIPPOCAMPI OF LIVING MICE DURING EPILEPTOGENESIS
Rebecca Kulbida, Yipeng Wang, Eva-Maria Mandelkow, Susanne Schoch, Albert J. Becker, Karen M. J. van Loo, Bonn
- T11-6C** NEURONAL DIFFERENTIATION OF NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS
Michaela Trilck, Sarah M. E. Joost, Franziska Runge, Arndt Rolfs, Moritz J. Frech, Rostock
- T11-7C** POSTTRANSLATIONAL MODIFICATION AND MUTATION OF HISTIDINE 50 TRIGGER ALPHA-SYNUCLEIN AGGREGATION AND TOXICITY
Stefanie Menges, Johannes C. M. Schlachetzki, Holger Meixner, Cord-Michael Becker, Jürgen Winkler, Wei Xiang, Jochen Klucken, Erlangen
- T11-8C** READING THE CODE: THE ROLE CHROMATIN READERS IN THE HEALTHY AND DISEASED BRAIN
Hendrik Urbanke, Eva Benito, Andre Fischer, Göttingen
- T11-9C** VRETINAL NEURODEGENERATION, REACTIVE GLIOSIS AND COMPLEMENT ACTIVATION IN PROTEIN TYROSINE PHOSPHATASE MEG2 DEFICIENT MICE
Jacqueline Reinhard, Stephanie C. Joachim, Susanne Wiemann, Julia Woestmann, Yingchun Wang, Gregory Downey, Andreas Faissner, Bochum
- T11-10C** ROCK-INHIBITION AS A THERAPEUTIC APPROACH IN MODELS OF PARKINSON'S DISEASE
Lars Tatenhorst, Kim-Ann Saal, Jan C. Koch, Uwe Michel, Mathias Bähr, Lars Tönges, Paul Lingor, Göttingen
- T11-11C** SIGNIFICANT EFFECT OF L-DOPA TREATMENT ON THE TRANSCRIPTOME OF A BRAIN AREA RELEVANT FOR PARKINSON'S DISEASE: INDUCTION OF TH EXPRESSION IN THE STRIATUM
Sandra Gellhaar, Allissa A. Dillman, Henrike Planert, Gilad Silberberg, Mark R Cookson, Dagmar Galter, Stockholm, Sweden
- T11-12C** NA⁺/K⁺ PUMP AND KIR CHANNEL FUNCTIONAL RELATIONSHIP IN SPINAL CORD OLIGODENDROCYTES IN AMYOTROPHIC LATERAL SCLEROSIS
Ljiljana Mladen Nikolic, Danijela Bogoljub Bataveljic, Belgrade, Serbia Montenegro

Saturday

- T11-1D** SPHINGOSINE-1-PHOSPHATE LYASE DEFICIENCY IN THE BRAIN: POSSIBLE LINK TO ALZHEIMER'S DISEASE?
Daniel Nicolae Mitroi, Konstantin Glebov, Julie Saba, Jochen Walter, Gerhild van Echten-Deckert, Bonn
- T11-2D** SYT10 IS A NOVEL DOWNSTREAM TARGET OF NPAS4 AND PLAYS A ROLE IN SYNAPTIC ACTIVITY-INDUCED NEUROPROTECTION
Anne M. H. Woitecki, Ramona F. Sowade, Polina Gulakova, Karen M. J. van Loo, Albert J. Becker, Susanne Schoch, Bonn
- T11-3D** THE EFFECT OF COGNITIVE AND MOTOR IMPAIRMENTS ON THE P300 SOURCES IN PARKINSON'S DISEASE PATIENTS
Olga Ivanenko, Sergii Kryzhanovskiy, Andrii Cherninskyi, Igor Zyma, Irina Karaban, Kyiv, Ukraine
- T11-4D** THE EFFECT OF CURCUMIN AGAINST ACUTE ALUMINUM INTOXICATION ON THE DOPAMINERGIC SYSTEM IN RAT
Wafaa Laabbar, Abdeljalil Elgot, Halima Gamrani, Marrakech, Morocco
- T11-5D** THE FUNCTIONAL LINK BETWEEN AUTOPHAGY AND THE TRANS-CELLULAR SPREAD OF ALPHA-SYNUCLEIN
Georgia Minakaki, Anna Bergmann, Wei Xiang, Holger Meixner, Jürgen Winkler, Jochen Klucken, Erlangen
- T11-6D** THE HIPPOCAMPAL CA2 REGION IN TEMPORAL LOBE EPILEPSY
Ute Häussler, Katrin Rinas, Susanne Huber, Carola A. Haas, Freiburg
- T11-7D** THE ROLE OF *DROSOPHILA* APPL (AMYLOID PRECURSOR PROTEIN LIKE) PROTEIN IN BRAIN FUNCTION AND BEHAVIOUR
Franziska Rieche, Burkhard Poeck, Roland Strauss, Mainz
- T11-8D** THE ROLE OF INTRACELLULAR CA2+ STORES FOR NEURONAL DYSFUNCTION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE
Chommanad Lerdkrai, Bianca Brawek, Olga Garaschuk, Tübingen
- T11-9D** α ABNORMAL MODIFICATION OF ALS-ASSOCIATED MUTANT E102Q SIGMA RECEPTOR-1 LEADS TO ER STRESS-MEDIATED DEFECTS IN PROTEIN DEGRADATION AND ENDOSOMAL TRAFFICKING
Alice Dreser, Jan Tillman Vollrath, Antonio Sechi, Andreas Roos, Istvan Katona, S Bohlega, A Al-Saif, Dominik Wiemuth, Hannelore Heidtmann, Jörg Vervoorts, Marc Dohmen, Tania Rizo, Akila Chandrasekar, Hülya Daimagüler, Joachim Weis, Anand Goswami, Aachen
- T11-10D** DELETION OF THE AMYLOID PRECURSOR PROTEIN FAMILY MEMBERS APP AND APLP2 RESULTS IN ABERRANT CHANGES OF THE MOUSE HIPPOCAMPAL PRE-SYNAPTIC ACTIVE ZONE PROTEOME
Jens Weingarten, Melanie Laßek, Benjamin Müller, Marion Bäumlisberger, Tabiwang N. Arrey, Amparo Acker-Palmer, Ulrike Müller, Michael Karas, Walter Volkandt, Frankfurt



- T11-11D** DELETION OF THE AMYLOID PRECURSOR PROTEIN RESULTS IN ABERRANT CHANGES OF THE HIPPOCAMPAL PRESYNAPTIC ACTIVE ZONE PROTEOME IN MOUSE BRAIN
Melanie LaBek, Jens Weingarten, Benjamin Müller, Marion Bäumlisberger, Tabiwang N. Arrey, Amparo Acker-Palmer, Ulrike Müller, Michael Karas, Walter Volkandt, Frankfurt

T12: Neuroimmunology, inflammation and neuroprotection

Wednesday

- T12-1A** ACTIVATED MICROGLIA INDUCE DEFICITS IN EXCITATORY SYNAPSES THROUGH IL-1 β : IMPLICATIONS FOR COGNITIVE IMPAIRMENT IN SEPSIS
Carolina A. Moraes, Gabriel Santos, Tania Cristina Leite de Sampaio Spohr, Joana D'Avila, Flávia Regina Souza Lima, Claudia Farias Benjamim, Fernando A. Bozza, Flávia C. A. Gomes, Rio de Janeiro, Brazil
- T12-2A** ANTI-DPPX ENCEPHALITIS: PATHOGENIC EFFECTS OF ANTIBODIES ON GUT AND BRAIN NEURONS
Johannes Piepgras, Markus Höltje, Klaus Michel, Qin Li, Carolin Otto, Christoph Drenckhahn, Christian Probst, Ralph Buchert, Michael Schemann, Winfried Stöcker, Josep Dalmau, Gudrun Ahnert-Hilger, Klemens Ruprecht, Berlin
- T12-3A** ANTI-INFLAMMATORY ROLE OF HEME OXYGENASE-1/ CARBON MONOXIDE IN FUNCTIONAL ASSAYS USING CO-CULTURES OF MICROGLIA AND HUMAN MODEL NEURONS
Hannah Scheiblich, Gerd Bicker, Hannover
- T12-4A** BRAIN ENDOTHELIAL SPECIFIC KNOCKOUT OF NEMO CAUSES BLOOD BRAIN-BARRIER DISRUPTION AND MIMICS NEUROLOGICAL SYMPTOMS OF INCONTINENTIA PIGMENTI
Jan Wenzel, Dirk A. Ridder, Kristin Müller, Kathrin Töllner, Hartwig Wolburg, Stijn Stroobants, Xin-Kang Tong, Rudi D'Hooge, Detlef Balschun, Wolfgang Löscher, Edith Hamel, Markus Schwaninger, Lübeck
- T12-5A** CD14 CONTROL OVER MICROGLIAL TLR4 FUNCTIONS INVOLVES AN IFN β -MEDIATED FEEDBACK MECHANISM
Christin Fritsche, Hana Janova, Uwe-Karsten Hanisch, Göttingen
- T12-6A** CHANGES OF BDNF-MEDIATED SIGNALING MECHANISMS DURING THE FORMATION OF NEURAL NETWORKS AND IN THE ACUTE NORMOBARIC HYPOXIA IN VITRO
Tatiana Alexandrovna Sakharnova, Maria Valerievna Vedunova, Elena Vladimirovna Mitroshina, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia

- T12-7A** COMPARATIVE ANALYSIS OF STEM-CELL-MARKERS IN MATCHED PRIMARY AND RECURRENT GLIOBLASTOMAS
Charlotte Flüh, Kirsten Hattermann, H. Maximilian Mehdorn, Rolf Mentlein, Janka Held-Feindt, Kiel
- T12-8A** CROSSREACTIVITY OF ANTIBODIES TO NEISSERIA GONORRHOEAE WITH THE HEAT SHOCK PROTEIN HSP60 CORRELATES WITH REDUCED MITOCHONDRIAL ACTIVITY IN THE HUMAN CHOROID PLEXUS PAPILLOMA CELL LINE HIBCPP
Bernhard Reuss, Horst Schroten, Hiroshi Ishikawa, Abdul Rahman Asif, Göttingen
- T12-9A** DECOMPRESSIVE CRANIECTOMY FOR PREVENTION OF SECONDARY BRAIN DAMAGE IN PATIENTS WITH TRAUMATIC INTRACRANIAL HEMATOMAS
Jamshid Kuzibaev, Kozim Makhkamov, Tashkent, Russia

Thursday

- T12-1B** ERYTHROPOIETIN PROMOTES SURVIVAL OF INSECT NEURONS VIA RECEPTOR-DEPENDENT SIGNALLING
Natasa Miljus, Jan Vincent Rison, Ralf Heinrich, Göttingen
- T12-2B** EUPHORBIA RESINEFERA EXTRACT INDUCED PAIN DECREASE ON MICE
Ouassil el Kherchi, Hanane Khalki, Maryam Mountassir, Abdelmajid Ziad, Abderrahman Chait, Béni-Mellal, Morocco
- T12-3B** EVALUATION OF INFLAMMATORY AND SYNAPTIC PROTEIN ALTERATIONS DURING ACUTE, SUB-ACUTE, AND CHRONIC INFLAMMATORY RESPONSE FOLLOWING STATUS EPILEPTICUS (SE)
Una Avdic, Idrish Ali, Christine T. Ekdahl, Lund, Sweden
- T12-4B** GUT MICROBIOTA INFLUENCES LIPOPOLYSACCHARIDE-INDUCED DEPRESSIVE-LIKE BEHAVIORS BY INFLAMMATORY MECHANISM: INVOLVEMENT OF ADULT HIPPOCAMPAL NEUROGENESIS AND SEROTONERGIC NEUROTRANSMISSION
Alline Cristina Campos, Natalia Pessoa Rocha, Jacques R. Nicoli, Leda Q. Vieira, Mauro M. Teixeira, Antonio L. Teixeira, Göttingen
- T12-5B** INTERACTIONS BETWEEN SIGNALING MECHANISMS OF NEUROTROPHIC FACTORS BDNF AND GDNF DURING NORMOBARIC HYPOXIA IN VITRO
Maria Valerievna Vedunova, Tatiana Alexandrovna Sakharnova, Elena Vladimirovna Mitroshina, Alexey Alexandrovich Babaev, Tatiana Victorovna Shishkina, Natalia Alexandrovna Shchelchkova, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia
- T12-6B** INTRALESIONAL TRANSPLANTATION OF MESENCHYMAL STEM CELLS IN THE TOXIC DEMYELINATING CUPRIZONE MODEL
Laura Salinas Tejedor, Kristin Jacobsen, Gabriel Berner, Viktoria Gudi, Nicole Jungwirth, Florian Hansmann, Wolfgang Baumgärtner, Thomas Skripuletz, Martin Stangel, Hannover



- T12-7B** LOSE AND USE YOUR HEAD! INVERSE SIGNALING OF TRANSMEMBRANE CHEMOKINES IN GLIOMAS
Kirsten Hattermann, Henrike Gebhardt, Ralf Lucius, Andreas Ludwig, Rolf Mentlein, Janka Held-Feindt, Kiel
- T12-8B** MICROGLIA ACTIVATION IN MICE SHOWING DEPRESSIVE-LIKE BEHAVIOR AFTER CHRONIC INTERFERON-ALPHA TREATMENT
Simone Wachholz, Manuela EBlinger, Jennifer Plümper, Marie-Pierre Manitz, Georg Juckel, Astrid Friebe, Bochum
- T12-9B** DAPK1-TAU INTERACTION MEDIATES SPINE DAMAGE IN ISCHEMIC STROKE
Lei Pei, Shan Wang, Youming Lu, Wuhan, China

Friday

- T12-1C** NEUROGENESIS IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES IS STRONGLY AFFECTED BY GLIAL CELL ACTIVATION AND INFLAMMATORY PROCESSES
Johannes Gerlach, Catharina Donkels, Gert Münzner, Carola A. Haas, Freiburg
- T12-2C** NEUROTROPHINS BDNF AND NGF IN PATIENTS WITH AFFECTIVE DISORDERS
Lyudmila Levchuk, Natalya Vyalova, German Simutkin, Svetlana Ivanova, Nikolay Bokhan, Tomsk, Russia
- T12-3C** POLYMERIC NANOPARTICLES AS DRUG CARRIERS ACROSS THE BLOOD-BRAIN BARRIER: AN EFFECTIVE AND NON-TOXIC SYSTEM
Petra Henrich-Noack, Nadine Voigt, Sarah Kockentiedt, Werner Hintz, Jürgen Tomas, Bernhard A. Sabel, Magdeburg
- T12-4C** PRENATAL IMMUNE CHALLENGE INDUCES CHANGES OF MICROGLIAL SURFACE MARKERS IN AN ANIMAL MODEL OF SCHIZOPHRENIA
Manuela EBlinger, Marie Pierre Manitz, Simone Wachholz, Rainer Sommer, Jennifer Plümper, Awatef Eshhili, Georg Juckel, Astrid Friebe, Bochum
- T12-5C** PRIMARY BRAIN CELL CULTURES OF TRIBOLIUM CASTANEUM AS A MODEL TO STUDY ERYTHROPOIETIN SIGNALING PATHWAYS
Nina Hahn, Ralf Heinrich, Göttingen
- T12-6C** QUANTITATIVE ASSESSMENT OF BLOOD-BRAIN BARRIER PERMEABILITY AND CELL DAMAGE AFTER CORTICAL ISCHEMIA - ROLE OF FREE RADICALS
Karl Schoknecht, Ofer Prager, Udi Vazana, Lyn Kamintsky, Yoash Chassidim, Uwe Heinemann, Alon Friedman, Berlin
- T12-7C** RESPONSES OF MOUSE RETINAL GANGLION CELLS TO EXPERIMENTALLY INDUCED HYPOXIA / ISCHEMIA
Gabriel Christian Knop, Anneka Göppner, Bianca Assmann, Andreas Feigenspan, Erlangen

- T12-8C** **ROLE OF P75 NEUROTROPHIN RECEPTOR IN MEDIATING NEURONAL ALTERATIONS IN TOXOPLASMA GONDII CHRONICALLY INFECTED MICE**
Jan Alexander Kleveman, Marianna Weller, Alexandru Parlog, Ildiko Dunay, Marta Zagrebelsky, Martin Korte, Braunschweig
- T12-9C** **ALTERATIONS OF THE GLIAL ACTIVATION MARKERS IN RAT CHRONIC MILD STRESS MODEL**
Weronika Dominika Duda, Katarzyna Curzytek, Marta Kubera, Eimear Fagan, Thomas J. Connor, Krakow, Poland

Saturday

- T12-1D** **SYSTEMIC INFLAMMATION IS ASSOCIATED WITH A REDUCTION IN SYNAPTOPODIN EXPRESSION IN THE MOUSE HIPPOCAMPUS**
Andreas Strehl, Maximilian Lenz, Ze'ev Itsekson-Hayosh, Denise Becker, Joab Chapman, Thomas Deller, Nicola Maggio, Andreas Vlachos, Frankfurt/Main
- T12-2D** **THE EFFECT OF METHYLENE BLUE ADMINISTRATION ON CHEMOTHERAPY-INDUCED PERIPHERAL NEUROPATHY**
Teodora Alexa, Andrei Luca, Catalina Roxana Bohotin, Iasi, Romania
- T12-3D** **THE EFFECT OF N-ARACHIDONOYL DOPAMINE (N-ADA) ON FUNCTIONAL HOMEOSTASIS OF NEURAL NETWORKS IN NORMAL CONDITIONS AND IN MODELING OF ACUTE HYPOXIA**
Elena Vladimirovna Mitroshina, Maria Valerievna Vedunova, Tatiana Alexandrovna Sakharnova, Mikhail Yurievich Bobrov, Leonid Georgievich Khaspekov, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia
- T12-4D** **THE EFFECT OF NEUROINFLAMMATION INDUCED BY INFLUENZA A VIRUS INFECTION ON HIPPOCAMPAL NEURON MORPHOLOGY**
Shirin Hosseini, Kristin Michaelsen-Preusse, Esther Wilk, Klaus Schughart, Martin Korte, Braunschweig
- T12-5D** **THE INFLUENCE OF PATIENTS GLUTAMATE RECEPTOR 2 ANTIBODIES ON AMPA RECEPTOR MEDIATED TRANSMISSION**
Holger Haselmann, Benedikt Grünwald, Christian Geis, Jena
- T12-6D** **THE TRANSMEMBRANE CHEMOKINE CXCL16 TRANSDUCES "INVERSE SIGNALING" EFFECTS IN HUMAN MENINGIOMAS**
Janka Held-Feindt, Kareen Bartsch, Henrike Gebhardt, Maximilian Mehdorn, Rolf Mentlein, Kirsten Hattermann, Kiel
- T12-7D** **THERMAL IMPACT OF OPTOGENETIC LASER LIGHT STIMULATION ON NEURAL TISSUE**
Gonzalo Arias Gil, Frank Ohl, Kentaroh Takagaki, Michael T. Lippert, Magdeburg



- T12-8D** COMPARING NEUROPROTECTIVE ACTIONS IN A RAT MODEL OF RETINAL DEGENERATION
Mattia Di Paolo, Darin Zerti, L'Aquila, Italy

T13: Cognitive, emotional, behavioral state disorders and addiction

Wednesday

- T13-1A** ACCUMBAL CART PEPTIDE 55-102 BLOCKS AMPHETAMINE-INDUCED LOCOMOTOR ACTIVITY BY REGULATING AKT-GSK3 β SIGNALING PATHWAY AND ACCOMPANIED INTERACTION WITH GLUA1
Bo Ram Cho, Wha Young Kim, Ju Kyong Jang, Jeong-Hoon Kim, Seoul, Korea (South)
- T13-2A** ACUTE AND CHRONIC EXPOSURE TO CANNABINOID AGONIST MODIFIES NEURONAL ACTIVITY AND COHERENCE OF LOCAL FIELD POTENTIALS IN SUB-CORTICAL LIMBIC AND SOMATO-SENSORY CORTICAL REGIONS
Kerstin Schwabe, Mesbah Alam, Christof v. Wrangel, Joachim K. Krauss, Nadine John, Hannover
- T13-3A** ANIMAL MODEL FOR COFFIN-LOWRY SYNDROME: FUNCTION OF RSK2/RSK2 IN NEURONAL PLASTICITY AND BEHAVIOUR
Victoria Lily Cabello Gonzalez, Michaela Groma, Angelika Schmitt, Matthias Fischer, Würzburg
- T13-4A** ASSOCIATION OF (N251S)-PIP5K2A WITH POSITIVE SYMPTOMS IN SCHIZOPHRENIA
Evgeniya G. Boyarko, Darina R. Iskalieva, Olga Yu. Fedorenko, Svetlana A. Ivanova, Tomsk, Russia
- T13-5A** BEHAVIOURAL ANALYSIS OF FLINDERS SENSITIVE LINE RODENT MODEL OF DEPRESSION: AN APPROPRIATE MODEL FOR MEDIAL FOREBRAIN BUNDLE DEEP BRAIN STIMULATION?
Stephanie Thiele, Timo Spehl, Lars Frings, Fredericke Braun, Marisa Ferch, Philipp Meyer, Luciano Furlanetti, Volker Coenen, Máté Döbrössy, Freiburg
- T13-6A** CO-MICROINJECTION OF GHRELIN AND D1 DOPAMINE RECEPTOR AGONIST IN THE NUCLEUS ACCUMBENS CORE ENHANCES LOCOMOTOR ACTIVITY IN AMPHETAMINE PRE-EXPOSED RAT
Wenting Cai, Ju Kyong Jang, Jeong-Hoon Kim, Seoul, Korea (South)
- T13-7A** CRUCIAL FUNCTION OF FMRP IN THE DEVELOPMENT OF THE HIPPOCAMPAL MOSSY FIBER PATHWAY
Franziska Scharkowski, Leonie Salzburger, Martin Korte, Kristin Michaelsen-Preusse, Braunschweig

T13-8A DEEP BRAIN STIMULATION OF THE CENTROMEDIAN-PARAFASCICULAR COMPLEX ATTENUATES DEFICIENT SENSORIMOTOR GATING IN A RAT MODEL FOR TOURETTE SYNDROME
Thomas Elle, Joachim, K. Krauss, Kerstin Schwabe, Nadine John, Hannover

T13-9A DIFFERENTIAL REGULATION OF COCAINE-INDUCED LOCOMOTOR ACTIVITY BY LEPTIN IN THE NUCLEUS ACCUMBENS
Jung Won Lee, Wha Young Kim, Jeong-Hoon Kim, Seoul, Korea (South)

Thursday

T13-1B DISSECTION AND OPTOGENETIC MANIPULATION OF HABENULA-IPN CELL-SPECIFIC NEURONAL NETWORKS IN THE CONTROL OF NICOTINE ADDICTION AND WITHDRAWAL
Andreas Görllich, Jessica L Ables, Inés Ibañez-Tallon, New York, USA

T13-2B DYSREGULATION OF BDNF SIGNALING DURING ABSTINENCE FOLLOWING DEVELOPMENTAL EXPOSURE TO COCAINE
Lucia Caffino, Giuseppe Giannotti, Chiara Malpighi, Giorgio Racagni, Fabio Fumagalli, Milano, Italy

T13-3B EFFECT OF CADHERIN-13 INACTIVATION ON THE GABAERGIC SYSTEM IN THE MOUSE HIPPOCAMPUS
Lucas Bacmeister, Sandy Popp, Angelika Schmitt, Olga Rivero, Klaus-Peter Lesch, Sarah Sich, Würzburg

T13-4B EFFECTS OF DIFFERENT PHARMACOLOGICAL MANIPULATIONS ON COGNITIVE JUDGMENT BIAS OF RATS IN THE AMBIGUOUS-CUE INTERPRETATION PARADIGM
Rafal Rygula, Jakub Kregiel, Joanna Golebiowska, Jakub Kubik, Piotr Popik, Krakow, Poland

T13-5B EFFECTS OF *NYMPHAEA LOTUS* LINN. AQUEOUS EXTRACT ON CHRONIC MILD STRESS-INDUCED DEPRESSION IN RATS
Kameni Poumeni Mireille, Dzeufiet Desire, Dimo Theophile, Kamtchouing Pierre, Yaounde, Cameroon

T13-6B EFFECTS OF SINGLE AND REPEATED N-ACETYLCYSTEINE TREATMENTS ON CUE-INDUCED NICOTINE-SEEKING BEHAVIOR
Federico Moro, Milano, Italy

T13-7B ELECTROCONVULSIVE STIMULATION ALLEVIATES A BREEDING-INDUCED PREPULSE INHIBITION DEFICIT IN RATS
Nadine John, Wiebke Theilmann, Helge Frieling, Joachim K. Krauss, Kerstin Schwabe, Claudia Brandt, Hannover

T13-8B ENHANCED EXCITABILITY OF GRANULE CELLS AFTER ELECTROCONVULSIVE SEIZURES MIGHT BE LINKED TO CONCOMITANT UP-REGULATION OF ACTIVIN SIGNALING
Fang Zheng, Andrea S. Link, Christian Alzheimer, Erlangen



- T13-9B** EXPRESSION INFLAMMASOME IN NEURONAL AND ASTROCYTIC CELLS IN NEURODEGENERATION
Yulia Komleva, Olga Lopatina, Iana Gorina, Victoria Volkova, Alla Salmina, Krasnoyarsk, Russia

Friday

- T13-1C** ENTORHINAL INPUT CONTRIBUTES TO AN ABERRANT HIPPOCAMPAL CIRCUITRY IN MESIAL TEMPORAL LOBE EPILEPSY
Philipp Janz, Ute Häussler, Antje Kilius, Oliver Kretz, Matthias Kirsch, Ulrich Egert, Carola A. Haas, Freiburg
- T13-3C** GHRELIN DIMINISHES THE NEURONAL OUTPUT OF THE DORSAL RAPHE NUCLEUS AND ITS RESPONSES TO FOOD-PREDICTING CUES IN FREELY BEHAVING RATS
Christoph Lindemann, Brian I. Hyland, Dunedin, New Zealand
- T13-4C** INTER-INDIVIDUAL DIFFERENCES IN BEHAVIORAL INHIBITION AND BEHAVIORAL ACTIVATION ARE REFLECTED IN HUMAN BRAIN STRUCTURE
Yadan Li, Lei Qiao, Jiang Qiu, Qinglin Zhang, Chongqing, China
- T13-5C** MODELING THE DYNAMICS OF DISEASE STATES IN DEPRESSION
Selver Demic, Sen Cheng, Bochum
- T13-6C** NEURONAL CORRELATES OF SUSTAINED FEAR IN THE ANTEROLATERAL PART OF THE BED NUCLEUS OF THE STRIA TERMINALIS
Jörg Lesting, Thiemo Daldrup, Patrick Meuth, Thomas Seidenbecher, Hans-Christian Pape, Münster
- T13-7C** PHASIC DOPAMINE ACTIVITY IN THE DORSAL STRIATUM DURING VARIABLE INTERVAL RESPONDING TO ALCOHOL AND SUCROSE
Tatiana Shnitko, Donita Robinson, Chapel Hill, NC, USA
- T13-8C** POSITIVE ALLOSTERIC MODULATION OF THE $\alpha 7$ NICOTINIC ACETYLCHOLINE RECEPTORS ENHANCES RECOGNITION MEMORY IN RATS
Agnieszka Teresa Potasiewicz, Krakow, Poland
- T13-9C** SOCIAL BEHAVIOR AT THE MOLECULAR LEVEL
Olga Lopatina, Yulia Komleva, Yana Gorina, Natalia Kuvacheva, Alla Salmina, Krasnoyarsk, Russia

Saturday

- T13-1D** PROGRAMMING OF PROMOTER DNA METHYLATION IN HETEROZYGOUS SEROTONIN TRANSPORTER DEFICIENT MICE BY PRENATAL STRESS
Magdalena Theodora Weidner, Karla-Gerlinde Schraut, Sissi B. Jakob, Angelika G. Schmitt, Klaus J. Scholz, Tatyana Strelakova, Nady El Hajj, Thomas Haaf, Gabriela Ortega, Harry WM Steinbusch, Klaus-Peter Lesch, Daniel L. van den Hove, Würzburg

- T13-2D** RESPONSIVENESS OF ACTIVIN A AND ITS NOVEL TARGET GENE PMEPA1 TO ENVIRONMENTAL STIMULATION AND ANTIDEPRESSANT TREATMENT
Andrea Stephanie Link, Svitlana Kurinna, Steven Havlicek, Sandra Lehnert, Beate Winner, Tobias Huth, Fang Zheng, Sabine Werner, Christian Alzheimer, Erlangen
- T13-3D** STUDY HYDROLYSIS MYELIN BASIC PROTEIN BY IGG OF SCHIZOPHRENIC PATIENT ACCORDING TO THE EXTENSION OF THE DISEASE
Daria Parshukova, Ludmila Smirnova, Valentina Buneva, Svetlana Ivanova, Arkady Semke, Yulia Borodyuk, Tomsk, Russia
- T13-4D** THE BLOCKADE OF NMDA RECEPTORS REDUCED THE EXTINCTION PERIOD ON MORPHINE-CONDITIONED PLACE PREFERENCE IN THE RAT
Ali Siahposht- Khachaki, Tehran, Iran
- T13-5D** THE EFFECTS OF THE POSITIVE ALLOSTERIC MODULATOR OF $\alpha 7$ -NACHRS IN COGNITIVE TASKS IN RATS
Agnieszka Nikiforuk, Agnieszka Potasiewicz, Piotr Popik, Krakow, Poland
- T13-6D** THE ENDOCANNABINOID SYSTEM IN THE EXTENDED AMYGDALA NETWORK MODULATES MECHANISMS OF SUSTAINED FEAR
Thiemo Daldrup, Maren Denise Lange, Hanna Szkudlarek, Thomas Seidenbecher, Joerg Lesting, Stephan Guggenhuber, Sabine Ruehle, Floortje Remmers, Sebastian Kuegler, Beat Lutz, Hans-Christian Pape, Muenster
- T13-7D** THE TPH2 KNOCKOUT RAT: PHYSIOLOGICAL AND BEHAVIORAL ANALYSIS OF A SEROTONIN DEFICIENT RAT MODEL
Yasmine Graf, Daniel Beis, Cornelia Hainer, Michael Bader, Markus Wöhr, Natalia Alenina, Berlin
- T13-8D** VARIABILITY OF CEREBRAL LATERALIZATION FOR PERCEPTION OF SPEECH EMOTIONAL PROSODY IN THE COURSE OF PERCEPTUAL LEARNING (IN DIFFERENT ACOUSTIC ENVIRONMENT)
Elena Dmitrieva, Victor Gelman, St.Petersburg, Russia
- T13-9D** IMPAIRED FAST-SPIKING INTERNEURON FUNCTION IN A GENETIC MOUSE MODEL OF DEPRESSION
Jonas-Frederic Sauer, Michael Strüber, Marlene Bartos, Freiburg

T14: Vision: invertebrates

Wednesday

- T14-1A** A CILIARY PROTEIN IN MOTION-VISION GAIN CONTROL
Bart Geurten, Robert Kossen, Selina André, Damiano Zanini, Martin C. Göpfert, Göttingen
- T14-2A** ANATOMICAL ORGANIZATION OF TANGENTIAL NEURONS OF THE CENTRAL COMPLEX IN THE BRAIN OF THE DESERT LOCUST
Joss von Hadeln, Manuel Quintero, Linda Häger, Stanley Heinze, Tobias Bockhorst, Uwe Homberg, Marburg



- T14-3A** CIRCADIAN CLOCK RESETTING IN *DROSOPHILA* BY NON-CANONICAL RHODOPSIN SIGNALLING AND THE ZONA PELLUCIDA PROTEIN QUASIMODO
Ralf Stanewsky, Maite Ogueta-Gutierrez, Adam Bradlaugh, Edgar Buhl, Roger Hardie, James Hodge, London, United Kingdom

Thursday

- T14-1B** CIRCADIAN RHYTHMICITY IN BEHAVIOURAL AND NEURONAL SENSITIVITY IN LOCUSTS
Jonathan Daniel Shand, Tom Matheson, Ezio Rosato, Leicester, United Kingdom
- T14-2B** DIRECT VISUAL INPUT TO MOTONEURONS CONTROLLING WING STEERING MUSCLES IN *DROSOPHILA*
Jan Bartussek, Fritz-Olaf Lehmann, Rostock
- T14-3B** EXPRESSION PLASTICITY OF OPSIN GENES IN *CAMPONOTUS RUFIPES* WORKERS
Ayşe Yilmaz, Stefan Albert, Wolfgang Rössler, Johannes Spaethe, Claudia Groh, Würzburg
- T14-4B** HEAD-BODY-COORDINATION IN WALKING *DROSOPHILA MELANOGASTER*
Kristina Corthals, Philipp Jähde, Martin C. Göpfert, Bart R.H. Geurten, Göttingen

Friday

- T14-1C** HOW MUCH *DROSOPHILA* VISUAL BEHAVIOR IS PREDICTED BY MODELS WITH ASYMMETRIC MOTION RESPONSES?
Andreas Poehlmann, Lisa M. Fenk, Andrew D. Straw, Vienna, Austria
- T14-2C** INVESTIGATING THE NEURONAL SUBSTRATE MEDIATING 3D VISION IN THE PRAYING MANTIS
Ronny Rosner, Vivek Nityananda, Ghaith Tarawneh, Jenny Read, Newcastle upon Tyne, United Kingdom
- T14-3C** MISSING LINKS AND UNEXPECTED PROPERTIES OF MOTION-DETECTING CIRCUITS
Marion Silies, Thomas R. Clandinin, Göttingen
- T14-4C** MODULATION ON THE FLY: THE ROLE OF NEUROMODULATION IN VISUALLY GUIDED FLIGHT BEHAVIOR
Katja Hellekes, John R. Stowers, Andrew D. Straw, Vienna, Austria

Saturday

- T14-1D** NEUROPEPTIDES IN THE REGULATION OF WORKER ONTOGENY IN THE ANT *CATAGLYPHIS FORTIS*
Franziska Schmitt, Christian Wegener, Wolfgang Rössler, Würzburg

- T14-2D** ORIENTATION RUNS OF THE DESERT ANT *CATAGLYPHIS FORTIS*
Pauline Nikola Fleischmann, Robin Grob, Jochen Zeil, Rüdiger Wehner, Wolfgang Rössler, Würzburg
- T14-3D** SYSTEM IDENTIFICATION OF *DROSOPHILA* FLIGHT BEHAVIOUR
John Ross Stowers, Andrew Straw, Andi Kugi, Vienna, Austria
- T14-4D** ULTRASTRUCTURE AND ANATOMY OF MICROGLOMERULAR SYNAPTIC COMPLEXES IN THE POLARIZATION VISION PATHWAY OF THE HONEYBEE
Martina Held, Uwe Homberg, Keram Pfeiffer, Marburg

T15: Vision: retina and subcortical pathways

Wednesday

- T15-1A** A GENERATIVE MODEL OF DECORRELATING COLOR SENSITIVE RETINAL GANGLION CELLS
Daniel von Poschinger-Camphausen, Cornelius Weber, Stefan Wermter, Hamburg
- T15-2A** CENTROSOMAL PROTEIN PERICENTRIN INTERACTS WITH NESPRIN PROTEIN SYNE-2 IN THE RETINA
Nathalie Falk, Kristin Kessler, Johannes Glöckner, Karsten Boldt, Marius Ueffing, Ronald Roepmen, Christian Thiel, Johann Helmut Brandstätter, Andreas Gießl, Erlangen
- T15-3A** CLASSIFYING RETINAL GANGLION CELLS IN THE SALAMANDER RETINA
Fernando Rozenblit, Tim Gollisch, Göttingen
- T15-4A** DEPOLARIZATION- AND LIGHT-EVOKED CALCIUM ACTION POTENTIALS IN HORIZONTAL CELLS OF THE MOUSE RETINA
Andreas Feigenspan, Erlangen
- T15-5A** DIVERSE FEATURES OF SPATIAL CONTRAST ADAPTATION IN THE MOUSE RETINA
Mohammad Hossein Khani, Tim Gollisch, Göttingen
- T15-6A** EFFECTS OF LOCOMOTION THROUGHOUT THE MOUSE EARLY VISUAL SYSTEM
Sinem Eriskan, Agne Vaiceliunaite, Ovidiu Jurjut, Matilde Fiorini, Steffen Katzner, Laura Busse, Tübingen

Thursday

- T15-1B** ENCODING OF NATURAL IMAGES BY RETINAL GANGLION CELLS
Jian Liu, Tim Gollisch, Göttingen



- T15-2B** FOLLOWING THE VISUAL SIGNAL ACROSS THE ENTIRE MOUSE RETINA: FROM CONE CALCIUM TO GANGLION CELL SPIKES
Tom Baden, Katrin Franke, Sinziana Pop, Miroslav Roman Roson, Robin Kemmler, Philipp Berens, Matthias Bethge, Timm Schubert, Thomas Euler, Tübingen
- T15-3B** FUNCTIONAL CHARACTERIZATION OF THE SIGNAL PROCESSING CHAIN IN THE MOUSE EARLY VISUAL SYSTEM
Miroslav Roman Roson, Thomas Euler, Philipp Berens, Laura Busse, Tübingen
- T15-4B** INFLUENCE OF CORTICO-THALAMIC FEEDBACK ON TEMPORAL AND SPATIAL RESPONSE PROPERTIES IN THE MOUSE DORSOLATERAL GENICULATE NUCLEUS
Agne Vaiceliunaite, Sinem Erisken, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tübingen
- T15-5B** MECHANISMS UNDERLYING THE MODULATION OF HORIZONTAL CELL GAP JUNCTIONS BY ALL-TRANS RETINOIC ACID
Jasmin Segelken, Sebastian Hermann, Reto Weiler, Ulrike Janssen-Bienhold, Oldenburg
- T15-6B** WHAT THE MOUSE EYE TELLS THE MOUSE BRAIN: FINGERPRINTING THE RETINAL GANGLION CELL TYPES OF THE MOUSE RETINA
Katrin Franke, Thomas Baden, Philipp Berens, Miroslav Rezac, Matthias Bethge, Thomas Euler, Tübingen

Friday

- T15-1C** MOTION ENCODING IN THE SALAMANDER RETINA
Norma Krystyna Kühn, Tim Gollisch, Göttingen
- T15-2C** OPTICAL IMAGING OF NEURONS RESPONSIBLE FOR TRANSFORMATION OF SENSORY INFORMATION INTO MOTOR COMMANDS
Gytis Baranauskas, Gytis Svirskis, Natasa Svirskiene, Tatiana Tkatch, Kaunas, Lithuania
- T15-3C** ORDER IN THE CHAOS - UNSCRAMBLING THE INTERLACED FINE STRUCTURES OF ANCHOVY CONE PEDICLES
Maximilian Scheungrab, Katja Schulze, Gerhard Wanner, Martin Heß, Planegg-Martinsried
- T15-4C** POWER SPECTRA CHANGES INDUCED BY REPETITIVE TRANSORBITAL ALTERNATING CURRENT STIMULATION: A LONGITUDINAL APPROACH TO STUDY AFTER EFFECTS
Ting Li, Carolin Gall, Doreen Brösel, Ying Gao, Michal Bola, Bernhard A. Sabel, Magdeburg
- T15-5C** PROCESSING OF MOTION STIMULI BY CELLS IN THE OPTIC TECTUM
Josine Verhaal, Harald Luksch, Freising-Weihenstephan
- T15-6C** RECEPTIVE FIELD MAPPING IN BLIND RETINAE USING LOCALIZED ELECTRICAL STIMULATION
Henrike Stutzki, Florian Helmhold, Günther Zeck, Reutlingen

Saturday

- T15-1D** RESPONSE CHARACTERISTICS OF ON STELLATE-VARICOSE AMACRINE CELLS AND THEIR INTERACTIONS WITH ON MIDGET GANGLION CELLS IN PRIMATE RETINA
Christian Puller, Michael B. Manookin, Maureen Neitz, Fred Rieke, Jay Neitz, Seattle, USA
- T15-2D** SIMILARITY ACROSS SACCADDES IS ENCODED IN THE RETINA
Vidhyasankar Krishnamoorthy, Michael Weick, Tim Gollisch, Göttingen
- T15-3D** SPATIAL INTEGRATION PROPERTIES OF MICE RETINAL GANGLION CELLS: A CLOSED-LOOP APPROACH
Luis Giordano Ramos Traslosheros López, Michael Weick, Tim Gollisch, Göttingen
- T15-4D** SPIKE GENERATOR DESENSITIZATION IN RETINAL GANGLION CELLS UNDERLIES TRANSIENT LIGHT RESPONSE AND SENSITIVITY TO HIGH CONTRASTS
Thomas Euler, Timm Schubert, Olivia Auferkorte, Elisabeth Butz, Laura Hüser, Silke Haverkamp, Le Chang, Tübingen
- T15-5D** THE NIMA-RELATED SERINE/THREONINE KINASE -NEK1- AT CILIA OF SENSORY CELLS
Andreas Giebel, Kristin Kessler, Johann Helmut Brandstätter, Christian Thiel, Erlangen
- T15-6D** TYPE 2 WIDE-FIELD AMACRINE CELLS IN TYROSINE HYDROXYLASE (TH)::GFP MICE SHOW A HOMOGENEOUS SYNAPSE DISTRIBUTION AND CONTACT SMALL GANGLION CELLS
Bianca Brüggem, Arndt Meyer, Franziska Boven, Reto Weiler, Karin Dedek, Oldenburg

T16: Vision: striate and extrastriate cortex, eye movement and visuomotor processing

Wednesday

- T16-1A** BIMODAL ROLE OF MATRIX METALLOPROTEINASES IN ADULT VISUAL CORTEX PLASTICITY IN A HEALTHY AND LESIONED BRAIN
Justyna Pielecka-Fortuna, Evgenia Kalogeraki, Siegrid Löwel, Göttingen
- T16-2A** CHANGING SACCADDE PLANS: TIMING OF RESPONSE COMPETITION IN SPATIAL DECISION-MAKING
Danial Arabali, Caio Moreira, Kristin Kaduk, Melanie Wilke, Igor Kagan, Göttingen



- T16-3A** CLUSTERS OF INTRALAMINAR SYNAPTIC INPUTS ON THE DENDRITES OF CORTICAL LAYER 5 PYRAMIDAL CELLS SUGGEST RECRUITMENT OF NON-LINEAR DENDRITIC INTEGRATION
Volker Scheuss, Onur Gökçe, Tobias Bonhoeffer, Martinsried
- T16-4A** EXPERIMENTAL MODEL FOR TESTING OF CORTICAL VISUAL PROSTHESIS PROTOTYPE.
Elizaveta M. Rutskova, Andrei N. Serkov, Marianna E. Ivanova, Boris Kh. Baziyan, Moscow, Russia
- T16-5A** FACE PATCH RESTING STATE NETWORKS LINK FACE PROCESSING TO SOCIAL COGNITION
Caspar Martin Schwiedrzik, Wilbert Zarco, Stefan Everling, Winrich Freiwald, New York, USA
- T16-6A** HEMISPHERIC ASYMMETRY IN LEFT- AND RIGHT-HANDERS DURING EMOTIONAL STOOP-TEST
Mariia P. Bondarenko (Rassomagina), Victoria Kravchenko, Mykola Makarchuk, Kyiv, Ukraine

Thursday

- T16-1B** IMPAIRED BINOCULAR MICROSACCADES IN HEMIANOPIA
Ying Gao, Carolin Gall, Bernhard A. Sabel, Magdeburg
- T16-2B** INTERHEMISPHERIC BRAIN PROCESSING AND ACTION SELECTION IN HUMAN AND NON-HUMAN PRIMATES
Caio Margarido Moreira, Igor Kagan, Göttingen
- T16-3B** KNOCK-DOWN OF THE SIGNALING SCAFFOLD POST-SYNAPTIC DENSITY PROTEIN-95 (PSD-95) IN THE ADULT PRIMARY VISUAL CORTEX RESTORED A JUVENILE OCULAR DOMINANCE PLASTICITY
Sophia Katharina Stodieck, Xiaojie Huang, Oliver M. Schlüter, Siegrid Löwel, Göttingen
- T16-4B** LEARNING TO DISCRIMINATE STIMULUS ORIENTATION SHAPES RESPONSE PROPERTIES IN MOUSE PRIMARY VISUAL CORTEX
Ovidiu Jurjut, Sinem Eriskan, Agne Vaiceliunaite, Laura Busse, Steffen Katzner, Tübingen
- T16-5B** NEURONS IN VISUAL CORTEX RETAIN A MEMORY OF THEIR INPUTS AFTER MONOCULAR DEPRIVATION
Tobias Rose, Juliane Jäpel-Schael, Mark Hübener, Tobias Bonhoeffer, Martinsried

Friday

- T16-1C** OCULAR DOMINANCE PLASTICITY AFTER STROKE WAS PRESERVED IN PSD-95 KNOCKOUT MICE
Franziska Greifzu, Daniel Parthier, Oliver M. Schlüter, Siegrid Löwel, Göttingen
- T16-2C** ORIENTATION SELECTIVITY IN A NETWORK OF CORTICAL NEURONS IN-VITRO
Manuel Schottdorf, Hecke Schrobsdorff, Walter Stühmer, Fred Wolf, Göttingen



- T16-3C** PROCESSING OF CONTRAST-MODULATED SECOND-ORDER STIMULI IN MOUSE VISUAL CORTEX
Zeinab Khastkhodaei, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tübingen
- T16-4C** REWARD EXPECTANCIES MODULATE SENSORY PROCESSING IN MOUSE PRIMARY VISUAL CORTEX
Alexandra Wal, Ovidiu Jurjut, Laura Busse, Steffen Katzner, Tübingen
- T16-5C** SACCADE RELATED LAYER SPECIFIC LOCAL FIELD POTENTIAL ACTIVITY IN MACAQUE V1 DURING FREE VIEWING
Richard Meyes, Junji Ito, Yukako Yamane, Ichiro Fujita, Hiroshi Tamura, Sonja Grün, Jülich

Saturday

- T16-1D** SPATIAL INTEGRATION IN MOUSE V1 IS SHAPED BY NMDA RECEPTORS IN PARVALBUMIN-POSITIVE INTERNEURONS
Matilde Fiorini, Agne Vaiceliunaite, Sinem Erisken, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tübingen
- T16-2D** THE EFFECTS OF PULVINAR MICROSTIMULATION ON CORTICAL BOLD ACTIVITY IN THE BEHAVING MONKEY
Lydia Gibson, Melanie Wilke, Igor Kagan, Göttingen
- T16-3D** THE PRESERVED OCULAR DOMINANCE PLASTICITY IN THE VISUAL CORTEX OF ENRICHED MICE IS HERITABLE
Evgenia Kalogeraki, Siegrid Löwel, Göttingen
- T16-4D** THE RETINOTOPIC REPRESENTATION OF THE VISUAL WULST IN A LATERALLY EYED BIRD, THE ZEBRA FINCH (*TAENIOPYGIA GUTTATA*)
Neethu Michael, Hans Joachim Bischof, Göttingen
- T16-5D** THE YIN AND YANG OF CORTICAL PLASTICITY: THE ROLE OF POSTSYNAPTIC DENSITY PROTEINS 93 AND 95 FOR MOUSE VISION AND VISUAL CORTICAL PLASTICITY
Leon Hosang, Sophia Stodieck, Bianka Götze, Plinio D. Favaro, Oliver M. Schlüter, Siegrid Löwel, Göttingen

T17: Auditory mechanoreceptors, vestibular, cochlea, lateral line and active sensing

Wednesday

- T17-1A** ANALYSIS OF STABILITY AND DEGRADATION OF OTOFERLIN AT NORMAL AND ELEVATED TEMPERATURE
Alexandra Müller, Christof Lenz, Sandra Meese, Hanan Al-Moyed, Henning Urlaub, Ellen Reisinger, Göttingen
- T17-2A** AUDITORY TUNING IN AN INSECT EAR
Jennifer Hummel, Stefan Schöneich, Berthold Hedwig, Manfred Kössl, Manuela Nowotny, Frankfurt



- T17-3A** BK CHANNELS ARE NOT THE TARGET OF THE NO-CGMP SIGNALING CASCADE IN MOUSE INNER HAIR CELLS
Isabelle Lang, Homburg
- T17-4A** CHRONIC RADIOFREQUENCY EXPOSURE ALTERS GLYCINE RECEPTOR IMMUNOREACTIVITY IN THE MICE AUDITORY BRAINSTEM COMPLEX AT SAR 1.6W/KG
Dhiraj Maskey, Myeung Ju Kim, Kathmandu, Nepal
- T17-5A** ELECTRON MICROSCOPIC STUDY OF ASSEMBLY, MATURATION AND HETEROGENEITY OF INNER HAIR CELL RIBBON SYNAPSES
Susann Michanski, Rituparna Chakrabarti, Christian Fischer, Carolin Wichmann, Göttingen

Thursday

- T17-1B** GENDER DIFFERENCES IN THE HEARING ORGAN OF THE BUSHCRICKET *ANCYLECHA FENESTRATA*
Jan Scherberich, Jennifer Hummel, Manuela Nowotny, Frankfurt/Main
- T17-2B** HOW PRIVATE IS PRIVATE - DETECTION OF FOREIGN SPECIES SIGNALS IN WEAKLY ELECTRIC FISH *APTERONOTUS LEPTORHYNCHUS*
Jan Grewe, Carlin Sachgau, Eileen Winkel, Jie Zhang, Jan Benda, Fabian Sinz, Tübingen
- T17-3B** INVESTIGATION OF LONG-TERM DEPRESSION IN THE MEDIAL NUCLEUS OF TRAPEZOID BODY-LATERAL SUPERIOR OLIVE SYNAPSES OF DEVELOPING CIRCULING MICE
Jonu Pradhan, Seung Cheol Ahn, Kathmandu, Nepal
- T17-4B** MEASURING SINGLE CELL RESPONSES IN THE *DROSOPHILA* HEARING ORGAN WITH TWO-PHOTON MICROSCOPY
Philipp Jähde, Martin C. Göpfert, Göttingen
- T17-5B** NATURAL SCENES OF ELECTROCOMMUNICATION AND THEIR IMPLICATIONS FOR SENSORY PROCESSING
Jörg Henninger, Rüdiger Krahe, Jan Benda, Tübingen

Friday

- T17-1C** NEURAL BASIS OF AIRBORNE VIBRATORY SIGNAL PROCESSING OF THE HONEYBEE *APIS MELLIFERA*
Kazuki Kai, Ajayrama Kumaraswamy, Philipp Rautenberg, Hidetoshi Ikeno, Thomas Wachtler, Hiroyuki Ai, Fukuoka, Japan
- T17-2C** OPTICAL STIMULATION OF SPIRAL GANGLION NEURONS IN VITRO FOR LASER PULSE DURATIONS IN THE μ S TO MS RANGE
Alexander Rettenmaier, Thomas Lenarz, Günter Reuter, Hannover
- T17-3C** PHONOTACTIC BEHAVIOUR OF THE CICADA *OKANAGANA RIMOSA* (CICADIDAE, HOMOPTERA)
Liesa-Kristin Beuter, Nanina Tron, Reinhard Lakes-Harlan, Giessen

- T17-4C** PHONOTACTIC FLIGHT BEHAVIOUR AND VERTICAL SOUND SOURCE LOCALIZATION OF THE PARASITOID FLY *EMBLEMASOMA AUDITRIX* (DIPTERA: SARCO-PHAGIDAE)
Nanina Tron, Reinhard Lakes-Harlan, Giessen
- T17-5C** PREFERENCES FOR ACOUSTIC SIGNALS AND DECISION MAKING BY FEMALE CRICKETS *GRYLLUS BIMACULATUS* IN CHOICE SITUATIONS
Eileen Gabel, Janine Kuntze, R. Matthias Hennig, Berlin

Saturday

- T17-1D** TEMPORAL STRUCTURE OF ELECTROCOMMUNICATION SIGNALS IN THE WAVE-TYPE ELECTRIC FISH *APTERONOTUS LEPTORHYNCHUS*
Juan Felipe Sehuanes, Fabian Sinz, Jan Benda, Tübingen
- T17-2D** THE ROLE OF Ca^{2+} BINDING PROTEIN 2 (CABP2) IN SYNAPTIC SOUND ENCODING AND HEARING
Maria Magdalena Picher, Anna Gehrt, Sangyong Jung, Jakob Neef, Alexandra Ivanovic, Guy Van Camp, Tobias Moser, Göttingen
- T17-3D** THE ROLE OF G PROTEIN $G\alpha_i$ ISOFORMS IN HEARING IN ADULT MICE
Sze Chim Lee, Ana Novakovic, Sandra Beer-Hammer, Mireille Montcouquiol, Bernd Nürnberg, Lukas Rüttiger, Marlies Knipper, Tübingen
- T17-4D** ANALYSIS OF THE OTOFERLIN I515T MUTATION CAUSING TEMPERATURE DEPENDENT HEARING LOSS
Ellen Reisinger, Hanan Al-Moyed, Tina Pangrsic Vilfan, Alexandra Müller, Gerhard Hoch, Nils Brose, Tobias Moser, Carolin Wichmann, Nicola Strenzke, Göttingen
- T17-5D** THE ROLE OF LRBA (LIPOPOLYSACCHARIDE-RESPONSIVE, BEIGE-LIKE ANCHOR PROTEIN) IN AUDITORY FUNCTION
Nicola Strenzke, Christian Vogl, Tanvi Butola, Tzu-Lun Wang, Michael Leitner, Natja Haag, Britta Qualmann, Michael Kessels, Tobias Moser, Dominik Oliver, Manfred Kilimann, Göttingen

T18: Auditory system: subcortical and cortical processing

Wednesday

- T18-1A** ACTION POTENTIAL CONDUCTION VELOCITY IN LOW- AND HIGH FREQUENCY GLOBULAR BUSHY CELL AXONS MEASURED IN VIVO
Annette Stange-Marten, Benedikt Grothe, Michael Pecka, Planegg-Martinsried



- T18-2A** ANAESTHESIA INDUCED CHANGES IN NEURONAL RESPONSE PROPERTIES IN MOUSE PRIMARY AUDITORY CORTEX
Simone Kurt, Bettina Joachimsthaler, Marina A. Egorova, Günter Ehret, Simone Kurt, Hannover
- T18-3A** ANALYSIS OF ACUTE STRESS ON LONG-TERM VULNERABILITY AFTER AN ACOUSTIC INJURY IN A MATURE RAT MODEL
Philipp Carlos Armbruster, Wibke Singer, Lukas Rüttiger, Marlies Knipper, Tübingen
- T18-4A** AUDITORY PROFILE OF CA^v2.3 MICE USING AUDITORY BRAINSTEM RESPONSE (ABR) ANALYSIS
Anna Papazoglou, Andreas Lundt, Varun Raj Ginde, Thilo Kahl, Karl Broich, Marco Weiergraeber, Bonn
- T18-5A** CATEGORIZATION OF AUDITORY STIMULI IN THE BEHAVING MOUSE
Chi Chen, Livia de Hoz García-Bellido, Göttingen
- T18-6A** CHANGE OF CORTICAL ACTIVITY PATTERNS BY SELECTIVE APOPTOSIS OF AUDITORY CORTICOTHALAMIC FEEDBACK PROJECTIONS
Katja Saldeitis, Marcus Jeschke, Eike Budinger, Frank W. Ohl, Max F. K. Happel, Magdeburg
- T18-7A** CHARACTERIZATION OF AN EXOTIC INHIBITORY SYNAPSE IN THE AUDITORY BRAINSTEM
Dennis J. Weingarten, Alexander Fischer, Nadine Patschull-Keiner, Eckhard Friauf, Kaiserslautern
- T18-8A** CHARACTERIZATION OF OPTOGENETIC COCHLEA STIMULATION
Marcus Jeschke, Victor H Hernandez, Anna Gehrt, Zhizi Jing, Gerhard Hoch, Christian Göbner, Ulrich T Schwarz, Patrick Ruther, Michael Schwaerzle, Livia de Hoz, Nicola Strenzke, Tobias Moser, Göttingen
- T18-9A** CHOLINERGIC SIGNALING ONTO SPHERICAL BUSHY CELLS IN THE COCHLEAR NUCLEUS OF THE GERBIL
Thomas Künzel, Richard Sinzig, Stefanie Kurth, David Goyer, Aachen
- T18-10A** CONTEXT DEPENDENT MODULATION OF NEURONAL RESPONSE IN NUCLEUS NCM OF FREELY-MOVING ZEBRA FINCHES
Mauricio Nicolas Adreani, Pietro Bruno D'Amelio, Andries ter Maat, Manfred Gahr, Seewiesen
- T18-11A** CROSS-MODAL PLASTICITY OF DORSAL AUDITORY CORTEX IN CONGENITAL DEAFNESS
Andrej Kral, Christiane Sprenger, Peter Baumhoff, Jochen Tillein, Peter Hubka, Stephen G. Lomber, Ruediger Land, Hannover
- T18-12A** DEEP BRAIN STIMULATION AT THE INFERIOR COLLICULUS: A NEW ANIMAL MODEL TO STUDY PARADOXICAL KINESIA?
Liana Melo Thomas, Uwe Thomas, Marburg

Thursday

- T18-1B** DIFFERENCES IN NEURAL PLASTICITY ALONG THE AUDITORY PATHWAY BETWEEN ANIMALS WITH AND WITHOUT SUBJECTIVE TINNITUS
Konstantin Tziridis, Sönke Ahlf, Holger Schulze, Erlangen
- T18-2B** DIFFERENTIAL ROLE OF SOLUBLE GUANYLYL CYCLASE (NO-GC) ISOFORMS IN AUDITORY FUNCTION IN ADULT MICE
Dorit Möhrle, Nicole Eichert, Steffen Wolter, Evanthia Mergia, Doris Koesling, Marlies Knipper, Lukas Rüttiger, Tübingen
- T18-3B** DISCRETE REPRESENTATIONS IN MOUSE AUDITORY CORTEX AND THEIR STABILITY IN THE PRESENCE OF SYNAPTIC TURNOVER
Jens-Bastian Eppler, Dominik Aschauer, Matthias Kaschube, Simon Rumpel, Frankfurt
- T18-4B** DOES GINKGO BILOBA EXTRACT EGB 761® HAVE A THERAPEUTIC EFFECT ON NOISE INDUCED HEARING LOSS AND SUBJECTIVE TINNITUS?
Patrick Krauss, Stefanie Buerbank, Konstantin Tziridis, Holger Schulze, Erlangen
- T18-5B** DOPAMINE-MODULATED RECURRENT CORTICOEFFERENT FEEDBACK IN PRIMARY AUDITORY CORTEX: PERCEPTUAL SALIENCE AND MEMORY FUNCTION
Max Happel, Frank W. Ohl, Magdeburg
- T18-6B** DYNAMICS AND PRECISION OF TEMPORAL RESPONSES IN THE MOUSE INFERIOR COLLICULUS
Günter Ehret, Marina A. Egorova, G.D. Khorunzhii, Ulm
- T18-7B** EXCITATION - INHIBITION INTEGRATION IN A BINAURAL AUDITORY CIRCUIT
Enida Gjoni, Brice Bouhours, Friedemann Zenke, Tim Vogels, Wulfram Gerstner, Ralf Schneggenburger, Lausanne, Switzerland
- T18-8B** EXPRESSION PROFILE OF VOLTAGE GATED K⁺ CHANNELS IN THE MEDIAL SUPERIOR OLIVE
Sarah Anna Gleiss, Alisha Nabel, Felix Felmy, Planegg
- T18-9B** FM-FM NEURONS IN THE MUSTACHED BAT ENCODE TARGET RANGE DEPENDING OF THE LEVEL OF THE CALL: NEURAL SPECIALIZATIONS FOR ECHO-LEVEL COMPENSATION
Silvio Macias Herrera, Emanuel C. Mora, Julio C. Hechavarría, Manfred Kössl, Frankfurt/Main
- T18-10B** GAPS OF SILENCE: HOW DO THEY AFFECT THE PERFORMANCE OF THE GLYCINERGIC MNTB-LSO SYNAPSES DURING PROLONGED STIMULATION?
Martin Fuhr, Eckhard Friauf, Kaiserslautern
- T18-11B** HEARING LOSS IN ADULTHOOD MODIFIES INTER-NEURONAL INTERACTION IN THE AUDITORY BRAINSTEM: A FOS STUDY OF THE RAT
Nicole Rosskoth-Kuhl, Enya Paschen, Robert-Benjamin Illing, Freiburg



- T18-12B** INFLUENCE OF ADAPTATION ON THE REPRESENTATION OF ITD IN THE BARN OWL'S ICX
Roland Ferger, Kerstin Pawlowsky, Martin Singheiser, Hermann Wagner, Aachen
- T18-13B** SPATIAL UPDATE OF THE AUDITORY WORLD THROUGH VESTIBULAR AND PROPRIOCEPTIVE CUES
Daria Eva Irene Genzel, Uwe Firzlaff, Lutz Wiegrebe, Paul MacNeilage, Martinsried-Planegg

Friday

- T18-1C** INFLUENCE OF EAR MOVEMENTS ON SPATIAL RECEPTIVE FIELDS IN THE BAT SUPERIOR COLLICULUS
Wolfgang Greiter, Alexander Warmbold, Paul MacNeilage, Lutz Wiegrebe, Uwe Firzlaff, Freising-Weihenstephan
- T18-2C** INTEGRATION OF BIOSONAR AND VISUAL INFORMATION IN THE SUPERIOR COLLICULUS OF BATS
Susanne Hoffmann, Mariana Matthes, Uwe Firzlaff, Harald Luksch, Freising-Weihenstephan
- T18-3C** INVESTIGATION OF AUDITORY RECEPTIVE FIELDS IN NEURONS OF THE OPTIC TECTUM – DO GENERALISTS HAVE MULTIMODAL INTEGRATION?
Hans Andrea Schnyder, Freising
- T18-4C** LAYER-SPECIFIC INTRACORTICAL MICROSTIMULATION OF PRIMARY AUDITORY CORTEX IN VIVO
Mathias Benjamin Voigt, Peter Baumhoff, Mika Sato, Andrej Kral, Hannover
- T18-5C** MEANINGFUL BUT PASSIVE SOUND EXPOSURE INDUCES LONG LASTING AND SPATIALLY-RESTRICTED PLASTICITY IN ADULT INFERIOR COLLICULUS
Hugo Cruces Solis, Zhizi Jing, Nicola Strenzke, Livia de Hoz, Göttingen
- T18-6C** MODEL PREDICTIONS OF HOW COCHLEAR GAIN LOSS AND NEUROPATHY AFFECT HUMAN AUDITORY BRAINSTEM RESPONSES
Sarah Verhulst, Oldenburg
- T18-7C** NEURAL PROCESSING OF UNLEARNED CALLS IN SECONDARY AUDITORY AREAS IN A SONGBIRD
Pietro Bruno D'Amelio, Mauricio Nicolas Adreani, Milena Klumb, Andries ter Maat, Seewiesen
- T18-8C** OFF-RESPONSE FACILITATION IN MOUSE AUDITORY MIDBRAIN NEURONS TO MODELS OF COMMUNICATION CALLS
Alexander Grigorievich Akimov, Marina Alexandrovna Egorova, Günter Ehret, St. Petersburg, Russia
- T18-9C** OPTIMIZING TEMPORARY INACTIVATION METHODS TO SELECTIVELY DEFINE THE IMPORTANCE OF DIFFERENT RAT AUDITORY CORTICAL AREAS
Ann-Kathrin Riegel, Bernhard H. Gaese, Frankfurt/Main
- T18-10C** PERFORMANCE OF GLUTAMATERGIC SYNAPSES FROM THE COCHLEAR NUCLEUS TO THE LATERAL SUPERIOR OLIVE DURING PROLONGED STIMULATION
Katrin Janz, Eckhard Friauf, Kaiserslautern

- T18-11C** PHASIC AND TONIC CHANGES OF NEURONAL ACTIVITY IN PRIMATE AUDITORY CORTEX INDUCED BY THE DOPAMINERGIC VENTRAL MIDBRAIN
Judith Mylius, Max F. K. Happel, Ying Huang, Henning Scheich, Michael Brosch, Magdeburg
- T18-12C** PRE- AND POSTSYNAPTIC REFINEMENTS IN THE MEDIAL SUPERIOR OLIVE (MSO) DURING LATE POSTNATAL DEVELOPMENT
Delwen L. Franzen, Sarah A. Gleiss, Susanne Blank, Christian J. Kellner, Felix Felmy, Munich

Saturday

- T18-1D** ROLE OF MICRORNA-183-96 FOR DEVELOPMENT AND FUNCTION OF THE AUDITORY BRAINSTEM
Tina Schlüter, Elena Rosengauer, Hans Gerd Nothwang, Oldenburg
- T18-2D** ROLE OF PARTICULATE GUANYLYL CYCLASE B/NATRIURETIC PEPTIDE RECEPTOR 2 (GC-B/NPR2) IN AUDITORY FUNCTION IN ADULT MICE
Steffen Wolter, Dorit Möhrle, Mahdieh Alinaghikhani, Dennis Zelle, Hannes Schmidt, Marlies Knipper, Lukas Rüttiger, Tübingen
- T18-3D** SENSORIMOTOR FEEDBACK MAINTAINS AUDITORY OBJECTS FORMATION IN ZEBRA FINCHES (*TAENIOPYGIA GUTTATA*)
Shouwen Ma, Andries Ter Maat, Manfred Gahr, Seewiesen
- T18-4D** SHORT-TERM AUDITORY ADAPTATION TO CONTINUOUS AND INTERRUPTED MOTION IN HUMAN
Alisa Petrovna Gvozdeva, Saint-Petersburg, Russia
- T18-5D** SHORT-TERM PLASTICITY IN THE AUDITORY BRAINSTEM AND THE HIPPOCAMPUS: A COMPARATIVE STUDY OF THREE SYNAPTIC SYSTEMS
Elisa Krächan, Florian Kramer, Eckhard Friauf, Kaiserslautern
- T18-7D** STARTLE-BASED TINNITUS ASSESSMENT IN RODENTS: IMPROVING EFFECTIVENESS AND RELIABILITY
Natalie Steube, Manuela Nowotny, Bernhard H. Gaese, Frankfurt/Main
- T18-8D** STRUCTURAL AND FUNCTIONAL CHANGES IN THE MOUSE CENTRAL AUDITORY PATHWAY AFTER NOISE EXPOSURE
Moritz Gröschel, Susanne Müller, Romy Götze, Jana Ryll, Arne Ernst, Dietmar Basta, Berlin
- T18-9D** TEMPORAL PRECISION OF SOUND-ONSET CODING IN THE MOUSE AUDITORY BRAINSTEM
Diana Beatrix Geissler, Elke Weiler, Günter Ehret, Ulm
- T18-10D** TEMPORAL RESPONSE PROPERTIES IN THE RECEPTIVE FIELDS OF MOUSE PRIMARY AUDITORY CORTEX NEURONS
Marina Alexandrovna Egorova, Gleb Dmitrievich Khorunzhii, Günter Ehret, Simone Kurt, St. Petersburg, Russia



- T18-11D** THE CONTINUOUS MOTION PERCEPTION THRESHOLDS FOR APPROACHING SOUND IMAGES WITH DIFFERENT RHYTHMIC STRUCTURES
Irina Germanovna Andreeva, Saint-Petersburg, Russia
- T18-12D** THE ROLE OF L-TYPE Ca^{2+} -CHANNELS FOR DEVELOPMENT AND FUNCTION OF THE AUDITORY BRAINSTEM
Lena Ebbers, Somisetty V. Satheesh, Lukas Rüttiger, Katrin Janz, Marlies Knipper, Eckhard Friauf, Hans Gerd Nothwang, Oldenburg
- T18-13D** TINNITUS DEVELOPMENT AFTER REPEATED ACOUSTIC OVERSTIMULATION
Lenneke Kiefer, Bernhard Gaese, Manuela Nowotny, Frankfurt/Main

T19: Chemical senses: olfaction, taste, others

Wednesday

- T19-1A** SLOW SPONTANEOUS OSCILLATIONS IN MITRAL CELLS OF THE MOUSE ACCESSORY OLFACTORY BULB
Monika Gorin, Marc Spehr, Aachen
- T19-2A** "LOW ENERGY BALANCE" HORMONES MODULATE THE OLFACTORY RESPONSIVENESS
Diana Loch, Heinz Breer, Jörg Strotmann, Stuttgart
- T19-3A** 3D-RECONSTRUCTION AS A TOOL TO STUDY POST-METAMORPHIC CHANGES IN NEUROPEPTIDE PATTERN IN THE ANTENNAL LOBE OF *TRIBOLIUM CASTANEUM*
Milosz Krala, Kristof Hormann, Ulrich Tallarek, Joachim Schachtner, Marburg
- T19-4A** A CD36 EXPRESSING SUBSET OF MURINE OLFACTORY NEURONS IS INVOLVED IN FATTY ACID DETECTION
Eva M. Neuhaus, Sonja Oberland, Tobias Ackels, Stefanie Gaab, Thomas Pelz, Marc Spehr, Jena
- T19-5A** A_1 RECEPTOR-MEDIATED MODULATION OF RECURRENT INHIBITION IN MOUSE OLFACTORY BULB MITRAL CELLS
Kristina Schulz, Natalie Rotermund, Christian Lohr, Daniela Hirnet, Hamburg
- T19-6A** ACTIVATION OF THE OR37 SUBSYSTEM COINCIDES WITH A REDUCTION OF NOVEL ENVIRONMENT INDUCED ACTIVITY WITHIN THE PARAVENTRICULAR NUCLEUS OF THE HYPOTHALAMUS
Anna-Maria Maier, Bettina Klein, Verena Bautze, Jörg Strotmann, Stuttgart
- T19-7A** ADENOSINE RECEPTOR A_1 MODULATES THE POTASSIUM CONDUCTANCE OF OLFACTORY BULB MITRAL CELLS
Svenja Winandy, Nadine Breitreutz, Natalie Rotermund, Christian Lohr, Daniela Hirnet, Hamburg

- T19-8A** ADENOSINE-MEDIATED MODULATION OF OLFACTORY BULB NETWORK ACTIVITY AND ODOUR INFORMATION PROCESSING
Daniela Hirnet, Natalie Rotermund, Torsten Fregin, Melanie Buchta, Christian Lohr, Hamburg
- T19-9A** ANATOMICAL AND FUNCTIONAL ORGANIZATION OF THE *DROSOPHILA* ANTENNAL LOBE: GLOMERULAR CONVERGENCE AND DIVERGENCE
Veit Grabe, Amelie E. E. Baschwitz, Bill S. Hansson, Silke Sachse, Jena
- T19-10A** BRAIN COMPOSITION IN *GODYRIS ZAVALETA*, A DIURNAL BUTTERFLY, REFLECTS AN INCREASED RELIANCE ON OLFACTORY INFORMATION
Swidbert Roger Ott, Stephen H Montgomery, Leicester, United Kingdom
- T19-11A** Ca^{2+} DEPENDENT K^{+} CURRENTS IN UNIGLOMERULAR OLFACTORY PROJECTION NEURONS OF THE ANTENNAL LOBE
Viktor Bardos, Cathleen Bradler, Ben Warren, Sabine Schleicher, Andreas Klein, Peter Kloppenburg, Cologne
- T19-12A** Ca^{2+} -ACTIVATED Cl^{-} CURRENTS IN THE VOMERONASAL ORGAN ARE MEDIATED BY ANOCTAMIN 1 AND ANOCTAMIN 2
Jonas Münch, Gwendolyn Billig, Thomas J. Jentsch, Berlin
- T19-13A** CHEMO- AND THERMOSENSORY SIGNALING IN THE GRUENEBERG GANGLION
Joerg Fleischer, Katharina Schellig, Sabrina Stebe, Ying-Chi Chao, Ruey-Bing Yang, Heinz Breer, Stuttgart
- T19-14A** CHEMOSENSORY CHARACTERISATION OF ANTRAL G-CELLS AND ITS NUTRIENT-INDUCED MODULATION OF GENEXPRESSION
Amelie Therese Rettenberger, Stuttgart
- T19-15A** CO-EXPRESSION OF ANOCTAMINS IN CILIA OF OLFACTORY SENSORY NEURONS
Daniela Ricarda Drose, Bastian Henkel, Tobias Ackels, Marc Spehr, Eva Maria Neuhaus, Aachen
- T19-16A** CO-EXPRESSION OF SIX TIGHTLY CLUSTERED OLFACTORY RECEPTOR GENES IN THE ANTENNA OF THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*
Jürgen Krieger, Tim Karner, Isabelle Kellner, Anna Schultze, Stuttgart

Thursday

- T19-1B** COMPARTMENT-SPECIFIC CALCIUM HANDLING PROPERTIES IN OLFACTORY PROJECTION NEURONS
Debora Fuscà, Ben Warren, Andreas Pippow, Christophe Pouzat, Peter Kloppenburg, Cologne



- T19-2B** COMPOUND VALENCE IS CONSERVED IN BINARY ODOR MIXTURES IN *DROSOPHILA MELANOGASTER*
Michael Thoma, Bill S. Hansson, Markus Knaden, Jena
- T19-3B** DISRUPTION OF KCC2 FROM MITRAL CELLS OF THE OLFACTORY BULB LEADS TO SPECIFIC ODOR DISCRIMINATION DEFECTS DUE TO DISREGULATED GABAERGIC INHIBITION
Kathrin Gödde, Dmytro Puchkov, Carsten K. Pfeffer, Thomas J. Jentsch, Berlin
- T19-4B** EFFECT OF PIPERINE AND OTHER SENSORY ACTIVE COMPOUNDS ON HUMAN KCNK CHANNELS OF THE TASK AND TRESK SUBFAMILIES
Leopoldo Raul Beltran, Madeline Beltran, Caroline Flegel, Sascha Titt, Günter Gisselmann, Hanns Hatt, Bochum
- T19-5B** EFFECTS OF NEONICOTINOID EXPOSURE ON THE HONEY BEE ODOR CODING
Mara Andrione, Martina Puppi, Quentin Badouin, Albrecht Haase, Renzo Antolini, Giorgio Vallortigara, Mattarello, Trento, Italy
- T19-6B** EFFECTS OF SUBLETHAL DOSES OF A NEONICOTINOID INSECTICIDE ON THE OLFACTORY SYSTEM OF A MOTH
Kaouther RABHI, Kali Esancy, Elodie Demondion, Philippe Lucas, H  l  ne Tricoire-Leignel, Sylvia Anton, Christophe Gadenne, Beaucauz  , France
- T19-7B** ELECTROPHYSIOLOGICAL ANALYSIS OF CONCENTRATION CODING AND LEARNING IN THE HONEYBEE DUAL OLFACTORY SYSTEM
Maren Reuter, Martin Strube-Bloss, Martin Brill, Wolfgang R  ssler, W  rzburg
- T19-8B** ENTRAINED SLOW OSCILLATORY ACTIVITY IN MITRAL CELLS OF THE MOUSE ACCESSORY OLFACTORY BULB
Chryssanthi Tsitoura, Katja Watznauer, Monika Gorin, Marc Spehr, Aachen
- T19-9B** EVIDENCE FOR DAYTIME- AND PHEROMONE DOSE-DEPENDENT METABOTROPIC SIGNAL TRANSDUCTION CASCADES IN THE HAWKMOTH *MANDUCA SEXTA*
Petra Gawalek, Robin Schumann, Thomas Schendzielorz, Andreas Nolte, Monika Stengl, Kassel
- T19-10B** *EX VIVO* FUNCTIONAL IMAGING OF OLFACTORY SENSORY NEURONS IN *DROSOPHILA MELANOGASTER*
Fabio Miazzi, Sabine Kaltfen, Bill S. Hansson, Dieter Wicher, Jena
- T19-11B** EXPRESSION OF GUSTATORY RECEPTORS IN CHEMOSENSORY ORGANS AND THE ALIMENTARY TRACT OF *HELIOTHIS VIRESCENS*
Jennifer Reuck, Heinz Breer, J  rgen Krieger, Stuttgart
- T19-12B** FUNCTIONAL IMAGING OF CORTICAL FEEDBACK PROJECTIONS FROM THE ANTERIOR OLFACTORY NUCLEUS TO THE MOUSE OLFACTORY BULB
Markus Rothermel, Matt Wachowiak, Aachen

- T19-13B** GLOMERULAR STRUCTURE OF THE CENTRAL NERVOUS PROJECTIONS FROM SCORPION PECTINES: STRUCTURAL DETAILS AND GENDER DIFFERENCES
Harald Wolf, Ulm
- T19-14B** HIGH CONSERVATION OF FAMILY SIZE AND GENOMIC STRUCTURE OF ORA OLFACTORY RECEPTOR GENES IN TWELVE TELEOST SPECIES
Veronika Zapilko, Sigrun Korsching, Cologne
- T19-15B** HIGH FAT FEEDING AFFECTS THE NUMBER OF GPR120 CELLS AND ENTEROENDOCRINE CELLS IN THE MOUSE STOMACH
Patricia Widmayer, Hannah Goldschmid, Helena Henkel, Markus Küper, Alfred Königsrainer, Heinz Breer, Stuttgart
- T19-16B** IDENTIFICATION OF A NATURAL SOURCE FOR THE OR37B LIGAND
Verena Bautze, Wolfgang Schwack, Heinz Breer, Joerg Strotmann, Stuttgart

Friday

- T19-1C** ILLUMINATING THE FUNCTION OF INHIBITORY MICROCIRCUITS IN THE ZEBRAFISH HOMOLOGUE OF OLFACTORY CORTEX
Thomas Frank, Rainer W Friedrich, Basel, Switzerland
- T19-2C** IMAGING MOLECULAR VIBRATION SENSING IN HONEY-BEE OLFACTORY CIRCUIT
Marco Paoli, Elisa Rlgosi, Roberto Canteri, Giorgio Vallortigara, Renzo Antolini, Albrecht Haase, Trento, Italy
- T19-3C** INVOLVEMENT OF THE GPCR, DOPCR, IN THE MODULATION OF OLFACTORY-GUIDED BEHAVIOUR IN A MOTH
Sylvia Anton, Antoine Abrieux, Line Duportets, Stéphane Debernard, Christophe Gadenne, Angers, France
- T19-4C** KENYON CELL PLASTICITY IN ADULT RED FLOUR BEETLES
Björn Trebels, Joachim Schachtner, Marburg
- T19-5C** MAGNETIC FIELD-DRIVEN INDUCTION OF ZENK IN THE TRIGEMINAL SYSTEM OF PIGEONS (*COLUMBA LIVIA*)
Nele Annika Lefeldt, Dominik Heyers, Nils-Lasse Schneider, Svenja Engels, Dana Elbers, Henrik Mouritsen, Houston, USA
- T19-6C** METAMORPHOTIC REMODELING OF THE OLFACTORY ORGAN OF THE AFRICAN CLAWED FROG *XENOPUS LAEVIS*
Katarina Dittrich, Thomas Hassenklöver, Ivan Manzini, Göttingen
- T19-7C** MOLECULAR BASIS OF OLFACTORY RECEPTOR EVOLUTION IN CLOSELY RELATED ANOPHELES MOSQUITOES
Stefanie Blankenburg, Sharon R. Hill, Rickard Ignell, Alnarp, Sweden



- T19-8C** MOLECULAR ELEMENTS IN THE DETECTION OF THE MINOR SEX PHEROMONE COMPONENT IN *HELIOTHIS VIRESCENS*
Monika Zielonka, Pablo Pregitzer, Jürgen Krieger, Stuttgart
- T19-9C** MORPHOLOGICAL ANALYSIS OF MITRAL CELL POPULATIONS IN THE MOUSE ACCESSORY OLFACTORY BULB
Katja Watznauer, Monika Gorin, Marc Spehr, Aachen
- T19-10C** MULTIMODAL CODING IN THE GUSTATORY SYSTEM OF THE *DROSOPHILA* LARVAE
Lena van Giesen, Simon G. Sprecher, Fribourg, Switzerland
- T19-11C** NEUROCELLULAR BASIS OF OLFACTORY ACUMEN IN THE AFRICAN GIANT RAT (*CRICETOMYS GAMBIANUS*)
Matthew Ayokunle Olude, James Olukayode Olopade, Amadi Ogonda Ihunwo, Abeokuta, Morocco
- T19-12C** NEUROPEPTIDES AND BLOOD FEEDING BEHAVIOR – A QUANTITATIVE ANALYSIS IN *AEDES AEGYPTI*
Peter Christ, Anna Reifenrath, Jörg Kahnt, Sharon R. Hill, Frank Hauser, Rickard Ignell, Joachim Schachtner, Marburg
- T19-13C** NEUROPEPTIDES AND MATING BEHAVIOR – A QUANTITATIVE ANALYSIS IN *AEDES AEGYPTI*
Anna Reifenrath, Peter Christ, Jörg Kahnt, Sharon R. Hill, Frank Hauser, Rickard Ignell, Joachim Schachtner, Marburg
- T19-14C** OCTOPAMINE MODULATES THE EXCITABILITY OF IDENTIFIED OLFACTORY INTERNEURONS IN THE COCKROACH ANTENNAL LOBE
Sandra Wendler, Cathleen Bradler, Peter Kloppenburg, Cologne
- T19-15C** ODOR RESPONSES OF *DROSOPHILA* RECEPTOR NEURONS – RESPONSE PROFILES, MIXTURES AND INDIVIDUAL RESPONSE DYNAMICS
Daniel Münch, Thomas Laudes, Jennifer S. Ignatious Raja, Anja Nissler, C. Giovanni Galizia, Konstanz
- T19-16C** OLFACTORY IMPRINTING AND PERK RELATED CELLULAR ACTIVITY IN THE ZEBRAFISH OLFACTORY SYSTEM
Daniela Biechl, Kristin Tietje, Iori Namekawa, Rainer Friedrich, Mario F. Wullmann, Gerlach Gabriele, Planegg-Martinsried

Saturday

- T19-1D** ORCO EXPRESSION DURING LARVAL AND PUPAL DEVELOPMENT OF THE RED FLOUR BEETLE *TRIBOLIUM CASTANEUM*
Joachim Schachtner, Carolin Knoll, Stefan Dippel, Björn Trebels, Marburg
- T19-2D** ORGANIZATION OF THE BLOOD–BRAIN BARRIER IN THE OLFACTORY NERVE LAYER
Antonia Benita Beiersdorfer, Janine Grawe, Melissa Malekpour, Kristina Buddrus, Hartwig Wolburg, Christian Lohr, Hamburg

- T19-3D** ORIGIN OF HIGH VARIABILITY IN COLONY ODOR REPRESENTATION IN THE ANTS' BRAIN
Stefanie Neupert, Bernd Meyer, Christoph J. Kleineidam, Konstanz
- T19-4D** PHYSIOLOGICAL CHARACTERIZATION OF FORMYL PEPTIDE RECEPTOR EXPRESSING CELLS IN THE MOUSE VOMERONASAL ORGAN
Tobias Ackels, Benoît von der Weid, Ivan Rodriguez, Marc Spehr, Aachen
- T19-5D** POSTMETAMORPHIC PLASTICITY IN THE INTRINSIC NEUROPEPTIDE REPERTOIRE OF THE TRIBOLIUM CASTANEUM ANTENNAL LOBES
Stefan Ries, Christoph Nolte, Marlene Binzer, Jörg Kahnt, Joachim Schachtner, Marburg
- T19-6D** POST-STIMULUS ACTIVITY IN THE OLFACTORY PATHWAY OF *DROSOPHILA*
Alja Lüdke, Georg Raiser, C. Giovanni Galizia, Paul Szyszka, Konstanz
- T19-7D** REGENERATION IN THE INSECT OLFACTORY SYSTEM
Hannah Wasser, Michael Stern, Hannover
- T19-8D** REPRESENTATION OF ODOR INFORMATION IN HIGHER BRAIN CENTERS OF THE VINEGAR FLY
Amelie Erika Elfriede Baschwitz, Jan Sölter, Antonia Strutz, Bill S. Hansson, Silke Sachse, Jena
- T19-9D** SULFATED STEROIDS ARE CHEMOSENSORY STIMULI OF BOTH THE MAIN AND ACCESSORY OLFACTORY SYSTEM OF *XENOPUS LAEVIS*
Alfredo Sansone, Thomas Hassenklöver, Ivan Manzini, Göttingen
- T19-10D** TEMPORAL PROCESSING OF ODOR STIMULI FROM OLFACTORY RECEPTOR NEURONS TO PROJECTION NEURONS
Carlotta Martelli, André Fiala, Göttingen
- T19-11D** THE NEURONAL AND MOLECULAR BASIS OF CAFFEINE TASTE SIGNALING IN *DROSOPHILA* LARVAE
Anthi A. Apostolopoulou, Saskia Köhn, Michael Lutz, Alexander Wüst, Lorena Mazija, Anna Rist, C. Giovanni Galizia, Alja Lüdke, Andreas S. Thum, Konstanz
- T19-12D** TO GO OR NOT TO GO? - BEHAVIORAL RESPONSES TO BINARY MIXTURES OF ATTRACTIVE AND AVERSIVE ODORS
Tom Retzke, Ahmed A. M. Mohamed, Markus Knaden, Silke Sachse, Bill S. Hansson, Jena
- T19-13D** TO GO OR NOT TO GO? OLFACTORY PROCESSING OF ODOR FEATURES: GOOD VS. BAD
Ahmed A.M. Mohamed, Tom Retzke, Markus Knaden, Bill S. Hansson, Silke Sachse, Jena
- T19-14D** TWO OCTOPAMINERGIC VUM NEURONS BILATERALLY INNERVATE MUSCLES AND SENSORY EPITHELIA OF THE HONEYBEE ANTENNA
Stephan Shuichi Haupt, Bielefeld



- T19-15D** UNIQUE CONNECTIVITY FROM OR37 EXPRESSING OLFACTORY SENSORY NEURONS TO HIGHER BRAIN CENTERS
Jörg Strotmann, Andrea Bader, Bettina Klein, Heinz Breer, Stuttgart
- T19-16D** VASOPRESSIN DEPRESSES EXCITATORY SYNAPTIC TRANSMISSION IN MITRAL CELLS OF THE OLFACTORY BULB
Michael Lukas, Veronica Egger, Regensburg

T20: Somatosensation: touch, temperature, proprioception, nociception

Wednesday

- 20-1A** A COMBINED SETUP FOR NEURONAL RECORDING AND BEHAVIORAL MEASUREMENTS BASED ON A THERMAL STIMULATION DEVICE FOR PAIN INDUCTION IN MICE
Achim Schilling, Konstantin Tziridis, Holger Schulze, Erlangen
- T20-2A** A GIANT DESCENDING INTERNEURON IN THE STICK INSECT CONVEYING INFORMATION ABOUT ANTENNAL MOVEMENT AND SUBSTRATE VIBRATION
Gaetan Lepreux, Jan Marek Ache, Stephan Shuichi Haupt, Volker Dürr, Bielefeld
- T20-3A** A MODEL FOR TEMPERATURE-DEPENDENT LOCOMOTION IN *DROSOPHILA MELANOGASTER*
Andrea Klara Adden, Martin C. Göpfert, Bart R. H. Geurten, Göttingen
- T20-4A** A VIRTUAL TACTILE ENVIRONMENT TO STUDY SENSORIMOTOR PROCESSING IN MOUSE NEOCORTEX DURING LOCOMOTION
Andreas Stäubli, Asli Ayaz, Fritjof Helmchen, Zurich, Switzerland
- T20-5A** COLD DOG NOSES ARE SENSITIVE TO BODY HEAT RADIATION
Ronald H. H. Kröger, Lund, Sweden

Thursday

- T20-1B** ELECTROPHYSIOLOGICAL INVESTIGATION OF ANESTHESIA IN LOBSTERS
Torsten Fregin, Ulf Bickmeyer, Bremerhaven
- T20-2B** EXTRACTION OF SPATIAL INFORMATION FROM INFRARED-INPUT IN THE PRIMARY INFRARED SENSITIVE NUCLEUS (LTTD) OF RATTLESNAKES
Maximilian S. Bothe, Tobias Kohl, Harald Luksch, Freising
- T20-3B** INTEGRATION OF VISUAL AND TACTILE INPUTS IN A CRICKET ANTENNAL GIANT FIBRE
Timothy George Bayley, Berthold Hedwig, Cambridge, United Kingdom

- T20-4B** NEW AGONISTS FOR INSECT STRETCH RECEPTORS
Christian Spalthoff, Alexandre Nesterov, Ramani Kandasamy, Radoslaw Katana, Vincent L. Salgado, Martin C. Göpfert, Göttingen

Friday

- T20-1C** NON-VISUAL FUNCTIONS OF VISUAL OPSINS
Diego Giraldo, Damiano Zanini, Marta Andrés, Bart R. H. Geurten, Martin C. Göpfert, Göttingen
- T20-2C** OPTOPHYSIOLOGICAL INVESTIGATION ON THE INTEGRAL ROLE OF OCTOPAMINERGIC NEURONS IN THE MOTOR NEURON SYSTEM OF *DROSOPHILA MELANOGASTER*
Florian Bilz, Saskia Nagel, Hans-Joachim Pflüger, Marco Schubert, Berlin
- T20-3C** PHYSIOLOGY OF THE FEMORAL CHORDOTONAL ORGAN OF ADULT *DROSOPHILA MELANOGASTER*
Joscha Arne Alt, Reinhard Lakes-Harlan, Giessen
- T20-4C** REPRESENTING INFRARED SPACE USING TOPOGRAPHIC MICROSTIMULATION IN THE BARREL CORTEX OF THE RAT
Konstantin Hartmann, Eric E. Thomson, Miguel A. L. Nicolelis, Durham, NC, USA

Saturday

- T20-1D** SETTING THE CLOCK: ELECTROPHYSIOLOGICAL AND OPTOGENETIC CHARACTERISATION OF LIGHT AND TEMPERATURE ENTRAINMENT IN *DROSOPHILA*
Edgar Buhl, Maite Ogueta-Gutierrez, Chenghao Chen, Adam Bradlaugh, Ralf Stanewsky, James JL Hodge, Bristol, United Kingdom
- T20-2D** STIMULUS PREFERENCE PROFILES OF WHISKER SENSITIVE NEURONS IN TRIGEMINAL NUCLEI
Shubo Chakrabarti, Andre Maia-Chagas, Cornelius Schwarz, Tübingen
- T20-3D** THERMOSENSATION IN THE ANT *CAMPONOTUS RUFIPES*
Manuel Nagel, Christoph J. Kleineidam, Konstanz
- T20-4D** TIGHT COUPLING OF MULTIPLE DESENSITIZATION MECHANISMS IN MECHANOTRANSDUCER CURRENTS OF DRG NEURONS
Janez Prešern, Aleš Škorjanc, Tomaž Rodic, Jan Benda, Tübingen
- T20-5D** VIP EXPRESSING INTERNEURONS IN LAYER II/III OF THE BARREL CORTEX
Alvar Prönneke, Bianca Scheuer, Mirko Witte, Martin Möck, Jochen F. Staiger, Göttingen



T21: Motor systems

Wednesday

- T21-1A** 3D REACH CAGE FOR MOVEMENT PLANNING IN
EXTRAPERSONAL SPACE
Michael Berger, Alexander Gail, Göttingen
- T21-2A** A COMPREHENSIVE APPROACH FOR THE AUTOMATED
MEASUREMENT OF KINEMATIC PARAMETERS DURING
WALKING IN *DROSOPHILA*
Till Bockemühl, Ansgar Büschges, Cologne
- T21-3A** A DESCENDING INTERNEURON THAT UNDERLIES
TURNING BEHAVIOR IN FLYING *DROSOPHILA*
*Bettina Schnell, Shigehiro Namiki, Wyatt Korff, Gwyneth
M. Card, Michael H. Dickinson, Seattle, USA*
- T21-4A** A MODEL OF INTER-SEGMENTAL COORDINATION
PRODUCING TRIPOD AND TETRAPOD COORDINATION
PATTERNS OF INSECTS
Tibor Istvan Toth, Silvia Daun-Gruhn, Cologne
- T21-5A** AUDIO-VOCAL INTERACTION IN THE MONKEY PRE-
FRONTAL CORTEX
Steffen R. Hage, Andreas Nieder, Tübingen
- T21-6A** BODY SIDE-SPECIFIC MODIFICATION OF LOAD PRO-
CESSING DURING TURNING IN THE STICK INSECT
*Matthias Gruhn, Philipp Rosenbaum, Anke Borgmann,
Ansgar Büschges, Cologne*
- T21-7A** CELLULAR MECHANISMS UNDERLYING BEHAVIOURAL
STATE-DEPENDENT MODULATION OF MOTOR COR-
TEX OUTPUT IN VIVO
*Julia Schiemann, Paolo Puggioni, Miha Pelko, Joshua
Dacre, Mark C.W. van Rossum, Ian Duguid, Edinburgh,
United Kingdom*
- T21-8A** CHANGING CODES - MODULATION OF AXONAL
SPIKING IN A SENSORY NEURON BY DESCENDING
PROJECTION NEURONS
Carola Städele, Wolfgang Stein, Ulm

Thursday

- T21-1B** COMMAND AND CONTROL – NONSPIKING INTER
NEURONS MODIFY SPECIFIC PARAMETERS OF
SEARCHING MOVEMENTS
Eva Berg, Ansgar Büschges, Joachim Schmidt, Cologne
- T21-2B** CONTRIBUTION OF RGMA INHIBITION TO RECOVERY
OF MOTOR FUNCTIONS AFTER SPINAL CORD INJURY
IN MACAQUES
*Hiroshi Nakagawa, Taihei Ninomiya, Toshihide Yamashita,
Masahiko Takada, Inuyama Aichi, Japan*
- T21-3B** CORTICAL CONTROL OF LANGUAGE-RELATED MUSCLES
IN SPEECH PRODUCTION
*Valentina Ferpozzi, Luca Forna, Tommaso Alfiero, Marco
Riva, Enrica Fava, Lorenzo Bello, Gabriella Cerri, Milan,
Italy*

- T21-4B** CPG NEURONS FOR SPECIES-SPECIFIC SINGING IN CRICKET SPECIES
Pedro Jacob, Berthold Hedwig, Cambridge, United Kingdom
- T21-5B** DESCENDING TYRAMINERGIC/OCTOPAMINERGIC LOCUST BRAIN NEURONS
Hans-Joachim Pflüger, Sergej Hartfil, Natalia Kononenko, Berlin
- T21-6B** ENCODING OF VOLITIONAL INITIATION OF VOCALIZATION IN THE MACAQUE'S ANTERIOR CINGULATE CORTEX
Natalja Gavrilov, Steffen R. Hage, Andreas Nieder, Tübingen
- T21-7B** FREQUENCY-SELECTIVE FUNCTIONAL CORTICO-CORTICAL INTERACTIONS BETWEEN MONKEY PARIETAL REACH REGION AND DORSAL PREMOTOR CORTEX IN MEMORY GUIDED REACHING MOVEMENTS
Pablo Martinez Vazquez, Christian Klaes, Stephanie Westendorff, Alexander Gail, Göttingen
- T21-8B** FROM VISION TO ACTION: A COMPARATIVE POPULATION STUDY OF HAND GRASPING AREAS AIP, F5, AND M1
Stefan Schaffelhofer, Hansjörg Scherberger, Göttingen
- T21-9B** GRADED NEURAL SELECTIVITY WITH GRADED PREFERENCE FOR RULE-BASED REACH GOALS IN MONKEY SENSORIMOTOR CORTEX
Latita Suriya-Arunroj, Alexander Gail, Göttingen

Friday

- T21-1C** GRASP FORCE CODING IN F5 AND AIP IN A DELAYED GRASPING TASK
Rijk W. Intveld, Hansjoerg Scherberger, Göttingen
- T21-2C** HABENULA CIRCUITRY CONTROLLING THE DOPAMINERGIC SYSTEM IN ANURAN AMPHIBIANS
Lars Freudenmacher, Vyara Todorova, Wolfgang Walkowiak, Cologne
- T21-3C** HABENULAR GLUTAMATERGIC EXCITATION OF VTA/SNC NEURONS IN LAMPREY
Arndt von Twickel, Wolfgang Walkowiak, Sten Grillner, Cologne
- T21-4C** HOW TO FIND HOME BACKWARDS? REVERSE WALKING IN CATAGLYPHIS FORTIS DESERT ANTS
Sarah Elisabeth Pfeffer, Matthias Wittlinger, Ulm
- T21-5C** JOINT MOMENTS IN THE LIMBS OF AN INSECT WALKING FREELY ON STABLE AND UNSTABLE GROUND
Chris Julian Dallmann, Josef Schmitz, Bielefeld
- T21-6C** LATERALITY OF GRASP-RELATED ACTIVITY IN MACAQUE AREAS AIP AND F5
Jonathan A. Michaels, Hansjörg Scherberger, Göttingen



- T21-7C** LOSS OF THE CALCIUM CHANNEL β_4 SUBUNIT REDUCES THE PACEMAKER FREQUENCY OF CEREBELLAR PURKINJE NEURONS IN ATAXIC MICE
Bruno Benedetti, Bernhard E. Flucher, Innsbruck, Austria
- T21-8C** MODULATION OF REACH ADAPTATION THROUGH TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS) IN PATIENTS WITH CEREBELLAR DEGENERATION
Liane John, Michael Küper, Thomas Hulst, Joachim Hermsdörfer, Opher Donchin, Dagmar Timmann, Essen
- T21-9C** MOTOR ACTIVITY IN THE THREE MAJOR LEG JOINTS OF THE TURNING STICK INSECT IS MODIFIED IN A CONTEXT-SPECIFIC WAY
Elzbieta Godlewska, Ansgar Büschges, Matthias Gruhn, Cologne

Saturday

- T21-1D** PROBING THE FUNCTION OF MOTONEURON DENDRITES IN *DROSOPHILA*
Carsten Duch, Natalie Schützler, Stefanie Ryglewski, Mainz
- T21-2D** SPEED-DEPENDENT INTERPLAY BETWEEN CPG ACTIVITY AND SENSORY FEEDBACK DURING WALKING IN *DROSOPHILA*
Volker Berendes, Ansgar Büschges, Till Bockemühl, Cologne
- T21-3D** SUBESOPHAGEAL MODULATION OF THORACIC MOTOR ACTIVITY IN THE STICK INSECT
Thomas Stolz, Joachim Schmidt, Cologne
- T21-4D** TASK- AND SEGMENT-SPECIFICITY OF MOVEMENT FEEDBACK SIGNAL PROCESSING IN A CURVE STEPPING INSECT
Joscha Schmitz, Ansgar Büschges, Cologne
- T21-5D** THE EFFECT OF HUNGER ON MUSCLE INNERVATION BY OCTOPAMINERGIC NEURONS IN LARVAE OF *DROSOPHILA MELANOGASTER*
Konstantin Lehmann, Thomas Mathjczyk, Hans-Joachim Pflüger, Berlin
- T21-6D** THE ROLE OF LEG TOUCHDOWN FOR THE CONTROL OF LOCOMOTOR ACTIVITY IN THE STEPPING STICK INSECT LEG
Ansgar Büschges, Joscha Schmitz, Volker Berendes, Matthias Gruhn, Cologne
- T21-7D** TIME-DEPENDENT EFFECTS OF PULVINAR MICROSTIMULATION ON VISUALLY-GUIDED SACCADES AND TARGET SELECTION
Adan Ulises Dominguez-Vargas, Lukas Schneider, Igor Kagan, Melanie Wilke, Göttingen
- T21-8D** WALKING AND RUNNING IN DESERT ANTS - GAIT PARAMETERS AT DIFFERENT WALKING SPEEDS IN THE ANT, *CATAGLYPHIS FORTIS*
Matthias Wittlinger, Verena Wahl, Ulm

T22: Homeostatic and neuroendocrine systems, stress response

Wednesday

- T22-1A** EPENDYMAL CILIA GENERATE COMPLEX FLOW PATTERNS OF CEREBROSPINAL FLUID
Regina Johanna Faubel, Christian Westendorf, Eberhard Bodenschatz, Gregor Eichele, Göttingen
- T22-2A** EXCITATION-INHIBITION BALANCE OF HYPOTHALAMIC OREXINERGIC NEURONS IN THE OBESE (OB/OB) MOUSE
Thorsten Becker, Luigia Cristino, Vincenzo Di Marzo, Giuseppe Busetto, Verona, Italy

Thursday

- T22-1B** MAPPING OF FOS EXPRESSION IN MESENCEPHALIC PERIAQUEDUCTAL GRAY AND DEEP TECTAL NUCLEI OF PIGEONS (*COLUMBA LIVIA*) AFTER TONIC IMMOBILITY
Fernando Falkenburger Melleu, Cilene Lino de Oliveira, José Marino Neto, Florianópolis, Brazil

Friday

- T22-1C** MODULATION OF IDENTIFIED PARAVENTRICULAR NUCLEUS NEURONS BY FUEL SENSING SIGNALS
Andreas C. Klein, Simon Hess, Jens C. Brüning, Peter Kloppenburg, Cologne
- T22-2C** MOLECULAR EFFECTS OF OXYTOCIN ON STRESS: OXYTOCIN DELAYS CRF GENE EXPRESSION THROUGH CRT3
Benjamin Jurek, David A Slattery, Ying Liu Liu, Greti Aguilera, Erwin H. van den Burg, Inga D. Neumann, Regensburg

Saturday

- T22-1D** SEXUALLY DIMORPHIC EFFECTS OF FLUOXETINE IN THE REPEATED FORCED SWIMMING TEST: THE CONTRIBUTION OF THE SEROTONINERGIC METABOLISM IN THE BRAIN
Cilene Lino de Oliveira, Anicleto Poli, Áurea Elizabeth Linder, José Marino Neto, Fernanda B. Lima Christian, Inae Spezia, Lais Cristina Theindl, Fernando Melleu, Karolina Domingues, Florianópolis, Brazil
- T22-2D** SIMILARITIES WITHIN ARTHROPOD NEUROENDOCRINE SYSTEMS
Anja Dünnebeil, Andrea Wirmer, Ulm



T23: Neural networks and rhythm generators

Wednesday

- T23-1A** ANALYSIS OF LIGHT ENTRAINMENT PATHWAYS FROM THE COMPOUND EYE TO THE CIRCADIAN CLOCK OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*
Julia Yvonne Gestrich, Azar Massah, Andreas Arendt, Monika Stengl, Kassel
- T23-2A** BMAL1-DEFICIENCY AFFECTS NEURAL PROGENITOR PROLIFERATION AND FATE
Beryl Schwarz-Herzke, Amira Ali, Anna Stahr, Timour Prozorowski, Orhan Aktash, Charlotte von Gall, Düsseldorf
- T23-3A** CONVERGENCE OF MORPHOLOGICAL AND PHYSIOLOGICAL PROPERTIES IN A HUB NEURON IN A COORDINATING NETWORK
Felix Blumenthal, Henriette A. Seichter, Carmen Smarandache-Wellmann, Cologne
- T23-4A** CROSS-MODAL MODULATION OF SPIKING PATTERNS IN THE PRIMARY SOMATOSENSORY CORTEX OF BROWN NORWAY RATS
Malte Bieler, Nicole Cichon, Kay Sieben, Ileana Hanganu-Opatz, Hamburg
- T23-5A** CYCLIC NUCLEOTIDE OSCILLATIONS IN THE CIRCADIAN PACEMAKER OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*
Andreas Arendt, Julia Schendzielorz, Thomas Schendzielorz, Monika Stengl, Kassel
- T23-6A** DIFFERENT SPATIAL AND TEMPORAL ACTIVATION PATTERNS IN THE PERIRHINAL AND ENTORHINAL CORTEX IN RESPONSE TO AFFERENT STIMULATION OF THE NEOCORTEX AND AMYGDALA
Janske Willems, Pascal Chameau, Taco Werkman, Wytse Wadman, Natalie Cappaert, Amsterdam, The Netherlands
- T23-7A** DISSECTING THE BALANCE BETWEEN EXCITATION AND INHIBITION IN THE CA1 AND DG REGIONS OF THE HIPPOCAMPUS
Sicco de Knecht, Wytse Wadman, Pascal Chameau, Amsterdam, The Netherlands
- T23-8A** FIRING PATTERNS OF IDENTIFIED NEURONS IN THE MEDIAL SEPTUM/DIAGONAL BAND NUCLEUS AND THEIR RELATIONSHIP TO BEHAVIOUR AND HIPPOCAMPAL NETWORK OSCILLATIONS
Tim James Viney, Abhilasha Joshi, Peter Somogyi, Oxford, United Kingdom
- T23-9A** FUNCTIONAL ANALYSIS OF THE *RHYPAROBIA MADERAE* MOLECULAR CLOCK
Achim Werckenthin, Monika Stengl, Kassel
- T23-10A** GLUTAMATERGIC SYSTEM CONTROLS SYNCHRONIZATION OF SPONTANEOUS NEURONAL ACTIVITY IN THE MURINE NEONATAL ENTORHINAL CORTEX
Petr Unichenko, Jenq-Wei Yang, Heiko J. Luhmann, Sergei Kirischuk, Mainz

Thursday

- T23-1B** INFLUENCE OF LFP-INDEPENDENT SPIKES ON IN-VIVO LFPs
Stephan Waldert, Roger N. Lemon, Alexander Kraskov, London, United Kingdom
- T23-2B** INTRA- AND INTER-SEGMENTAL COORDINATION OF RHYTHMIC MOTOR ACTIVITY IN THE WALKING SYSTEM OF THE STICK INSECT
Charalampos Mantziaris, Ansgar Büschges, Anke Borgmann, Cologne
- T23-3B** INTRACELLULAR CALCIUM RESPONSES TO THE NEUROTRANSMITTER GABA IN CIRCADIAN PACEMAKER NEURONS OF THE MADEIRA COCKROACH RHYPAROBIA MADERAE
Maria Giese, Hongying Wei, Monika Stengl, Kassel
- T23-4B** INTRINSIC COUPLING MODES IN THE FERRET CORTEX AT DIFFERENT LEVELS OF ISOFLURANE
Florian Pieper, Felix Fischer, Gerhard Engler, Andreas K. Engel, Hamburg
- T23-5B** INTRINSIC ELECTROPHYSIOLOGICAL PROPERTIES OF LOCUS COERULEUS NEURONS
Stephan Bremser, Lars Paeger, Peter Kloppenburg, Cologne
- T23-6B** INVESTIGATING THE MOLECULAR CLOCK OF THE CARPENTER ANT C. FLORIDANUS: GENES, NEURONS AND BEHAVIOR
Janina Kay, Pamela Menegazzi, Stephanie Mildner, Flavio Roces, Charlotte Förster, Würzburg
- T23-7B** LIVING AT DIFFERENT LATITUDES: THE ROLE OF DROSOPHILA L-LNV IN SETTING THE PHASE OF THE EVENING ACTIVITY PEAK
Pamela Menegazzi, Elena Dalla Benetta, Marta Beauchamp, Christiane Hermann-Luibl, Charlotte Helfrich-Förster, Würzburg
- T23-8B** LOCAL NEURONAL PHASE COUPLING IN MONKEY'S AREA V4 IS MODULATED BY SELECTIVE ATTENTION AS IF ONLY THE ATTENDED STIMULUS IS PRESENT
Eric Drebitz, Marcus Haag, Iris Grothe, Sunita Mandon, Andreas K. Kreiter, Bremen
- T23-9B** MODULATION OF FIRING PATTERNS IN MIDBRAIN DOPAMINERGIC NEURONS
Ursel Collienne, Svitlana Popovych, Simon Hess, Martin E. Hess, Jens C. Brüning, Silvia Daun-Gruhn, Peter Kloppenburg, Cologne
- T23-10B** MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF LATERAL HORN NEURONS IN DROSOPHILA MELANOGASTER
Sudeshna Das, Silke Sachse, Bill Hansson, Jena
- T23-11B** LONG-RANGE SYNCHRONIZATION BY INTER-MINGLED DELTA AND THETA OSCILLATIONS
Jonatan Biskamp, Jonas-Frederic Sauer, Marlene Bartos, Freiburg



Friday

- T23-1C** MOVEMENT DETECTION SYSTEMS ARE GENERALLY COLOUR-BLIND, THE STARTLE RESPONSE CIRCUITRY IN GOLDFISH IS NOT
Peter Machnik, Nathalie Peper, Wolfram Schulze, Stefan Schuster, Bayreuth
- T23-2C** NEW ANATOMICAL INSIGHT INTO THE CIRCADIAN CLOCK NETWORK OF *DROSOPHILA MELANOGASTER* USING FLYBOW
Frank K. Schubert, Dirk Rieger, Würzburg
- T23-3C** OPTIMAL FEATURE INTEGRATION IN CRITICAL, BALANCED NETWORKS
Nergis Tömen, Udo Ernst, Bremen
- T23-4C** OPTOGENETIC DISSECTION OF CELLULAR INTERACTIONS IN THE PREFRONTAL CORTEX OF NEONATAL MICE
Joachim Ahlbeck, Sebastian H. Bitzenhofer, Amy Wolff, Ileana L. Hanganu-Opatz, Hamburg
- T23-5C** ORIGIN AND FUNCTION OF DEPOLARIZING AFTER-POTENTIALS IN STELLATE CELLS IN THE MEDIAL ENTORHINAL CORTEX
Franziska Kümpfbeck, Martin Stemmler, Andreas Herz, Felix Felmy, Munich
- T23-6C** PHOTO-PERIODIC DIAPAUSE IN *DROSOPHILA EZOANA*: WHAT DOES IT TELL ABOUT CIRCADIAN INVOLVEMENT IN PHOTO-PERIODIC TIME MEASUREMENT?
Koustubh M. Vaze, Würzburg
- T23-7C** RAPID TEMPERATURE ADAPTATION OF THE LIFE-SAVING ESCAPE C-START IS MEDIATED BY NMDA RECEPTORS AT THE LEVEL OF THE MAUTHNER CELLS IN LARVAL ZEBRAFISH
Alexander Hecker, Wolfram Schulze, Stefan Schuster, Bayreuth
- T23-8C** REPRESENTATION OF VISUAL INFORMATION IN THE GOLDFISH MAUTHNER CELL
Sabine Feyl, Peter Machnik, Wolfram Schulze, Stefan Schuster, Bayreuth
- T23-9C** RESPONSES TO EMOTIONAL IMAGES: RELATION TO THE RESPIRATORY CYCLE
Sergii O. Sobishchanskyi, Andrii O. Cherninskyi, Sergii V. Tukaiev, Mykola Y. Makarchuk, Kyiv, Ukraine
- T23-10C** SMALL WORLD AND RICH CLUB DYNAMICS OF THE SINGLE UNIT MOTOR NETWORK AND THEIR CORRELATION TO OSCILLATIONS
Benjamin Wellner, Jonathan A. Michaels, Stefan Schaffelhofer, Hans Scherberger, Göttingen
- T23-11C** SPONTANEOUS FIELD POTENTIAL TRANSIENTS IN THE RAT DENTATE GYRUS
Marlene Lulie Anderson, Uwe Heinemann, Berlin

Saturday

- T23-1D** SYNCHRONIZATION OF SINGING AND BREATHING IN CRICKETS: NEURONAL COUPLING BETWEEN TWO RHYTHM-GENERATING NETWORKS
Stefan Schöneich, Berthold Hedwig, Cambridge, United Kingdom
- T23-2D** THE ARCHERFISH PREDICTIVE START: A SETUP TO COUPLE BEHAVIOR AND ELECTROPHYSIOLOGY
Wolfram Schulze, Martin Krause, Stefan Schuster, Bayreuth
- T23-3D** THE ENERGY DEMAND DURING DIFFERENT HIPPOCAMPAL NETWORK ACTIVITY STATES IN VITRO
Justus Schneider, Nikolaus Berndt, Ismini E. Papageorgiou, Hermann-Georg Holzhütter, Oliver Kann, Heidelberg
- T23-4D** THE FITNESS OF DROSOPHILA MELANOGASTER IS INFLUENCED BY THE NEURONAL CIRCADIAN CLOCK
Melanie Bunz, Taishi Yoshii, Dirk Rieger, Würzburg
- T23-5D** THE IMPACT OF TIMED ELECTRICAL DEPOLARIZATION OF SPECIFIC CLOCK NEURONS ON DROSOPHILA MELANOGASTER'S CIRCADIAN CLOCK
Saskia Eck, Charlotte Helfrich-Foerster, Dirk Rieger, Würzburg
- T23-6D** THE NEURONAL MICROCIRCUITS OF THE MEDIAL SEPTUM
Liudmila Sosulina, Hiroshi Kaneko, Falko Fuhrmann, Daniel Justus, Detlef Friedrichs, Susanne Schoch, Stefan Remy, Bonn
- T23-7D** THETA OSCILLATIONS AND NEURONAL FIRING ALONG THE SEPTO-TEMPORAL AXIS OF THE EPILEPTIC HIPPOCAMPAL FORMATION
Antje Kiliyas, Ute Häussler, Arvind Kumar, Ulrich P. Friepp, Carola A. Haas, Ulrich Egert, Freiburg
- T23-8D** THREE-DIMENSIONAL Ca^{2+} IMAGING OF NEURONAL NETWORK ACTIVITY IN THE NEONATAL MOUSE VISUAL CORTEX IN VIVO
Michael Kummer, Knut Kirmse, Otto W. Witte, Knut Holthoff, Jena
- T23-9D** TOWARDS RECORDING STANDARDS OF NEURONAL AVALANCHES IN BRAIN SLICES
Julia Neugebauer, Jan-Olliver Hollnagel, Jörg Geiger, Christine Gebhardt, Berlin
- T23-10D** VISUAL INFORMATION TRANSFER TO THE MAUTHNER CELL WITHOUT TECTAL PROCESSING
Kathrin Leupolz, Peter Machnik, Stefan Schuster, Bayreuth



T24: Attention, motivation, emotion and cognition

Wednesday

- T24-1A** ADDING UP THE ODDS - NITRIC OXIDE MEDIATES OPPONENT ASSESSMENT AND THE DECISION TO FLEE IN CRICKETS
Paul Anthony Stevenson, Jan Rillich, Leipzig
- T24-2A** ALARM PHEROMONE-INDUCED DEFENSIVE BEHAVIOR IN RATS: ROLE OF THE BED NUCLEUS OF THE STRIA TERMINALIS
Tino Breifeld, Johann Bruning, Yasushi Kiyokawa, Markus Fendt, Magdeburg
- T24-3A** BEHAVIOURAL AND NEURONAL CORRELATES OF VISUAL NUMEROSITY REPRESENTATIONS IN THE CARRION CROW, *CORVUS CORONE*
Helen Ditz, Andreas Nieder, Tübingen
- T24-4A** BLOCKADE OF OREXIN-1 RECEPTORS IN THE VENTRAL TEGMENTAL AREA COULD ATTENUATE THE LATERAL HYPOTHALAMIC STIMULATION-INDUCED POTENTIATION OF REWARDING PROPERTIES OF MORPHINE
Leila Zarepour, Tehran, Iran
- T24-5A** CAGE-BASED AUTOMATED LEARNING OF COGNITIVE TASKS FOR RHESUS MACAQUES
Michael Niessing, Michael Berger, Leonore Burchardt, Antonino Calapai, Klaus Heisig, Valeska Stephan, Stefan Treue, Alexander Gail, Göttingen
- T24-6A** CELL-TYPE SPECIFIC MODULATION OF BEHAVIORALLY RELEVANT AND DISTRACTING STIMULI BY DOPAMINE D1 RECEPTORS IN PRIMATE PREFRONTAL CORTEX
Simon Nikolas Jacob, Maximilian Stalter, Andreas Nieder, Berlin
- T24-7A** CHOLINERGIC INVOLVEMENT IN ATTENTIONAL MODULATION IN AREA MT OF PRIMATE VISUAL CORTEX
Clíodhna Quigley, Vera Katharina Veith, Stefan Treue, Göttingen
- T24-8A** CORTICAL DRIVE OF LOW-FREQUENCY OSCILLATIONS IN THE HUMAN NUCLEUS ACCUMBENS DURING ACTION SELECTION
Max-Philipp Stenner, Vladimir Litvak, Robb B. Rutledge, Tino Zaehle, Friedhelm C. Schmidt, Jürgen Voges, Hans-Jochen Heinze, Raymond J. Dolan, London, United Kingdom

Thursday

- T24-1B** CROSS-MODAL WORKING MEMORY NEURONS IN THE CORVID NIDOPALLIUM CAUDO-LATERALE
Felix W. Moll, Andreas Nieder, Tübingen
- T24-2B** DOPAMINE D1 AND D2 RECEPTOR MODULATION OF NUMERICAL RULE CODING IN PRIMATE PREFRONTAL CORTEX NEURONS
Torben Ott, Simon N. Jacob, Andreas Nieder, Tübingen

- T24-3B** EFFECTS OF ACUTE AND CHRONIC ADMINISTRATION OF L-DOPA ON COGNITIVE JUDGEMENT BIAS OF RATS IN THE AMBIGUOUS-CUE INTERPRETATION PARADIGM
Jakub Kregiel, Joanna Golebiowska, Rafal Rygula, Krakow, Poland
- T24-4B** EFFECTS OF ACUTE AND CHRONIC PHARMACOLOGICAL MANIPULATIONS OF THE 5-HT SYSTEM ON COGNITIVE JUDGMENT BIAS OF RATS
Joanna Golebiowska, Jakub Kregiel, Rafal Rygula, Krakow, Poland
- T24-5B** ELUCIDATING PROJECTION PATTERNS AND POST-SYNAPTIC PARTNERS OF INTERCALATED CELLS IN THE MOUSE AMYGDALA
Anna Gaertner, Douglas Asede, Minas Salib, Francesco Ferraguti, Ingrid Ehrlich, Tübingen
- T24-6B** ENVIRONMENTAL ENRICHMENT DURING ADOLESCENCE ALTERS EXPLORATION STRATEGIES OF YOUNG ADULT RATS
Dana Elonne Cobb, Dr. Mark C. Zrull, Boone, NC, USA
- T24-7B** FIGHTING BEHAVIOR OF FEMALE FIELD CRICKETS, NATURAL AND UNDER PHARMACOLOGICAL STIMULATION
Tanja Lauß, Andrea Wirmer, Ulm

Friday

- T24-1C** GUIDANCE OF THE FOCUS OF ATTENTION IN *DROSOPHILA MELANOGASTER*
Sebastian König, Reinhard Wolf, Martin Heisenberg, Würzburg
- T24-2C** HUMAN LINEAR VISUAL MOTION DIRECTION DISCRIMINATION THRESHOLDS: EFFECTS OF GRADED DEPLOYMENT OF SPATIAL ATTENTION
Vera Katharina Veith, Stefan Treue, Göttingen
- T24-3C** IDENTIFICATION AND AMINERGIC MODULATION OF BRAIN INTERNEURONES WITH SYNAPTIC INPUTS FROM ANTENNAL MECHANORECEPTORS IN THE CRICKET
Ann-Juliana Breitenbach, Stefan Schöneich, Paul Anthony Stevenson, Leipzig
- T24-4C** INCENTIVES, ACCOUNTABILITY AND DECISION MAKING: A NEUROSCIENTIFIC INVESTIGATION
Mina Godec, Frank Hartmann, Grega Repovš, Anka Slana, Sergeja Slapnicar, Ljubljana, Slovenia
- T24-5C** INPUT AND OUTPUT CONNECTIONS TO RAT PREFRONTAL CORTEX ARE RECIPROCALLY ORGANISED BUT NOT ALIGNED
Chris John Tinsley, Stacey Ann Bedwell, Nottingham, United Kingdom
- T24-6C** MMP-9 IN CENTRAL AMYGDALA IMPROVES REWARD LEARNING AND SOCIAL MOTIVATION
Kacper Kondrakiewicz, Ksenia Meyza, Alicja Puscian, Karolina Ziegart-Sadowska, Tomasz Nikolajew, Ewelina Knapska, Warsaw, Poland



- T24-7C** NEURAL CORRELATES OF SOCIAL INTERACTIONS IN THE HONEYBEE COLONY
Benjamin H. Paffhausen, Aron Duer, Isabella Hillmer, Randolph Menzel, Berlin
- T24-8C** NEURONAL CORRELATES OF SUBJECTIVE VALUE IN THE PIGEON 'PREFRONTAL CORTEX'
Nils Kasties, Onur Güntürkün, Maik C. Stüttgen, Bochum

Saturday

- T24-1D** PREDICTING INDIVIDUAL AGGRESSIVENESS BY VIDEO-TRACKING ANALYSIS IN FREELY BEHAVING CRICKETS
Jacqueline Rose, Darron A. Cullen, Paul A. Stevenson, Leipzig
- T24-2D** ROLE OF DOPAMINE D1/D2 RECEPTORS IN MEDIATING THE AFTEREFFECT OF WHEEL RUNNING
Alexandra Trost, Wolfgang Hauber, Stuttgart
- T24-3D** SPATIAL ATTENTION SUPPRESSES MT RESPONSES TO MOTION ONSET IN MACAQUE MONKEYS
Vahid Mehrpour, Julio C. Martinez-Trujillo, Stefan Treue, Göttingen
- T24-4D** THE EFFECTS OF DEVOCALIZATION ON ROUGH-AND-TUMBLE PLAY BEHAVIOUR IN UNFAMILAR ADULT AND JUVENILE RATS
Theresa Marie Kisko, David R. Euston, Sergio M. Pellis, Lethbridge, Canada
- T24-5D** THE NEURAL REPRESENTATION OF EMPTY SETS IN MACAQUE POSTERIOR PARIETAL CORTEX
Araceli Ramirez-Cardenas, Maria Moskaleva, Andreas Nieder, Tübingen, Mexico
- T24-6D** THE ROLE OF DEPTH CUES IN HUMAN PLACE RECOGNITION
Hanspeter A. Mallot, Viktoria Prozmann, Marc Halfmann, Tübingen
- T24-7D** TRANSIENT PROCESSES AND SYNCHRONIZATION OF INDEPENDENT ENSEMBLES NEURONS WITH HUMAN CHOICE AFTER THE STIMULUS
Margarita Zaleshina, Alexander Zaleshin, Moscow, Russia

T25: Learning and memory

Wednesday

- T25-1A** A POSSIBLE ROLE OF DYNAMIC LEVELS OF PHOSPHORYLATED APIS MELLIFERA CREB (AMCREB) IN THE INNER COMPACT CELLS OF MUSHROOM BODIES IN REGULATING THE INDIVIDUAL ABILITY OF HONEYBEES TO LEARN DURING CLASSICAL CONDITIONING
Dorothea Eisenhardt, Karin Heufelder, Katrin Gehring, Janina Feige, Yan Dyck, Paul Bauer, Berlin

- T25-2A** A SUBLETHAL DOSE OF THE NEONICOTINOID THIA-CLOPRID AFFECTS NAVIGATION, MEMORY AND SOCIAL COMMUNICATION IN HONEYBEES
Lea Tison, Marie-Luise Hahn, Nina Sophie Irmisch, Aron Duer, Uwe Greggers, Gabriela Bischoff, Randolph Menzel, Berlin
- T25-3A** A TASK TO PROBE TIME AND DISTANCE ESTIMATION IN RODENTS
Magdalena Kautzky, Kay Thurley, Planegg-Martinsried
- T25-4A** ASSESSMENT OF γ -HYDROXYBUTIRIC ACID (GHB) ACTION IN INSECTS
Aurelien Strehl, Uli Mueller, Saarbrücken
- T25-5A** CHANGES IN BDNF PROTEIN EXPRESSION AFTER FEAR EXTINCTION LEARNING IN THE AMYGDALA, THE MEDIAL PREFRONTAL CORTEX AND THE HIPPOCAMPUS
Aaron H. Voss, Volkmar Lessmann, Thomas Endres, Magdeburg
- T25-6A** 'COGNITIVE ENHANCEMENT' IN INSECTS: ASSOCIATIVE FUNCTION INCREASED BY RHODIOLA ROSEA FOOD SUPPLEMENTATION?
Birgit Michels, Katrin Franke, Ludger Wessjohann, Dushyant Mishra, Oleh Lushchak, Hanna Zwaka, Ruth Bartels, Bertram Gerber, Magdeburg
- T25-7A** ACOMPARISON OF CLASSICAL AND OPERANT CONDITIONING USING BEHAVIOR AND ELECTROPHYSIOLOGY DURING AUDITORY LEARNING TASKS
Maité Goldschmidt, Angela Kolodziej, Andreas Schulz, Frank W. Ohl, Magdeburg
- T25-8A** DECODING THE BRAIN EPIGENOME: CHROMATIN READERS IN COGNITION
Eva Benito-Garagorri, Hendrik Urbanke, Jonas Barth, André Fischer, Göttingen
- T25-9A** DIFFERENT RAT HIPPOCAMPAL SUBFIELDS SHOW INCREASED ARC MRNA EXPRESSION AFTER NOVEL EXPLORATION OF DISCRETE POSITIONAL OR LARGE DIRECTIONAL SPATIAL CUES
Verena Aliane, Denise Manahan-Vaughan, Bochum
- T25-10A** DIFFERENTIAL ANALYSIS OF GENE EXPRESSION WITH RNA-SEQ: REGULATION BY TRAINING STRENGTH
Katja Mershbächer, Uli Müller, Saarbrücken
- T25-11A** DORSAL HIPPOCAMPAL LESIONS BOOST PERFORMANCE IN THE RAT SEQUENTIAL REACTION TIME TASK: EVALUATING THE ROLE OF ENHANCED INSTRUMENTAL EXPERIENCE
Sebastian Busse, Janine Roscher, Rainer K. W. Schwarting, Marburg
- T25-12A** DYNAMICS OF MEMORY STORAGE BASED ON CELL ASSEMBLIES
Juliane Herpich, Florentin Wörgötter, Christian Tetzlaff, Göttingen



- T25-13A** DYNAMICS OF SPATIAL SELF-ORGANIZATION OF CELL ASSEMBLIES
Johannes Maria Auth, Timo Nachstedt, Christian Tetzlaff, Florentin Wörgötter, Göttingen
- T25-14A** EFFECTS OF INCREASED ACETYLCHOLINE LEVELS ON ODOR-INDUCED MEMORY REACTIVATION DURING SLOW WAVE SLEEP IN HUMANS
Jens G. Klinzing, Jan Born, Björn Rasch, Susanne Diekelmann, Tübingen
- T25-15A** EFFECTS OF OSCILLATORY ELECTRIC FIELDS ON EEG COUPLING: SLOW OSCILLATION AND SPINDLE ACTIVITY
Lisa Marshall, Dominic Aumann, Christian Wilde, Matthias Mölle, Lucas Parra, Lübeck

Thursday

- T25-1B** EFFECTS OF OVEREXPRESSION OF THE (PRO)RENIN RECEPTOR ON THE HIPPOCAMPAL FORMATION IN MICE
Alexander Bracke, Kai Bente, Oliver von Bohlen und Halbach, Greifswald
- T25-2B** EPENDYMIN: IN VITRO EXPRESSION STUDIES ON A CELL ADHESION MOLECULE INVOLVED IN CNS PLASTICITY AFTER STRESS HORMONE TREATMENT
Donato Penninella, Rupert Schmidt, Gießen
- T25-3B** EXTRA-CODING RNAs REGULATE NEURONAL DNA METHYLATION
Nancy Gallus, Esther Song, Rhiana Simon, Kathrin Savell, J. David Sweatt, Jeremy J. Day, Tübingen
- T25-4B** GENE REGULATION AND EPIGENETICS OF A LIFETIME BODY-SIZE MEMORY IN *DROSOPHILA*
Laura Spindler, Tammo Krause, Burkhard Poeck, Roland Strauss, Mainz
- T25-5B** GENERALIZATION OF ASSOCIATIVE OLFACTORY MEMORIES: PARAMETRIC ANALYSES IN *DROSOPHILA MELANOGASTER*
Emmanuel Antwi Adjei, Annie Voigt, Christian König, Rumeysa Taspinar, Ayse Yarali, Magdeburg
- T25-6B** GENOME-WIDE ANALYSES ON ELECTRIC SHOCK AVOIDANCE, PUNISHMENT LEARNING AND RELIEF LEARNING IN *DROSOPHILA MELANOGASTER*
Christian König, Mirjam Appel, Claus-Jürgen Scholz, Marcus Dittrich, Tobias Müller, Hiromu Tanimoto, Ayse Yarali, Magdeburg
- T25-7B** HIGH-RESOLUTION COMPARISON BETWEEN LEARNED AND INNATE OLFACTORY BEHAVIOUR IN LARVAL *DROSOPHILA*
Michael Schleyer, Samuel Reid, Evren Pamir, Timo Saumweber, Emmanouil Paisios, Alexander Davies, Bertram Gerber, Matthieu Louis, Magdeburg
- T25-8B** HOW TO LEARN FAST AND FORGET SLOWLY WITH DENDRITIC SPINES
Michael Fauth, Florentin Wörgötter, Christian Tetzlaff, Göttingen

- T25-9B** IMAGING OF SYNAPTIC ACTIVITY AND PLASTICITY IN THE DROSOPHILA BRAIN
Ulrike Pech, André Fiala, Göttingen
- T25-10B** IMPACT OF HIPPOCAMPAL SCLEROSIS LATERALIZATION ON BEHAVIOR IN THE MOUSE INTRAHIPPOCAMPAL KAINATE MODEL OF MESIAL TEMPORAL LOBE EPILEPSY
Jean-Baptiste Faure, Antje Kilius, Ute Häussler, Philipp Janz, Carola Haas, Freiburg
- T25-11B** IMPACT OF LIFE HISTORY ON FEAR MEMORY AND EXTINCTION IN MICE
Jasmin Remmes, Carina Bodden, Norbert Sachser, Hans-Christian Pape, Thomas Seidenbecher, Münster
- T25-12B** IMPACT OF THE CORTICAL EXTRACELLULAR MATRIX ON MEMORY AND LEARNING FLEXIBILITY
Hartmut Niekisch, Matthias Deliano, Frank W. Ohl, Renato Frischknecht, Max F. K. Happel, Magdeburg
- T25-13B** LEARNING OF DECLARATIVE MEMORY AFTER SLEEP IS INFLUENCED BY D-CYCLOSERINE GIVEN DURING SLEEP
Marjan Alizadeh Asfestani, Surjo R. Soekadar, Jan Schwidetzky, Jan Born, Gordon B. Feld, Tübingen
- T25-14B** LOCOMOTION PATTERNS INDUCED BY LEARNED ODORS IN THE HONEY BEE (*APIS MELLIFERA L.*)
Hiroyuki Ai, Yuta Kimura, Toshiya Yamashita, Hidetoshi Ikeno, Stephan Shuichi Haupt, Fukuoka, Japan
- T25-15B** LONG-TERM AVOIDANCE MEMORY LEADS TO A TRANSIENT INCREASE OF SYNAPTIC COMPLEXES IN THE MUSHROOM BODIES OF ANTS
Agustina Falibene, Flavio Roces, Wolfgang Rössler, Würzburg

Friday

- T25-1C** MODELING THE INTERACTION OF LONG-TERM MEMORY AND WORKING MEMORY
Timo Nachstedt, Florentin Wörgötter, Christian Tetzlaff, Göttingen
- T25-2C** NEURAL CIRCUIT ANALYSES OF RELIEF LEARNING IN FRUIT FLIES
Afshin Khalili, Christian König, Yoshinari Aso, Gerald Rubin, Ayse Yarali, Magdeburg
- T25-3C** NEURAL CIRCUITS OF MEMORY RE-EVALUATION
Johannes Felsenberg, Scott Waddell, Oxford, United Kingdom
- T25-4C** NEURAL CORRELATIONS IN BRAINS OF FREELY WALKING SOCIAL AND SOLITARY BEES DURING NAVIGATION IN AN ARTIFICIAL ENVIRONMENT
Nanxiang Jin, Simon Klein, Randolph Menzel, Berlin
- T25-5C** NEURONAL CORRELATES OF INSTRUMENTAL LEARNING IN HONEYBEES
Hanna Zwaka, Meida Jusyte, Sophie Lehfeldt, Randolph Menzel, Berlin



- T25-6C** NEURONAL CORRELATES OF UNLEARNED CALLS IN MALE AND FEMALE ZEBRAFISHES
Lisa Trost, Andries Ter Maat, Hannes Sagunsky, Manfred Gahr, Seewiesen
- T25-7C** NEURONAL RESPONSES TO MILD HEAT AND ELECTRIC SHOCK IN THE BRAIN OF *DROSOPHILA*
Kristina V. Dylla, Alja Lüdke, Dana Shani Galili, Hiromu Tanimoto, C. Giovanni Galizia, Paul Szyszka, Konstanz
- T25-8C** NEURONAL SUBSTRATE OF ASSOCIATIVE FEAR CONDITIONING IN THE ZEBRAFISH (*DANIO RERIO*) – MEASURED BY C-FOS EXPRESSION
Tim Ruhl, Jill Romer, Gerhard von der Emde, Bonn
- T25-9C** NEUROPEPTIDE S RECEPTOR-DEFICIENT MICE IN A MOUSE MODEL OF POST-TRAUMATIC STRESS DISORDER
Markus Fendt, Josephine Germer, Evelyn Kahl, Magdeburg
- T25-10C** NOGO-A INFLUENCES STRUCTURAL DYNAMICS OF MOSSY FIBER SYNAPSES
Cristina Iobbi, Martin Korte, Marta Zagrebelsky, Braunschweig
- T25-11C** OPTICALLY EVOKED SHARPWAVE-RIPPLE WAVEFORMS IN HIPPOCAMPAL CIRCUITS INDICATE FORMATION OF NEURAL ASSEMBLIES
Pascal Geschwill, Martin Both, Andreas Draguhn, Heidelberg
- T25-12C** PATHWAY ANALYSIS OF A VISUAL WORKING MEMORY IN *DROSOPHILA*
Sara Kuntz, Burkhard Poeck, Roland Strauss, Mainz
- T25-13C** PHARMAKIRGENETICS: NEURON INHIBITION BY SMALL MOLECULE-INDUCED KIR2.1 STABILIZATION
Christoph Thoeringer, Eva Auffenberg, Angela Jurik, Stelios Michalakis, Gerhard Rammes, Carsten Wotjak, Roland Schmid, Munich
- T25-14C** PLASTICITY IN MUSHROOM BODY PHYSIOLOGY CORRELATES WITH BEHAVIORAL LEARNING PERFORMANCE IN INDIVIDUAL HONEYBEES
Martin Paul Nawrot, Martin Strube-Bloss, Nobuhiro Yamagata, Joachim Haenicke, Randolph Menzel, Berlin

Saturday

- T25-1D** PLASTICITY OF A DEFINED MUSHROOM BODY-OUTPUT SYNAPSE UNDERLIES LEARNED OLFACTORY BEHAVIOR IN *DROSOPHILA*
David Oswald, Johannes Felsenberg, Gaurav Das, Emmanuel Perisse, Clifford Talbot, Wolf Huetteroth, Scott Waddell, Oxford, United Kingdom
- T25-2D** PROCESSING OF COMPETING VISUAL STIMULI IN THE CENTRAL COMPLEX OF *DROSOPHILA MELANOGASTER*
Stefanie Flethe, Roland Strauss, Mainz
- T25-3D** RELIEF LEARNING IS CONTROLLED BY DOPAMINE RELEASE IN THE RAT NUCLEUS ACCUMBENS
Jorge Ricardo Bergado Acosta, Magdeburg

- T25-4D** SELECTIVE RETROGRADE AMNESIA OF ASSOCIATIVE MEMORY AFTER NEUROPLASTIN LOSS AND SEVERE DEFICITS IN NEUROPLASTIN-DEFICIENT MICE
Soumee Bhattacharya, Rodrigo Herrera-Molina, Frank Angenstein, Karl-Heinz Smalla, Eckart D. Gundelfinger, Dirk Montag, Magdeburg
- T25-5D** SENSORY MEMORY FORMS IN THE CAUDOMEDIAL NIDOPALLIUM DURING SONG LEARNING
Christian Flecke, Yoko Yazaki-Sugiyama, Okinawa, Japan
- T25-6D** SLEEP AND PREDICTIVE CODING: CAN SLEEP IMPROVE INFORMATION PROCESSING IN THE VISUAL SYSTEM?
Nicolas Dominic Lutz, Karsten Rauss, Jan Born, Tübingen
- T25-7D** SPECIFIC CONTRIBUTION OF CA1 TO THE RECONSOLIDATION OF FEAR MEMORY: AN OPTOGENETIC/MOLECULAR IMAGING STUDY
Vanessa Lux, Olivia Masseck, Stefan Herlize, Magdalena Sauvage, Bochum
- T25-8D** STUDYING THE MUSHROOM BODY MEMORY MATRIX ONE CELL AT A TIME
Timo Saumweber, Astrid Rohwedder, Katharina Eichler, Albert Cardona, James Truman, Marta Zlatic, Andreas Thum, Bertram Gerber, Magdeburg
- T25-9D** SYNAPSIN FUNCTIONS IN TIMING-DEPENDENT BEHAVIOURAL PLASTICITY
Thomas Niewalda, Birgit Michels, Roswitha Jungnickel, Jörg Kleber, Sören Diegelmann, Bertram Gerber, Magdeburg
- T25-10D** SYNAPSIN IS REQUIRED TO ESTABLISH A STRONG MEMORY IN ODOR-SUGAR ASSOCIATIVE LEARNING
Jörg Kleber, Thilo Kähne, Bertram Gerber, Magdeburg
- T25-11D** THE CONNECTOME OF THE MUSHROOM BODY OF THE *DROSOPHILA* LARVA
Andreas Stephan Thum, Katharina Eichler, Marta Zlatic, Albert Cardona, Konstanz
- T25-12D** THE IMPORTANCE OF VISUAL AND OLFACTORY STIMULI DURING FLOWER VISITS IN THE HONEY BEE
Verena Reinhardt, Christa Neumeyer, Mainz
- T25-13D** THE ROLE OF CAMKII IN THE FORMATION OF LONG-TERM MEMORY IN THE HONEYBEE
Christina Scholl, Wolfgang Rössler, Würzburg
- T25-14D** THE ROLE OF SLEEP IN FEAR EXTINCTION MEMORY IN MICE
Irene Melo, Ingrid Ehrlich, Tübingen
- T25-15D** VERY LOW BIRTH WEIGHT PIGLETS SHOW IMPROVED COGNITIVE PERFORMANCE IN THE SPATIAL COGNITIVE HOLEBOARD TASK
Alexandra Antonides, Anne C. Schoonderwoerd, Franz Josef van der Staay, Rebecca E. Nordquist, Utrecht, The Netherlands



T26: Computational neuroscience

Wednesday

- T26-1A** A 3D DYNAMIC MODEL FOR THE STUDY OF CENTRAL DRIVE OF ANTENNAL MOVEMENTS IN INSECTS
Nalin Harischandra, André F. Krause, Volker Dürr, Bielefeld
- T26-2A** A SIMPLIFIED MODEL FOR OSCILLATORY POPULATION DYNAMICS IN VISUAL CORTEX
Daniel Harnack, Klaus Richard Pawelzik, Udo Alexander Ernst, Sina Tootoonian, Bremen
- T26-3A** BASAL GANGLIA DYNAMICS DURING MOVEMENT INITIATION: A COMPUTATIONAL MODEL FOR TRANSIENT BETA OSCILLATIONS
Amin Mirzaei, Arvind Kumar, Daniel Leventhal, Nicolas Mallet, Ad Aertsen, Joshua Berke, Robert Schmidt, Freiburg
- T26-4A** BOOSTING COORDINATED RESET STIMULATION BY SLOWLY-VARYING-SEQUENCES: A COMPUTATIONAL STUDY
Magteld Zeitler, Peter A. Tass, Jülich
- T26-5A** CHALLENGING A DYNAMICAL THRESHOLD EQUATION FOR ACTION POTENTIAL INITIATION FOR ITS GENERALITY
Lukas Sonnenberg, Jan Benda, Tübingen
- T26-6A** CHANNEL MECHANISMS FOR A HIERARCHY OF TIMESCALES ACROSS THE HUMAN CORTEX
Benjamin Staar, Alberto Bernacchia, Bremen
- T26-7A** COMPUTATIONAL CHARACTERIZATION OF AXON CARRYING DENDRITES CELLS: ELECTROPHYSIOLOGICAL PROPERTIES AND SYNAPTIC INTEGRATION
Antonio Yanez, Alexei V. Egorov, Tobias Rau, Christian Thome, Andreas Draguhn, Martin Both, Heidelberg
- T26-8A** COMPUTATIONAL MODELING OF LTP AND CONCURRENT 'HETEROSYNAPTIC' LTD IN THE DENTATE GYRUS IN VIVO
Peter Jedlicka, Lubica Benuskova, Wickliffe C. Abraham, Frankfurt

Thursday

- T26-1B** EFFECT OF ALZHEIMER DISEASE ON THE DYNAMICAL AND COMPUTATIONAL CHARACTERISTICS OF RECURRENT NEURAL NETWORKS
Claudia Bachmann, Tom Tetzlaff, Susanne Kunkel, Abigail Morrison, Jülich
- T26-2B** EFFECTS OF NEURONAL DIVERSITY ILLUSTRATED BY CURRENT- AND VOLTAGE-CLAMP EXPERIMENTS IN A VIRTUAL LABORATORY
Aubin Tchaptchet, Hans Albert Braun, Marburg
- T26-3B** EFFICIENT CODING OF REWARDS IN STRATEGIC DECISION-MAKING
Florin Ionita, Alberto Bernacchia, Bremen

- T26-4B** FROM RANDOMLY CONNECTED TO SPATIALLY ORGANIZED MULTI-LAYERED CORTICAL NETWORK MODELS
Johanna Senk, Espen Hagen, Sacha van Albada, Markus Diesmann, Jülich
- T26-5B** FUNCTIONAL ROLE OF OPPONENT, DOPAMINE MODULATED D1/D2 PLASTICITY IN REINFORCEMENT LEARNING
Philipp Weidel, Abigail Morrison, Jenia Jitsev, Jülich
- T26-6B** GENETIC NETWORKS SPECIFYING THE FUNCTIONAL ARCHITECTURE OF ORIENTATION DOMAINS IN V1
Joscha Liedtke, Fred Wolf, Göttingen
- T26-7B** HYBRID SCHEME FOR MODELING LOCAL FIELD POTENTIALS FROM POINT-NEURON NETWORKS
Espen Hagen, David Dahmen, Maria L. Stavrinou, Henrik Lindén, Tom Tetzlaff, Sacha van Albada, Markus Diesmann, Sonja Grün, Gaute T. Einevoll, Jülich
- T26-8B** IMPACT OF PARAMETRIC UNCERTAINTIES IN COMPUTATIONAL MODELS FOR DEEP BRAIN STIMULATION
Christian Schmidt, Ursula van Rienen, Rostock

Friday

- T26-1C** IMPAIRED HOMEOSTATIC REGULATION OF FEEDBACK INHIBITION ASSOCIATED WITH SYSTEM DEFICIENCY TO DETECT FLUCTUATION IN STIMULUS INTENSITY: A SIMULATION STUDY
Faramarz Faghihi, Ahmed Moustafa, Fairfax, USA
- T26-2C** INTEGRATING TOUCH AND VISION IN STICK INSECTS AND INSECTOID ROBOTS
Thierry Hoinville, Nalin Harischandra, Volker Dürr, Bielefeld
- T26-3C** LABILITY AND CONSTANCY OF ORIENTATION TUNING IN THE VISUAL CORTEX DEPENDS ON THE FUNCTIONAL ARCHITECTURE
Juan Daniel Florez Weidinger, Wolfgang Keil, Siegrid Löwel, Fred Wolf, Göttingen
- T26-4C** MESOSCOPIC POPULATION DYNAMICS OF SPIKING NEURONS DERIVED FROM SINGLE CELL PROPERTIES
Tilo Schwalger, Moritz Deger, Wulfram Gerstner, Lausanne, Switzerland
- T26-5C** NEURONAL MORPHOLOGY AND SPIKE ONSET RAPIDNESS MODULATE THE DYNAMIC GAIN IN CULTURED HIPPOCAMPAL NEURONS
Elinor Lazarov, Michael Gutnick, Fred Wolf, Andreas Neef, Göttingen
- T26-6C** ONLINE PARAMETER ESTIMATION USING GPU SUPER-COMPUTING
Thomas Nowotny, Brighton, United Kingdom
- T26-7C** SHAPING PHASE SPACE OF NEURAL NETWORKS VIA CONNECTIVITY
Maximilian Schmidt, Jannis Schuecker, Markus Diesmann, Moritz Helias, Jülich



- T26-8C** STATE DEPENDENT MODULATION OF DOPAMINE FUNCTION IN THE STRIATUM
Marko Filipovic, Lars Hunger, Kai Du, Jeanette Hellgren-Kotaleski, Gilad Silberberg, Robert Schmidt, Arvind Kumar, Freiburg

Saturday

- T26-1D** STATISTICAL ASSESSMENT AND NEURONAL COMPOSITION OF ACTIVE SYNFIRE CHAINS
Carlos Canova, Emiliano Torre, Michael Denker, George Gerstein, Sonja Grün, Jülich
- T26-2D** SYNAPTIC CONSOLIDATION OF COMPETITION
Yinyun Li, Florentin Woergoetter, Christian Tetzlaff, Göttingen
- T26-3D** SYNAPTIC PLASTICITY MAXIMIZES INFORMATION IN RECURRENT NEURAL CIRCUITS
Dong Li, Alberto Bernacchia, Bremen
- T26-4D** THE EFFECT OF HETEROGENEITY ON DECORRELATION MECHANISMS IN SPIKING NEURAL NETWORKS: A NEUROMORPHIC-HARDWARE STUDY
Jakob Jordan, Thomas Pfeil, Tom Tetzlaff, Andreas Grübl, Johannes Schemmel, Markus Diesmann, Karlheinz Meier, Jülich
- T26-5D** THE RAT CONNECTOME: ALL KNOWN CONNECTIONS OF THE RAT NERVOUS SYSTEM IN ONE DATABASE
Oliver Schmitt, Peter Eipert, Ann-Christin Klünker, Jennifer Meinhardt, Adrian Karnitzki, Felix Lessmann, Julia Beier, Kanar Kadir, Jörg Jenssen, Lena Kuch, Andreas Wree, Rostock
- T26-6D** THE TRANSFER FUNCTION OF THE LIF MODEL: A REDUCTION FROM COLORED TO WHITE NOISE
Jannis Schücker, Markus Diesmann, Moritz Helias, Jülich
- T26-7D** TONIC CONDUCTANCE CHANGES IN THE CENTRAL AMYGDALA INFLUENCE FEAR GENERALIZATION
Martin Angelhuber, Paolo Botta, Andreas Luthi, Ad Aertsen, Arvind Kumar, Freiburg
- T26-8D** ULTRA-FAST RESPONSE TO EXTERNAL ELECTRIC PULSES EXPLAINED BY NEURAL MORPHOLOGY
Andreas Neef, Göttingen

T27: Techniques and demonstrations

Wednesday

- T27-1A** A FLUORESCENT MOLECULE FROM MARINE SPONGES AND ITS SYNTHETIC DERIVATIVES USED FOR LIVE IMAGING OF NEURONS, TISSUES AND ORGANISMS
Ulf Bickmeyer, Thorsten Mordhorst, Bremerhaven

- T27-2A** A LARGE-SCALE METHOD FOR ESTABLISHING ZEBRAFISH NEURONAL CELL CULTURES
Georg Welzel, Daniel Seitz, Stefan Schuster, Bayreuth
- T27-3A** ANALYSIS OF Ca^{2+} HANDLING PROPERTIES: PERFORATED PATCH CLAMP RECORDINGS MEET THE ADDED BUFFER APPROACH
Simon Hess, Martin E. Hess, Christophe Pouzat, Jens C. Brüning, Peter Kloppenburg, Cologne
- T27-4A** ANALYSIS OF CIRCADIAN REGULATION OF GENE EXPRESSION IN CNS MICROVASCULAR ENDOTHELIAL CELLS
Jochen Ohnmacht, Markus Schwaninger, Lübeck
- T27-5A** BAYESIAN MODELLING OF LOCUST BEHAVIOUR USING BAYSIG
Peter Sutovsky, Swidbert R. Ott, Tom Nielsen, Tom Matheson, Leicester, United Kingdom
- T27-6A** CHARACTERIZATION OF THE STIMULI DELIVERED BY THE FLY MIND-ALTERING DEVICE (FLYMAD)
Dorothea Hörmann, John R. Stowers, Andreas Poehlmann, Andrew D. Straw, Vienna, Austria
- T27-7A** DETECTING TEMPORAL MODULATION OF HIGHER-ORDER CORRELATIONS BASED ON PAIRWISE CORRELATION MEASURES
Vahid Rostami, Junji Ito, Emiliano Torre, Pietro Quaglio, Moritz Helias, Sonja Grün, Jülich
- T27-8A** DRUG EXPOSURE IN PLASMA, CSF AND BRAIN: A PHARMACOKINETIC COMPARISON STUDY IN RATS AND CYNOMOLGUS MONKEY
Marcel van Gaalen, Joost Folgering, Jane S. Sutcliffe, Christina Schlumbohm, Bob E. Stratford, Thomas I. Cremers, Göttingen

Thursday

- T27-1B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF INDIVIDUAL NEURONS IN SPARSE CORTICAL CULTURES
Anne Sinning, Keiko Weir, Oriane Blanquie, Werner Kilb, Heiko J. Luhmann, Mainz
- T27-2B** ELEPHANT: AN OPEN-SOURCE TOOL FOR THE ANALYSIS OF ELECTROPHYSIOLOGICAL DATA SETS
Michael Denker, Alper Yegenoglu, Detlef Holstein, Emiliano Torre, Todd Jennings, Andrew Davison, Sonja Grün, Jülich
- T27-3B** ESTIMATING THE POSITION OF ACTIVE NEURONS WITH MULTICHANNEL MICROELECTRODES
Martin Nguyen, Christopher Doerr, Thomas Schanze, Giessen
- T27-4B** EXCEPTIONALLY WELL PRESERVED CENTRAL NERVOUS SYSTEM IN AN EARLY CAMBRIAN ARTHROPOD
Yu Liu, George S. Boyan, Jie Yang, Xiguang Zhang, Martinsried



- T27-5B** FREELY VIBRATING NANOSTRUCTURED SCAFFOLDS AS A NOVEL ASSAY TO INVESTIGATE MECHANICAL PROPERTIES OF RETINAE
Saddam Mayazur Rahman, Andreas Reichenbach, Stefan G. Mayr, Mareike Zink, Leipzig
- T27-6B** HEPTODES ARE SUPERIOR FOR SPIKE SORTING TO TETRODES: A SIMULATION STUDY
Christopher Doerr, Thomas Schanze, Giessen
- T27-7B** HIGH-RESOLUTION LOCALIZATION OF SYNAPTIC PROTEINS IN SOCIAL INSECT BRAINS
Thomas S. Muenz, Vivien Bauer, Christian Stigloher, Wolfgang Rössler, Würzburg

Friday

- T27-1C** HOW TO EFFICIENTLY ORGANIZE AND EXPLOIT METADATA OF COMPLEX ELECTROPHYSIOLOGICAL EXPERIMENTS
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- T27-2C** HYBRID VOLTAGE SENSOR IMAGING OF EGFP-F EXPRESSING NEURONS IN CHICKEN MIDBRAIN SLICES
Stefan Weigel, Tatiana Flisikowska, Angelika Schnieke, Harald Luksch, Freising
- T27-3C** IMAGING OF WHOLE-MOUNT SAMPLES WITH μM RESOLUTION USING LIGHT-WEDGE-MICROSCOPY
Ulrich Leischner, Jena
- T27-4C** SIMPLANTABLE, YET ADAPTIVE MULTI-ELECTRODE POSITIONING SYSTEM FOR BRAIN COMPUTER INTERFACE APPLICATIONS
Enrico Ferrea, Lalitta Suriya-Arunroj, Dirk Hoehl, Uwe Thomas, Alexander Gail, Göttingen
- T27-5C** LONG-TERM DECODING OF CONTINUOUS AND DISCRETE MOVEMENT PARAMETERS WITH A WIRELESS MYOELECTRIC IMPLANT
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- T27-6C** MODELLING BIOLOGICAL SIGNALS WITH BAYSIG
Kamal Abu Hassan, Thomas Nielsen, Emma Chung, Ronney Panerai, Nazia Saeed, Angela Salinet, Thompson G. Robinson, Thomas Matheson, Leicester, United Kingdom
- T27-7C** NEUROINFORMATICS FOR EFFICIENT DATA MANAGEMENT AND REPRODUCIBILITY IN ELECTROPHYSIOLOGY
Thomas Wachtler, Adrian Stoewer, Andrey Sobolev, Christian Kellner, Yann Le Franc, Jan Grewe, Martinsried

Saturday

- T27-1D** OBSCURED ARTIFACTS IN MULTI-ELECTRODE RECORDINGS AND THEIR INFLUENCE ON CORRELATION ANALYSIS
Julia Sprenger, Emiliano Torre, Vahid Rostami, Thomas Brochier, Alexa Riehle, Michael Denker, Sonja Grün, Jülich
- T27-2D** PHOTONIC MODULATION OF MEMBRANE POTENTIAL BY FLASH-LIGHT ILLUMINATION OF METALLIC BEADS
Navin K. Ojha, Jane C. Arifin, Martin Schink, Enrico Leipold, Stefan H. Heinemann, Jena
- T27-3D** POST-MORTEM MAGNETIC RESONANCE MICROSCOPY OF THE MURINE BRAIN AT 7 TESLA
Oliver von Bohlen und Halbach, Martin Lotze, Jörg Pfannmüller, Greifswald
- T27-4D** SIMULTANEOUS ELECTROPHYSIOLOGICAL ANALYSIS OF CIRCADIAN RHYTHMS OF THE CIRCADIAN PACE-MAKER CENTER, OF THE ELECTRORETINOGRAM, AND OF LEG MUSCLE ACTIVITY IN THE COCKROACH *RHYPAROBIA MADERAE*
El-Sayed Baz, Marcel Heim, Ildefonso Atienza López, Monika Stengl, Kassel
- T27-6D** TIME-DEPENDENT CELLULAR RESPONSE PROFILING OF AN IMMORTALIZED EMBRYONIC MURINE HIPPOCAMPAL CELL-LINE (MHIPPOE-14) FOR THE IN VITRO SIMULATION OF BRAIN DISEASES
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- T27-7D** TOWARDS SAFE OPTOGENETICS WITH GRAFTED CELL IMPLANTS: AN ALTERNATIVE METHOD TO THE DIRECT VIRUS DELIVERY OF THE OPSINS
Lisa-Marie Selesnew, Paul Schlanstein, Luciano Furlanetti, Yijing Xie, Volker A. Coenen, Ulrich Hofmann, Máté D. Döbrössy, Freiburg im Breisgau



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Program at a glance

	Tuesday	Time	Wednesday, 18	Thursday, 19	Friday, 20	Saturday, 21
		8:00 - 9:00		Registration	Registration	Registration
		9:00 - 10:00		Award Lectures	N. Elsner Lecture	Symposia VI S29 - S34
		10:00 - 11:00		Posters B odd numbers Posters B even numbers	Posters C odd numbers Posters C even numbers	Posters D odd numbers Posters D even numbers
		11:00 - 12:00		Symposia II S7 - S12	Symposia IV S18 - S24	Lunch Break
		12:00 - 13:00	Opening Lecture			Ernst Florey Lecture
		13:00 - 14:00	Posters A odd numbers Posters A even numbers	Assembly NWG	Lunch Break	Posters D odd numbers Posters D even numbers
Satellites		14:00 - 15:00				
		15:00 - 16:00	Symposia I S1 - S6	Symposia III S13 - S17	Symposia V S25 - S28/2	Otto Creutzfeldt Lecture
		16:00 - 17:00	Posters A odd numbers Posters A even numbers	Posters B odd numbers Posters B even numbers	Posters C odd numbers Posters C even numbers	
		17:00 - 18:00	Registration	Posters B odd numbers Posters B even numbers	Posters C odd numbers Posters C even numbers	
		18:00 - 19:00	Buffet	Buffet	Buffet	
		19:00 - 20:00	Zülch Lecture	Hertie Foundation Lecture	Roger Eckert Lecture	
		20:00 - 21:00				
		21:00 - 22:00				

10th FENS Forum of Neuroscience

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