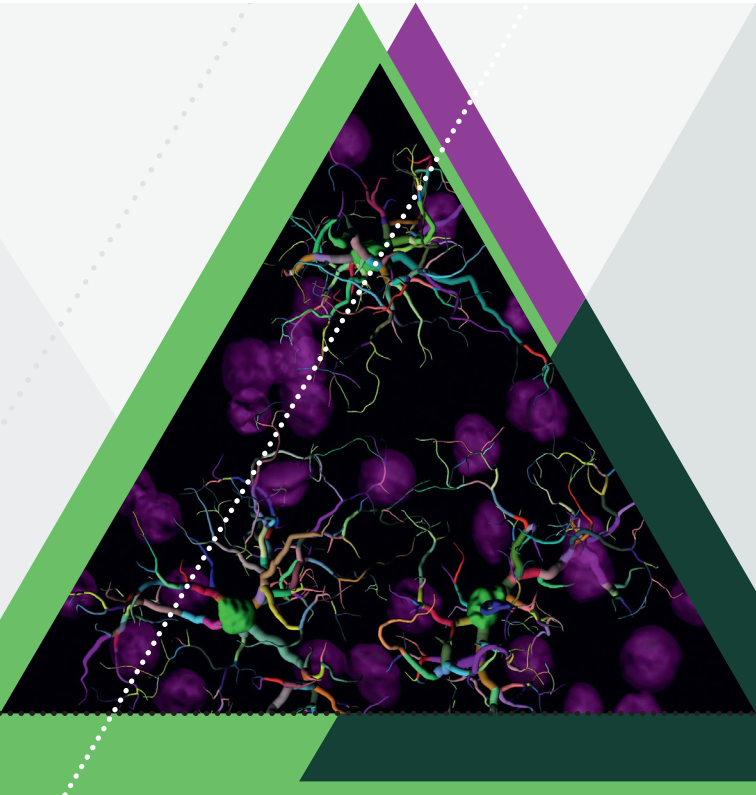


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German Neuroscience Society

March 22–25, 2017

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CONFERENCE

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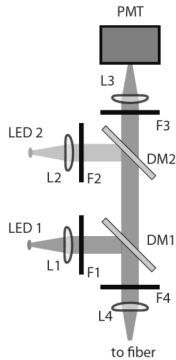


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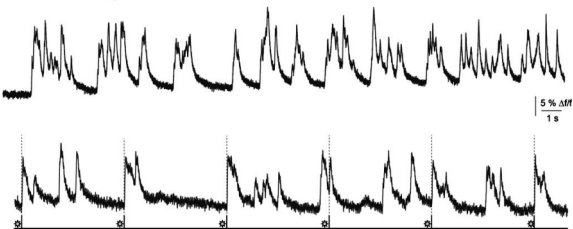


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Welcome Address

Welcome to the 12th Göttingen meeting of the German Neuroscience Society which, in fact, is the 36th Göttingen Neurobiology Meeting, which long before the German Neuroscience Society was founded, was created by the late Otto Creutzfeldt (1927 – 1992) together with Ernst Florey (1927 – 1997). The intention was to provide a platform for all those interested in topics of neuroscience and to mix scientists from the field of biology and medicine, and to also mingle those working in basic neuroscience with those working in clinical neuroscience, in 1973 a truly visionary idea. We are proud that the German Neuroscience Society still keeps this tradition, and we fully value the important role of the late Norbert Elsner (1940-2011) in maintaining this tradition in accompanying the transition from a purely voluntary meeting of interested scientists to a biannual meeting of the German Neuroscience Society. We are also very grateful to the present local organizers who still keep this tradition. Since its beginning 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.

This year we received an exceptionally high number of symposium proposals, leaving the Program Committee with the difficult task of making a selection from all these high ranking suggestions but being an indication of the attractiveness of this meeting. 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. 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 is known for its lively atmosphere largely due to the participation and important contributions by young scientists. We have received approx. 750 poster submissions which are first authored by young scientists. Again, we had encouraged students to participate with an oral presentation and have reserved special slots for them in each symposium. In addition, despite of the high number of excellent symposium proposals, we kept one "Breaking News Session" to also give young scientists the opportunity of an oral presentation. We thank all these young scientists for their interest in the meeting and their invaluable contributions.

Other features of the Göttingen meeting are the Schram Foundation Satellite Symposium prior to the meeting and this year two more satellite symposia, one on „Integrative analysis of olfaction“, and one on „Brain in a dish“ - explant and stem cell models of neurodegenerative diseases“, the Publishing Workshop on how to successfully submit a paper for publication, the workshop on communicating animal research and the DFG-workshop on how to start a scientific career.

We would also like to sincerely thank all sponsors and, in particular, our commercial partners who exhibit in the hall. Without their generous support many amenities and „hallmarks“ of the meeting such as the free buffets in the evening would not have been possible! We are also very grateful to the University of Göttingen for providing the venue for the meeting and in particular the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG), whose continuous financial support is gratefully acknowledged and allowed us to invite many internationally renowned scientists.

This meeting would not be successful without the enormous engagement of the local organizing team. Therefore, very 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.

The full contents of the meeting, including abstracts will be provided again on CD, as a citable supplement to the society's journal *Neuroforum*.

Finally, we would like to remind you that the Göttingen meeting is biannual and alternates with the FENS Forum, which will return to Berlin in 2018 hosted by the German Neuroscience Society. We would like to encourage you to contribute to this large-scale European neuroscience meeting as well and hope that you will support the Berlin conference (July 7-11, 2018). We hope to see you there, and at *the next meeting of the German Neuroscience Society on March 20 to 23, 2019*.

Enjoy the meeting in all its aspects, posters, talks, symposia, scientific discussions, new equipment, new technologies, but also do not forget the humane aspects of such a meeting - in meeting friends, making new contacts and, in general, enjoy the great atmosphere.



Prof. Dr. Hans-Joachim Pflüger
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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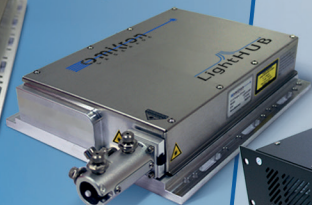
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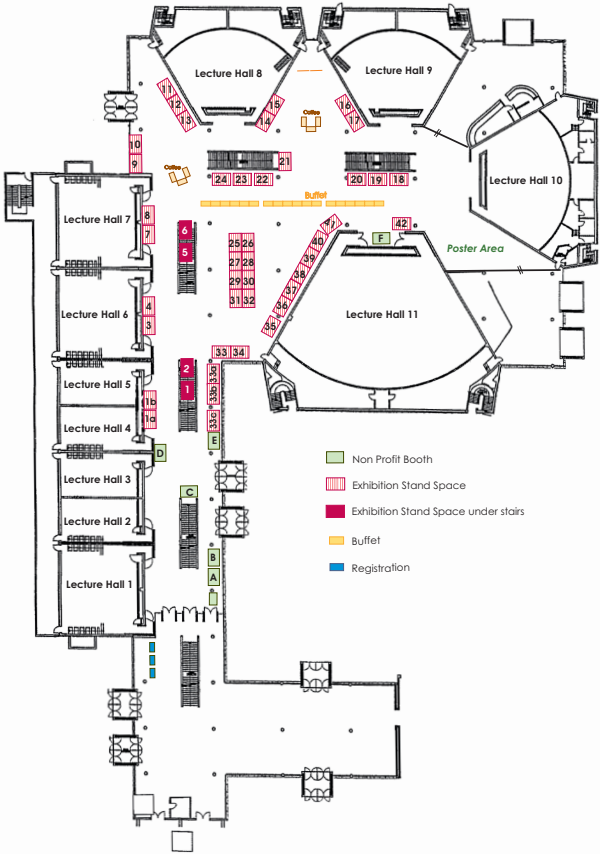
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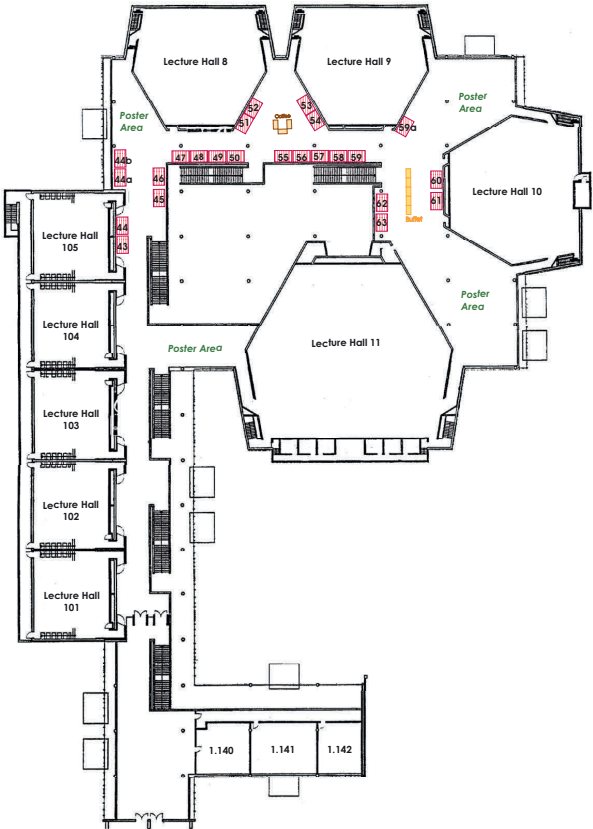


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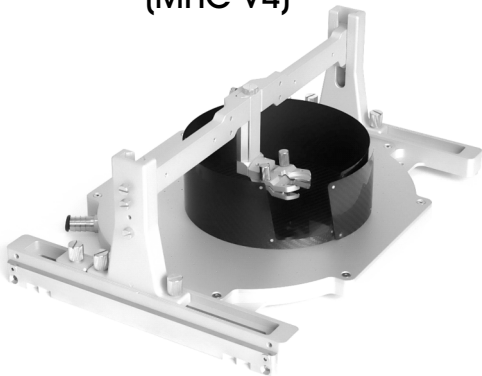
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This prize is awarded by the German Neuroscience Society for outstanding contributions to the development of new technologies in the field of brain research. The prize money is donated by the FEI Munich Company in Gräfelfing.

This award supports young researchers up to the age of 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 Conference of the German Neuroscience Society in Göttingen.

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Schilling-Research Award of the German Neuroscience Society 2017

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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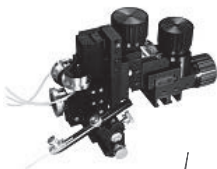
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Travel grants from the German Neuroscience Society

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- Sathyanarayanan, Ranganayaki (Bangalore, India)
- Tsitoura, Chryssanthi (Aachen, Germany)
- Ziegart-Sadowska, Karolina (Warsaw, Poland)







Young Investigator Orals in a Symposium

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

The following students/young postdocs were selected to give a short communication:

- Thordis Arnold (Kassel, Germany) – Symposium 8
Katharina Beer (Würzburg, Germany) – Symposium 16
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Paraskevi Bessa (Berlin, Germany) – Symposium 4
Antje Birkner (Munich, Germany) – Symposium 30
Oriane Blanquie (Mainz, Germany) – Symposium 35
Carmen V. Bohn (Homburg, Germany) – Symposium 28
Tanvi Butola (Göttingen, Germany) – Symposium 11
Niklas Byczkowicz (Leipzig, Germany) – Symposium 14
Esin Candemir (Frankfurt am Main, Germany) – Symposium 2
Hanna Cholé (Gif-sur-Yvette, France) – Symposium 17
Franziska M. Collmann (Cologne, Germany) – Symposium 5
Antoine Couto (Gif-sur-Yvette, France) – Symposium 27
Sophie Dithmer (Berlin, Germany) – Symposium 31
Katharina Eichler (Ashburn, USA) – Symposium 23
Sarah Förster (Cambridge, UK) – Symposium 34
Katrin Franke (Tübingen, Germany) – Symposium 33
Sindhuja Gowrisankaran (Göttingen, Germany) – Symposium 3
Jennifer Heck (Magdeburg, Germany) – Symposium 26
Stefan Hirschberg (Bristol, UK) – Symposium 29
Anemari Horvat (Ljubljana, Slovenia) – Symposium 7
Ina Hübener (Marburg, Germany) – Symposium 27
Juliane Jäpel (Martinsried, Germany) – Symposium 35
Florian Jetter (Reutlingen, Germany) – Symposium 33
Gretel Betiana Kamm (Heidelberg, Germany) – Symposium 29
Jens Gerrit Klinzing (Tuebingen, Germany) – Symposium 21
Andrea Mendez Torrijos (Erlangen, Germany) – Symposium 5
Susann Michanski (Göttingen, Germany) – Symposium 11
Anton Miroshnikow (Bonn, Germany) – Symposium 23
Franziska Oschmann (Berlin, Germany) – Symposium 7
Angela O'Sullivan (Aarhus, Denmark) – Symposium 36
Najwa Ouali Alami (Ulm, Germany) – Symposium 22



- Alina Peter (Frankfurt/Main, Germany) – Symposium 12
Oscar A. Retana (Heidelberg, Germany) – Symposium 13
Laura Schlosser (Homburg, Germany) – Symposium 28
Frank K. Schubert (Würzburg, Germany) – Symposium 20
Carsten Slotta (Bielefeld, Germany) – Symposium 34
Laura Spindler (Mainz, Germany) – Symposium 19
Georgios Spyropoulos (Frankfurt/Main, Germany) –
Symposium 12
Jennifer Stefani (Frankfurt, Germany) – Symposium 3
Thomas Stolz (Cologne, Germany) – Symposium 36
Aarti Swaminathan (Berlin, Germany) – Symposium 25
Chryssanthi Tsitoura (Aachen, Germany) – Symposium 10
Suzanne van der Veldt (Berlin, Germany) – Symposium 18
Albrecht Vorster (Tübingen, Germany) – Symposium 21
Lutz Wallhorn (Aachen, Germany) – Symposium 1
Barbara Wieners (Bonn, Germany) – Symposium 4
Jens Wilting (Göttingen, Germany) – Symposium 10
Qing You (Magdeburg, Germany) – Symposium 31

Young Investigator Orals in the Breaking News

The following students were selected to give a short communication:

- Olga Babaev (Göttingen, Germany) – Symposium 24
Malte Bieler (Hamburg, Germany) – Symposium 24
Roland Ferger (Aachen, Germany) – Symposium 24
Pauline N. Fleischmann (Würzburg, Germany) – Symposium 24
Christos Galanis (Düsseldorf, Germany) – Symposium 24
Franziska E. Müller (Hannover, Germany) – Symposium 24
Sandra Richter (Magdeburg, Germany) – Symposium 24
Irene Sanchez-Brualla (Marseille, France) – Symposium 24
Luan Castro Tonelli (Marburg, Germany) – Symposium 24
Ankita Ravi Vaswani (Bonn, Germany) – Symposium 24



Committees and Organization

Program Committee

Hans-Joachim Pflüger
(Chair)
Ansgar Büschges
Herta Flor
Charlotte Förster
Eckhard Friauf
Martin Göpfert
Gerd Kempermann
Matthias Kneussel
Michael Koch
Albert Ludolph
Tobias Moser
Erwin Neher
Christine Rose
Stefan Rotter
Christian Steinhäuser

Scientific Organization

Hans-Joachim Pflüger
Freie Universität Berlin
Institute for Biology - Neurobiology

Local Organization

Martin Göpfert
University of Göttingen
Cellular Neurobiology
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NWG Office

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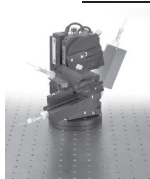
Homepage

www.nwg-goettingen.de

Scientifica

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General Information

Venue

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

Conference Office

During the meeting the conference office is open on Wednesday (March 22), Thursday (March 23) and Friday (March 24) 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

E-Mail: korthals@mdc-berlin.de

Exhibition

The exhibition is open on Wednesday, March 22 from 12 p.m. to 7 p.m., on Thursday, March 23, from 9 a.m. to 7 p.m. and on Friday, March 24 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 as well as from the train station.

Bus lines in front of the train station, platform D to the Campus are No. 21 and 23. The bus stops are called Platz der Göttinger Sieben, Blauer Turm.

Bus lines from the City Center (Weender Str. Ost) to the Campus are No. 22, 91 and 92. The bus stops are called Auditorium, Campus.

Registration

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

Registration fee ALL days:

EUR 160 - GNS or FENS **members**

EUR 240 - **non-members**

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

EUR 160 - **student non-members**

Registration fee PER day:

EUR 40 - GNS or FENS **members**

EUR 60 - **non-members**

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

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
- buffet with food and drinks at the meeting site on Wednesday, Thursday and Friday evening
- 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.

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 130).

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 22, 2017

(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 18:00)

Posters with numbers containing B

Thursday, March 23, 2017

(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 24, 2017

(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 25, 2017

(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/2017) 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.com

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

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Neuro-Party

Thursday, March 23rd

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scientific

program

at

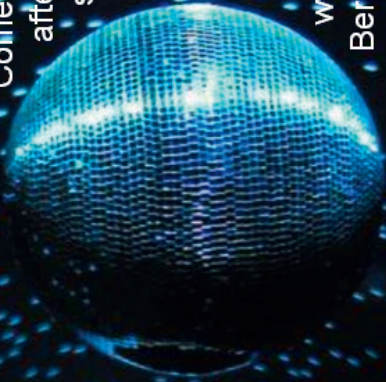
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Savoy Club

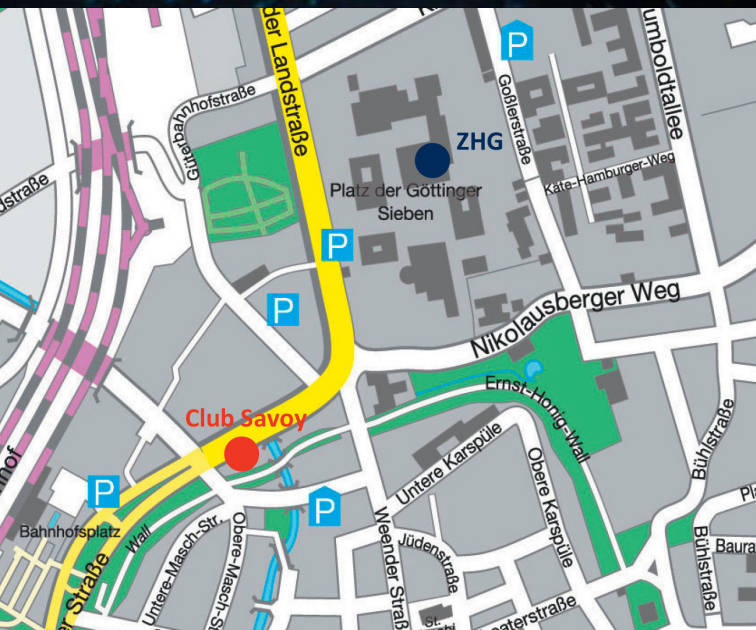
Göttingen

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



Scientific Program

Tuesday, March 21, 2017

- 13:00 - 19:00 *Satellite Symposium (Sat1), Lecture hall of MPI for Experimental Medicine*
5th Schram Foundation Symposium
„New insights into brain function“
Chairs: Aysel Yarali and Oliver Schlüter, Magdeburg and Göttingen/Pittsburgh (USA)
- 12:00 - 19:25 *Satellite Symposium (Sat2), ZHG, Georg-August-University Göttingen, Hall 103*
SPP Integrative analysis of olfaction
Chair: Giovanni Galizia, Konstanz

Wednesday, March 22, 2017

- 09:00 - 12:00 *Satellite Symposium (Sat3), ZHG, Georg-August-University Göttingen, Hall 102*
GBM Study Group 'Molecular Neurobiology' „Brain in a dish“ - explant and stem cell models of neurodegenerative diseases
Chairs: Roland Brandt and Rolf Heumann, Osnabrück and Bochum
- 12:00 - 13:00 **Plenary Lecture, Hall 11**
 Opening Lecture
M. Charles Liberman, Harvard (USA)
Hidden hearing loss: primary neural degeneration in the noise-damaged and aging cochlea
Chair: Hans-Joachim Pflüger, 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 105*
Olfactory processing and behavior across the vertebrate/insect divide: communalities and differences
Chairs: Giovanni C. Galizia and Sigrun Korsching, Konstanz and Cologne



- 14:30 - 16:30 *Symposium 2, Hall 9*
Mechanisms of neuronal and synaptic plasticity in epilepsy
Chairs: Jochen Meier and Günter Schwarz, Braunschweig and Cologne
- 14:30 - 16:30 *Symposium 3, Hall 104*
Molecular mechanisms of cargo and organelle transport in neurons
Chairs: Marina Mikhaylova and Wolfgang Wagner, Hamburg
- 14:30 - 16:30 *Symposium 4, Hall 8*
Neuronal circuit wiring in development
Chairs: Victor Tarabykin and Christian Rosenmund, Berlin
- 14:30 - 16:30 *Symposium 5, Hall 10*
Trends in small-animal neuroimaging: assessing functional connectivity of the whole brain
Chairs: Andreas Hess and Jürgen Goldschmidt, Erlangen and Magdeburg
- 14:30 - 16:30 *Symposium 6, Hall 102*
Facets of spatial information processing
Chairs: Denise Manahan-Vaughan and Kate Jeffery, Bochum and London
- 16:30 - 17:00 **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
Elly Nedivi, Cambridge (USA)
Visualizing synapse structural dynamics in vivo
Chair: Christine R. Rose, Düsseldorf

Thursday, March 23, 2017

- 9:00 - 10:00 **Awarding and Lectures, Hall 11**
 9:00 - 9:30 Schilling Award Lecture
David Oswald, Berlin (Germany)
Synapses. Memories. On the fly.
Chair: Wolfgang Rössler, Würzburg

- 9:30 - 10:00 **FEI Technology Award Lecture**
Philipp Berens, Tübingen (Germany)
**Towards a complete parts list:
 Multimodal data science in the retina**
Chair: Martin Greschner, Oldenburg
- 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 104*
Calcium homeostasis in neuroinflammation and -degeneration: new targets for therapy of multiple sclerosis?
Chairs: Ricarda Diem and Sarah Williams, Heidelberg
- 11:30 - 13:30 *Symposium 8, Hall 105*
Neuronal circuits underlying biological timekeeping
Chairs: Pamela Menegazzi, Dirk Rieger and Koustubh Vaze, Würzburg
- 11:30 - 13:30 *Symposium 9, Hall 9*
Correlating synaptic structure and plasticity at the nanoscale
Chairs: Benjamin Cooper and Cordelia Imig, Göttingen
- 11:30 - 13:30 *Symposium 10, Hall 10*
How single neuron properties determine network dynamics
Chairs: Andreas Draguhn and Hannah Monyer, Heidelberg
- 11:30 - 13:30 *Symposium 11, Hall 102*
How hearing happens: speed, precision and sensitivity
Chairs: Jutta Engel and Eckhard Friauf, Homburg and Kaiserslautern
- 11:30 - 13:30 *Symposium 12, Hall 101*
Structural and functional implementation of bottom-up and top-down influences in the primate brain
Chairs: Julien Vezoli and Georgios Michalareas, Frankfurt/Main
- 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 103 and 1.141 (interviews)
Anna Christa, Anke Ley and Andreas Görlich, Bonn
Starting your research career - DFG funding programmes and application procedures
- 13:30 - 14:30 **Workshop on communicating animal research, Hall 4**
Stefan Treue and Roman Stilling, Göttingen and Münster
Animal experiments - Transparency and communication about an emotional topic
- 14:30 - 16:30 **Symposia III (S13 - S18)**
 14:30 - 16:30 *Symposium 13, Hall 105*
Neural circuits of pain
Chair: Rohini Kuner, Heidelberg
- 14:30 - 16:30 *Symposium 14, Hall 9*
Tuning ion channels, myelin, and synapses for rapid axonal signaling
Chair: Stefan Hallermann, Leipzig
- 14:30 - 16:30 *Symposium 15, Hall 101*
Emerging complexity and functions of microRNAs-dependent regulation in neuroscience
Chairs: Davide de Pietri Tonelli, Gerhard Schratt, Hermona Soreq and Carlos Fitzsimons, Genoa (Italy), Marburg, Jerusalem (Israel) and Amsterdam (The Netherlands)
- 14:30 - 16:30 *Symposium 16, Hall 104*
The evolutionary diversity of nervous system development - from worms to humans
Chairs: Nico Posnien and Max Stephen Farnworth, Göttingen
- 14:30 - 16:30 *Symposium 17, Hall 102*
Experience-dependent plasticity in chemosensation
Chairs: Ricarda Scheiner and Sylvia Anton, Würzburg and Angers (France)
- 14:30 - 16:30 *Symposium 18, Hall 8*
Computations - from sensations to decisions
Chairs: Markus Rothmel and Wolfgang Kelsch, Aachen and Mannheim

- 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
Winrich Freiwald, New York (USA)
The dual face vision's inroad into the social brain
 Chair: *Stefan Treue, Göttingen*

Friday, March 24, 2017

- 9:00 - 10:00 **Plenary Lecture, Hall 11**
 Norbert Elsner Lecture
Uwe Homberg, Marburg (Germany)
Neurobiology of sky compass orientation in insects
 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 (S19 - S24)**
 11:30 - 13:30 *Symposium 19, Hall 8*
Epigenetic mechanisms of behavior and physiological regulation
 Chairs: *Aron Weller and Noam Meiri, Ramat Gan and Bet Dagan (Israel)*
- 11:30 - 13:30 *Symposium 20, Hall 105*
Common ground plan of the insect brain architecture
 Chairs: *Kei Ito and Ansgar Büschges, Cologne*
- 11:30 - 13:30 *Symposium 21, Hall 10*
System memory consolidation during sleep
 Chairs: *Til Ole Bergmann and Jan Born, Tübingen*
- 11:30 - 13:30 *Symposium 22, Hall 104*
From monocytes to microglia - conditions influencing the fate of myeloid cells in the brain
 Chairs: *Josef Priller and Marco Prinz, Berlin and Freiburg*



- 11:30 - 13:30 *Symposium 23, Hall 9*
**Comparative connectomics:
 recent approaches and functional
 implications**
*Chair: Andreas Thum and Michael
 Pankratz, Konstanz and Bonn*
- 11:30 - 13:30 *Symposium 24, Hall 102*
Breaking News
Chair: Marc Spehr, Aachen
- 13:30 - 14:30 **Lunch Break**
- 13:30 - 14:30 **Publishing Workshop, Hall 103**
*Helmut Kettenmann and Heiko Luhmann,
 Berlin and Mainz*
**How to publish in neuroscience
 journals?**
- 14:30 - 16:30 **Symposia V (S25 - S30)**
 14:30 - 16:30 *Symposium 25, Hall 9*
**Spike timing-dependent plasticity:
 from functions in circuits towards
 possible treatment of humans**
*Chairs: Elke Edelman and Volkmar
 Leßmann, Magdeburg*
- 14:30 - 16:30 *Symposium 26, Hall 105*
**New insights into functional and
 molecular dynamics of presynaptic
 calcium channels**
*Chairs: Anna Fejtová and Martin Heine,
 Erlangen and Magdeburg*
- 14:30 - 16:30 *Symposium 27, Hall 8*
**The neuroscience of good and evil:
 translational insights into pro- and
 antisocial decision-making**
*Chairs: Trynke de Jong and Marijn van
 Wingerden, Regensburg and Düsseldorf*
- 14:30 - 16:30 *Symposium 28, Hall 104*
**Glia - all the same? Increasing
 evidence for glial heterogeneity**
*Chairs: Stephanie Griemsmann and
 Felix Beyer, Düsseldorf*
- 14:30 - 16:30 *Symposium 29, Hall 102*
To eat? To sleep? To run?
**Coordination of innate behaviors
 by hypothalamic circuits**
*Chairs: Tatiana Korotkova and Antoine
 Adamantidis, Berlin and Bern (Switzerland)*

- 14:30 - 16:30 *Symposium 30, Hall 10*
Illuminating normal and diseased brain function with in vivo fluorescence imaging
Chair: Mark Schnitzer and Arthur Konnerth, Munich
- 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
David Julius, San Francisco (USA)
Natural products as probes of the pain pathway: from physiology to atomic structure
Chair: Erwin Neher, Göttingen

Saturday, March 25, 2017

- 8:30 - 10:30 **Symposia VI (S31 - S36)**
 8:30 - 10:30 *Symposium 31, Hall 105*
Transport mechanisms at the blood-brain barrier
Chairs: Petra Henrich-Noack, Ingolf E. Blasig and Gert Fricker, Magdeburg, Berlin and Heidelberg
- 8:30 - 10:30 *Symposium 32, Hall 102*
The longitudinal course of psychosis - clinical and neurobiological aspects
Chairs: Peter G. Falkai and Thomas G. Schulze, Munich
- 8:30 - 10:30 *Symposium 33, Hall 104*
The multiple neural codes of the retina
Chairs: Martin Greschner and Tim Gollisch, Oldenburg and Göttingen
- 8:30 - 10:30 *Symposium 34, Hall 103*
Glial cells in de- and remyelination
Chairs: Ralf Linker and Martin Stangel, Erlangen and Hannover



- 8:30 - 10:30 *Symposium 35, Hall 10*
Use it or lose it - cellular and molecular mechanisms of synapse remodeling in developmental plasticity
Chairs: Siegrid Löwel and Oliver Schlüter, Göttingen and Pittsburgh (USA)
- 8:30 - 10:30 *Symposium 36, Hall 101*
Novel local mechanisms of motor control
Chairs: Joachim Schmidt and Abdel El Manira, Cologne and Stockholm (Sweden)
- 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
Detlev Arendt, Heidelberg (Germany)
Evolution of neurons and nervous systems: a cell type perspective
Chair: Ansgar Büschges, Cologne
- 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
Monica Di Luca, Milan (Italy)
Encoding synaptic signals into gene expression: a role in brain physiology and diseases
Chair: Eckhard Friauf, Kaiserslautern
- 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 *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* für Mitglieder kostenlos auch online in englischer Version bei de Gruyter.

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 Meinungs austausch aufgefordert.

Stipendien

Die Gesellschaft stellt Stipendien für Studenten, Doktoranden und junge Wissenschaftler für die Teilnahme an der eigenen Tagung, für FENS Tagungen sowie für ausgewählte andere Veranstaltungen 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

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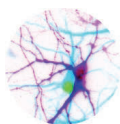
Die Neurowissenschaftliche Gesellschaft e.V. vertritt deutsche Neurowissenschaftler in der IBRO, ist Gründungsmitglied der Federation of European Neuroscience Societies (FENS) und vertritt die nationalen Interessen in der FENS.

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.

German Neuroscience Society

Neurowissenschaftliche Gesellschaft e.V. (NWG)



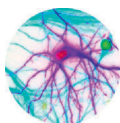
Vorstand der Amtsperiode 2017 - 2019:

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Vizepräsident: Prof. Dr. Albert Ludolph

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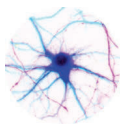
Molekulare Neurobiologie: Prof. Dr. Matthias Kneussel

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Robert-Roessle-Str. 10 | 13092 Berlin-Buch

Tel.: 030 9406 3336 | Fax: 030 9406 2813

Email: gibson@mdc-berlin.de | korthals@mdc-berlin.de



Plenary Lectures

M. Charles Liberman, Harvard (USA)

- Opening Lecture -

Hidden hearing loss: primary neural degeneration in the noise-damaged and aging cochlea (P1)

Wednesday, March 22, 2017, 12:00 - 13:00 h

Elly Nedivi, Cambridge (USA)

- Zülch Lecture -

Visualizing synapse structural dynamics in vivo (P2)

Wednesday, March 22, 2017, 19:00 - 20:00 h

David Oswald, Berlin (Germany)

- Schilling Prize Lecture -

Synapses. Memories. On the fly. (P3)

Thursday, March 23, 2017, 9:00 - 9:30 h

Philipp Berens, Tübingen (Germany)

- FEI Technology Award Lecture -

Towards a complete parts list: multimodal data science in the retina (P4)

Thursday, March 23, 2017, 9:30 - 10:00 h

Winrich Freiwald, New York (USA)

- Hertie Foundation Lecture -

The dual face vision's inroad into the social brain (P5)

Thursday, March 23, 2017, 19:00 - 20:00 h

Uwe Homberg, Marburg (Germany)

- Norbert Elsner Lecture -

Neurobiology of sky compass orientation in insects (P6)

Friday, March 24, 2017, 9:00 - 10:00 h

David Julius, San Francisco (USA)

- Roger Eckert Lecture -

Natural products as probes of the pain pathway: from physiology to atomic structure (P7)

Friday, March 24, 2017, 19:00 - 20:00 h

Detlev Arendt, Heidelberg (Germany)

- Ernst Florey Lecture -

Evolution of neurons and nervous systems: a cell type perspective (P8)

Saturday, March 25, 2017, 12:30 - 13:30 h

Monica Di Luca, Milan (Italy)

- Otto Creutzfeldt Lecture -

Encoding synaptic signals into gene expression: a role in brain physiology and diseases (P9)

Saturday, March 25, 2017, 15:00 - 16:00 h

All plenary lectures will take place in hall 11.



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Workshop on communicating animal research

Animal experiments - Transparency and communication about an emotional topic

Stefan Treue and Roman Stilling, Göttingen and Münster

In September 2016, the Alliance of Science Organisations in Germany, representing the majority of publicly-funded research activities in Germany, launched a transparency initiative called *Tierversuche verstehen* (understanding animal experiments) to engage in open, transparent and fact-based communication with the public.

Tierversuche verstehen provides information on the necessity of responsible animal research, which is characterised by making informed decisions for animal welfare, acknowledging the benefits of scientific knowledge for man and also developing and using alternative methods.

Tierversuche verstehen also challenges the claims, rhetorics and actions of groups attempting to end use of animals in research and responds to media when the ethics and importance of research using animals is questioned.

Centrepiece of the initiative is the online platform www.tierversuche-verstehen.de but the initiative is also active on Twitter and has its own YouTube channel.

This information event will provide an overview of the current situation regarding the use of animals in neuroscience research. The topics will include:

- a presentation of the experiences and activities of the initiative *Tierversuche verstehen*
- the situation in Europe concerning communication and the state of the European Directive on animal research
- a discussion with the audience on current issues and on 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.

Workshop on communicating animal research

*Thursday, March 23, 2017
13:30 - 14:30, Lecture Hall 4*

*Chairs: Stefan Treue and Roman Stilling,
Göttingen and Münster*

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



Tierversuche verstehen
Eine Informationsinitiative der Wissenschaft



DFG Workshop

Thursday, March 23, 2017

13:30 - 14:30, Lecture Hall 103 and 1.141 (interviews)

Starting your research career - DFG funding programmes and application procedures

Anna Christa, Anke Ley, Andreas Görlich,
DFG Head Office, Bonn

This workshop is mainly addresses 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 24, 2017
13:30 - 14:30, Lecture Hall 103

How to publish in neuroscience journals?

Helmut Kettenmann and Heiko Luhmann,
Berlin and Mainz

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.

Heiko Luhmann 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 Heiko Luhmann former Section Editor of *Neuroscience* - the *IBRO* journal.





Introductory Remarks to Satellite Symposium (Sat1)

5th Schram Foundation Symposium „New insights into brain function“

*Ayse Yarali and Oliver Schlüter, Magdeburg and Göttingen/
Pittsburgh (USA)*

The Schram Foundation, launched by Dr. Armin Schram, supports basic brain research since more than 15 years.

The 5th Schram Foundation Symposium, traditionally held as a satellite event of the biennial meeting of the German Neuroscience Society, will present a selection of funded projects. Two eminent keynote speakers will enrich the scientific program. Highlighting the interdisciplinary nature of modern neuroscience, the program will feature research spanning molecular, cellular, circuit and behavioral levels.

The symposium will start with a keynote lecture by Matthijs Verhage (Amsterdam NL) about the trafficking and fusion of neurotransmitter vesicles critical for neuronal function and plasticity. This will be followed by contributions from five grant holders: Ira Milosevic (Göttingen) demonstrating how malfunction of synaptic vesicle recycling eventually leads to neurodegeneration; Carmen Ruiz de Almodovar (Heidelberg) discussing the neuro-vascular interface between the nervous system and the rest of the body; Oliver Schlüter (Göttingen/ Pittsburgh USA) presenting the molecular mechanisms of gating long-term synaptic plasticity; Alexander Gottschalk (Frankfurt) reporting on the modulatory role of neuropeptides in synaptic transmission; and Ayse Yarali (Magdeburg) delineating the neural circuits underlying learning of pain-relief.

The symposium will be concluded with a key note lecture by Hans-Christian Pape (Münster) about the neural circuits underlying fear and anxiety.

Attendance of the symposium is complimentary.



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Satellite Symposium (Sat1)

Tuesday, March 21, 2017
 13:00 - 19:00, Lecture Hall of MPI for
 Experimental Medicine (Hermann-Rein-Str. 3, Göttingen)

Chairs: Ayse Yarali and Oliver Schlüter,
 Magdeburg and Göttingen/Pittsburgh (USA)

- 13:00 **Welcome and Opening Remarks**
 (Christian Rosenmund, Berlin)
- 13:10 Matthijs Verhage, Amsterdam, The Netherlands
 TRAFFICKING AND FUSION OF DENSE CORE
 VESICLES IN MAMMALIAN NEURONS (Sat1-1)
- 14:00 Ira Milosevic, Göttingen
 MOLECULAR MECHANISMS OF NEURODE-
 GENERATION CAUSED BY DEFECTIVE SYNAP-
 TIC VESICLE RECYCLING (Sat1-2)
- 14:30 Carmen Ruiz de Almodovar, Heidelberg
 NEURO-VASCULAR COMMUNICATION IN THE
 CENTRAL NERVOUS SYSTEM (Sat1-3)
- 15:00 **Coffee Break and Poster Session**
- 16:00 Oliver Schlüter, Göttingen/Pittsburgh, USA
 GATING OF SYNAPTIC PLASTICITY BY MODU-
 LATION OF DENDRITIC POTASSIUM CHANNELS
 (Sat1-4)
- 16:30 Alexander Gottschalk, Frankfurt/Main
 FAST cAMP MODULATION OF NEUROTRANS-
 MISSION VIA NEUROPEPTIDE SIGNALS AND
 VESICLE LOADING (Sat1-5)
- 17:00 Ayse Yarali, Magdeburg
 NEURONAL CIRCUIT ANALYSES OF RELIEF
 LEARNING (Sat1-6)
- 17:30 **Coffee Break**
- 18:00 Hans-Christian Pape, Münster
 PREDICTABLE OR UNPREDICTABLE THREAT:
 WHAT THE EXTENDED AMYGDALA HAS TO
 DO WITH IT (Sat1-7)
- 18:50 **Closing Remarks**
 (Eckart D. Gundelfinger, Magdeburg)



Introductory Remarks to Satellite Symposium (Sat2)

SPP Integrative analyses of olfaction

Giovanni Galizia, Konstanz

The DFG Schwerpunktprogramm (SPP) "Integrative Analyses of Olfaction" is a research consortium (2009-2017), coordinated by Prof. Dr. Giovanni Galizia, that includes 18 collaborative scientific groups consisting of teams of at least two principal investigators each, with different disciplinary backgrounds. The purpose of our program is to achieve a comprehensive understanding of olfactory coding through the analysis of olfactory systems at all levels of processing: 1) signaling and coding, 2) information processing, 3) sensory and behavioral performance, and 4) perception and cognition. For more information about the SPP 1392 please visit the webpage (<https://cms.uni-konstanz.de/spp/home/>).

During this satellite symposium scientists from the program will present latest results of the SPP 1392 research projects.

Satellite Symposium (Sat2)

*Tuesday, March 21, 2017
12:00 - 19:25, Lecture Hall 103*

Chairs: Elisa Schuh and Georg Raiser, Jena and Konstanz

- 12:00 **Welcome coffee and poster presentations**
- 13:00 **Opening Remarks**
(Giovanni Galizia, Konstanz)
- 13:10 Jürgen Krieger and Silke Sachse, Halle-
Wittenberg and Jena
RECEPTION AND CODING OF PHEROMONE
SIGNALS IN INSECTS (Sat2-1)
- 13:45 Wolfgang Rössler and Giovanni Galizia,
Würzburg and Konstanz
INTEGRATIVE ANALYSIS OF MULTIPLE
PATHWAYS IN THE HONEYBEE OLFATORY
SYSTEM (Sat2-2)
- 14:20 Stefan Dippel, Göttingen
MORPHOLOGICAL AND TRANSCRIPTOMIC
ANALYSIS OF A BEETLE CHEMOSENSORY
SYSTEM REVEALS A GNATHAL OLFATORY
CENTER (Sat2-3)

- 14:40 Bertram Gerber, Magdeburg
TURNING OLFACTORY MEMORY INTO ACTION (Sat2-4)
- 15:00 André Fiala, Göttingen
ODOR DISCRIMINATION LEARNING IN DROSOPHILA: FROM BEHAVIOR TO NEURAL CIRCUITS (Sat2-5)
- 15:20 Monika Stengl, Kassel
FUNCTIONAL ROLE OF THE INSECT ODORANT CORECEPTOR (Sat2-6)
- 15:40 **Discussions, coffee and poster presentations**
- 16:30 Sigrun Korsching and Ivan Manzini, Cologne and Göttingen
OLFACTION DURING VERTEBRATE EVOLUTION: THE WATER-TO-LAND TRANSITION (Sat2-7)
- 17:05 Gabriele Gerlach, Oldenburg
BEHAVIORAL, GENETIC AND NEURONAL MECHANISMS OF OLFACTORY IMPRINTING IN ZEBRAFISH (Sat2-8)
- 17:25 Frank Zufall, Homburg
NEW INSIGHTS INTO THE SUBSYSTEM ORGANIZATION OF THE MAMMALIAN SENSE OF SMELL (Sat2-9)
- 17:45 Marc Spehr, Aachen
SIGNALING MECHANISMS IN THE ACCESSORY OLFACTORY SYSTEM (Sat2-10)
- 18:05 Michael Schmuker, Hertfordshire, UK
EXPLORING CHEMICAL NEIGHBOURHOODS IN THE OLFACTORY BULB (Sat2-11)
- 18:25 Veronica Egger, Regensburg
THE RODENT OLFACTORY BULB GRANULE CELL: AN ALLIANCE OF NUMEROUS INHIBITORY MINI-NEURONS (Sat2-12)
- 18:45 Jörg Strotmann and Anton Sirota, Hohenheim and Munich
ODOR INFORMATION PROCESSING ALONG AN OR-SPECIFIC NEURONAL PATHWAY (Sat2-13)
- 19:20 **Closing Comments**
(Giovanni Galizia, Konstanz)





Introductory Remarks to Satellite Symposium (Sat3)

GBM Study Group 'Molecular Neurobiology'

„Brain in a dish“ - explant and stem cell models of neurodegenerative diseases

Roland Brandt and Rolf Heumann, Osnabrück and Bochum

Ex vivo models have the potential to fill the gap between studies using dissociated cells, model organisms and human patients in deciphering mechanisms and potential treatment approaches for neurologic and psychiatric disorders. They can provide important insights about the pathogenesis of neurodegenerative diseases and could represent an effective screening platform to identify novel therapeutics. In addition, stem cell-based approaches may provide the basis for therapy development.

The aim of the international symposium is to present *ex vivo* models and the application of neural stem cells by bringing together researchers from basic science, medicine, program-oriented research and companies. Furthermore, it will be elaborated on how pharmacological modulation affects neurodegeneration in explants. The symposium will also include a discussion of how comparable such systems are with the *in vivo* situation.

The satellite symposium is supported by the GBM and open to everybody.



Satellite Symposium (Sat3)

Wednesday, March 22, 2017
9:00 - 12:00, Hall 102

Chairs: Roland Brandt and Rolf Heumann,
Osnabrück and Bochum

- 09:00 **Welcome and Opening Remarks**
(Roland Brandt/Rolf Heumann)
- 09:15 Andreas Faissner, Bochum
NEURAL STEM CELLS AND THEIR NICHES:
FOCUS ON THE EXTRACELLULAR MATRIX
(Sat3-1)
- 09:45 Dieter Weiss, Rostock
FUNCTIONAL IN VITRO DISEASE MODELS
BASED ON NEURONAL NETWORKS ON
MICRO-ELECTRODE ARRAYS: COMPARING
PRIMARY MURINE AND HUMAN iPSC CULTURES
(Sat3-2)
- 10:15 Stefanie Hauck, Munich
ELUCIDATION OF THERAPEUTIC ASPECTS OF
NEURON-GLIA COMMUNICATION USING
EX VIVO EXPLANTS (Sat3-3)
- 10:45 Lidia Bakota, Osnabrück
BRAIN SLICES AS MODELS FOR NEURODEGE-
NERATIVE DISEASE AND PLATFORMS TO STUDY
THERAPEUTICS (Sat3-4)
- 11:15 Christian Humpel, Innsbruck, Austria
HOW COMPARABLE ARE BRAIN SLICES WITH
THE IN VIVO SITUATION - WITH A FOCUS ON
ALZHEIMER'S DISEASE (Sat3-5)
- 11:45 **Closing Remarks**
(Roland Brandt/Rolf Heumann)



Introductory Remarks to Symposium 1

Olfactory processing and behavior across the vertebrate/insect divide: communalities and differences

Giovanni C. Galizia and Sigrun Korsching, Konstanz and Cologne

Recent years have seen huge advances in our knowledge how odors are encoded in the nervous system, from olfactory receptors via neural networks coding odor identity, mixture components, and concentration, to odor-elicited behavior and memory. One driving force for this remarkable progress comes from comparing different species and different olfactory receptor gene families both within and between species. Processing in olfactory neural networks uses common themes, e.g. olfactory glomeruli as structural and functional units across phyla as distant as insects and vertebrates. In both phyla, olfactory behavior can rely on innate circuitry (such as host finding in mosquitoes, or pheromone communication) or be learned. The underlying theme of this symposium will be how odors control behavior in both vertebrates and invertebrates: Lisa Stowers from Scripps and Stephen Liberles from Harvard will explain how pheromones control mice behavior, from receptors and neural networks all the way to behavior. Ilona Kadow and Matthew DeGennaro will report about a conundrum of odor coding in insects - how can odors that have an innate meaning nevertheless elicit flexible behavior? This question will be investigated in fruit flies and mosquitoes.

This symposium is thematically linked to a satellite symposium about integrative analysis of olfactory coding on March 21, 2017, reporting from research during seven years of a DFG-funded priority research program: a satellite open to everybody interested.



Symposium 1

Wednesday, March 22, 2017
14:30 - 16:30, Lecture Hall 105

Chairs: Giovanni Galizia and Sigrun Korsching,
Konstanz and Cologne

- 14:30 **Opening Remarks**
- 14:35 Lisa Stowers, San Diego, USA
LEVERAGING OLFACTION TO STUDY SOCIAL
BEHAVIOR IN THE MOUSE (S1-1)
- 15:00 Stephen Liberles, Boston, USA
OLFACTORY CONTROL OF BEHAVIOR (S1-2)
- 15:25 Lutz Wallhorn, Aachen
FUNCTIONAL PROPERTIES OF FEEDBACK
PROJECTIONS FROM THE ANTERIOR OLFACTORY
NUCLEUS TO THE MOUSE OLFACTORY
BULB (S1-3)
- 15:35 Ilona Grunwald Kadow, Martinsried
MAPPING CIRCUITS FOR FLEXIBLE BEHAVIOR
USING DROSOPHILA CHEMOSENSATION
(S1-4)
- 16:00 Matthew DeGennaro, Miami, USA
GENETIC ANALYSIS OF AEDES AEGYPTI'S
ATTRACTION TO PLANT AND HUMAN
HOSTS (S1-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 2

Mechanisms of neuronal and synaptic plasticity in epilepsy

Jochen Meier and Günter Schwarz, Braunschweig and Cologne

Epilepsies are chronic neurological syndromes that degrade life quality due to sudden occurrence of seizures. Focal epilepsies are a serious health problem since antiepileptic drugs often become ineffective over time. Most focal epilepsies have no discernable genetic component, suggesting that they depend on environmental factors and involve disease-promoting mechanisms of neuronal plasticity which shall be discussed during the symposium. Günter Schwarz will discuss genetic mechanisms of epilepsy and focus on the gephyrin, the major postsynaptic synaptic GABA type A and glycine receptor anchoring protein (Dejanovic et al., 2014 and 2015). Marta Zagrebelsky will focus on the molecular mechanisms regulating synaptic plasticity at glutamatergic synapses and how they relate to cognitive function and learning and memory processes (Delekate et al., 2011; Kellner et al. 2016). Jochen Meier will discuss the role of glycine receptor RNA editing and reveal how presynaptic expression of this gain-of-function receptor variant affects GABAergic and glutamatergic synaptic transmission, network excitability and cognitive function including learning and memory (Winkelmann et al., 2014 and Caliskan et al., 2016). Nicola Maggio will provide insights into how life stress affects synaptic, cellular and network mechanisms of epilepsy (Maggio et al., 2013 and Maggio et al., 2012). The two student talks by Felix Beinlich and Esin Candemir will provide insights into the contribution of CIC-3 on the acidification of glutamatergic synaptic vesicles using fluorescence lifetime imaging microscopy and discuss neuronal nitric oxide synthase PDZ - interactions in schizophrenia-like behavior, respectively. Altogether, this symposium will provide an in-depth analysis of current "from molecule-to-behavior" discussions of mechanisms of neuronal and synaptic plasticity and their involvement in health and disease.

Symposium 2

Wednesday, March 22, 2017

14:30 -16:30, Lecture Hall 9

Chairs: Jochen Meier and Günter Schwarz,
Braunschweig and Cologne

- 14:30 **Opening Remarks**
- 14:40 Marta Zagrebelsky, Braunschweig
MECHANISM OF NOGO-A ACTIONS IN
REGULATING FUNCTIONAL AND STRUCTURAL
SYNAPTIC PLASTICITY (S2-1)
- 15:00 Günter Schwarz, Cologne
GEPHYRIN-DEPENDENT EPILEPSIES (S2-2)
- 15:20 Jochen Meier, Braunschweig
RNA EDITING AND NEURON TYPE SPECIFIC
EFFECTS ON NEUROPSYCHIATRIC SYMPTOMS
IN EPILEPSY (S2-3)
- 15:40 Felix Beinlich, Jülich
MONITORING THE CONTRIBUTION OF
CLC-3 ON THE ACIDIFICATION OF
GLUTAMATERGIC SYNAPTIC VESICLES WITH
FLUORESCENCE LIFETIME IMAGING
MICROSCOPY (S2-4)
- 15:50 Nicola Maggio, Ramat Gan, Israel
THE ROLE OF STRESS IN SEIZURES AND
EPILEPSY (S2-5)
- 16:10 Esin Candemir, Frankfurt/Main
DISRUPTING NEURONAL NITRIC OXIDE SYN-
THASE PDZ - INTERACTIONS RESULTS IN
SCHIZOPHRENIA-LIKE BEHAVIOR (S2-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 3

Molecular mechanisms of cargo and organelle transport in neurons

Marina Mikhaylova and Wolfgang Wagner, Hamburg

Neurons are characterized by a complex, highly polarized and dynamic cellular architecture that underlies their function. Efforts to understand how this architecture is established and maintained and how dynamic changes at synapses are achieved revealed crucial roles for cytoskeletal motor proteins. These motor proteins fall into three families, the microtubule-based kinesins and dynein, and the actin-based myosins. All three types of motors are molecular machines that hydrolyze ATP to generate movement and force. Thereby they power active transport of cellular building blocks along cytoskeletal tracks and they impact cytoskeletal organization. In neurons, these motors are implicated for example in the trafficking of pre- and postsynaptic proteins and organelles, and in polarity development. Importantly, defects in neuronal cargo transport appear to be a common feature of several human neurodegenerative and psychiatric diseases.

This symposium aims to shed light on the 'traffic rules' in neurons that ensure controlled cargo delivery at the right time and at the right place. Through our speakers who approach kinesin, dynein and myosin function from different experimental angles, the symposium will provide novel insight into the manifold roles of this cytoskeletal machinery in neurons. Transport along axons which often reach extreme lengths poses a particular challenge for cytoskeletal motors. In this symposium, Giampietro Schiavo will present exciting new findings on how proper transport of extracellular matrix components is achieved in axons. Another important question concerns the impact of cytoskeletal motors on synapse function and whether they may promote synaptic plasticity. In this respect, Wolfgang Wagner will report on how unconventional myosins regulate postsynaptic structure and function. Furthermore, an important issue is whether neuronal activity has an influence on motor-driven cargo transport. Marina Mikhaylova will shed light on this topic and report how synaptic activity controls secretory organelle transport and positioning in dendrites. Tight control of cytoskeletal motors in time and space is crucial for their function. Martin Harterink will present how manipulation of this tight control with light leads to new insights into polarized cargo delivery in neurons in vivo.

In summary, this symposium will cover diverse aspects concerning the mechanisms of cytoskeletal motor-based transport in neurons, thereby demonstrating how new methodologies are pivotal to advance the field.

Symposium 3

Wednesday, March 22, 2017
14:30 - 16:30, Lecture Hall 104

Chairs: Marina Mikhaylova and Wolfgang Wagner,
Hamburg

- 14:30 **Opening Remarks**
- 14:40 Giampietro Schiavo, London, UK
REGULATION OF AXONAL TRAFFICKING OF
SIGNALING ENDOSOMES
(S3-1)
- 15:00 Wolfgang Wagner, Hamburg
UNCONVENTIONAL MYOSINS AS REGULA-
TORS OF SYNAPTIC FUNCTION AND DEVE-
LOPMENT (S3-2)
- 15:20 Marina Mikhaylova, Hamburg
SYNAPTIC CONTROL OF DENDRITIC
SECRETORY ORGANELLE TRANSPORT AND
POSITIONING (S3-3)
- 15:40 Martin Harterink, Utrecht, The Netherlands
LIGHT INDUCED TRANSPORT TO STUDY
NEURONAL POLARITY IN VIVO (S3-4)
- 16:00 Sindhuja Gowrisankaran, Göttingen
ENDOPHILIN-A STIMULATES PRIMING OF
SECRETORY VESICLES (S3-5)
- 16:10 Jennifer Stefani, Frankfurt/Main
THE ADP-SENSITIVE P2Y₁₃ RECEPTOR
ATTENUATES PROGENITOR CELL PROLIFERA-
TION, NEW NEURON FORMATION, AND NEU-
RONAL ACTIVITY IN THE DENTATE GYRUS OF
ADULT MICE (S3-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 4

Neuronal circuit wiring in development

Victor Tarabykin and Christian Rosenmund, Berlin

This symposium will provide an update on mechanisms underlying establishment of neuronal circuits, an area in which many new players and interactions have been identified recently. Abnormalities of neural circuit formation underlie an increasing variety of neurological diseases, as the integrity of neuronal functions is critically dependent on the correct wiring of axono-dendritic networks. Rather than random interconnection, the wiring pattern of neurons is highly specific throughout the brain. In the developing organism, millions of axons navigate towards specific targets and make synapses with very precise neuronal types using multiple molecular pathways.

The developmental strategies and molecular mechanisms underlying pathway selection and target recognition have been extensively studied, however this symposium will focus on the particularly extraordinary progress achieved in recent years. Robin Hiesinger will discuss the mechanisms that control the brain wiring in the fly brain, followed by Sam Pfaff, who will discuss recent advances in the understanding of the molecular mechanisms driving the assembly of spinal sensorimotor circuits in the mouse. The mechanisms controlling the wiring in the mammalian neocortex will be discussed by Victor Tarabykin. Finally, Michael Wegner will highlight the role of myelinating glia in the developing circuits. The symposium also includes two student talks. Paraskevi (Eva) Bessa presents her research on the cell intrinsic role of semaphorins in the guidance of cortical axons, while Barbara Wieners will speak about the developmental mechanisms underlying hydrocephalus. Together, the speakers will overview the insights that build the foundation for exciting new research into the mechanisms that govern the formation of the complex communication networks underlying our thoughts, behaviors and emotions.

Symposium 4

Wednesday, March 22, 2017
14:30 - 16:30, Lecture Hall 8

Chairs: Victor Tarabykin and Christian Rosenmund,
Berlin

- 14:30 **Opening Remarks**
- 14:40 Peter Robin Hiesinger, Berlin
SIMPLE RULES IN BRAIN WIRING:
A FLY PERSPECTIVE (S4-1)
- 15:00 Samuel Pfaff, La Jolla, USA
CHARACTERIZATION OF SPINAL CORD
MOTOR CIRCUITRY (S4-2)
- 15:20 Victor Tarabykin, Berlin
NEOCORTICAL CIRCUITS: HOW DO WE BUILD
THEM IN DEVELOPMENT? (S4-3)
- 15:40 Michael Wegner, Erlangen
REGULATION OF MYELINATION AS PART OF
NEURONAL CIRCUIT DEVELOPMENT (S4-4)
- 16:00 Barbara Wieners, Bonn
DISRUPTION OF MOUSE MTSS1 CAUSES
ABNORMAL CILIARY PATTERNING AND
CONGENITAL HYDROCEPHALUS (S4-5)
- 16:10 Paraskevi Bessa, Berlin
SEMAPHORIN7A RESCUES MIGRATION
AND AXON GROWTH IN SATB2 DEFICIENT
NEURONS (S4-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 5

Trends in small-animal neuroimaging: assessing functional connectivity of the whole brain

*Andreas Hess and Jürgen Goldschmidt, Erlangen and
Magdeburg*

Neuroimaging of the whole brain is of utmost importance for investigating the whole CNS and the armamentarium is continuously increasing. This is true not only with respect to the dedicated imaging modalities but also in terms of sophisticated analysis strategies. Moreover due to latest improvements these techniques can be applied not only to humans but also to small animals like mice or rats. Recent analytical advancements allow for investigating the functional connectivity of the whole CNS. fMRI and functional connectivity will be addressed focusing on plasticity in the first talk and on CNS networks under physiological and pathological conditions in the second talk. The third talk will elaborate on imaging normal behavior in awake animals by SPECT, a very new but powerful small-animal-imaging method. Moreover, due to the non-invasive nature of the imaging modalities, they are ideal for translational research from animals to humans. This aspect will be the major focus of the last presentation and exemplified for pain processing under anti-TNF therapy on (transgenic) mice as well as for human diseases like rheumatoid arthritis or Crohns disease.



Symposium 5

Wednesday, March 22, 2017
14:30 - 16:30, Lecture Hall 10

Chairs: Andreas Hess and Jürgen Goldschmidt,
Erlangen and Magdeburg

- 14:30 **Opening Remarks**
- 14:40 Mathias Hoehn, Cologne
CHECKING PLASTICITY: FUNCTIONAL
CONNECTIVITY IMAGING OF THE BRAIN
(S5-1)
- 15:00 David Bühlmann, Zürich
fMRI OF THE MOUSE BRAIN - PSEUDOSTATIC
AND DYNAMIC FUNCTIONAL NETWORKS
UNDER PHYSIOLOGICAL AND PATHOLOGICAL
CONDITIONS (S5-2)
- 15:20 Jürgen Goldschmidt, Magdeburg
SMALL-ANIMAL SPECT IN NEUROSCIENCE -
PRINCIPLES AND APPLICATIONS (S5-3)
- 15:40 Andreas Hess, Erlangen
TRANSLATIONAL fMRI FROM MOUSE TO
MAN: VALIDATION OF ANTINOCICEPTIVE
DRUG THERAPY IN DYNAMIC FUNCTIONAL
BRAIN NETWORKS (S5-4)
- 16:00 Franziska Melanie Collmann, Cologne
UNDERSTANDING MICROGLIA ACTIVITY IN
THE STROKED BRAIN USING IN VIVO
IMAGING (S5-5)
- 16:10 Andrea Mendez Torrijos, Erlangen
FOOD AS A MODULATOR OF FUNCTIONAL
CONNECTIVITY IN RODENTS AND HUMANS
(S5-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 6

Facets of spatial information processing

Denise Manahan-Vaughan and Kate Jeffery, Bochum and London

Spatial information processing at the level of the hippocampus involves several layers of complexity, ranging from the engagement of neuronal oscillations, synaptic plasticity, place cells, distinct hippocampal subfields and synaptic populations. Sensory information that impacts on, and is received by the hippocampus, must not only be interpreted, but ultimately can be expected to be integrated into new spatial representations, or to aid the updating of established memories. Information from egocentric and allocentric sources, from different sensory modalities, from neuromodulatory and arousal systems, and from the microcircuitry of the hippocampus itself, determine the outcome of spatial information processing. By this means, representations that range from schematic through highly detailed memories emerge. The speakers in this symposium (Kate Jeffery: University College London, U.K., Denise Manahan-Vaughan: Ruhr University Bochum, Germany, Lisa Saksida: Western University, Canada, and Emma Wood, University of Edinburgh, U.K.) represent distinct but highly complementary areas of the field of spatial learning and memory. We will report on state-of-the-art findings with regard to the role of place, head direction and grid cells in spatial navigation, the role of hippocampal LTP and LTD in the creation of long-term complex spatial memories, and the involvement of distinct hippocampal subfields in the composition and functional nature of spatial representations.

This symposium will be funded and supported by the SFB874 (www.rub.de/sfb874).

Symposium 6

Wednesday, March 22, 2017
14:30 - 16:30, Lecture Hall 102

Chairs: Denise Manahan-Vaughan and Kate Jeffery,
Bochum and London

14:30 **Opening Remarks**

14:35 Kate Jeffery, London, UK
NAVIGATING OVER COMPLEX TERRAIN (S6-1)

15:05 Emma Wood, Edinburgh, UK
SPLITTING AND LUMPING: HOW HIPPOCAM-
PAL PLACE CELLS SUPPORT AND CONSTRAIN
SPATIAL COGNITION (S6-2)

15:35 Denise Manahan-Vaughan, Bochum
ENCODING OF SPATIAL AND ASSOCIATIVE
MEMORIES THROUGH HIPPOCAMPAL SYN-
APTIC PLASTICITY (S6-3)

16:05 Franziska Bender, Berlin
INPUT-SPECIFIC THETA AND GAMMA OSCIL-
LATIONS IN THE LATERAL SEPTUM REGULATE
EXPLORATORY AND GOAL-DIRECTED LOCO-
MOTION (S6-4)

16:20 **Concluding Remarks**



*Introductory Remarks to Symposium 7*

Calcium homeostasis in neuroinflammation and -degeneration: new targets for therapy of multiple sclerosis?

Ricarda Diem and Sarah Williams, Heidelberg

Recent paradigm shifts in our understanding of multiple sclerosis (MS) have led to opposing hypotheses about the sequence of pathophysiological events and the identity of cell types involved in disease initiation and propagation. Irrespective of whether MS is classified as being primarily either a neuroinflammatory, a neurodegenerative or a glial disorder, calcium signals are essential for the function of all cellular systems involved including the immune system, the neurovascular unit, glial cells and neurons/axons. Additionally, calcium is not only an important messenger within specific cells, but also serves as a crucial link between different "compartments" involved in MS pathophysiology. Due to its ubiquitous role through-out all tissues and its importance for intra- as well as intercellular and network functions, understanding disturbances in calcium homeostasis would allow both the simultaneous targeting of multiple pathophysiological mechanisms in addition to the development of cell type and context-specific therapies depending upon the pathways targeted.

To this end, a team of researchers from diverse institutions and scientific fields has been assembled (comprising anatomy, biophysics, neurobiology, pharmacology, physiology as well as experimental and clinical neurology and neuroimmunology) to elucidate principle calcium-related disease mechanisms of MS, to develop cutting-edge methodologies including novel imaging techniques, and to identify new therapeutic targets. The anticipated synergistic outcome of the Research Unit 2289 will have a profound impact on the understanding of acquired channelopathies, disturbances of calcium signaling and energy imbalance under neuroinflammatory and neurodegenerative conditions. Since this consortium is focused on as yet underestimated aspects of MS pathophysiology and applies a highly interdisciplinary approach, it is expected to break new ground in clinical neurology.



Symposium 7

Thursday, March 23, 2017
11:30 – 13:30, Lecture Hall 104

Chairs: Ricarda Diem and Sarah Williams, Heidelberg

- 11:30 **Opening Remarks**
- 11:40 Barbara Niemeyer, Homburg
REGULATION OF STORE-OPERATED CALCIUM
ENTRY (SOCE) IN HEALTH AND DISEASE (S7-1)
- 12:00 Richard Fairless, Heidelberg
SOURCE AND INFLUENCE OF CALCIUM
ENTRY IN RETINAL GANGLION CELLS DURING
THE PRECLINICAL PHASE OF AUTOIMMUNE
OPTIC NEURITIS (S7-2)
- 12:20 Frank Winkler, Heidelberg
ADVANCED INTRAVITAL MICROSCOPY OF
CALCIUM HOMEOSTASIS AND CELLULAR
INTERACTIONS IN THE CNS: FROM TUMORS
TO INFLAMMATION (S7-3)
- 12:40 Frank Schmitz, Homburg
SYNAPTIC COMMUNICATION AT PHOTORE-
CEPTOR RIBBON SYNAPSES OF THE RETINA:
RELEVANCE FOR SIGNALLING IN THE RETINA
UNDER NORMAL AND PATHOLOGICAL CON-
DITIONS (S7-4)
- 13:00 Anemari Horvat, Ljubljana, Slovenia
DISTINCT TEMPORAL CHARACTERISTICS OF
INTRACELLULAR Ca^{2+} AND CAMP/PKA
RESPONSES UPON ADRENERGIC STIMULATI-
ON IN SINGLE RAT ASTROCYTES (S7-5)
- 13:10 Franziska Oschmann, Berlin
COMPUTATIONAL MODELING OF Ca^{2+}
SIGNALS IN ASTROCYTES (S7-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 8

Neuronal circuits underlying biological timekeeping

Pamela Menegazzi, Dirk Rieger and Koustubh Vaze, Würzburg

We live in a rhythmic environment. In order to keep synchronized with the external world most living organisms have evolved endogenous clocks, which are necessary to track and to anticipate periodical changes in the environment. Different organisms need to cope with different environments but their endogenous clocks share extremely conserved gears. All endogenous clocks need to be able to perceive, and synchronize to, environmental stimuli. The neuronal circuits that allow this synchronization are referred to as input pathways. Environmental information is processed by a master clock in the brain, normally composed by heterogeneous clusters of neurons, which act in synchrony as a unique pacemaker to generate the rhythmic neuronal outputs.

Numerous studies aimed to dissect the molecular and neuronal mechanisms of timekeeping. At the present day, one of the most alive topic of discussion in chronobiological research deals with the understanding of how endogenous pacemakers can be so simple and yet so complex. The clock needs to be highly plastic in order to be able to cope with fluctuations in the environmental conditions and at the same time needs to be robust not to be affected by sudden changes of no biological importance.

The invited speakers will all provide insights into this direction.

Kristin Tessmar-Raible will discuss the mechanisms through which the nervous system can perceive light and the way through which this information can be encoded in order to drive lunar and circadian rhythms. The importance of light for synchronizing endogenous clocks will be further discussed by Maite Ogueta Gutierrez whose research focuses on inputs and outputs of the clock neuronal circuits in *D. melanogaster*. We will have a look at the putative mechanisms through which neuronal activity affects the molecular clock as well as behavioral rhythms with the talk of Virginie Sabado. Finally, Bharath Ananthasubramanian will further discuss the dichotomy (robustness versus flexibility) of brain pacemaker circuits by analyzing with computational approaches the complexity of the mammalian circadian clock.

Symposium 8

Thursday, March 23, 2017
11:30 - 13:30, Lecture Hall 105

Chairs: Pamela Menegazzi, Dirk Rieger and
Koustubh Vaze, Würzburg

- 11:30 **Opening Remarks**
- 11:35 Kristin Tessmar-Raible, Vienna, Austria
SEA, MOON AND SEASONS: THE IMPACT
OF LIGHT ON ANIMAL PHYSIOLOGY AND
BEHAVIOR (S8-1)
- 12:00 Maite Ogueta Gutierrez, Münster
LIGHT RESETTING OF THE CIRCADIAN CLOCK
OF *DROSOPHILA* (S8-2)
- 12:25 Virginie Sabado, Geneva, Switzerland
NEURAL CORRELATES OF CIRCADIAN BEHA-
VIOUR IN *DROSOPHILA MELANOGASTER* (S8-3)
- 12:50 Bharath Ananthasubramaniam, Berlin
COMPUTATIONAL MODELING REVEALS
DESIGN PRINCIPLES UNDERLYING ROBUST-
NESS AND SENSITIVITY OF THE MASTER
NEURONAL CLOCK IN MAMMALS (S8-4)
- 13:15 Thordis Arnold, Kassel
IPSI- AND CONTRALATERAL LIGHT INPUT
PATHWAYS TO THE CIRCADIAN CLOCK OF
THE MADEIRA COCKROACH *RHYPAROBIA*
MADERAE (S8-5)
- 13:25 **Concluding Remarks**





Introductory Remarks to Symposium 9

Correlating synaptic structure and plasticity at the nanoscale

Benjamin Cooper and Cordelia Imig, Göttingen

Plastic changes in transmission efficacy during short-term facilitation and depression as well as during activity-dependent long-term potentiation (LTP) and depression are hypothesized to be the neural substrate of learning and memory processes. A growing body of evidence indicates that such changes in functional synaptic properties are correlated with morphological alterations and changes in the structural organization of pre- and postsynaptic compartments. In this symposium, we focus on forms of synaptic plasticity and examine their respective influence on synaptic morphology in vertebrate and invertebrate model synapses. We further aim to highlight recent methodological advances in electron microscopy (EM) and super-resolution imaging techniques. Speakers have been selected to present distinct methodological approaches and to discuss how they impact our understanding of ultrastructure-function relationships in the context of connectivity, subsynaptic organization, and molecular composition of synaptic release sites.

Kristen Harris is a pioneer of serial section EM and the generation of large-volume 3D reconstructions of synaptic neuropil. She will present her work on pre- and postsynaptic structural changes associated with the induction and augmentation of LTP. Cordelia Imig will present an experimental approach combining cryo-preparation techniques and 3D electron tomography to reveal the spatial organization of functionally and morphologically distinct vesicle pools in different neurosecretory systems. Kevin Staras will focus on presynaptic synaptic vesicle pools as attractive potential substrates to support plastic changes in synaptic efficacy. He will present his work on how synaptic labeling techniques combined with ultrastructural methods offer powerful strategies to read out functional synaptic pool properties down to nanoscale resolution in acute hippocampal slices. Robert Kittel will focus on the *Drosophila* NMJ and the molecular composition of the AZ cytomatrix. In particular, he will talk about how Bruchpilot shapes short-term synaptic plasticity by promoting synaptic vesicle attachment.

Symposium 9

Thursday, March 23, 2017
11:30 - 13:30, Lecture Hall 9

Chairs: Benjamin Cooper and Cordelia Imig (Göttingen)

11:30 **Opening Remarks**

11:40 Kristen Harris, Austin, USA
SILENT SYNAPTIC GROWTH AND THE
AUGMENTATION OF LTP (S9-1)

12:05 Cordelia Imig, Göttingen
PRESYNAPTIC ULTRASTRUCTURE-FUNCTION
RELATIONSHIPS RESOLVED BY ELECTRON
TOMOGRAPHY (S9-2)

12:30 Kevin Staras, Brighton, UK
ULTRASTRUCTURAL CHANGES IN FUNCTIONAL
VESICLE POOLS ACCOMPANYING LONG-
TERM POTENTIATION IN HIPPOCAMPUS (S9-3)

12:55 Robert Kittel, Würzburg
EXPLORING PROTEIN INTERACTIONS INVOL-
VED IN VESICLE TETHERING TO THE ACTIVE
ZONE CYTOMATRIX (S9-4)

13:20 **Concluding Remarks**



Introductory Remarks to Symposium 10

How single neuron properties determine network dynamics

Andreas Draguhn and Hannah Monyer, Heidelberg

Behavior and cognition depend critically on cooperative activity of neurons. The concept of 'neuronal ensembles' suggests that reproducible spatiotemporal activity patterns of selected neurons form elementary representations in sensory, motor, mnemonic or higher associative systems. During past years, considerable progress has been made in unravelling the cellular and network-level mechanisms underlying the formation and re-activation of ensembles. The focus of these analyses has been on synaptic interactions and plasticity, connectivity patterns and dynamic network states, esp. coherent oscillations. More recently, new molecular tools have allowed selectively manipulating network patterns in living animals and, hence, analyzing their causal role in selected behavioral and cognitive tasks.

However, several major questions remain open, especially regarding the selective activation of defined cells. How does a neuron 'know' that it should be activated in a given situation, and when precisely it should spike within the highly organized temporal pattern of activity? How is background activity of non-participating neurons reliably suppressed? How are ensembles stably activated during different network states (e.g. different oscillation patterns)?

This symposium will focus on one peculiar group of mechanisms contributing to the highly organized behavior of neuronal networks – intrinsic neuronal properties. Convergent experimental and theoretical results indicate that membrane properties are extremely important (though understudied) determinants of collective neuronal behavior within networks. Prominent examples are frequency-dependent changes in membrane conductance (resonance), non-linear integration of synaptic inputs (dendritic electrogenesis), kinetic properties of ion channels (spike waveform) and the integration of irregular voltage fluctuations (noise). The present symposium will join leading experts in this field who will present new concepts and results at the interface between cellular and systems neuroscience.

Symposium 10

Thursday, March 23, 2017
11:30 - 13:30, Lecture Hall 10

Chairs: Andreas Draguhn and Hannah Monyer,
Heidelberg

- 11:30 **Opening Remarks**
- 11:40 Raoul M. Memmesheimer, Frankfurt/Main
HIPPOCAMPAL NONLINEAR DENDRITES,
MEMORY AND HIGH FREQUENCY OSCILLA-
TIONS (S10-4)
- 12:00 Susanne Schreiber, Berlin
TOO HOT TO FUNCTION PROPERLY? ON
THE TEMPERATURE DEPENDENCE OF
NETWORK SYNCHRONIZATION (S10-2)
- 12:20 Jeffrey C. Magee, Ashburn, USA
AN ADAPTIVE BEHAVIOR REQUIRES A MIXED
NETWORK REPRESENTATION GENERATED BY
ACTIVE DENDRITIC INTEGRATION (S10-3)
- 12:40 Tatjana Tchumatchenko, Frankfurt/Main
SHAPING NETWORK DYNAMICS VIA SINGLE-
NEURON ACTIVATION FUNCTIONS (S10-1)
- 13:00 Chryssanthi Tsitoura, Aachen
INFRA-SLOW INTRINSIC RHYTHMOGENESIS IN
A SUBSET OF MITRAL CELLS ENTRAINS OSCIL-
LATORY MICROCIRCUITS IN THE ACCESSORY
OLFACTORY BULB OF MICE (S10-5)
- 13:10 Jens Wilting, Göttingen
INFERRING COLLECTIVE NETWORK DYNA-
MICS FROM THE ACTIVITY OF FEW NEURONS
(S10-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 11

How hearing happens: speed, precision and sensitivity

Jutta Engel and Eckhard Friauf, Homburg and Kaiserslautern

Analyzing complex sound signals and localizing sound sources require ultrafast and temporally precise signal processing in the auditory system. The DFG has launched a Priority Program in which these aspects are investigated. Hearing impairment or deafness affects 1 in 600 newborns. The incidence rises steeply in the sixth decade, causing enormous problems to aging societies. Unfortunately, hearing aids and cochlear implants do not restore speech perception in noise and sound localization. The poor accessibility of hair cells and spiral ganglion cells in the bony otic capsule and of brainstem neurons in the center of the head causes some technical challenges. Detours for gaining physiological insight are whole-mount preparations, primary cultures and slice preparations.

The transduction channel complex in cochlear hair cells enables fast and ultrasensitive excitation. Recent work identified TMC1 as an essential component of the transduction channel complex yet the exact nature of the channel is still unknown as will be elucidated by C.J. Kros.

J. Engel will report on the structural coupling of presynaptic Ca^{2+} channels with postsynaptic AMPA receptors at the inner hair cell synapse. The coupling allows for highly sensitive and temporally precise synaptic transmission from inner hair cells to spiral ganglion neurons forming the auditory nerve.

Sound localization is accomplished by neuronal processes involving projections from cochlear nucleus bushy cells to the contralateral MNTB (medial nucleus of the trapezoid body) and, in turn, to the lateral superior olive (LSO). The presynaptic calyx of Held at MNTB neurons is a very prominent example for structural and functional specializations guaranteeing maximum fidelity and transmission speed with minimal temporal jitter. G. Spirou will present novel results on the development of this giant synapse and on competition of inputs during circuit formation.

Sound localization via analysis of interaural intensity differences requires reliable inhibition at glycinergic MNTB-LSO synapses. E. Friauf will focus on the exceptional performance of these synapses and compare them to 'conventional' hippocampal counterparts.

Two talks by T. Butola and S. Michanski will complement our symposium.

Symposium 11

Thursday, March 23, 2017
11:30 - 13:30, Lecture Hall 102

Chairs: Jutta Engel and Eckhard Friauf,
Homburg and Kaiserslautern

11:30 **Opening Remarks**

11:40 Corné Kros, Brighton, UK
CLUES TO THE MOLECULAR IDENTITY OF
THE HAIR CELL MECHANO-ELECTRICAL
TRANSDUCER CHANNEL FROM EXPERIMENTS
WITH PORE BLOCKERS (S11-1)

12:00 Jutta Engel, Homburg
THE CALCIUM CHANNEL SUBUNIT $\alpha 2\delta 2$ IN
INNER HAIR CELLS IS ESSENTIAL FOR
SENSITIVITY AND TEMPORAL PRECISION IN
HEARING (S11-2)

12:20 George Spirou, Morgantown, USA
THE NANOSCALE CONNECTOME OF BUSHY
CELL NETWORKS IN MOUSE COCHLEAR
NUCLEUS (S11-3)

12:40 Eckhard Friauf, Kaiserslautern
SYNAPTIC PERFORMANCE IN THE SUPERIOR
OLIVARY COMPLEX: RELIABILITY AND PRECI-
SION (S11-4)

13:00 Tanvi Butola, Göttingen
ROLE OF PICCOLO IN HIGH FREQUENCY
SIGNAL TRANSMISSION AT A CENTRAL
AUDITORY SYNAPSE (S11-5)

13:10 Susann Michanski, Göttingen
MATURATION AND HETEROGENEITY OF
RIBBON SYNAPSES EVALUATED BY HIGH-
RESOLUTION MICROSCOPIC TECHNIQUES
(S11-6)

13:20 **Concluding Remarks**



Ultrafast and temporally precise
information processing:
Normal and dysfunctional hearing



Introductory Remarks to Symposium 12

Structural and functional implementation of bottom-up and top-down influences in the primate brain

Julien Vezoli and Georgios Michalareas, Frankfurt/Main

Recent anatomical data demonstrated unequivocal hierarchy of primate visual areas. In parallel, predictive coding framework is based on a functional hierarchy processing framework. Yet, anatomical data have so far been hardly integrated with functional data and the potentially distinct mechanisms of bottom-up (BU) and top-down (TD) signaling have not yet been fully revealed.

The proposed symposium aims to address these mechanisms and conclude with unified proposals about their instantiation. The presenting experts are studying such principles at diverse levels, from anatomical to functional cortical networks, and will offer to the audience a more complete grasp of the full complexity of brain structural and functional organization.

One of the most challenging problems in neuroscience today is understanding how the primate brain processes, modulates and integrates information from local neuronal ensembles according to complex and ever-changing task demands. These emergent neuronal ensembles produce a range of complex cognitive functions such as attention, perception, language, and memory. The anatomical hierarchy imposes key constraints and provides important clues on how BU and TD information is processed and integrated. Having a fine grained description of this hierarchical framework is crucial for understanding the computational function of this hierarchy. It also requires that we understand the functional rules and logic that govern dynamical interactions between neurons at different levels of the hierarchy. Such functional rules need to be studied all the way from the micro to the macro-scale, in order to understand how activity in small neural populations leads to coherent large-scale cortical networks.

This symposium aims to provide insight into the fine grained structural details of the hierarchy and the functional hierarchical principles of the neocortex, from local neural populations to entire brain areas. Research from non-human and human primates and data from different modalities will provide to the audience a comprehensive understanding of the relation between structural and functional connectivity and of the role and importance of such functional hierarchies in the brain.

Symposium 12

*Thursday, March 23, 2017
11:30 - 13:30, Lecture Hall 101*

Chairs: Julien Vezoli and Martin Vinck,
Frankfurt/Main

- 11:30 **Opening Remarks**
- 11:35 Anne-Lise Giraud, Geneva, Switzerland
OSCILLATION-BASED PREDICTIVE MECHANISMS IN SPEECH PROCESSING (S12-1)
- 12:05 Pascal Fries, Frankfurt/Main
THE RHYTHMS OF HIERARCHY (S12-2)
- 12:35 Henry Kennedy, Bron, France
THE SPATIALLY-EMBEDDED BRAIN (S12-3)
- 13:05 Alina Peter, Frankfurt/Main
REPETITION-INDUCED CHANGES IN GAMMA-BAND SYNCHRONIZATION ARE STIMULUS SPECIFIC (S12-4)
- 13:15 Georgios Spyropoulos, Frankfurt/Main
A THETA RHYTHM IN AWAKE MACAQUE V1 AND V4 AND ITS ATTENTIONAL MODULATION (S12-5)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 13

Neural circuits of pain

Rohini Kuner, Heidelberg

An important challenge in basic and clinical pain research is to understand mechanisms mediating the transition from acute pain to chronic, pathological pain and to prevent, treat or revert these changes. A key hindrance has been and remains that the nature of neural circuits that mediate the diverse components of pain is not well understood. In the symposium, we therefore propose to discuss structure-function properties of cells, circuits and networks that impart specificity to the perception of pain and to address how these are altered during the transition from acute to chronic pain, comparing and integrating insights from rodent models and humans. Stefan Lechner will discuss combinatorial coding of tactile and noxious sensory information in sensing pain, integrating optogenetics, genetic markers for different sensory neuron subpopulations and electrophysiology in rodents. Andrew Todd will talk about recent advances in our understanding of the neuronal organisation and function of inhibitory interneuron populations modulating pain and itch in the rodent dorsal horn, spanning insights from neurochemical and molecular genetic approaches. Analysis of placebo and nocebo responses also represent an excellent means for elucidating cortical and spinal circuits modulating pain. Ulrike Bingel will present recent insights into the distinct CNS circuitry and neurotransmitter systems underlying placebo and nocebo responses in humans and their relevance to efficacy and tolerability of active pharmacological analgesics. Rohini Kuner will discuss the identity and, importantly potential specificity, of prefrontal cortical circuits for pain-related functions, based upon optogenetic interrogation of circuits coupled with behaviour and electrophysiology in mice. Oscar Retana will discuss novel genetic cell-tagging approaches in the mouse brain that enable uncovering specificity of prefrontal cortical neurons in pain versus non-pain-related functions. Thus, the symposium promises to provide latest insights from recent data on the identity, specificity and function of neural circuits of acute and chronic pain.

Symposium 13

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 105

Chair: Rohini Kuner, Heidelberg

- 14:30 **Opening Remarks**
- 14:35 Stefan Lechner, Heidelberg
TOUCH RECEPTOR-DERIVED SENSORY
INFORMATION ALLEVIATES ACUTE PAIN
SIGNALLING AND FINE-TUNES NOCICEPTIVE
REFLEX COORDINATION (S13-1)
- 15:00 Andrew Todd, Glasgow, UK
THE ORGANISATION AND FUNCTIONS OF
INTERNEURON POPULATIONS IN THE SPINAL
DORSAL HORN (S13-2)
- 15:25 Ulrike Bingel, Essen
NEUROBIOLOGICAL PRINCIPLES OF PLACEBO
AND NOCEBO RESPONSES IN PAIN (S13-3)
- 15:50 Rohini Kuner, Heidelberg
MEDIAL PREFRONTAL CORTEX CIRCUITRY IN
CHRONIC PAIN-RELATED PLASTICITY (S13-4)
- 16:15 Oscar A. Retana, Heidelberg
PAIN RELATED NEURAL CIRCUITS IN THE
MEDIAL PREFRONTAL CORTEX (S13-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 14

Tuning ion channels, myelin, and synapses for rapid axonal signaling

Stefan Hallermann, Leipzig

Communication between neurons relies on the propagation of action potentials along axons and the subsequent transmission at synapses. The resulting delay in neuronal communication ultimately limits the speed of information processing. High evolutionary pressure for rapid execution of complex behavioral tasks led to the development of exquisitely fast and temporally precise signaling mechanisms within and around the axon membrane. This symposium will address how the axonal and synaptic mechanisms are tuned for high-speed performance. First, Peter Jonas (Institute of Science and Technology, Austria) will focus on axonal sodium channels. The density and function of sodium channels are fundamental parameters determining the speed and reliability but also the metabolic costs of action potential propagation in unmyelinated axons. For repetitive action potential generation, potassium channels are equally essential. Lu-Yang Wang (University of Toronto, Canada) will discuss a novel form of short-term plasticity of potassium channels that ensures high-frequency action potential generation and enhances the fidelity of neurotransmission. In addition to optimal sodium and potassium channel performance, glial cell derived myelin sheaths evolved. Myelinated axons conduct action potentials in saltatory manner and faster. Maarten Kole (Netherlands Institute for Neuroscience, Netherlands) will highlight the impact of the architecture of axonal myelin on action potential propagation. Finally, to transmit signals to other neurons en passant boutons and axon terminals release neurotransmitter. Takeshi Sakaba (Doshisha University, Japan) will focus on the mechanisms of vesicular transmitter release at a synapse in the auditory pathway, which is tuned for rapid synaptic transmission.

In summary, the symposium brings together experts in the research field addressing new insights into the critical parameters determining the speed of axonal signaling.

Symposium 14

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 9

Chair: Stefan Hallermann, Leipzig

14:30 **Opening Remarks**

14:35 Peter Jonas, Klosterneuburg, Austria
NA⁺ CHANNELS IN GABAERGIC INTER-
NEURON AXONS: SPEED VERSUS ENERGY
EFFICIENCY (S14-1)

15:00 Lu-Yang Wang, Toronto, Canada
ACTIVITY-DEPENDENT FACILITATION OF PRE-
SYNAPTIC POTASSIUM CURRENTS AND
SHORT-TERM PLASTICITY AT A CENTRAL SYNAPSE
(S14-2)

15:25 Maarten Kole, Amsterdam, The Netherlands
A BIOPHYSICAL FOUNDATION FOR RAPID
SALTATORY CONDUCTION IN MYELINATED
AXONS (S14-3)

15:50 Takeshi Sakaba, Kyoto, Japan
MECHANISM OF TRANSMITTER RELEASE AT
THE CALYX OF HELD SYNAPSE (S14-4)

16:15 Niklas Byczkowicz, Leipzig
HYPERPOLARIZATION-ACTIVATED CURRENTS
FACILITATE HIGH-FREQUENCY ACTION PO-
TENTIAL FIRING IN CEREBELLAR MOSSY FIBERS
(S14-5)

16:25 **Concluding Remarks**



Introductory Remarks to Symposium 15

Emerging complexity and functions of microRNAs-dependent regulation in neuroscience

Davide de Pietri Tonelli, Gerhard Schratt, Hermona Soreq and Carlos Fitzsimons, Genoa (Italy), Marburg, Jerusalem (Israel) and Amsterdam (The Netherlands)

MicroRNAs (miRNAs) are small non-coding single-stranded RNA molecules that are rapidly emerging as a new layer of regulation in most biological pathways. Found in a wide variety of organisms, miRNAs have been shown to exert their fundamental function(s) by regulating the stability and translation of mRNAs targets. Interestingly, most known miRNAs are expressed specifically or enriched in the nervous system, and they have been involved, so far, in neuronal differentiation, physiology and survival. Further, rapidly accumulating evidence indicates crucial role(s) of miRNAs in developmental and physiological processes of the nervous system, as well as in a number of neural disorders. Thus, miRNAs hold a great therapeutic potential, which remains unexplored in neuroscience. The purpose of the mini-symposium is to shed light on key concepts, mechanisms and challenges for the functional investigation of miRNAs in the framework of neural system development and physio-pathology, and their potential therapeutic exploitation in neuroscience. Our mini-symposium will integrate knowledge of miRNA biology and regulation in neural development, plasticity, and disease. The mini-symposium will also focus on novel emerging aspects of miRNAs-dependent regulation in neuroscience. In particular the proposed talks will highlight challenging concepts such as cross talk of miRNAs with long non-coding RNAs, miRNA functions independent of their canonical biogenesis pathway and cooperativity between different miRNAs. Thereby, our mini-symposium will introduce a broad audience of neuroscientists into key concepts and facts that are currently essential to understanding miRNA biology and their function(s) in complex processes such as brain development, adult neurogenesis, plasticity, behavior and neural disorders.

Symposium 15

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 101

Chairs: Davide de Pietri Tonelli, Gerhard Schratt,
Hermona Soreq and Carlos Fitzsimons,
Genoa (Italy), Marburg, Jerusalem (Israel) and
Amsterdam (The Netherlands)

- 14:30 **Opening Remarks**
- 14:40 Hermona Soreq, Jerusalem, Israel
LONG NON-CODING PSEUDOGENE
TRANSCRIPTS COMPETE WITH MRNAS
THAT SHARE MICRORNA RECOGNITION
ELEMENTS WITH THEM IN HUMAN BRAIN
NEURONS (S15-1)
- 15:05 Gerhard Schratt, Marburg
miRNA FUNCTION IN SYNAPSE DEVELOPMENT
AND PLASTICITY (S15-2)
- 15:30 Carlos Fitzsimons, Amsterdam, The Netherlands
TWO IS BETTER THAN ONE. COOPERATIVE
GENE REGULATION BY MICRORNAS IN NEU-
RAL STEM CELLS (S15-3)
- 15:55 Davide De Pietri Tonelli, Genoa, Italy
DISSECTING ALTERNATIVE PATHWAYS AND
FUNCTIONS OF THE MICRO RNA BIOGENESIS
MACHINERY IN MAMMALIAN NEUROGENESIS
(S15-4)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 16

The evolutionary diversity of nervous system development - from worms to humans

Nico Posnien and Max Stephen Farnworth, Göttingen

The structural and functional organization of animal nervous systems is highly variable and the extent of this variation has fascinated a great number of biologists. Comprehensive comparison of nervous system morphology, connectivity and function among nearly all branches of the animal tree of life has resulted in astonishing insights into conserved and divergent aspects. Recent advances in molecular genetics in well-established model organisms such as the fruit fly *Drosophila melanogaster* or the mouse *Mus musculus* allow to study nervous system organization in great detail. This data inevitably represents a solid basis for broad comparisons of adult brain and nervous system functionality. However, if comparative studies are restricted to a few selected model organisms, it is difficult to draw general conclusions on the origin of nervous systems and their organizational subunits like anteriorly centralized brains. In the last two decades, research in the field of evolutionary developmental biology (evo-devo) has proven that the combination of comparative embryology and molecular methodology represents a very efficient approach to identify homologous nervous system structures among different animal groups. The basic assumption of evo-devo related research questions is that the diversification of adult and hence functional organs is to a large part due to variation in the underlying developmental processes and developmental gene regulatory networks. With this symposium, we want to highlight recent advances as well as future directions in the field of nervous system development and evolution. Our multidisciplinary group of speakers will certainly be able to provide new impulses to the entire field by identifying commonalities, divergences and shared challenges of studying nervous system development and evolution in strongly different groups of model species. Especially the exchange of used methods and the underlying theoretical frameworks will foster interactions and hopefully facilitate future fruitful collaborations among researchers studying different aspects of nervous system organization and function.

Symposium 16

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 104

Chairs: Nico Posnien and Max Stephen Farnworth,
Göttingen

14:30 **Short Introduction**

14:35 Patrick Callaerts, Leuven, Belgium
THE GENETIC BASIS OF NATURAL VARIATION IN MUSHROOM BODY SIZE IN *DROSOPHILA MELANOGASTER* (S16-1)

15:00 Angelika Stollewerk, London, UK
EVOLUTION OF NEUROGENESIS IN ARTHROPODS – CONSERVED FEATURES AND FLEXIBLE TOOLS (S16-2)

15:25 Katharina Beer, Würzburg
COMPARISON OF THE CIRCADIAN CLOCK OF SOCIAL AND SOLITARY BEES (S16-3)

15:40 Gregor Bucher, Göttingen
DEVELOPMENTAL CONSERVATION AND DIVERSITY OF THE INSECT BRAIN (S16-4)

16:05 Wieland B. Huttner, Dresden
NEURAL STEM AND PROGENITOR CELLS AND NEOCORTEX EXPANSION IN DEVELOPMENT AND EVOLUTION (S16-5)





Introductory Remarks to Symposium 17

Experience-dependent plasticity in chemosensation

Ricarda Scheiner and Sylvia Anton, Würzburg and Angers (France)

Chemosensory experience is well-known to shape animal behaviour, and major advances have been made in the last few decades to understand the neuronal mechanisms underlying learning and memory. The vast majority of this research has been performed on model organisms such as rodents, the fruit fly and honeybees, but evidence for learning abilities has also been found in many non-model organisms. The time-scales over which experience influences the nervous system and behaviour are highly variable: long-lasting influence of various environmental factors can modify neural networks and behaviour elicited by chemosensory signals both during development and in adult animals. But a brief association of an odour with an attractive or aversive gustatory stimulus can also lead to significant anatomical and physiological changes within the central nervous system and result in behavioural adaptation to the experienced stimuli. In this symposium we present the latest advances on structural and functional modifications of the insect and vertebrate nervous systems caused by chemosensory experience. In the first part, speakers will demonstrate how environmental factors experienced during development or during adult life induce anatomical and functional plasticity in primary and secondary olfactory centres within the brain in social insects and rodents. In the second part the role of dopaminergic modulation of central nervous circuits in the extinction or consolidation of olfactory memory in the fruit fly will be presented. Finally peripheral processing of gustatory and olfactory signals involved in learning in social insects will be highlighted.

Symposium 17

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 102

Chairs: Ricarda Scheiner and Sylvia Anton,
Würzburg and Angers (France)

- 14:30 **Opening Remarks**
- 14:35 Claudia Groh, Würzburg
DEVELOPMENTAL AND ADULT NEURONAL
PLASTICITY OF OLFACTORY SYNAPTIC
MICROCIRCUITS IN THE MUSHROOM-
BODY CALYX OF SOCIAL HYMENOPTERA
(S17-1)
- 15:00 Jean-Christophe Sandoz, Gif-sur-Yvette, France
SOCIAL CONTACT AS A REINFORCEMENT IN
OLFACTORY LEARNING IN HONEYBEES (S17-2)
- 15:25 Scott Waddell, Oxford, UK
RE-EVALUATION OF LEARNED INFORMATION
IN *DROSOPHILA* (S17-3)
- 15:50 Geraldine Wright, Newcastle upon Tyne, UK
A TEMPORAL CODE FOR SUGAR CONCEN-
TRATION FROM THE GUSTATORY NEURONS
OF BUMBLEBEES (S17-4)
- 16:15 Hanna Cholé, Gif-sur-Yvette, France
ANTENNAL RESPONSE TO ODORANTS WITH
INNATE OR ACQUIRED HEDONIC VALUES IN
HONEY BEES (*APIS MELLIFERA*) (S17-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 18

Computations - from sensations to decisions

Markus Rothermel and Wolfgang Kelsch, Aachen and Mannheim

Our symposium proposal entitled Computations - from Sensation to Decision will highlight some of the most recent advances in computational, sensory and cognitive approaches in neuroscience. Stimulus sampling requires appropriate functioning of sensory organs and stimulus detection. Stimulus perception and the organisms reaction is influenced by complex computations in bottom up and top down systems, reflecting the internal animal state. Our symposium tries to shed light on these complex processes by combining speakers investigating different modalities and different model systems. Benedikt Grothe will talk about absolute versus relative perception of auditory processing especially focusing on how spatial context determines sound localization. Andreas Schäfer who uses the olfactory system as a model will tackle the question how behavior emerges from the properties of molecules and ensembles of cells. Andrew Straw works in *Drosophila* and uses both virtual reality in freely moving animals and precise circuit manipulations with neuro-genetics of various forms. His talk will focus on the emergence of behavior from the interplay of multiple physiological processes and an animal's own environmental surroundings. Finally, Wolfgang Kelsch and Markus Rothermel will focus on the modulation of sensory information processing via top-down systems using the anterior olfactory nucleus as a model.

Symposium 18

Thursday, March 23, 2017
14:30 - 16:30, Lecture Hall 8

Chairs: Markus Rothermel and Wolfgang Kelsch,
Aachen and Mannheim

- 14:30 **Opening Remarks**
- 14:35 Benedikt Grothe, Martinsried
ABSOLUTE VERSUS RELATIVE PERCEPTION OF
AUDITORY PROCESSING - HOW SPATIAL
ACOUSTIC CONTEXT DETERMINES SOUND
LOCALIZATION (S18-1)
- 15:00 Andreas Schäfer, London, UK
ADAPTIVE ACTIVE SAMPLING BEHAVIOUR
UNDERLIES CONTEXTUAL MODULATION IN
AN EARLY SENSORY SYSTEM (S18-2)
- 15:25 Markus Rothermel and Wolfgang Kelsch, Aachen
and Mannheim
CORTICAL TOP-DOWN CONTROL OF EARLY
OLFACTORY PROCESSING (S18-3)
- 15:50 Andrew D. Straw, Freiburg
MULTIPLE FLY VISUO-MOTOR BEHAVIORS
PREDICTED BY A SINGLE BIOLOGICALLY
PLAUSIBLE CIRCUIT (S18-4)
- 16:15 Suzanne van der Veldt, Berlin
TOP-DOWN INPUTS ONTO LATERAL HYPO-
THALAMUS DETERMINE SIGNALING OF
FEEDING-RELATED CELLS (S18-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 19

Epigenetic mechanisms of behavior and physiological regulation

Aron Weller and Noam Meiri, Ramat Gan and Bet Dagan (Israel)

There is now accumulating evidence that on an individual level health or disease critically depend on the interaction between genes and environment. Epigenetic mechanisms such as histone-modification, DNA-methylation and non-coding RNA-mediated processes are key-regulators of gene-environment interactions. Furthermore, the environmental effects of epigenetic regulation have recently been implicated in the pathogenesis of a wide range of diseases. In addition, these mechanisms have also been implicated in mediating individual differences in resilience vs. susceptibility to environmental stressors. These individual differences accumulate throughout life. They are probably marked during embryogenesis, modified according to life-long events, and there are some indications that they are inherited to next generations. Thus our current hypothesis is that dysregulation of genome-environment interactions, especially via altering epigenetic gene-expression in key circuits in the brain, underlies pathological behavioral and physiological phenotypes. The symposium will detail diverse studies from cellular models, animal models including chicks, mice and rats to humans. It will highlight epigenetic effects on diverse phenotypes including social behavior, social trauma, responsivity to environmental stress, obesity and cognitive decline using a combination of behavioral, physiological, molecular, genetic and bioinformatic techniques to address these issues. The perspective will be critical, examining the promise of epigenetic mechanisms for understanding underlying mechanisms and for future potential treatments, while highlighting the limitations and complexity of this emerging field.

Symposium 19

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 8

Chairs: Aron Weller and Noam Meiri,
Ramat Gan and Bet Dagan (Israel)

- 11:30 **Opening Remarks**
- 11:35 André Fischer, Göttingen
EPIGENETIC MECHANISMS OF BEHAVIOR
AND PHYSIOLOGICAL REGULATION (S19-1)
- 12:00 Inga Neumann, Regensburg
EPIGENETIC REGULATION OF THE OXYTOCIN
SYSTEM WITHIN THE LATERAL SEPTUM IN
SOCIAL FEAR CONDITIONING (S19-2)
- 12:25 Noam Meiri, Bet Dagan, Israel
THE BALANCE BETWEEN HEAT STRESS RESILI-
ENCE AND VULNERABILITY IS MEDIATED BY
DYNAMIC DNA METHYLATION AND DE-
METHYLATION ALONG THE CORTICOTROPIN-
RELEASING HORMONE GENE (S19-3)
- 12:50 Aron Weller, Ramat Gan, Israel
EPIGENETIC MECHANISMS UNDERLYING
PARENTAL HIGH-FAT DIET INDUCED OBESITY
IN THE OFFSPRING (S19-4)
- 13:15 Laura Spindler, Mainz
GENE REGULATION AND EPIGENETICS OF A
LIFETIME BODY-SIZE MEMORY IN *DROSOPHILA*
(S19-5)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 20

Common ground plan of the insect brain architecture

Kei Ito and Ansgar Büschges, Cologne

A brain features a complex network of neuronal fibres. They form many substructures each of which is supposed to handle certain aspects of information processing and to work synergistically to achieve neuronal computation. Understanding how they are organized and working together is one of the fundamental questions of neuroscience. Identification of such substructures, however, is not a trivial problem. Brain of each animal species is a consequence of elaborated specialisation through many years of evolution. A characteristic feature found in a brain of one species may or may not be a common general feature across taxa. In this respect, it should be important and effective to perform systematic comparison of the brains of various species that belong to certain evolutionary clade. Insect brain is a suitable model system for such venture. Compared to the large brain of mammals, insect brains are smaller and relatively simpler, enabling, in principle, comprehensive comparison of the entire brain architecture. Reflecting four to five hundred million years of evolution, their brains show large diversification, yet certain characteristics appear to be shared. Comparison of their brains according to the evolutionary clades should provide insights on how the brain architecture is organized and evolved. During the past 200 years, scientists have analysed the brains of diverse insect species, but interspecies comparison tend to have remained superficial, focusing only on prominent structures that are easily recognizable by classic histological methods. However, recent advances in molecular, physiological and imaging neurobiology have provided various new tools for analysing the brain. In addition, a systematic nomenclature for the insect brain was proposed in 2014 to partition the entire brain into subregions in a reasonable way and provide common names to them. These advances should promote comparative analysis as well as communication between scientists who work on different insect species. This symposium presents recent advances on the understanding of the brains of various insects, and discusses how knowledge obtained by the study of one species can be compared and extended across taxa. Through this symposium we intend to provide perspectives for organizing broad collaboration of scientists to understand the common ground plan and building principles of the insect brain neuronal network.

Symposium 20

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 105

Chairs: Kei Ito and Ansgar Büschges, Cologne

- 11:30 **Opening Remarks**
- 11:35 Kei Ito, Cologne
HIGH-THROUGHPUT SYSTEMATIC IDENTIFICATION OF NOVEL NEURONS IN THE *DROSOPHILA* BRAIN AS A REFERENCE FOR COMPARATIVE ANALYSIS (S20-1)
- 12:00 Frank K. Schubert, Würzburg
SINGLE CELL MORPHOLOGY OF THE LATERAL CLOCK NEURONS IN *DROSOPHILA MELANOGASTER* (S20-2)
- 12:10 Keram Pfeiffer, Marburg
COMPARISON OF THE SKY-COMPASS PATHWAY IN DIFFERENT INSECT SPECIES (S20-3)
- 12:35 Wolfgang Rössler, Würzburg
EVOLUTION OF A SOCIAL INSECT BRAIN – INSIGHTS FROM COMPARATIVE STUDIES (S20-4)
- 13:00 Nicholas Strausfeld, Tuscon, USA
GENEALOGICAL CORRESPONDENCE OF BRAIN CENTERS ACROSS *PANCRUSTACEA* (S20-5)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 21

System memory consolidation during sleep

Til Ole Bergmann and Jan Born, Tübingen

The collaborative research center on 'Plasticity & Sleep' (TR-SFB 654) brings together investigators who study the role of sleep in promoting the consolidation of memories in the neurobehavioral, metabolic, and immune system. The unifying assumption is that the plastic processes underlying sleep-dependent memory consolidation in these systems are, despite their different anatomical substrates, partly conveyed via very similar mechanisms, transforming memories from an initially labile to a stable form for long-term storage. Because storage capacities are limited, system consolidation must additionally reduce information by abstracting the behaviorally or functionally relevant 'gist'. Jan Born will introduce the collaborative research center and the key concepts of active system memory consolidation across systems. Susanne Diekelmann will demonstrate how learning-associated odor cues presented during sleep can induce reactivation and reorganization of previously acquired memory traces, resulting in improved memory performance. Til Ole Bergmann will discuss the neuro-oscillatory mechanisms underlying the hippocampo-neocortical redistribution of memories during sleep, namely the interaction of neocortical slow oscillations (< 1 Hz), thalamo-cortical spindles (12-15 Hz), and hippocampal ripples (~ 80 -100 Hz). Gordon Feld will review the neuro-chemical machinery of plasticity in the brain that is mediating sleep-dependent memory consolidation, presenting pharmacological studies that target specific neurotransmitter systems in humans (e.g., glutamate, GABA, dopamine, acetylcholine). Tanja Lange will draw the link to immunological memory, that is the formation of antigen-specific T and B cells, and introduce the sleep-specific processes that subserve its consolidation. Albrecht Vorster will demonstrate that even organisms with comparably simple nervous system, such as *Aplysia californica*, benefit from sleep when tested on an operant avoidance learning task. Jens Klinzing will show that the acetylcholine-esterase inhibitor physostigmine administered during sleep does not suppress the memory-enhancing effect of odor-induced memory reactivation in humans.

Symposium 21

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 10

Chairs: Til Ole Bergmann and Jan Born, Tübingen

- 11:30 **Opening Remarks**
- 11:40 Susanne Diekelmann, Tübingen
CUEING MEMORY REACTIVATION DURING SLEEP (S21-1)
- 12:00 Til Ole Bergmann, Tübingen
NEURONAL OSCILLATIONS MEDIATING SLEEP-DEPENDENT MEMORY CONSOLIDATION (S21-2)
- 12:20 Gordon Feld, Tübingen
THE NEUROCHEMICAL MECHANISMS OF SLEEP-DEPENDENT MEMORY CONSOLIDATION (S21-3)
- 12:40 Tanja Lange, Lübeck
EFFECTS OF SLEEP ON IMMUNOLOGICAL MEMORY PROCESSES (S21-4)
- 13:00 Albrecht Vorster, Tübingen
THE EFFECT OF SLEEP ON OPERANT CONDITIONING IN *APLYSIA CALIFORNICA* (S21-5)
- 13:10 Jens Gerrit Klinzing, Tübingen
NO EFFECTS OF INCREASED ACETYLCHOLINE ON ODOR-INDUCED MEMORY REACTIVATION DURING SLOW WAVE SLEEP (S21-6)
- 13:20 **Concluding Remarks**





Introductory Remarks to Symposium 22

From monocytes to microglia - conditions influencing the fate of myeloid cells in the brain

Josef Priller and Marco Prinz, Berlin and Freiburg

The brain hosts a heterogenous population of myeloid cells, including microglia, perivascular cells, meningeal macrophages and disease-associated blood-borne monocytes. In contrast to other glial cells, brain macrophages are more closely related to the peripheral immune system than to the neuroectoderm. Thus far, the different types of brain macrophages have been discriminated solely on the basis of their localization, morphology and surface epitope expression. However, recent data suggest that brain-resident microglia may be functionally distinct from the bone marrow-derived macrophages that invade the CNS under pathological conditions. During the last few years, the advent of novel tools in imaging, genetics and immunology, in particular transgenic mouse models, has dramatically changed research into brain macrophages. Recent studies making use of these new methodologies have yielded unexpected results that challenge the traditional view of brain macrophages. Members of the DFG Research Unit 1336 have gained major new insights into the conditions that influence brain macrophage subtypes with regard to their origin, function and fate within the CNS. This symposium will highlight the latest developments on I) the origin and fate of CNS macrophages (Prinz); II) the role of bone marrow-derived myeloid cells in the diseased brain (Priller); III) the visualization of myeloid cells during CNS autoimmunity (Flügel); and finally, IV) microglia aging (Bechmann).

Symposium 22

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 104

Chairs: Josef Priller and Marco Prinz, Berlin and Freiburg

11:30 **Opening Remarks**

11:35 Ingo Bechmann, Leipzig
MICROGLIA AGING (S22-1)

12:00 Alexander Flügel, Göttingen
LIVE ANALYSIS OF T-CELL INTERACTIONS WITH
MYELOID CELLS WITHIN NASCENT AUTO-
IMMUNE CNS LESIONS (S22-2)

12:25 Josef Priller, Berlin
THERAPEUTIC POTENTIAL OF MYELOID CELLS
IN NEURODEGENERATIVE DISEASES (S22-3)

12:50 Marco Prinz, Freiburg
MYELOID CELLS IN THE CNS (S22-4)

13:15 Najwa Ouali Alami, Ulm
ASTROCYTES-RESTRICTED NF- κ B ACTIVATION
ENHANCES MICROGLIAL RESPONSE AND IN-
DUCES A TRANSIENT NEUROPROTECTION
ON MOTOR NEURONS DURING ALS DISEASE
PROGRESSION (S22-5)

13:25 **Concluding Remarks**



Introductory Remarks to Symposium 23

Comparative connectomics: Recent approaches and functional implications

Andreas Thum and Michael Pankratz, Konstanz and Bonn

How is behavior output organized within a brain based on external sensory inputs, internal motivational states or even knowledge gained through prior experience? Understanding these processes is the most essential issue in the field of neuroscience. Several projects face this major challenge of today's neuroscience by investigating brain anatomy with synaptic resolution (connectomics). In several cases animals serve as model systems for these approaches to decrease the neuroanatomical complexity while at the same time increasing the technical accessibility. Given recent technical developments on 3D volume electron microscopy several groups have revisited this approach. Thus, connectome development is becoming more and more important for today's neuroscience. Ultimately these studies seek to solve neuroanatomical limitations by providing a synaptic wiring diagram of a particular brain subregion or even the entire brain. Recent approaches include (to name just some of them) the mouse retina, pieces of the mouse cortex, the olfactory bulb of zebrafish larvae, the visual system of adult *Drosophila*, the entire brain of larval *Drosophila* and the entire nervous system of the annelid *Platynereis*. With this workshop we want to show selected examples of connectomes that differ in the applied technique, model organism and complexity of the reconstructed neuronal tissue. Gáspár Jékely from the MPI Tübingen (Germany) will talk about his recent approach to reconstruct the connectome of the larval stage of the marine annelid *Platynereis dumerilii*. Albert Cardona (HHMI Janelia, USA) will introduce recent developments in reconstructing the connectome of the *Drosophila* larva. Gaia Tavosanis (DZNE Bonn, Germany) will report on the synaptic reconstruction of the adult *Drosophila* mushroom body. Rainer Friedrich (FMI Basel, Switzerland) will provide an overview on the recent approaches in zebrafish.

Symposium 23

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 9

Chairs: Andreas Thum and Michael Pankratz,
Konstanz and Bonn

- 11:30 **Opening Remarks**
- 11:40 Gáspár Jékely, Tübingen
NEURONAL CONNECTOME OF THE
PLATYNEREIS LARVA (S23-1)
- 12:00 Albert Cardona, Ashburn, USA
NEURAL CIRCUITS FOR MULTISENSORY INTE-
GRATION AND MEMORY-BASED BEHAVIORAL
CHOICE (S23-2)
- 12:20 Gaia Tavosanis, Bonn
THE CALYCAL MICROGLOMERULUS: A SMALL
CIRCUIT IN THE SPOTLIGHT (S23-3)
- 12:40 Rainer Friedrich, Basel, Switzerland
DECONSTRUCTION AND RECONSTRUCTION
OF OLFACTORY COMPUTATIONS IN ZEBRA-
FISH (S23-4)
- 13:00 Katharina Eichler, Ashburn, USA
COMPLETE CONNECTOME OF A LEARNING
CIRCUIT (S23-5)
- 13:10 Anton Miroshnikow, Bonn
THE SENSORY-MOTOR-ARCHITECTURE OF
FEEDING NETWORKS IN FLIES (S23-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 24

Breaking News

Marc Spehr, Aachen

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 the Breaking News symposia.

The following students were selected to give a short communication in Symposium 24 – Breaking News:

11:30 **Opening Remarks**

- 11:35 Luan Castro Tonelli, Marburg
PARKINSONIAN RATS RESPOND TO ULTRASONIC VOCALIZATIONS: A NEW ANIMAL MODEL OF PARADOXICAL KINESIA (S24-1)
- 11:45 Christos Galanis, Düsseldorf
REPETITIVE MAGNETIC STIMULATION RESTORES ALTERATIONS IN SYNAPTIC EXCITATION/INHIBITION-BALANCE OF HIPPOCAMPAL SLICE CULTURES IN THE POLY(I:C) GESTATIONAL IMMUNE ACTIVATION MODEL OF SCHIZOPHRENIA (S24-2)
- 11:55 Pauline Nikola Fleischmann, Würzburg
THE CHOREOGRAPHY OF LEARNING WALKS IS CRUCIAL FOR THE NAVIGATIONAL PERFORMANCE OF CATAGLYPHIS DESERT ANTS (S24-3)

Symposium 24

Friday, March 24, 2017
11:30 - 13:30, Lecture Hall 102

Chair: Marc Spehr, Aachen

- 12:05 Roland Feger, Aachen
REPRESENTATION OF THE AUDITORY SPACE
IN THE BARN OWL'S MIDBRAIN: DOES EVERY
SPIKE MATTER? (S24-4)
- 12:15 Ankita Ravi Vaswani, Bonn
UNDERSTANDING THE MECHANISMS THAT
REGULATE THE MIGRATION OF MIDBRAIN
DOPAMINERGIC NEURONS IN THE DEVELO-
PING BRAIN (S24-5)
- 12:25 **Break**
- 12:35 Irene Sanchez-Brualla, Marseille, France
5-HT_{2A} AGONIST TCB-2 REDUCES NEURO-
PATHIC PAIN THROUGH UP-REGULATION OF
KCC2 (S24-6)
- 12:45 Malte Bieler, Hamburg
OSCILLATORY ENTRAINMENT AND FIRING
PATTERNS ENCODE VISUAL-TACTILE INFOR-
MATION IN FIRST-ORDER THALAMIC NUCLEI
(S24-7)
- 12:55 Olga Babaev, Göttingen
INHIBITORY SYNAPTIC ADHESION PROTEINS
REGULATE ANXIETY PROCESSING (S24-8)
- 13:05 Sandra Richter, Magdeburg
DIFFERENTIAL REGULATION OF SYNAPTIC
PROTEOMES AFTER APPETITIVE AND AVERSIVE
AUDITORY LEARNING IN MICE (S24-9)
- 13:15 Franziska E. Müller, Hannover
ROLE OF SEROTONERGIC SIGNALING IN
REGULATION OF ASTROCYTES MORPHOLOGY
(S24-10)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 25

Spike timing-dependent plasticity (STDP): from functions in circuits towards possible treatment of humans

Elke Edelman and Volkmar Leßmann, Magdeburg

STDP is a physiological relevant stimulation protocol to induce bidirectional synaptic plasticity and serves as a cellular model for different types of learning and memory. Timed causal or anti-causal pairings of activity in synaptically connected neurons lead to either long-lasting synaptic enhancement (timing-dependent long-term potentiation, t-LTP) or depression (t-LTD). T-LTP and t-LTD like changes can be observed in different experimental systems ranging from cultured neurons up to complex behaviors in humans. Recently, computational neuroscience has been proven to be a powerful and versatile tool to better understand the complex function of STDP.

In our symposium we aim at presenting recent progress in different areas of STDP research in a “bench-to-bedside” approach, including computational neuroscience. We will report about STDP-like mechanisms observed in distinct neuronal circuits in various brain areas. We will cover different aspects of STDP and STDP-like mechanisms, starting with a discussion on how STDP shapes neuronal circuits, networks and synaptic efficacies. Using those concepts, we will move on to STDP learning rules and underlying signaling cascades engaged by different STDP paradigms in brain slices. In the second part of our symposium, we will talk about timing-dependent plasticity mechanisms in the human motor system. Here we will address STDP-like mechanisms in motor learning in humans, which might lead to novel strategies to improve motor skill learning. Finally we will discuss novel experimental data, which indicate that repetitive transcranial magnetic stimulation may recruit STDP-like mechanisms to affect and regulate cortical excitability.

In our symposium, we will connect results from cutting edge STDP research in distinct fields of neuroscience that can be observed at different levels of neuronal complexity, ranging from theoretical considerations *in silico* to application in humans.

The symposium is supported by the DFG (SFB779).

Symposium 25

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 9

Chairs: Elke Edelman and Volkmar Leßmann,
Magdeburg

- 14:30 **Opening Remarks**
- 14:35 Jochen Triesch, Frankfurt
STDP AND ITS FUNCTION IN NEURAL
CIRCUITS (S25-1)
- 15:00 Elke Edelman, Magdeburg
HOW SPIKE PATTERNS SHAPE SPIKE TIMING-
DEPENDENT PLASTICITY RULES AND UNDER-
LYING SIGNALING MECHANISMS (S25-2)
- 15:25 Patrick Ragert, Leipzig
NON-INVASIVE ASSESSMENT OF TIMING-
DEPENDENT PLASTICITY IN THE HUMAN
MOTOR SYSTEM (S25-3)
- 15:50 Andreas Vlachos, Düsseldorf
REPETITIVE TRANSCRANIAL MAGNETIC
STIMULATION: ARE WE EXPLOITING SPIKE-
TIMING DEPENDENT PLASTICITY FOR THE
TREATMENT OF PATIENTS? (S25-4)
- 16:15 Aarti Swaminathan, Berlin
SYNAPTIC INPUT AND OUTPUT OF HILAR
MOSSY CELLS DURING SHARP WAVE RIPPLES
(S25-5)
- 16:25 **Concluding Remarks**





Introductory Remarks to Symposium 26

New insights into functional and molecular dynamics of presynaptic calcium channels

Anna Fejtová and Martin Heine, Erlangen and Magdeburg

Voltage-gated calcium channels (VGCC) convert membrane potential changes into intracellular signaling by rapidly changing the intracellular calcium ion concentration. This property has been well studied at the presynapse where VGCC act as a part of multi-protein complexes with highly variable subunit composition, which determines their functional properties, subcellular localization and molecular dynamics. The characteristics of action potential-induced calcium influx through calcium channels dictate in turn the probability and short-term plasticity of synaptic neurotransmitter release. In this symposia we want to spotlight on new insights on the traffic (Annette Dolphin), and macromolecular organization of presynaptic calcium channels (Bernd Fakler), their role in the regulation of fast neurotransmission (Stefan Hallermann) and in synaptic homeostatic plasticity (Martin Müller). Investigators have used broad spectra of methodological approaches ranging from live-cell imaging, quantitative proteomics, genetics in mouse and in fly, super-resolution microscopy, and mathematic modeling. With this symposium, we will discuss the function of calcium channels beyond the ion conduction and highlight their role in the integration of presynaptic release machinery and as a target for manifold regulations.

Symposium 26

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 105

Chairs: Anna Fejtová and Martin Heine,
Erlangen and Magdeburg

14:30 **Opening Remarks**

14:35 Annette Dolphin, London, UK
N-TYPE VOLTAGE-GATED CALCIUM CHANNELS: ROLE OF $\alpha 2\delta$ SUBUNITS IN TRAFFICKING AND FUNCTION (S26-1)

15:00 Bernd Fakler, Freiburg
ASSEMBLY AND DYNAMICS OF MACROMOLECULAR COMPLEXES IN CNS SYNAPSES (S26-2)

15:25 Stefan Hallermann, Leipzig
PRESYNAPTIC CALCIUM INFLUX AND BUFFERING AT A FAST CENTRAL SYNAPSE (S26-3)

15:50 Martin Müller, Zurich, Switzerland
LOCAL PROTEIN DEGRADATION CONTROLS PRESYNAPTIC CALCIUM INFLUX AND HOMEOSTATIC SYNAPTIC PLASTICITY (S26-4)

16:15 Jennifer Heck, Magdeburg
CALCIUM CHANNEL SURFACE DYNAMIC INFLUENCES SYNAPTIC TRANSMISSION (S26-5)

16:25 **Concluding Remarks**



Introductory Remarks to Symposium 27

The neuroscience of good and evil: translational insights into pro- and antisocial decision-making

*Trynke de Jong and Marijn van Wingerden, Regensburg
and Düsseldorf*

Social decision-making is of incredible importance to all social animals, including humans and rats. To approach or avoid, to attack or befriend, to help at a cost or to harm for a profit? The wrong decision may waste valuable energy at best or cause social exclusion or even severe physical damage at worst. Social neuroscientists are currently making rapid progress to understand how the brain controls social decision-making. Increasingly sophisticated human neuroimaging studies analyze the neurobiological correlates of social behavior in both healthy subjects and patients suffering from social-emotional disorders such as autism, conduct disorder, borderline personality disorder and antisocial personality disorder. Simultaneously, established and innovative rodent paradigms are utilized to delineate neuronal networks and neurotransmitters underlying pro- and antisocial interactions. In the present symposium we want to bring together four social neuroscientists to present and discuss these developments. Bernd Weber and Katja Bertsch will bring us up to date on their findings on social decision-making in healthy humans as well as patients with socio-emotional disorders. Marijn van Wingerden and Trynke de Jong will present their recent results on the neuroscience underlying pro-social choices and anti-social offensive and sexual aggression in rats. Special emphasis will be placed on the role of the amygdala and cortical areas in socio-emotional behavior, on the modulation of social decisions by the neuropeptides oxytocin and vasopressin, and on putative sex-differences. The symposium will not only focus on the exchange of recent data and insights, but is also expected to inspire a more philosophical debate (both during and after the symposium): is it likely to find neurobiological markers that unequivocally distinguish pro-social, altruistic, empathic individuals from anti-social, egoistic, callous ones? Can social rodents adequately model the full array of human social interactions, or are the ultimate and/or proximate causes of their social decision-making fundamentally different from ours? And finally, how does social-decision making change in the development from infancy to adulthood in males compared to females?

Symposium 27

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 8

Chairs: Trynke de Jong and Marijn van Wingerden,
Regensburg and Düsseldorf

- 14:30 **Opening Remarks**
- 14:40 Bernd Weber, Bonn
THE ROLE OF ATTENTION IN THIRD-PARTY
PUNISHMENT (S27-1)
- 15:00 Katja Bertsch, Heidelberg
NEUROBIOLOGICAL CONTRIBUTIONS
TO A BETTER UNDERSTANDING OF HUMAN
AGGRESSION: WHAT CAN WE LEARN FROM
RECENT STUDIES? (S27-2)
- 15:20 Marijn van Wingerden, Düsseldorf
THE NEURAL BASIS OF SOCIAL CHOICE IN
RODENTS (S27-3)
- 15:40 Trynke de Jong, Regensburg
ANIMAL MODELS OF ANTI-SOCIAL BEHAVIOUR:
ROLE OF OXYTOCIN AND VASOPRESSIN (S27-4)
- 16:00 Antoine Couto, Gif-sur-Yvette, France
HORNETS HAVE IT: A CONSERVED OLFAC-
TORY SUBSYSTEM FOR SOCIAL RECOGNITION
IN HYMENOPTERA (S27-5)
- 16:10 Ina Hübener, Marburg
SEEING FACES IN RANDOM NOISE: A BRAIN
NETWORK FOR ILLUSORY FACE PERCEPTION
(S27-6)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 28

Glia – all the same? Increasing evidence for glial heterogeneity

Stephanie Griemsmann and Felix Beyer, Düsseldorf

Historically, glial cells have been regarded as passive glue located between neurons. This dogma has changed over the past decades and glial cells are now recognized as active partners controlling brain function by various means, e.g. metabolic support, ion homeostasis and insulation of axons for high velocity conduction. At least four major classes of central nervous system glial cells are described, namely astrocytes, microglia, NG2 cells and oligodendrocytes. In order to shed light on glial heterogeneity it is essential to investigate cellular and molecular aspects of glial subpopulations and to describe their development and differentiation - starting from neural stem cells, leading to precursors and finally giving rise to fully matured cells. To this end a number of different *in vitro* and *in vivo* approaches are currently applied.

In this symposium we will present results of the German-Japanese "YoungGlia" consortium which is a common effort of the DFG priority research programme 1757 on "Glial heterogeneity" and the Japanese Grant-in-Aid for Scientific Research on Innovative Ideas "Glial Assembly: A new regulatory machinery of brain function and disorders". This consortium promotes collaborative research projects of young investigators (PhD students or postdocs) of the two countries. Presentations will focus on the genetic control of oligodendroglial differentiation by inhibition of p57kip2 (CDKN1C) and the role of phosphatase Dusp15 in myelinating oligodendrocytes. Further we will address glial receptor profiles, such as AMPA receptors, metabolic aspects and network activities of astrocytes.

The role of Dusp15, which was recently identified as a novel target of the transcription factors Sox10 and Myrf and is a promising candidate regulator of oligodendrocyte differentiation, will be presented by Melanie Küspert. Felix Beyer presents insights into the role of p57kip2 during neural stem cell differentiation. New insights on metabolic coupling of neurons and astrocytes and the heterogeneity of the metabolic response of astrocytes even in the same region will be presented by Rodrigo Lerchundi. Stephanie Griemsmann will report on AMPA receptor targeting in glial cells. These new data will provide further insights into glial heterogeneity serving as critical determinant of the functional specialization of the brain.

Symposium 28

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 104

Chairs: Stephanie Griemsmann and Felix Beyer,
Düsseldorf

- 14:30 **Opening Remarks**
- 14:40 Felix Beyer, Düsseldorf
MECHANISTIC INSIGHTS OF OLIGODENDROGLIAL CELL GENERATION FROM NEURAL STEM CELLS (S28-1)
- 15:00 Melanie Küspert, Erlangen
THE DUAL-SPECIFICITY PHOSPHATASE DUSP15 IS A DOWNSTREAM EFFECTOR OF SOX10 AND MYRF IN MYELINATING OLIGODENDROCYTES (S28-2)
- 15:20 Stephanie Griemsmann, Düsseldorf
GLUTAMATE RECEPTOR TARGETING IN GLIAL CELLS (S28-3)
- 15:40 Rodrigo Lerchundi, Düsseldorf
STUDY OF BRAIN METABOLISM BY SINGLE CELL IMAGING (S28-4)
- 16:00 Carmen V. Bohn, Homburg
ANALYSIS OF PURINERGIC P2Y1 RECEPTOR FUNCTION IN CORTICAL ASTROCYTES AND CEREBELLAR BERGMANN GLIA (S28-5)
- 16:10 Laura Schlosser, Homburg
STUDY OF ASTROCYTE-SPECIFIC AND INDUCIBLE GABAB RECEPTOR DELETION IN THE MOUSE BRAIN (S28-6)
- 16:20 **Concluding Remarks**

glial
heterogeneity 

SPP1757



Introductory Remarks to Symposium 29

To eat? To sleep? To run? Coordination of innate behaviors by hypothalamic circuits

Tatiana Korotkova and Antoine Adamantidis, Berlin and Bern (Switzerland)

Hypothalamus is crucial for the regulation of innate behaviors, including food intake, sleep and arousal. Pathologies of hypothalamus lead to widely spread sleep and eating disorders. In this symposium the speakers will present their latest results on functions of genetically-defined hypothalamic circuits and on their role in the initiation, maintenance and coordination of multiple vital functions. They will also highlight how dysfunctions of hypothalamic circuitries may contribute to obesity and sleep disorders. J. Brüning will present his work focusing on the identification and functional characterization of melanocortin-dependent neurocircuits, which control peripheral insulin sensitivity and glucose homeostasis. He will further discuss how melanocortin neurocircuits adapt food intake and energy expenditure according to fuel ability, as well as coordinate the fluxes of fuels across different organs. A. Adamantidis will describe a role of GABA cells in lateral hypothalamus (LH) and their projections to TRN (reticular thalamic nucleus) in sleep-wake states. Optogenetic activation of LHGABA-RTN circuit induces rapid arousal during NREM sleep, as well as sustained cortical arousal during deep anesthesia. D. Burdakov will lecture on distinct connectivities and dynamics of GABA, orexin and MCH-expressing LH cells. He will present his data on probing of circuit architecture and behavior-related natural signals of different LH neuronal groups and will discuss how it reveals circuit processing rules in LH. T. Korotkova will describe the role of gamma oscillations, coordinated between medial prefrontal cortex, lateral septum and LH, in regulation of feeding behavior. Gamma-rhythmic signaling in this pathway enables separate signaling by LH neurons according to their feeding-related activity, facilitates food-seeking and improves performance in a food-rewarded learning task. Altogether, this symposium will highlight functional organization of major hypothalamic circuits and thus gain insights into the neural basis of behaviors crucial for survival.

We gratefully acknowledge support by The Human Frontier Science Program (HFSP; RGY0076/2012, AA, DB and TK).

Symposium 29

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 102

Chairs: Tatiana Korotkova and Antoine Adamantidis,
Berlin and Bern (Switzerland)

14:30 **Opening Remarks**

- 14:40 Jens Brüning, Cologne
CNS-DEPENDENT REGULATION OF GLUCOSE
HOMEOSTASIS (S29-1)
- 15:00 Antoine Adamantidis, Bern, Switzerland
THALAMIC INTEGRATION OF LH CIRCUITS IN
SLEEP-WAKE STATES (S29-2)
- 15:20 Denis Burdakov, London, UK
INHIBITORY INTERPLAY BETWEEN OREXIN/
HYPOCRETIN NEURONS AND EATING (S29-3)
- 15:40 Tatiana Korotkova, Berlin
GAMMA OSCILLATIONS ORGANIZE TOP-
DOWN SIGNALING TO HYPOTHALAMUS AND
ENABLE FOOD SEEKING (S29-4)
- 16:00 Gretel Betiana Kamm, Heidelberg
THE TRPM2 CHANNEL IS A HYPOTHALAMIC
HEAT SENSOR THAT LIMITS FEVER AND CAN
DRIVE HYPOTHERMIA (S29-5)
- 16:10 Stefan Hirschberg, Bristol, UK
RETROGRADE CHEMOGENETIC DISSECTION
OF THE CENTRAL NORADRENERGIC SYSTEM:
IMPLICATIONS FOR ANALGESIC AND AVERSIVE
NEURONAL CIRCUITS (S29-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 30

ILLUMINATING normal and diseased brain function with *in vivo* fluorescence imaging

Mark Schnitzer and Arthur Konnerth, Munich

This symposium presents an overview of how the rapid advances in optical imaging technologies are improving the ability to use photons in the study of normal and diseased nervous systems. Improved techniques for *in vivo* fluorescence imaging offer new opportunities in systems neuroscience and unprecedented means to monitor and probe the neural dynamics that underlie perception, cognition, and action in live and awake behaving animals. Similarly, these techniques also provide newfound opportunities for uncovering how neural dynamics and brain function go awry in disease states. This symposium will showcase state-of-the-art optical investigations of neural dynamics across multiple mammalian brain systems, both in healthy animals and in animal models of neurodegenerative disease. Research highlights will be drawn from *in vivo* imaging studies of sensory cortex, cellular and circuit impairments underlying Alzheimer disease, and striatal ensemble neural dynamics in the brains of normal and Parkinsonian mice. Collectively, these studies highlight the extent to which *in vivo* optical imaging has become an integral tool for both systems neuroscience and the neurobiology of disease. Speakers will discuss several complementary optical techniques, the novel types of experiments they enable, and the impact on studies of brain diseases. Both the cutting edge optical approaches and the disease applications we present will be diverse:

- Large-scale studies of neural circuit impairments in the brains of Alzheimer model mice (Busche).
- Ensemble neural dynamics of the striatal direct and indirect pathways in freely moving mice, in normal and Parkinsonian states (Schnitzer).
- Imaging studies of primary sensory cortex and its unexpected role in an anticipatory motor response (Chen).
- Two-photon imaging of cellular morphology and dynamics in live mice; toward uncovering cellular mechanisms of Alzheimer disease (Grutzendler).

Together, the presentations will provide a window onto the broad range of imaging techniques that are impacting research on neuropsychiatric disorders and promise to yield major advances towards understanding both basic brain function and disease mechanisms.

Symposium 30

Friday, March 24, 2017
14:30 - 16:30, Lecture Hall 10

Chairs: Mark Schnitzer and Arthur Konnerth, Munich

- 14:30 **Opening Remarks**
- 14:35 Xiaowei Chen, Chongqing, China
MOUSE AUDITORY CORTEX IS REQUIRED FOR
ANTICIPATORY MOTOR RESPONSE (S30-1)
- 15:00 Mark Schnitzer, Stanford, USA
IN VIVO IMAGING STUDIES OF STRIATAL EN-
SEMBLE NEURAL DYNAMICS IN NORMAL AND
PARKINSONIAN STATES (S30-2)
- 15:25 Jaime Grutzendler, New Haven, USA
EXPLORING THE COMPLEXITY OF DEMENTIA
NEUROPATHOLOGY WITH IN VIVO OPTICAL
IMAGING (S30-3)
- 15:50 Aurel Busche, Harvard, USA
RESTORING BRAIN FUNCTION IN ALZHEIMER'S
MOUSE MODEL BY BACE INHIBITION (S30-4)
- 16:15 Antje Birkner, Munich
DEEP TWO-PHOTON CALCIUM IMAGING *IN*
VIVO (S30-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 31

Transport mechanisms at the blood-brain barrier

Petra Henrich-Noack, Ingolf E. Blasig and Gert Fricker, Magdeburg, Berlin and Heidelberg

The blood-brain barrier (BBB), although protecting the delicate brain homeostasis, is an obstacle for drug delivery into CNS tissue. However, a silver bullet solution for this problem can be provided by colloidal carrier systems (G. Fricker): Delivery of drugs into the brain can be exploited including surface modified biodegradable polymeric nanoparticles using porcine brain capillary endothelial cells as well as in vivo rat models and confocal laser microscopy. By this therapeutic levels of otherwise not effective drugs can be reached inside the brain.

Importantly, it also has to be addressed whether the possibilities of nanoparticulate drug carriers are applicable and successful in pathological conditions. Here experiments with tumour models (glioblastoma) indicate that this is indeed the case (S. Gelperina). For example, preclinical studies demonstrated high efficacy of the nanoparticulate doxorubicin in the intracranial brain tumour model. A phase 1 trial of the doxorubicin formulation based on the PLGA nanoparticles coated with poloxamer 188 demonstrated the safety of this delivery system.

However, it is important to know the molecular mechanisms determining the BBB function in health and disease (I.E. Blasig). The BBB-forming endothelium, paracellularly sealed by tight junction (TJ) proteins, ensures brain homeostasis and proper metabolite exchange. As far as known, claudin-5 dominates BBB's TJ function. Contribution of other TJ proteins is unclear. Therefore the structure and function of TJs upon stroke are investigated and the feasibility of claudin mimetics to improve stroke recovery as well as cerebral drug delivery.

Last but not least, it is important to understand the interaction and causal relationship of BBB damage and CNS diseases (A. Mahringer). A pathological breakdown of the BBB has been observed in many CNS diseases and results in edema, immune infiltration or neurodegeneration and CNS drug resistance. The characterization of molecular signaling pathways that modify physiological, vascular features in the presence of neurotoxic peptides offers new therapeutic targets in the treatment of CNS diseases to prevent BBB dysfunction and dysregulation.

Symposium 31

Saturday, March 25, 2017
8:30 - 10:30, Lecture Hall 105

Chairs: Petra Henrich-Noack, Ingolf E. Blasig and Gert Fricker, Magdeburg, Berlin and Heidelberg

08:30 **Opening Remarks**

08:40 Gert Fricker, Heidelberg
DRUG DELIVERY TO THE BRAIN BY COLLOIDAL CARRIERS (S31-1)

09:00 Svetlana Gelperina, Moscow, Russia
NANOMEDICINE FOR EFFICIENT CHEMOTHERAPY OF BRAIN TUMOURS: FROM BENCH TO BEDSIDE (S31-2)

09:20 Ingolf E. Blasig, Berlin
CLAUDINS AND CLAUDIN MIMETICS - TIGHT JUNCTION PROTEINS IN NORMAL AND ISCHEMIC BLOOD-BRAIN BARRIER (S31-3)

09:40 Anne Mahringer, Heidelberg
INTERACTION AND CAUSAL RELATIONSHIP OF BLOOD-BRAIN BARRIER DAMAGE AND CNS DISEASE (S31-4)

10:00 Sophie Dithmer, Berlin
CLAUDIN PEPTIDOMIMETICS TO MODULATE THE BLOOD-BRAIN BARRIER FOR ENHANCED DRUG DELIVERY (S31-5)

10:10 Qing You, Magdeburg
GUIDING NANOPARTICLES' DESIGN BY *IN VIVO* VISUALIZATION AND QUANTIFICATION OF THEIR BLOOD-BRAIN BARRIER PASSAGE (S31-6)

10:20 **Concluding Remarks**



Introductory Remarks to Symposium 32

The longitudinal course of psychosis - clinical and neurobiological aspects

Peter G. Falkai and Thomas G. Schulze, Munich

This symposium will give an update of the latest work of the Clinical Research Group 241 (www.kfo241.de) and the PsyCourse consortium (www.PsyCourse.de), based in both Munich and Göttingen. Since 2012, researchers of these center grants have established one of the largest infrastructure worldwide for clinical, genetic, and neurobiological studies into the longitudinal basis of major psychiatric disorders such as schizophrenia (SZ), bipolar disorder (BD), and major depression (MD). Leveraging a sophisticated medical informatics framework for comprehensive phenotypic assessments and biomaterial banking, well over 800 patients have been enrolled at more than 20 sites across Germany and Austria. They have been seen at up to 4 timepoints during a follow-up period of 2 years. At each time point, detailed clinical information as well as biomaterial (DNA, RNA, plasma, serum) are obtained. This unique resource has been complemented by brain imaging, systems biology, and statistical projects by consortium members. At the 2017 meeting, we will present first analyses tapping into this resource that will help shed light on the biological basis of the course of major mental illnesses. Presentations will include in-depth clinical studies describing disease trajectories based on a multitude of empirical data, cutting-edge functional imaging analyses of longitudinally assessed phenotypes, genomic, proteomic, as well as transcriptomic (e.g. microRNA, lncRNAs) and epigenomic studies. Our initial fMRI results show functional alterations in neuronal networks associated with disease progress in the longitudinal course and provide evidence for potential neuroimaging biomarkers with reference to disease outcome parameters. In line with the overall idea of the consortium, we will also present data on different endophenotypes of psychiatric diseases in animal models targeting candidate genes of psychiatric diseases. We will show how the neurobiology lab enables us to perform controlled and targeted manipulation of environmental factors, leading to differential expression of psychiatric endophenotypes in investigated mouse mutants.

Symposium 32

Saturday, March 25, 2017
8:30 - 10:30, Lecture Hall 102

Chairs: Peter G. Falkai and Thomas G. Schulze,
Munich

08:30 **Opening Remarks**

08:40 Monica Budde and André Fischer, Munich
and Göttingen
DISEASE TRAJECTORIES IN SCHIZOPHRENIA
AND BIPOLAR DISORDER AND THE GENOME-
ENVIRONOME INTERFACE (S32-1)

09:05 Sarah Trost and Sarah Wolter, Göttingen
FMRI FINDINGS IN THE LONGITUDINAL
COURSE OF PSYCHOSIS (S32-2)

09:30 Nirmal Kannayian, Munich
THE SCHIZOPHRENIA RISK GENE TCF4 CON-
TROLS COGNITION AND NEURONAL
PLASTICITY (S32-3)

09:55 Heike Bickeböller, Göttingen
GENOTYPE-PHENOTYPE RELATIONSHIPS OF
THE LONGITUDINAL COURSE OF PSYCHOSIS –
STATISTICAL ASPECTS (S32-4)

10:20 **Concluding Remarks**



Introductory Remarks to Symposium 33

The multiple neural codes of the retina

Martin Greschner and Tim Gollisch, Oldenburg and Göttingen

The retina is an ideal system to study how neurons encode sensory information. Its inputs – the light patterns that impinge on the photoreceptors – can be rigorously controlled in the lab. Moreover, it is now possible to simultaneously monitor the activity of large fractions of retinal ganglion cells, the retina's output neurons.

Yet, we are still far from a complete understanding of visual stimulus encoding by the retina. Among the prevailing mysteries is the puzzling diversity of output channels that emerge from the retinal network. Recent progress in calcium imaging, electrophysiology, and genetic or morphological cell type identification has indicated that the output of the retina consists of more than 30 parallel channels, each based on a different type of retinal ganglion cell and carrying its own specialized representation of the visual world. While some of these channels appear well described by classical, text-book-like center-surround filters, many others display much more intricate and nonlinear response properties, carrying out information processing tasks that had previously been thought to emerge only in higher visual centers. Furthermore, much of the current knowledge about neural coding in the retina has been obtained with artificial, simplistic laboratory stimuli. Yet, little is known about how the diversity of ganglion cell response features contributes to the encoding of natural visual stimuli, where strong spatio-temporal correlations, the presence of objects and objects boundaries, and the temporal dynamics of eye movements provide specific challenges.

This symposium will address the challenges of understanding stimulus encoding in the retina from different perspectives. We will start by exploring the large functional diversity of ganglion cell types (T. Euler). From there, we will turn to nonlinear signal processing in the retinal network and how this shapes the response features of different ganglion cell types and contributes to the encoding of visual images (T. Gollisch). Next, we will address the question of how ensembles of ganglion cells jointly represent visual stimuli in a population code (O. Marre). Finally, we will examine the area of natural stimuli and, in particular, the challenges that ever-present eye movements impose on retinal stimulus encoding (R. Segev). Combined progress in these general directions will be necessary to improve our understanding of the diversity of retinal ganglion cell types and of the many neural codes that jointly represent what the eye tells the brain.

Symposium 33

Saturday, March 25, 2017
8:30 - 10:30, Lecture Hall 104

Chairs: Martin Greschner and Tim Gollisch,
Oldenburg and Göttingen

- 08:30 **Opening Remarks**
- 08:35 Thomas Euler, Tübingen
FUNCTIONAL DIVERSITY IN THE MOUSE
RETINA (S33-1)
- 09:00 Tim Gollisch, Göttingen
SIGNAL GATING AND NEURAL CODING IN
THE RETINA UNDER SACCADIC SCENE
CHANGES (S33-2)
- 09:20 Katrin Franke, Tübingen
INTERPLAY OF EXCITATION AND INHIBITION
DECORRELATES VISUAL FEATURE REPRESENTATION
IN THE MAMMALIAN INNER RETINA
(S33-3)
- 09:30 Olivier Marre, Paris, France
READING THE POPULATION CODE OF THE
RETINA (S33-4)
- 09:55 Ronen Segev, Beer Sheva, Israel
DECORRELATION OF RETINAL RESPONSE TO
NATURAL SCENES BY EYE MOVEMENTS (S33-5)
- 10:20 Florian Jetter, Reutlingen
TOWARDS THE ACTIVATION OF PHYSIOLOGICAL
RETINAL GANGLION CELL SPIKING BY
ELECTRICAL STIMULATION (S33-6)

This workshop is supported by SFB 889, Cellular
Mechanisms of Sensory Processing,
and by Multichannel Systems.





Introductory Remarks to Symposium 34

Glial cells in de- and remyelination

Ralf Linker and Martin Stangel, Erlangen and Hannover

In the adult central nervous system (CNS), glial cells play an important role for myelin maintenance and myelin repair. The symposium will cover contributions on mechanisms of myelin breakdown, the influence of NG2 positive cells as well as astrocytes on myelin in health and disease and finally include an overview of current glial targets for modulating myelin repair in models of demyelinating disease. The first talk by Mikael Simons will focus on an integrative approach comprising live imaging, electron microscopy, and genetics to explain myelin assembly, abnormal myelin outfoldings in neurological disease and plasticity of myelin biogenesis in the adult CNS. The second presentation by Leda Dimou deals with the role of GPR17 expressing NG2-cells which rapidly undergo maturation in models of trauma or ischemia thus suggesting that they represent a reserve pool of adult progenitors for repair in the adult CNS. Martin Stangel's lecture concentrates on the function of astrocytes in the model of cuprizone mediated demyelination. The studies show that astrocytes provide the molecular environment for the recruitment of debris-clearing microglia. The final talk by Ralf Linker will focus on the role of glial cells in autoimmune demyelination. The presentation will elucidate new targets for glial cell protection as well as remyelination and also include an outlook on translation to human demyelinating disease.

Symposium 34

Saturday, March 25, 2017
8:30 - 10:30, Lecture Hall 103

Chairs: Ralf Linker and Martin Stangel,
Erlangen and Hannover

- 08:30 **Opening Remarks**
- 08:40 Mikael Simons, Göttingen
MECHANISMS OF MYELIN BREAKDOWN IN
DEMYELINATING DISEASES (S34-1)
- 09:00 Leda Dimou, Martinsried
NG2-GLIA IN HEALTH AND DISEASE: THEIR
ROLE IN THE ADULT BRAIN (S34-2)
- 09:20 Martin Stangel, Hannover
ROLE OF ASTROCYTES IN DE- AND REMYELI-
NATION (S34-3)
- 09:40 Ralf Linker, Erlangen
MODULATING GLIAL CELLS IN AUTOIMMUNE
ENCEPHALOMYELITIS – ON THE WAY TO
TRANSLATIONAL MEDICINE? (S34-4)
- 10:00 Carsten Slotta, Bielefeld
IMPAIRED SCHWANN CELL AUTOPHAGY IN A
LATE ONSET MOTONEURON DISEASE (S34-5)
- 10:10 Sarah Förster, Cambridge, UK
FUNCTIONAL HETEROGENEITY OF OPCs IN
THE CENTRAL NERVOUS SYSTEM (S34-6)
- 10:20 **Concluding Remarks**



Introductory Remarks to Symposium 35

Use it or lose it - cellular and molecular mechanisms of synapse remodeling in developmental plasticity

Siegrid Löwel and Oliver Schlüter, Göttingen and Pittsburgh (USA)

The plasticity and maturation of neural networks is a fundamental process to shape a functional brain. If gone awry, it may lead to neurodevelopmental disorders, which still lack causal treatment strategies. After genetic programs have instructed initial brain wiring, all cortical neural circuits are refined to optimize their functional properties in restricted time windows of heightened plasticity. During these "critical periods", synaptic connections are shaped by experience. Importantly, while some plasticity remains and can be reactivated after critical periods, optimal functionality of the respective cortical network is only achieved by experience-driven remodeling during critical periods. Thus, reinstating critical period plasticity could be a promising mechanism to restore functionality in damaged or diseased brains. An essential step to achieve this goal is the understanding of the cellular mechanisms and their molecular underpinnings. While critical period plasticity is regulated by the strength of local inhibitory networks, the refinements of connectivity occur primarily at glutamatergic synapses onto excitatory pyramidal neurons. Recent studies report that this refinement is based on the maturation of silent synapses, glutamatergic synapses expressing NMDA-receptors but no AMPA-receptors, and the pruning of unfavored synapses. The instructive role of silent synapses for neural network refinement is further substantiated by the observation that silent synapse maturation terminates critical periods.

Our symposium will focus on recent advances in understanding the molecular and cellular basis of how glutamatergic synapses on principal neurons are consolidated or eliminated for functional optimization of neural networks. It will cover intrinsic mechanisms of synaptic plasticity for synapse strengthening and weakening (Christian Lohmann), the elimination of synapses by interactions with glial cells (Ania Majewska), and molecular mechanisms of the postsynapse to regulate the maturation versus elimination of synapses (Weifeng Xu and Oliver Schlüter).

Supported by the DFG/CRC 889 "Cellular Mechanisms of Sensory Processing" and the BCCN Göttingen.

Symposium 35

Saturday, March 25, 2017
8:30 - 10:30, Lecture Hall 10

Chairs: Siegrid Löwel and Oliver Schlüter,
Göttingen and Pittsburgh (USA)

- 08:30 Oliver Schlüter, Pittsburgh, USA
MOLECULES OF THE EXCITATORY POST-
SYNAPSE GOVERN THE DURATION OF
PLASTIC PHASES DURING BRAIN DEVELOPMENT
(S35-1)
- 08:55 Weifeng Xu, Cambridge, USA
EXPERIENCE-DEPENDENT EQUILIBRATION
OF AMPAR-MEDIATED SYNAPTIC TRANSMIS-
SION DURING THE CRITICAL PERIOD (S35-2)
- 09:20 Juliane Jäpel, Martinsried
LATERAL GENICULATE NEURONS PROJEC-
TING TO MOUSE VISUAL CORTEX SHOW
ROBUST OCULAR DOMINANCE PLASTICITY
(S35-3)
- 09:30 Christian Lohmann, Amsterdam, The Netherlands
PLASTICITY FOR FINE-TUNING DEVELOPING
CORTICAL CIRCUITS WITH SINGLE SYNAPSE
PRECISION (S35-4)
- 09:55 Ania K. Majewska, Rochester, USA
MICROGLIA – A CRITICAL ELEMENT OF
CORTICAL PLASTICITY
(S35-5)
- 10:20 Oriane Blanquie, Mainz
ACTIVITY-DEPENDENT APOPTOSIS SHAPES THE
STRUCTURAL MATURATION OF THE CEREBRAL
CORTEX IN AN AREA-DEPENDENT MANNER
(S35-6)





Introductory Remarks to Symposium 36

Novel local mechanisms of motor control

Joachim Schmidt and Abdel El Manira, Cologne and Stockholm (Sweden)

It is textbook knowledge that the output from neural networks in the spinal cord of vertebrates and in the ventral nerve cord of arthropods controls rhythmic movements of the locomotor organs. The output pattern of these local networks depends on the connectivity of the component neurons and their specific membrane properties. Descending input from the brain triggers locally generated activity and modulates it. In addition, input from sense organs is integrated. Decades of research on the local control of movement may lead to the assumption that actual work on this topic merely refines a knowledge we already have. This assumption, however, is not true. In this symposium we will present novel findings on the mechanisms of local motor control in vertebrates and invertebrates that have so far not been on the radar of most neuroscientists in the field. Traditionally, motor neurons in the vertebrates CNS have been viewed as mere output elements of the nervous system, conveying to the muscles the motor program generated by upstream interneuron circuits. Abdel El Manira will introduce a so far unforeseen role of motor neurons in controlling locomotor circuit function via gap junctions in zebrafish. The functional core of a neural network that controls the generation of rhythmic motor output is a network of neurons called central pattern generator (CPG). Two CPGs in a given abdominal ganglion in crayfish control the beating of paired swimmerets (abdominal legs). Carmen Smarandache-Wellmann will show two pathways that control in-phase activity of the two CPGs. One of which involves gap junctions between left and right motor neurons that in turn are electrically coupled to CPG neurons. Stereotypic behaviors as escape responses in fish or crayfish but also walking in arthropods can be triggered by command neurons descending from the brain. A focus of Eva Berg's talk will be on the function of a segmental or local command neuron that she recently found to reside in each thoracic hemi-ganglion of the stick insect. This command neuron triggers stereotypic rhythmic searching movements of a stepping leg that lost ground contact. When we think of membrane properties of neurons in oscillatory networks we usually think of ion channel conductances. In contrast, Keith Sillar will report on how activity of the Na^+/K^+ ATPase affects spinal locomotor network output in *Xenopus* frog tadpoles.

Symposium 36

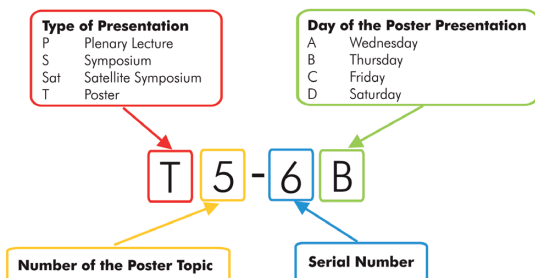
Saturday, March 25, 2017
8:30 -10:30, Lecture Hall 101

Chairs: Joachim Schmidt and Abdel El Manira,
Cologne and Stockholm (Sweden)

- 08:30 **Opening Remarks**
- 08:40 Abdel El Manira, Stockholm, Sweden
MODULAR MICROCIRCUITS UNDERLYING
GEAR CHANGES DURING LOCOMOTION
(S36-1)
- 09:00 Carmen Smarandache-Wellmann, Cologne
TWO DISCRETE PATHWAYS RESPONSIBLE FOR
THE INTRASEGMENTAL COORDINATION OF
LIMB MOVEMENTS IN THE ABDOMINAL GAN-
GLIA OF CRAYFISH (S36-2)
- 09:20 Angela O'Sullivan, Aarhus, Denmark
MOTOR CONTROL OF *DROSOPHILA* COURT-
SHIP SONG AND FLIGHT (S36-3)
- 09:30 Eva Berg, Stockholm, Sweden
A LOCAL COMMAND NEURON AND THE
CONTROL OF LEG SEARCHING MOVEMENTS
IN THE STICK INSECT (S36-4)
- 09:50 Keith Thomas Sillar, St. Andrews, UK
REGULATION OF LOCOMOTOR NETWORK
PERFORMANCE BY THE SODIUM PUMP IN
XENOPUS FROG TADPOLES (S36-5)
- 10:10 Thomas Stolz, Cologne
DESCENDING MODULATION OF THORACIC
MOTOR ACTIVITY IN THE STICK INSECT
(S36-6)
- 10:20 **Concluding Remarks**



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 23, 2017

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 – T1-5A	T1-1B – T1-5B	T1-1C – T1-5C	T1-1D – T1-6D
T2: Axon and dendrite development, synaptogenesis	T2-1A – T2-5A	T2-1B – T2-5B	T2-1C – T2-6C	T2-1D – T2-6D
T3: Developmental cell death, regeneration and transplantation	T3-1A – T3-2A	T3-1B – T3-3B	T3-1C – T3-2C	T3-1D – T3-2D
T4: Neurotransmitters, retrograde messengers and cytokines	T4-1A – T4-3A	T4-1B – T4-2B	T4-1C – T4-2C	T4-1D – T4-2D
T5: G Protein-linked and other receptors	T5-1A – T5-1A	T5-1B – T5-2B	T5-1C – T5-2C	T5-1D – T5-2D
T6: Ligand-gated, voltage-dependent ion channels and transporters	T6-1A – T6-7A	T6-1B – T6-6B	T6-1C – T6-7C	T6-1D – T6-6D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T7: Synaptic transmission, pre- and postsynaptic organization	T7-1A – T7-11A	T7-1B – T7-11B	T7-1C – T7-11C	T7-1D – T7-11D
T8: Synaptic plasticity, LTP, LTD	T8-1A – T8-8A	T8-1B – T8-7B	T8-1C – T8-8C	T8-1D – T8-7D
T9: Glia, glia-neuron interactions	T9-1A – T9-7A	T9-1B – T9-6B	T9-1C – T9-6C	T9-1D – T9-6D
T10: Aging and developmental disorders	T10-1A – T10-5A	T10-1B – T10-4B	T10-1C – T10-6C	T10-1D – T10-6D
T11: Alzheimer's, Parkinson's and other neuro-degenerative diseases	T11-1A – T11-15A	T11-1B – T11-16B	T11-1C – T11-15C	T11-1D – T11-15D
T12: Neuroimmunology, inflammation and neuro-protection	T12-1A – T12-9A	T12-1B – T12-8B	T12-1C – T12-8C	T12-1D – T12-8D
T13: Cognitive, emotional, behavioral state disorders and addiction	T13-1A – T13-9A	T13-1B – T13-8B	T13-1C – T13-8C	T13-1D – T13-8D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T14: Vision: invertebrates	T14-1A – T14-3A	T14-1B – T14-4B	T14-1C – T14-4C	T14-1D – T14-3D
T15: Vision: retina and subcortical pathways	T15-1A – T15-8A	T15-1B – T15-7B	T15-1C – T15-7C	T15-1D – T15-8D
T16: Vision: striate and extrastriate cortex, eye movement and visuomotor processing	T16-1A – T16-6A	T16-1B – T16-6B	T16-1C – T16-6C	T16-1D – T16-6D
T17: Auditory mechanoreceptors, vestibular, cochlea, lateral line and active sensing	T17-1A – T17-2A	T17-1B – T17-1B	T17-1C – T17-1C	T17-1D – T17-2D
T18: Auditory system: subcortical and cortical processing	T18-1A – T18-8A	T18-1B – T18-8B	T18-1C – T18-8C	T18-2D – T18-8D
T19: Chemical senses: olfaction, taste, others	T19-1A – T19-11A	T19-1B – T19-12B	T19-1C – T19-12C	T19-1D – T19-12D
T20: Somatosensation: touch, temperature, proprioception, nociception	T20-1A – T20-9A	T20-1B – T20-8B	T20-1C – T20-8C	T20-1D – T20-8D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T21: Motor systems	T21-1A – T21-7A	T21-1B – T21-7B	T21-1C – T21-7C	T21-1D – T21-8D
T22: Homeostatic and neuroendocrine systems, stress response	T22-1A – T22-3A	T22-1B – T22-4B	T22-1C – T22-3C	T22-1D – T22-4D
T23: Neural networks and rhythm generators	T23-1A – T23-9A	T23-1B – T23-8B	T23-1C – T23-8C	T23-1D – T23-9D
T24: Attention, motivation, emotion and cognition	T24-1A – T24-8A	T24-1B – T24-8B	T24-1C – T24-8C	T24-1D – T24-7D
T25: Learning and memory	T25-1A – T25-11A	T25-1B – T25-11B	T25-1C – T25-11C	T25-1D – T25-11D
T26: Computational neuroscience	T26-1A – T26-7A	T26-1B – T26-8B	T26-1C – T26-7C	T26-1D – T26-7D
T27: Techniques and demonstrations	T27-1A – T27-6A	T27-1B – T27-7B	T27-1C – T27-7C	T27-1D – T27-6D

T1: Stem cells, neurogenesis and gliogenesis

Wednesday

- T1-1A** A CXCL12 FEEDBACK SIGNAL FROM MATURE GRANULE NEURONS TO NEURONAL PROGENITORS ANCHORS NEUROBLASTS IN THE SUBGRANULAR ZONE OF THE DENTATE GYRUS
Philipp Abe, Hannah Wüst, Ralf Stumm, Jena
- T1-2A** APERIODIC LIGHT ENVIRONMENT SUPPRESSES THE DENDRITE MATURATION AND NEUROGENESIS IN ADULT INDIAN HOUSE CROWS, *CORVUS SPLENDENS*
S. K. Tahajjul Taufique, Abhilash Prabhat, Vinod Kumar, Delhi, India
- T1-3A** COOPERATIVE FUNCTIONS OF BCL11A/CTIP1 AND BCL11B/CTIP2 IN NEOCORTEX DEVELOPMENT
Christoph Wiegrefe, Simeon Gaessler, Pentao Liu, Nancy A. Jenkins, Neal G. Copeland, Stefan Britsch, Ulm
- T1-4A** DEVELOPMENTAL TRANSCRIPTOMICS REVEALS AN UNEXPECTED ROLE OF HUNCHBACK IN RETINAL GLIA CELL FORMATION IN *DROSOPHILA MELANOGASTER*
Nico Posnien, Montserrat Torres-Oliva, Julia Schneider, Gordon Wiegleb, Göttingen
- T1-5A** ACTIVITY-DEPENDENT CHANGES UNDERLYING ALTERED HUMAN NEURAL PROGENITOR DIFFERENTIATION IN FRAGILE X SYNDROME, A VARIANT OF AUTISM SPECTRUM DISORDER
Maija L. Castrén, Venkat Swaroop Achuta, Tommi Möykkynen, Kari Keinänen, Helsinki, Finland

Thursday

- T1-1B** DOT1L AND HISTONE H3 LYSINE 79 METHYLATION DETERMINE CORTICAL AND HIPPOCAMPAL DEVELOPMENT BY CONTROLLING NEURAL PROGENITOR PROLIFERATION AND CELL FATE
Tanja Vogel, Henriette Franz, Alejandro Villarreal, Nicole Hellbach, Freiburg
- T1-2B** FLUID MECHANICAL FORCES INDUCED BY REELIN DETERMINE THE SHAPE AND DIRECTIONALITY OF MIGRATING HIPPOCAMPAL NEURONS
Shaobo Wang, Peter Wulf, Shanting Zhao, Xuejun Chai, Jiawei Li, Jeremie Lau, Antonio Virgilio Failla, Bernd Zobiak, Mirjam Sibbe, Gary L. Westbrook, Michael Frotscher, David Lutz, Hamburg
- T1-3B** FUNCTIONAL ANALYSIS OF POST-TRANSLATIONAL MODIFICATIONS OF BRN2 RELEVANT FOR PROPER CORTEX FORMATION
Theres Schaub, Mateusz Ambrozkiwicz, Victor Tarabykin, Berlin



- T1-4B** IN VIVO CELL FATE IMAGING: GENERATING THE TIMELINE OF NEURAL DIFFERENTIATION
Stefanie Vogel, Markus Aswendt, Cordula Schäfer, Kat Folz-Donahue, Christian Kukat, Marc Ehrlich, Holm Zaehres, Mathias Hoehn, Cologne
- T1-5B** LOSS OF ENTIRE MULTI-SUBUNIT BAF (MSWI/SNF) COMPLEXES IMPAIRS GLOBAL EPIGENETIC PROGRAMS IN FOREBRAIN DEVELOPMENT
Tran Tuoc, Ramanathan Narayanan, Cemil Kerimoglu, Mehdi Pirouz, Kamila Kiszka, Linh Pham, Robin Wagener, Joachim Rosenbusch, Michael Kessel, Andre Fischer, Anastassia Stoykova, Jochen Staiger, Göttingen

Friday

- T1-1C** MOLECULAR PROFILING OF PERIPHERAL GLIAL SUBTYPES
Maria Eleni Kastriti, Marketa Kaucka, V. Dyachuk, Alessandro Furlan, J. Krivanek, Tatiana Chontorotzea, P. V. Kharchenko, Sten Linnarsson, Igor Adameyko, Stockholm, Sweden
- T1-2C** NEURAL STEM CELLS OF RAT HIPPOCAMPUS LACK THE EXPRESSION OF KV10.1 CHANNELS: IMPLICATIONS FOR A SAFE NEUROGENESIS
Cilene Lino de Oliveira, Sabine Martin, Sunke L. Mortensen, Fernanda R Gomes, Luis Pardo, Elaine Del Bel, Walter Stuehmer, Florianópolis, Brazil
- T1-3C** PATIENT-DERIVED PLURIPOTENT STEM CELLS FOR THE ANALYSIS OF SCHIZOPHRENIA IN 3D CEREBRAL ORGANIDS
Matthias Jung, Jovita Schiller, Anne Puls, Albrecht Klemenz, Ina Giegling, Dan Rujescu, Halle (Saale)
- T1-4C** REGULATION OF ABERRANT ADULT HIPPOCAMPAL NEUROGENESIS BY MICRORNAS AFTER MILD KAINIC ACID-INDUCED STATUS EPILEPTICUS: EFFECT ON GLIOGENESIS AND REACTIVE NEURAL STEM CELLS
Carlos P. Fitzsimons, Pascal Bielefeld, Sedef Karayel, Alisa Tiaglik, Marijn Schouten, Paul J. Lucassen, Juan M. Encinas, Amsterdam, Netherlands
- T1-5C** SPONTANEOUS CALCIUM OSCILLATIONS MODULATED BY P2Y2 RECEPTOR AND L TYPE CALCIUM VOLTAGE GATED CHANNEL ACTIVITY IN NEUROGENESIS: A NOVEL APPROACH FOR STUDYING CELL FATE DETERMINATION
Henning Ulrich, Talita Glaser, Rgatha Oliveira, Hiromi Shimojo, Juliana Correa-Velloso, Claudiana Lameu, Ryoichiro Kageyama, Sao Paulo, Brazil

Saturday

- T1-1D** THE ABNORMAL COMMUNICATION BETWEEN NEURON AND OLIGODENDROCYTE DISRUPTS MYELINATION IN NPC1 DEFICIENT MICE
Fan Yang, Xiao Feng, Arndt Rolfs, Jiankai Luo, Rostock

- T1-2D** THE CHONDROITIN SULFATE CODE HYPOTHESIS AND FGF SIGNALING IN THE NEURAL STEM CELL NICHE OF THE DEVELOPING MOUSE FOREBRAIN
Alexander von Holst, Denise Harrach, Mainz
- T1-3D** THE CONTRIBUTION OF DGCR8 TO MOUSE CORTICOGENESIS AND NEOCORTEX EXPANSION
Davide De Pietri Tonelli, Nadin Hoffmann (presenting author), Federica Marinaro, Genoa, Italy
- T1-4D** THE ROLE OF FOXQ2 IN INSECT CENTRAL COMPLEX DEVELOPMENT
Gregor Bucher, Bicheng He, Marita Büscher, Göttingen
- T1-5D** THE SERINE PROTEASE INHIBITOR NEUROSERPIN REGULATES DEVELOPMENTAL NEUROGENESIS, SYNAPTIC PLASTICITY, LEARNING AND SOCIAL BEHAVIOUR
Giovanna Galliciotti, Melanie Neumann, Rebecca Reumann, Ricardo Vierk, Lepu Zhou, Frederice Gries, Diego Sepulveda-Falla, Michaela Schweizer, Fabio Morellini, Chiara Nicolini, Margaret Fahnestock, Gabriele Rune, Markus Glatze, Hamburg
- T1-6D** FUNCTIONAL ANALYSIS OF LIN41 IN THE ADULT STEM CELL NICHE: REPURPOSING OF A PLURIPOTENCY FACTOR IN EPENDYMAL CELLS?
Claudia Marini, Elisa Cuevas, F. Gregory Wulczyn, Berlin

T2: Axon and dendrite development, synaptogenesis

Wednesday

- T2-1A** ABNORMAL SPINE MORPHOLOGY IN NIEMANN-PICK TYPE C 1 MUTANT MOUSE
Xiao Feng, Rostock
- T2-2A** AN INTACT INSECT EMBRYO AS ASSAY FOR DEVELOPMENTAL NEUROTOXICITY TESTING
Michael Stern, Sarah Frömbling, Gregor Bergmann, Gerd Bicker, Hannover
- T2-3A** ASSEMBLING A DOPAMINERGIC SYNAPSE: THE ROLE OF CELL ADHESION AND SCAFFOLDING MOLECULES
Rebecca Wallrafen, Thomas Dresbach, Göttingen
- T2-4A** BRANCH-SPECIFIC MICROTUBULE DESTABILIZATION MEDIATES AXON BRANCH LOSS DURING NEUROMUSCULAR SYNAPSE ELIMINATION
Monika S. Brill, Tatjana Kleele, Laura Ruschkies, Mengzhe Wang, Natalia A. Marahori, Torben Hausrat, Derron L. Bishop, Matthias Kneussel, Thomas Misgeld, Munich
- T2-5A** CIRCUIT DEVELOPMENT AND MORPHOLOGICAL PHENOTYPE ANALYSIS IN PRIMARY OLFACTORY CORTEX
Laura Moreno Velasquez, Stephen C. Lenzi, Dietmar Schmitz, Friedrich W. Jochenning, Berlin



Thursday

- T2-1B** PROMOTION OF AXONAL COLLATERAL BRANCHING AND THALAMOCORTICAL CONNECTIONS AS POTENTIAL MECHANISM UNDERLYING ERYTHROPOIETIN-INDUCED POSTROKE PLASTICITY
Eduardo Humberto Sanchez-Mendoza, David Oguama, Dirk M. Hermann, Essen
- T2-2B** β -AMINOISOBUTYRIC INDUCES NEURITE OUTGROWTH IN PRIMARY CORTICAL NEURONS
Daniel Claude Morris, Wing Lee Cheung, Talan Zhang, Michael Chopp, Zheng G Zhang, Detroit, USA
- T2-3B** DENDRITIC CONSERVATION
Carsten Duch, Stefanie Ryglewski, Mainz
- T2-4B** DEVELOPMENT OF CONNECTIVITY IN A FLY MOTOR CIRCUIT
Aaron Ostrovsky, Tatjana Kovacevic, Jan Felix Evers, Heidelberg
- T2-5B** DUAL EFFECT OF EXOGENOUS GLUCOCORTICOIDS ON DENDRITES AND AXONS DURING HIPPOCAMPAL NEURONS MORPHOGENESIS
Helena Alexandra Ribeiro de Carvalho Pinheiro, Filipa I. Baptista, António F. Ambrósio, Catarina A. Gomes, Coimbra, Portugal

Friday

- T2-1C** JELLY BELLY – ANAPLASTIC LYMPHOMA KINASE SIGNALING IS AN ACTIVITY INDEPENDENT REGULATOR OF DENDRITIC GROWTH
Phil-Alan Gärtig, Aaron Ostrovsky, Steffen Schmelzeisen, Barbara Chwalla, Michael Landgraf, Jan Felix Evers, Heidelberg
- T2-2C** NEUROLIGINS AND BDNF: TRASSYNAPTIC TEAMWORK
Andoniya Petkova, Nina Gödecke, Martin Korte, Thomas Dresbach, Göttingen
- T2-3C** OXYTOCIN INDUCES NEURITE OUTGROWTH THROUGH CALCIUM PATHWAYS
Zuzana Bacova, Martina Zatkova, Alexandra Reichova, Jan Bakos, Bratislava, Slovakia
- T2-4C** OXYTOCIN MODULATES NEURITE LENGTH AND LEVELS OF CYTOSKELETAL PROTEINS ASSOCIATED WITH NEURONAL GROWTH
Jan Bakos, Zuzana Lestanova, Martina Zatkova, Alexander Kiss, Tomas Havranek, Vladimir Strbak, Zuzana Bacova, Bratislava, Slovakia
- T2-5C** RNA BINDING PROTEINS IN NEURONAL STRESS GRANULES STUDIED BY SINGLE-MOLECULE TRACKING
Benedikt Niewidok, Maxim Igaev, Abel Pereira da Graca, Michael Peters, André Strassner, Christian Richter, Jacob Piehler, Roland Brandt, Osnabrück

Friday

- T2-6C** TRKB-DEPENDENT EPHRINA REVERSE SIGNALING GUIDES CALLOSAL AXON GROWTH DOWNSTREAM OF NEUROD2/6
Kuo Yan, Berlin

Saturday

- T2-1D** ROLE OF DSCAM1 IN DENDRITIC BRANCH GROWTH OF CENTRAL NEURONS
Shikha Kumari, Carsten Duch, Mainz
- T2-2D** SERUM RESPONSE FACTOR (SRF) REGULATES DENDRITIC SPINES' MATURATION
Katarzyna Kalita-Bykowska, Anna Krysiak, Anna Suska, Szymon Leski, Leszek Kaczmarek, Warsaw, Poland
- T2-3D** THE ROLE OF GLIA IN THE DEVELOPMENT OF GABA-ERGIC AND GLUTAMATERGIC NEURONAL NETWORKS IN VITRO IN A NOVEL CULTURE SYSTEM
Paul Turko, Jie Song, Ferdinand Browa, Keenan Groberman, Imre Vida, Berlin
- T2-4D** VEGFR2-EPHRINB2 COOPERATIVE SIGNALING CONTROLS DENDRITIC ARBORIZATION AND SYNAPSE FORMATION
LaShae K. Nicholson, Eva Harde, Luisa Henkel, Amparo Acker-Palmer, Frankfurt
- T2-5D** VISUALISATION OF ENDOGENOUS PROTEIN EXPRESSION, LOCALISATION AND TURNOVER IN SINGLE NEURONS
Linda-Joel Manhart, Aaron Ostrovsky, Astrid Petzold, Sebastian Cachero, Stephan Sigrist, Jan Felix Evers, Heidelberg
- T2-6D** ROLE OF PTEN PHOSPHORYLATION IN BRAIN DEVELOPMENT
Julia Ledderose, Stefanie Gögel, Willem Bintig, Frank Furnari, Britta J. Eickholt, Berlin

T3: Developmental cell death, regeneration and transplantation

Wednesday

- T3-1A** ABSOLUTE REDUCTION OF OLFACTORY BULB LAYER VOLUME DURING ABSOLUTE GROWTH OF THE OLFACTORY BULB – A SIGN FOR DEVELOPMENTAL CHANGES OF INFORMATION PROCESSING?
Elke Weiler, Willi Bennegger, Tübingen
- T3-2A** ANALYSIS OF REGENERATION AND MYELINATION ASSOCIATED PROTEINS IN HUMAN NEUROMA
Patrick Dömer, Bettina Kewitz, Christian Heinen, Ulrike Janssen-Bienhold, Thomas Kretschmer, Oldenburg



Thursday

- T3-1B** CELL-FREE ARTIFICIAL IMPLANTS OF ELECTROSPUN FIBERS IN A THREE-DIMENSIONAL GELATIN MATRIX SUPPORT SCIATIC NERVE REGENERATION IN VIVO
Jörg Mey, Andreas Kriebel, Dorothee Hodde, Thomas Kuenzel, Gary Brook, Toledo, Spain
- T3-2B** EXTENSIVE ELONGATION AND BRANCHING CHARACTERIZE REPAIR SCHWANN CELLS THAT FORM POST INJURY AND SUPPORT EFFICIENT NERVE REGENERATION
Kjara Sophia Pilch, Jose Gomez Sanchez, Kristjan Jessen, Rhona Mirsky, Berlin
- T3-3B** HUMAN SPINAL CORD NEURAL PROGENITORS AND NEUROTROPHIC FACTOR MIMETIC-LOADED MESOPOROUS SILICA PARTICLES ASSIST REGENERATION OF SENSORY FIBERS INTO THE SPINAL CORD AFTER DORSAL ROOT AVULSION
Jan Hoeber, Niclas König, Carl Trolle, Alessandro Gallo, Vladimir Berezin, Elisabet Lkesson, Alfonso Garcia-Bennett, Emmanuel Hermans, Ronald Deumens, Elena Kozlova, Uppsala, Sweden

Friday

- T3-1C** LOCALIZATION OF REELIN SIGNALING PATHWAY COMPONENTS IN MURINE MIDBRAIN AND STRIATUM
Belal Mahmoud Rahhal, Björn Spittau, Ahmad Sharaf, Kerstin Krieglstein, Freiburg
- T3-2C** LONG-TERM CULTIVATION OF ORGANOTYPIC NIGROSTRIATAL SLICE CULTURES
Sarah Maria Elisabeth Joost, Andreas Wree, Stefan Jean-Pierre Haas, Rostock

Saturday

- T3-1D** MICRORNA-132 IMPROVES REGENERATION IN PRIMARY DOPAMINERGIC MIDBRAIN NEURONS
Lucas A. Caldi Gomes, Anna-Elisa Roser, Mathias Bähr, Paul Lingor, Göttingen
- T3-2D** WALKING OF THE STICK INSECT SIPYLOIDEA SIPYLUS WITH A REGENERATED LEG
Reinhard Lakes-Harlan, Giessen

T4: Neurotransmitters, retrograde messengers and cytokines

Wednesday

- T4-1A** AUTOCRINE ENDOCANNABINOID SIGNALING IN CORTICAL NEURONS
Alexander Stumpf, Joerg Breustedt, Benjamin R. Rost, Dietmar Schmitz, Berlin

T4-2A DISTRIBUTION OF CHOLINERGIC FIBERS IN THE VISUAL CORTEX IN P75NTR KNOCKOUT MICE
Oliver von Bohlen und Halbach, Viola von Bohlen und Halbach, Greifswald

T4-3A ELUCIDATING THE MODE OF ACTION OF THE NEO-NICOTINOID IMIDACLOPRID ON HONEY BEE KENYON CELLS USING Ca^{2+} -IMAGING
Christian Lux, Uli Müller, Saarbrücken

Thursday

T4-1B H_2S EVOKED NMDA-DEPENDENT INHIBITION NETWORK ACTIVITY OF NEONATAL RAT HIPPOCAMPAL SLICES
Aleksey Yakovlev, Evgenia Kurmasheva, Guzel Sitdikova, Kazan, Russia

T4-2B HOMOCYSTEINE AND ITS DERIVATIVES INCREASE THE ACTIVITY OF MAXI CALCIUM-ACTIVATED POTASSIUM (BK) CHANNEL AND DECREASE EXOCYTOSIS OF SECRETORY GRANULES IN RAT GH3 CELLS
Aislyu Gaifullina, Anton Hermann, Guzel Sitdikova, Kazan, Russia

Friday

T4-1C HYDROGEN SULFIDE ACTIVATES TRPV1 RECEPTORS IN RAT TRIGEMINAL NEURONS AND INCREASES THE ACTIVITY OF TRIGEMINAL NERVE
Guzel Sitdikova, Alsu Mustafina, Ksenia Koroleva, Aleksey Yakovlev, Rashid Giniatullin, Kazan, Russia

T4-2C MODULATION OF LOCUS COERULEUS NEURONS BY 5-HYDROXYTRYPTAMINE
Stephan Bremser, Lars Paeger, Peter Kloppenburg, Cologne

Saturday

T4-1D SPATIAL ANALYSIS OF PUTATIVE PEPTIDE RELEASE SITES IN THE VENTRAL LATERAL NEURONS OF THE FRUIT FLY *DROSOPHILA MELANOGASTER*
Benedikt Robin Hofbauer, Christian Wegener, Würzburg

T4-2D TYRAMINE FUNCTIONS AS A NEUROMODULATOR OF *DROSOPHILA* LARVAL MOTONEURONS
Natalie Schuetzler, Stefanie Ryglewski, Carsten Duch, Mainz

T5: G Protein-linked and other receptors

Wednesday

T5-1A ACTIVIN A REDUCES GIRK CURRENT TO EXCITE DENTATE GYRUS GRANULE CELLS
Fang Zheng, Christian Alzheimer, Erlangen



Thursday

- T5-1B** CROSSTALK BETWEEN METABOTROPIC RECEPTORS AND CA_v1.2 CHANNELS IN SOMATOSTATIN-EXPRESSING HIPPOCAMPAL INTERNEURONS
Desiree Loreth, Rkos Kulik, Freiburg im Breisgau
- T5-2B** SEROTONIN-MEDIATED FUNCTION OF CELL ADHESION MOLECULE L1 IN NEURONAL MORPHOLOGY
Daria Guseva, Christoph Göhr, Yvonne Schill, Monika Bijata, Melitta Schachner, Jakub Wlodarczyk, Evgeni Ponimaskin, Hannover

Friday

- T5-1C** MODULATION OF MEDIAL PREFRONTAL CORTEX (MPFC) PYRAMIDAL NEURONS BY NORADRENALINE
Katarzyna Ewa Grzelka, Pawel Jerzy Szulczyk, Warsaw, Poland
- T5-2C** PALMITOYLATION OF HYALURONAN RECEPTOR CD44 INFLUENCES ITS FUNCTION IN HIPPOCAMPAL NEURONS
Josephine Labus, Alexander Wirth, Yvonne Schill, Evgeni Ponimaskin, Hannover

Saturday

- T5-1D** THE ADHESION GPCR LATROPHILIN/CIRL ACTS AS A PUTATIVE METABOTROPIC MECHANOSENSOR
Nicole Scholz, Matthias Nieberler, Alexander Grottemeyer, Chonglin Guan, Matthias Pawlak, Shiqiang Gao, Sebastian Beck, Isabella Maiellaro, Markus Sauer, Esther Asan, Georg Nagel, Robert J. Kittel, Tobias Langenhan, Leipzig
- T5-2D** TONIC INHIBITION IN THE BASAL AMYGDALA IS UNDER CONTROL OF MODULATORY TRANSMITTER SYSTEMS
Susanne Meis, Thomas Endres, Thomas Munsch, Volkmar Lessmann, Magdeburg

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

Wednesday

- T6-1A** A UNIFIED KINETIC MODEL FOR VOLTAGE-GATED IONIC CHANNELS
Pietro Balbi, Paolo Massobrio, Jeanette Hellgren-Kotaleski, Pavia, Italy

- T6-2A** ACTIVATION OF RENAL CLC-K CHLORIDE CHANNELS IS DEPENDENT ON AN INTACT N-TERMINUS OF THEIR ACCESSORY SUBUNIT BARTTIN
Martin Fischer, Stefan Thiemann, Christina Schaal, Alina Rahtz, Jeanne de la Roche, Daniel Wojciechowski, Hannover
- T6-3A** ALTERNATIVE SPLICING AS A MECHANISM TO INCREASE ION CHANNEL DIVERSITY
Lukas Kilo, Stefanie Ryglewski, Mainz
- T6-4A** ASSESSING THE ROLE OF HCN CHANNELS IN MOUSE HIPPOCAMPAL NEURONS USING VIRUS DELIVERED GENE-INTERFERING TOOLS
Matthias Deutsch, Anne Günther, Arnd Baumann, Jülich
- T6-5A** CHLOROFORM IS A POTENT ACTIVATOR OF CARDIAC AND NEURONAL KIR3 CHANNELS
Sina Kollert, Frank Döring, Erhard Wischmeyer, Würzburg
- T6-6A** CLOSING IN ON BIMODAL ACTION OF THE ANTI-CONVULSANT TOPIRAMATE BY EMPLOYING THE HONEYBEE (*APIS MELLIFERA*)
Marie-Luise Kümmel, Uli Müller, Saarbrücken
- T6-7A** DELETION OF AUXILIARY CA²⁺ CHANNEL SUBUNIT $\alpha 2\delta$ -3 SPECIFICALLY REDUCES P/Q (CAv2.1) BUT NOT L-TYPE CA²⁺ CURRENTS OF SPIRAL GANGLION NEURONS
Friederike Stephani, Stefan Münkner, Jutta Engel, Homburg

Thursday

- T6-1B** ENIGMA OF REBOUND DEPOLARIZATION (RD) IN THE MEDIAL PREFRONTAL CORTEX (MPFC) PYRAMIDAL NEURONS
Przemyslaw Norbert Kurowski, Pawel Szulczyk, Warsaw, Poland
- T6-2B** INSERTION OF A GLUTAMATE (V166E) AT THE PORE ENTRANCE PROVIDES AN ADDITIONAL GATING PROCESS FOR HUMAN HCLC-KA CHLORIDE CHANNELS
Daniel Wojciechowski, Kira Stecher, Martin Fischer, Hannover
- T6-3B** LACTATE IS A POTENT INHIBITOR OF THE CAPSAICIN RECEPTOR TRPV1
Jeanne de la Roche, Isabella Walther, Waleria Leonow, Axel Hage, Mirjam Eberhardt, Peter W. Reeh, Susanne Sauer, Martin Fischer, Andreas Leffler, Hannover
- T6-4B** NA-K-ATPASE MEDIATED NEURONAL ADAPTION
Susana Andrea Contreras, Jan-Hendrik Schleimer, Susanne Schreiber, Berlin
- T6-5B** NOVEL CHEMICAL AND MOLECULAR TOOLS FOR THE IDENTIFICATION OF RNA EDITING-COMPETENT NEURONS AND RNA-EDITED GLYCINE RECEPTOR (GLYR) PROTEINS
Florian Hetsch, Svenja Kankowski, Nicolai Dorka, Nicole Horn, Larissa Kraus, Jochen Meier, Braunschweig



- T6-6B** NOVEL FORCED INTERCALATION PROBES FOR THE DETECTION OF GLYCINE RECEPTOR (GLYR) RNA EDITING AT THE SINGLE CELL LEVEL
Svenja Kankowski, Andrea Knoll, Felix Hövelmann, Oliver Seitz, Jochen Meier, Braunschweig

Friday

- T6-1C** POTASSIUM CHLORIDE CO-TRANSPORTER 2 EXPRESSION IS UPREGULATED BY POTASSIUM CHLORIDE AND AMPAKINE IN CHICKEN AUDITORY BRAINSTEM IN VITRO
Marcus Joseph Wirth, Soeren Damgaard, Lars Roentgen, Hermann Wagner, Aachen
- T6-2C** PROBING THE CHANNEL GATING OF A GLUTAMATE RECEPTOR WITH PHOTOACTIVE UNNATURAL AMINO ACIDS
Anahita Poshtiban, Mette H. Poulsen, Viktoria Klippenstein, Valentina Guise, Andrew Plested, Berlin
- T6-3C** PROBING THE FUNCTION OF $\alpha 2\delta$ CALCIUM CHANNEL SUBUNITS IN THE GENETIC MODEL SYSTEM *DROSOPHILA MELANOGASTER*
Laurin Heinrich, Stefanie Ryglewski, Carsten Duch, Mainz
- T6-4C** PROTON-DEPENDENT MODULATION OF MOUSE HCN CHANNELS
Daniela Ricarda Drose, Simone Weyand, Alejandro Giorgetti, Paolo Carloni, Marc Spehr, Aachen
- T6-5C** ROLE OF THE PRESYNAPTIC SCAFFOLDING PROTEINS BASSOON AND PICCOLO IN THE REGULATION OF VOLTAGE-GATED CALCIUM CHANNELS AT THE RELEASE SITES AND OF SYNAPTIC VESICLES CYCLING WITHIN THE PRESYNAPSE
Eneko Pina, Carolina Montenegro-Venegas, Maria Andres-Alonso, Claudia Marini, Eckart D. Gundelfinger, Anna Fejtova, Magdeburg
- T6-6C** STRATEGIES TO STABLY RECORD CALCIUM CURRENTS IN SUBSTANTIA NIGRA DOPAMINERGIC NEURONS
Ursel Collienne, Andreas C. Klein, Simon Heß, Stephan Bremser, Peter Kloppenburg, Cologne
- T6-7C** THE CONTRIBUTION OF THE TWO BINDING SITES TO THE OPENING OF THE ADULT NICOTINIC ACETYLCHOLINE RECEPTOR
Dmitrij Ljaschenko, Josef Dudel, Remigijus Lape, Manfred Heckmann, Leipzig

Saturday

- T6-1D** SUBCELLULAR ORGANIZATION OF PRESYNAPTIC Ca^{2+} CHANNELS AT HIPPOCAMPAL MOSSY FIBER SYNAPSES
Julia Bank, Johannes Jordan, Rkos Kulik, Freiburg
- T6-2D** TGF- β REGULATES NBCE1 EXPRESSION AND ACTIVITY IN MOUSE CORTICAL ASTROCYTES
Shokoufeh Khakipoor, Christian Ophoven, Eleni Roussa, Freiburg

- T6-3D** THE ALZHEIMER'S PROTEASE BACE1 AS A SUBUNIT AND NON-ENZYMATIC REGULATOR OF NEURONAL AND CARDIAC KCNQ CHANNELS
Sandra Lehnert, Maren Schülke, Vanessa Linke, Stephanie Hartmann, Christian Alzheimer, Tobias Huth, Erlangen
- T6-4D** TRPC5 CATION CHANNELS CONTRIBUTE TO HORMONE REGULATION IN THE HYPOTHALAMUS
Thomas Blum, Ana Moreno-Perez, Anela Arifovic, Petra Weissgerber, Veit Flockerzi, Marc Freichel, Frank Zufall, Trese Leinders-Zufall, Homburg
- T6-5D** VARIABLE ION CHANNEL EXPRESSION IN IDENTIFIED SINGLE NEURONS - HOMEOSTATIC PLASTICITY OR GENETIC VARIATION?
Carola Staedele, Andrés Gabriel Vidal-Gadea, Wolfgang Stein, Normal, USA
- T6-6D** VASOACTIVITY OF HEME DEGRADATION PRODUCTS (HDPS) ON CEREBRAL ARTERIOLES IN VIVO AND IN VITRO
Alexander Jörk, Milena Günther, Nicolas Witsch, Marcel Ritter, Raphael Andreas Seidel, Georg Pohnert, Matthias Westerhausen, Otto Wilhelm Witte, Knut Holthoff, Jena

T7: Synaptic transmission, pre- and postsynaptic organization

Wednesday

- T7-1A** CHARACTERIZING SYNAPTIC SOUND ENCODING IN NEAR PHYSIOLOGICAL CONDITIONS
Lina Jaime, Chao-Hua Huang, Tobias Moser, Göttingen
- T7-2A** COMPLEXIN 1 REGULATES SYNAPTIC VESICLE RELEASE AT GLYCINERGIC SYNAPSES IN THE MAMMALIAN AUDITORY BRAINSTEM
Francisco José López-Murcia, Kerstin Reim, Nils Brose, Holger Taschenberger, Göttingen
- T7-3A** CONTRIBUTION OF SOMATOSTATIN INTERNEURONS TO NETWORK ACTIVITY IN THE DEVELOPING HIPPOCAMPUS IN VITRO
Tom Floßmann, Knut Kirmse, Otto W Witte, Knut Holthoff, Jena
- T7-4A** DEVELOPMENTAL CHANGES IN THE VESICULAR CONTENT AT AN INHIBITORY SYNAPSE IN THE COCHLEAR NUCLEUS
Jana Nerlich, Rudolf Rübsamen, Ivan Milenkovic, Leipzig
- T7-5A** DIFFERENTIAL DISTRIBUTION OF SYNAPTOSOMAL ASSOCIATED PROTEIN 47 KDA ISOFORM (SNAP47) IN THE MOUSE AND RAT HIPPOCAMPUS
Agnieszka Muenster-Wandowski, Jie Song, Heike Heilmann, Imre Vida, Berlin



- T7-6A** DISTINCT FUNCTIONS OF PICCOLO AND BASSOON AT THE CALYX OF HELD
Christoph Koerber, Thomas Kuner, Daniel Parthier, Heidelberg
- T7-7A** DISTINCT ROLES OF AUXILIARY $\alpha 2\delta$ SUBUNITS OF VOLTAGE-GATED CALCIUM CHANNELS IN EXCITATORY/INHIBITORY NEUROTRANSMISSION AND NETWORK ACTIVITY
Anna Maria Ciuraszkiewicz, Arthur Bikbaev, Jennifer Heck, Romy Schneider, Martin Heine, Magdeburg
- T7-8A** FOUNDATIONS OF HIGH-FIDELITY SYNAPTIC TRANSMISSION AT INTRA-CORTICAL SYNAPSES BETWEEN LAYER 5 PYRAMIDAL NEURONS
Hartmut Schmidt, Grit Bornschein, Jens Eilers, Hartmut Schmidt, Leipzig
- T7-9A** FUNCTIONAL ROLE OF BASSOON AT MOUSE CONE PHOTORECEPTOR RIBBON SYNAPSES
Norbert Babai, Johann Helmut Brandstätter, Andreas Feigenspan, Erlangen
- T7-10A** FUNCTIONAL SPINE ANALYSIS WITH ACTIVITY-BASED AUTOMATIC REGION OF INTEREST GENERATION (AARG)
Charlie Jonathan Gilbride, Camin Dean, Göttingen
- T7-11A** GLUTAMATE DYNAMICS IN THE CLEFT OF SCHAFER COLLATERAL SYNAPSES
Christian Schulze, Céline D. Dürst, J. Simon Wiegert, Thomas G. Oertner, Hamburg

Thursday

- T7-1B** HIPPOCAMPAL OUTPUT TO THE MEDIAL ENTORHINAL CORTEX: FUNCTIONAL MONOSYNAPTIC PROJECTIONS TO LAYER VA NEURONS
Franziska S. Lorenz, Andreas Draguhn, Alexei V. Egorov, Heidelberg
- T7-2B** IMAGING GLUTAMATE RELEASE AT INDIVIDUAL SCHAFER COLLATERAL SYNAPSES
Céline D. Dürst, Christian Schulze, J. Simon Wiegert, Thomas G. Oertner, Hamburg
- T7-3B** IMPAIRED SOUND ENCODING IN PSD-95 KNOCKOUT MICE
Gulnara Yamanbaeva, Sang Yong Jung, Man Ho Wong, Nicola Strenzke, Göttingen
- T7-4B** *IN VIVO* STED IMAGING OF PSD-95 AND GEPHYRIN IN THE VISUAL CORTEX OF THE LIVING MOUSE
Waja Wegner, Heinz Steffens, Katrin I. Willig, Göttingen
- T7-5B** *IN VIVO* TIME LAPSE IMAGING OF AXONAL DENSE CORE VESICLE TRAFFICKING IN ANAESTHETIZED AND AWAKE MICE
Johannes Knabbe, Joris Nassal, Heinz Horstmann, Matthijs Verhage, Thomas Kuner, Heidelberg

- T7-6B** INTERACTION OF PICCOLINO AND RIBEYE AT THE PHOTORECEPTOR RIBBON SYNAPSE
Tanja Müller, Kaspar Gierke, Johann Helmut Brandstätter, Hanna Regus-Leidig, Erlangen
- T7-7B** INTRACELLULAR SODIUM LOADING UNDER ISCHEMIC CONDITIONS *IN SITU* AND *IN VIVO*
Niklas Jonny Gerkau, Cordula Rakers, Gabor C. Petzold, Christine Rosemarie Rose, Duesseldorf
- T7-8B** MULTIVARIATE ANALYSIS OF SYNAPTIC PARAMETERS AT THE *DROSOPHILA* NEUROMUSCULAR JUNCTION
Sebastian Sydlik, Martin Müller, Zurich, Switzerland
- T7-9B** NANOSCOPIC ORGANIZATION OF BASSOON AND PICCOLO AT THE ACTIVE ZONE OF THE CALYX OF HELD
Maja Klevanski, Frank Herrmannsdörfer, Thomas Kuner, Heidelberg
- T7-10B** NRG3 IS A MAJOR BACE1 SUBSTRATE AND CONTROLS SYNAPTOGENESIS
Thomas Müller, Maria Sheean, Birgit Voigt, Stephanie Braud, Rene Jüttner, James Poulet, Jörg Geiger, Carmen Birchmeier, Berlin
- T7-11B** ORIENTATION AND ORGANIZATION OF BASSOON: FROM THE GOLGI TO THE SYNAPSE
Tina Ghelani, Fabian Göttfert, Rene Ebrecht, Fred Wouters, Thomas Dresbach, Göttingen

Friday

- T7-1C** PERIODIC F-ACTIN STRUCTURES SHAPE THE NECK OF DENDRITIC SPINES
Julia Bär, Oliver Kobler, Bas van Bommel, Anja Konietzny, Marina Mikhaylova, Hamburg
- T7-2C** PERSISTENT SODIUM CURRENT MODULATES DISTAL AXONAL EXCITABILITY IN CA1 NEURONS
Peter Müller, Andreas Draguhn, Alexei V. Egorov, Heidelberg
- T7-3C** PRESYNAPTIC MITOCHONDRIAL CALCIUM RELEASE ENHANCES SHORT-TERM FACILITATION DURING BRIEF HIGH-FREQUENCY STIMULATION
Che Ho Yang, Won-Kyoung Ho, Suk-Ho Lee, Seoul, Korea (South)
- T7-4C** REGULATION OF ACTIVITY-DEPENDENT COMPENSATORY ENDOCYTOSIS AT CENTRAL SYNAPSES BY N-CADHERIN
Sushma Dagar, Bernd Van Stegen, Rebekka Ochs, Hermann Aberle, Kurt Gottmann, Duesseldorf
- T7-5C** ROLE OF BASSOON IN THE REGULATION OF SYNAPTIC VESICLE POOL SIZE
Carolina Aida Montenegro Venegas, Eneko Pina, Maria Andres-Alonso, Eckart Gundelfinger, Anna Fejtova, Magdeburg



- T7-6C** ROLE OF THE TRKB RECEPTOR KINASE DOMAIN IN LIGAND-INDEPENDENT TRKB TRANSACTIVATION
Rohini Gupta, Würzburg
- T7-7C** SEPARATE PATHWAYS FOR HIGH AND LOW FREQUENCY SIGNALS IN THE CEREBELLAR CORTEX
Isabelle Straub, Laurens Witter, Miriam Hoidis, Abdelmoneim Eshra, Niklas Byczkowicz, Igor Delvendahl, Kevin Dorgnas, Elise Savier, Ingo Bechmann, Martin Krüger, Philippe Isope, Stefan Hallermann, Leipzig
- T7-8C** SINGLE ACTION POTENTIAL EVOKED DISYNAPTIC INHIBITION IN VIVO
Jean-Sebastien Jouhanneau, Jens Kremkow, James F. A. Poulet, Berlin
- T7-9C** SYNAPTIC PERFORMANCE OF LEMNISCAL INPUT FIBERS ONTO INFERIOR COLLICULUS NEURONS
Sina Brill, Eckhard Friauf, Kaiserslautern
- T7-10C** SYNAPTIC TRANSLATION OF NEUROLIGIN 1, 2 AND 3
Bozena Kuzniewska, Joanna Podsiadlowska, Jacek Milek, Magdalena Dziembowska, Warsaw, Poland
- T7-11C** SYSTEMATIC INVESTIGATION OF THE ROLES OF PROTEINS WITH CALCIUM-BINDING DOMAINS IN SYNAPTIC TRANSMISSION AND PRESYNAPTIC CALCIUM BUFFERING
Vanessa Maria Hoop, Martin Müller, Zurich, Switzerland

Saturday

- T7-1D** THE DISCREPANCY BETWEEN THE PRESYNAPTIC VESICLE FUSION RATE AND THE POSTSYNAPTIC SPIKE RATE AT THE FIRST AUDITORY SYNAPSE
Ellen Reisinger, Rituparna Chakrabarti, Carolin Wichmann, Nicola Strenzke, Göttingen
- T7-2D** THE IMPACT OF NKCC1-MEDIATED GABAERGIC DEPOLARIZATION ON THE DEVELOPMENT OF HIPPOCAMPAL NETWORK ACTIVITY IN MICE
Jürgen Graf, Chuanqiang Zhang, Knut Kirmse, Otto W. Witte, Knut Holthoff, Jena
- T7-3D** THE INSTANTANEOUS TIME CONSTANT AS A MEASURE OF CONDUCTANCE CHANGES OF NEURONS DURING EXCITATORY SYNAPTIC INPUTS
Antonio Yanez, Timm Hondrich, Andreas Draguhn, Martin Both, Heidelberg
- T7-4D** THE PRESYNAPTIC SCAFFOLD-BASSOON-ACTS AS A MASTER REGULATOR OF THE UBIQUITIN-PROTEASOME SYSTEM
Sandra Kamila Fienko, Carolina Montenegro, Anna Fejtova, Magdeburg
- T7-5D** THE ROLE OF THE ALANINE-SERINE-CYSTEINE-1 TRANSPORTER IN GLYCINERGIC TRANSMISSION
Guillaume Mesuret, Sepideh Khabbazzadeh, Anne M. Bischoff, Herman Wolosker, Swen Hülsmann, Göttingen

- T7-6D** THE SNAP-25 LINKER IS AN INTEGRAL REGULATOR OF SNARE-MEDIATED EXOCYTOSIS
Ahmed Shaaban, Homburg
- T7-7D** TIGHT DISTRIBUTION OF SYNAPTIC VESICLE RELEASE SITES GENERATED BY UNC13A LIMITS AND SYNCHRONIZES NEUROTRANSMISSION
Alexander Matthias Walter, Suneel Reddy-Alla, Mathias Böhme, Eric Reynolds, Christina Beis, Malou Mampell, Ulises Rey, Tanja Matkovic, Meida Jusyte, Husam Babikir, Fabian Göttfert, Stephan Hell, Stephan Sigrist, Berlin
- T7-8D** ULTRASTRUCTURAL ANALYSIS OF ROD PHOTORECEPTOR RIBBON SYNAPSES IN A PICCOLINO KO RAT
Kaspar Gierke, Tanja Müller, Craig Garner, Johann Helmut Brandstätter, Hanna Regus-Leidig, Erlangen
- T7-9D** VISUAL PROCESSING AND NETWORK REMODELLING WITHIN AN EPILEPTIC FOCUS IN MOUSE VISUAL CORTEX
Laura Restani, Eleonora Vannini, Alessandro Panarese, Alberto Mazzoni, Matteo Spinelli, Marco Milanese, Stefano Lai, Silvestro Micera, Matteo Caleo, Pisa, Italy
- T7-10D** WHAT GUIDES BRUCHPILOT AND RIM-BINDING PROTEIN INTO THE ACTIVE ZONE? A DOMAIN ANALYSIS OF TWO PRESYNAPTIC CORE COMPONENTS
Astrid G. Petzoldt, Janine Lützkendorf, Suneel Reedy, Torsten Götz, Stephan Sigrist, Berlin
- T7-11D** μ -OPIOID RECEPTOR-MEDIATED ATTENUATION OF MIDLINE THALAMIC INPUTS TO THE AMYGDALA
Lena Goedecke, Peter Blaesse, Hans-Christian Pape, Kay Jüngling, Münster

T8: Synaptic plasticity, LTP, LTD

Wednesday

- T8-1A** ACTIVITY-DEPENDENT SPATIALLY-LOCALIZED MIRNA MATURATION IN NEURONAL DENDRITES
Sivakumar Sambandan, Gueney Akbalik, Jennifer Rinne, Lisa Kochen, Josefine Kahlstatt, Georgi Tushev, Caspar Glock, Alexander Heckel, Erin Schuman, Frankfurt am Main
- T8-2A** AGE-DEPENDENT EFFECT OF TH-9 ON SYNAPTIC PLASTICITY IN THE RAT HIPPOCAMPUS *IN VITRO*
Samuel B. Kombian, Houda Nashawi, Tomas Bartl, Ladislav Novotny, Mabayoje Oriowo, Kuwait City, Canada
- T8-3A** ARRAY TOMOGRAPHY – HIGH-RESOLUTION LOCALIZATION OF SYNAPTIC PROTEINS IN THE HONEYBEE BRAIN
Thomas S. Muenz, Vivien Bauer, Christian Stigloher, Wolfgang Rössler, Würzburg



- T8-4A** BDNF-DEPENDENT REGULATION OF HIPPOCAMPAL NEURON ARCHITECTURE, ACTIVITY AND PLASTICITY UPON FINGOLIMOD TREATMENT
Abhisarika Patnaik, Marta Zagrebelsky, Martin Korte, Braunschweig
- T8-5A** BLOCKADE OF BRAIN ANGIOTENSIN II AT1 RECEPTORS ABOLISHES CAPSAICIN-MEDIATED DEFICITS IN SYNAPTIC PLASTICITY IN MOUSE LATERAL AMYGDALA
Christine Gebhardt, Doris Albrecht, Berlin
- T8-6A** CHRONIC MANIPULATION OF ACTIVITY AT IDENTIFIED SYNAPSES
Mauro Pulin, Thomas G. Oertner, J. Simon Wiegert, Hamburg
- T8-7A** CONTRIBUTION OF SINGLE AND MULTIPLE POSTSYNAPTIC ACTION POTENTIALS TO DOPAMINE SIGNALING
Efrain Cepeda-Prado, Elke Edelmann, Volkmar Leßmann, Magdeburg
- T8-8A** D1-LIKE DOPAMINE RECEPTOR ACTIVATION AFFECTS THE PERISYNAPTIC EXTRACELLULAR MATRIX IN A PROTEIN KINASE A - DEPENDENT MANNER
Jessica Mitlöhner, Alexander Dityatev, Constanze Seidenbecher, Renato Frischknecht, Magdeburg

Thursday

- T8-1B** ENHANCED NEURONAL EXCITABILITY AND INCREASED NUMBER OF GLUTAMATERGIC SYNAPSES PROMOTE NETWORK OSCILLATIONS IN A HUMAN STEM CELL-DERIVED MODEL OF AUTISM
Katharina Behr, Philippe Valmaggia, Ravi Jagasia, Josef Bischofberger, Basel, Switzerland
- T8-2B** FAST DYNAMICS OF ENDOPLASMIC RETICULUM IN RELATION TO SPINE PLASTICITY
Alberto Perez Alvarez, Shuting Yin, Christian Schulze, John A Hammer, Wolfgang Wagner, Thomas G. Oertner, Hamburg
- T8-3B** GHRELIN STIMULATES FYN-MEDIATED PHOSPHORYLATION OF GLUN2B SUBUNIT AT TYR-1336 THROUGH THE ACTIVATION OF GHSR1A IN THE RAT HIPPOCAMPUS
Masako Isokawa, Brownsville, USA
- T8-4B** HIPPOCAMPAL MOSSY FIBER SYNAPSES REPRESENT INDIVIDUAL COMPUTATIONAL UNITS
Alexander Drake, Urban Maier, Michael Frotscher, Hamburg
- T8-5B** HOMEOSTATIC PLASTICITY IN THE BRAIN IS FACILITATED BY PROTEOLYSIS OF THE EXTRACELLULAR MATRIX
Armand Blondiaux, Alessandra Pellerito, Eckart D. Gundelfinger, Constanze Seidenbecher, Renato Frischknecht, Magdeburg

- T8-6B** INVESTIGATING INTERACTIONS OF MICRORNAS AND THEIR TARGETS IN LEARNING AND MEMORY IN THE HONEYBEE (*APIS MELLIFERA*)
Susanne Kraft, Julia Michely, Fabian Kobel, Uli Müller, Saarbrücken
- T8-7B** LOCAL TRANSLATION OF ACTIN-BINDING PROTEINS IN THE CENTRAL NERVOUS SYSTEM
Jonas Feuge, Martin Korte, Kristin Michaelsen-Preusse, Braunschweig

Friday

- T8-1C** LONG-TERM DEPRESSION (LTD) AT HIPPOCAMPAL MOSSY FIBER-CA3 SYNAPSES IN RODENTS IS INDEPENDENT OF BDNF SIGNALING UNLIKE SCHAFER COLLATERAL-CA1 SYNAPSES
Machhindra Chandrakant Garad, Elke Edelman, Volkmar Lessmann, Magdeburg
- T8-2C** MADM CONTROLS SYNAPSE DEVELOPMENT AND MAINTENANCE
Kumar Aavula, Ingrid Kieweg, Victoria Bulat, Jan Pielage, Kaiserslautern
- T8-3C** MODULATION OF DENDRITIC GABAA RECEPTORS RESCUES IMPAIRED NMDA RECEPTOR ACTIVATION IN A MOUSE MODEL OF DOWN SYNDROME
Jan Michael Schulz, Frederic Knoflach, Maria-Clemencia Hernandez, Josef Bischofberger, Basel, Switzerland
- T8-4C** PATTERNED STIMULATION OF THE PIRIFORM CORTEX INDUCES HIPPOCAMPAL SYNAPTIC PLASTICITY IN VIVO
Denise Manahan-Vaughan, Christina Strauch, Bochum
- T8-5C** MOVER: A NOVEL VERTEBRATE-SPECIFIC MODULATOR OF TRANSMISSION AT SPECIALIZED SYNAPSES
Julio Viotti, Hermes Pofantis, Thomas Dresbach, Göttingen
- T8-6C** NOVEL MECHANISM FOR STUDYING LTM FORMATION: BEHAVIORAL TAGGING
Shruti Vishnoi, Suhel Parvez, New Delhi, India
- T8-7C** OPTOGENETIC MANIPULATION OF CYCLIC NUCLEOTIDES AND HIPPOCAMPAL SYNAPTIC PLASTICITY
Oana Constantin, Ulrike Scheib, Daniel Udvari, Peter Hegemann, Thomas G. Oertner, Christine E. Gee, Hamburg
- T8-8C** PALMITOYLATION OF CDC42 MAINTAINS ITS NEURONAL FUNCTIONS
Alexander Wirth, Norihiko Yokoi, Masaki Fukata, Evgeni Ponimaskin, Hannover

Saturday

- T8-1D** TUNING SYNAPTIC PLASTICITY VIA NEUROGRANIN-DEPENDENT REGULATION OF NEURONAL PHOSPHOPROTEOME AND PP2B ACTIVITY
Weifeng Xu, Hongik Hwang, Mathew J. Szucs, Lei J. Ding, Fan Gao, Steven A. Carr, Rushdy Amhad, Cambridge, USA



- T8-2D** POTENTIATION OF INPUT-OUTPUT RELATIONSHIPS DURING MGLUR-DEPENDENT LTD AT SCHAFFER COLLATERAL-CA1 SYNAPSES IS MEDIATED BY ENDOCANNABINOID-DEPENDENT LTD OF INHIBITORY SYNAPSES
Hye-Hyun Kim, Suk-Ho Lee, Won-Kyung Ho, Seoul, Korea (South)
- T8-3D** PRIMING OF HIPPOCAMPAL SYNAPSES BY DOPAMINE
Annika Briese, Volkmar Leßmann, Elke Edelmann, Magdeburg
- T8-4D** REPETITIVE MAGNETIC STIMULATION MODULATES INHIBITORY NEUROTRANSMISSION
Maximilian Lenz, Christos Galanis, Florian Müller-Dahlhaus, Alexander Opitz, Corette J. Wierenga, Gábor Szabó, Ulf Ziemann, Thomas Deller, Klaus Funke, Andreas Vlachos, Düsseldorf
- T8-5D** ULTRASTRUCTURAL REORGANIZATION OF RECYCLING VESICLE POOLS MEDIATED BY LONG-TERM PLASTICITY IN HIPPOCAMPUS
Stephanie Rey, Catherine Smith, Kevin Staras, Brighton, UK
- T8-6D** UNALTERED HIPPOCAMPAL SYNAPTIC TRANSMISSION AND PLASTICITY IN MICE DEFICIENT IN THE ACTIN-BINDING PROTEIN DREBRIN
Claudia Gisela Willmes, Till G. A. Mack, Julia Ledderose, Dietmar Schmitz, Christian Wozny, Britta J. Eickholt, Berlin
- T8-7D** WITHIN-GAP RECOVERY AND REBOUND EFFECTS OF LSO INPUTS
Elisa Krächan, Tatjana Schmitt, Martin Fuhr, Alexander Mehring, Isabelle Römer, Eckhard Friauf, Kaiserslautern

T9: Glia, glia-neuron interactions

Wednesday

- T9-1A** ABSENCE OF THE ASTROCYTIC AP-2 DISRUPTS INTRACELLULAR CALCIUM AND SODIUM HOMEOSTASIS AND DYSREGULATES GLUTAMATE UPTAKE AND LYSOSOMAL FUNCTION
Tania Lopez-Hernandez, Dmytro Puchkov, Eberhard Krause, Tanja Maritzen, Volker Haucke, Berlin
- T9-2A** ANALYSIS OF MICROGLIAL SYNAPTIC SURVEYING TERRITORY IN THE STRATUM RADIATUM OF CA1 OF SEDENTARY AND EXERCISED WISTAR RATS
Lane V. Krejcova, Joao B. Torres, Rubem C. de Araujo Guedes, Marcus A. Oliveira, Victor H. Perry, Cristovam P. Piniz, Belem, Brazil

- T9-3A** CA²⁺-PERMEABLE AMPA RECEPTORS IN PERIGLOMERULAR ASTROCYTES OF THE MOUSE OLFATORY BULB
Damian Droste, Laura Seddar, Gerald Seifert, Christian Steinhäuser, Christian Lohr, Hamburg
- T9-4A** CARBACHOL-EVOKED ASTROCYTIC CALCIUM SIGNALS IN HIPPOCAMPAL SLICES
Tamar Smit, Wytse Wadman, Elly Hol, Amsterdam, The Netherlands
- T9-5A** CHARACTERIZATION OF ION CHANNELS IN ASTROCYTES PROLIFERATING IN RESPONSE TO ACUTE BRAIN INJURY
Stefanie Götz, Magdalena Götz, Benedikt Grothe, Lars Kunz, Munich
- T9-6A** DIFFERENCES IN THE MOLECULAR STRUCTURE OF THE BLOOD-BRAIN BARRIER IN THE CEREBRAL CORTEX AND WHITE MATTER
Imola Wilhelm, Ádám Nyúl-Tóth, Maria Suciu, Csilla Fazakas, János Haskó, Hildegard Herman, Attila E. Farkas, Mihály Kozma, Kinga Molnár, Anca Hermenean, István A. Krizbai, Szeged, Hungary
- T9-7A** VISUALIZATION OF TETRAPARTITE SYNAPSE: TOWARDS UNDERSTANDING THE LOGIC OF STRUCTURAL SYNAPTIC PLASTICITY
Rahul Kaushik, Alexander Dityatev, Magdeburg

Thursday

- T9-1B** EXPRESSION OF FUNCTIONAL INHIBITORY NEUROTRANSMITTER TRANSPORTERS AND RECEPTORS IN ASTROCYTES OF THE INFERIOR COLLICULUS AND THE HIPPOCAMPUS
Julia Hammerich, Elsa Ghirardini, Vanessa Augustin, Jasmin Becker, Sina Brill, Jonathan Stephan, Kaiserslautern
- T9-2B** FUNCTIONAL ANISOTROPIC PANGLIAL NETWORKS IN THE LATERAL SUPERIOR OLIVE
Vanessa Augustin, Charlotte Bold, Simon L. Wadle, Julia Langer, Ronald Jabs, Camille Philippot, Dennis J. Weingarten, Christine R. Rose, Christian Steinhäuser, Jonathan Stephan, Kaiserslautern
- T9-3B** GLIAL ACTIVITY PATTERNS IN MEMORY-RELATED NETWORKS OF MICE
Hannah Jakobi, Rolf Sprengel, Heidelberg
- T9-4B** INTRACELLULAR ION SIGNALING INFLUENCES MYELIN BASIC PROTEIN SYNTHESIS IN OLIGODENDROCYTE PRECURSOR CELLS
Jens Peter Hammann, Maik Friess, Petr Unichenko, Heiko J. Luhmann, Robin White, Sergej Kirischuk, Mainz
- T9-5B** INVESTIGATING THE PHENOTYPE OF MICROGLIA IN AN ANIMAL MODEL OF AUTISM SPECTRUM DISORDER USING NEUROLIGIN-4 KNOCKOUT MICE
Dilansu Güneykaya, Cagla Comert, Hannelore Ehrenreich, Nils Brose, Helmut Kettenmann, Susanne A. Wolf, Berlin



- T9-6B** NORADRENALINE SUPPRESSES A CHLORIDE CURRENT AS WELL AS PHAGOCYTOSIS IN MURINE MICROGLIA
Michael Kittl, Martin Jakob, Tanja S. Steininger, Markus Ritter, Hubert H. Kerschbaum, Salzburg, Austria

Friday

- T9-1C** OLIGODENDROCYTE-SPECIFIC DELETION OF HIF1 α LEADS TO DYSFUNCTIONAL AXONAL MITOCHONDRIA
Iva D. Tzvetanova, Wiebke Moebius, Torben Ruhwedel, Andrea Trevisiol, Sharlen Moore, Klaus-Armin Nave, Göttingen
- T9-2C** PANGLIAL GAP-JUNCTIONAL COUPLING MEDIATES CALCIUM SIGNALING BETWEEN OLFACTORY BULB GLIAL CELLS
Antonia Beiersdorfer, Christian Lohr, Hamburg
- T9-3C** PHOSPHORYLATION OF FOCAL ADHESION KINASE AT Y925: ROLE IN RADIAL NEURONAL MIGRATION
Lingzhen Song, Xuejun Chai, Shanting Zhao, Michael Frotscher, Hamburg
- T9-4C** REELIN FROM INTERNEURONS INFLUENCES GLIAL CELL MORPHOLOGY AND ADULT NEUROGENESIS IN THE DENTATE GYRUS
Jasmine Pahle, Anja Tippmann, Mary Muhia, Matthias Kneussel, Michael Frotscher, Bianka Brunne, Hamburg
- T9-5C** REGIONAL HETEROGENEITY IN ASTROCYTE SODIUM SIGNALING
Daniel Ziemens, Christine R. Rose, Duesseldorf
- T9-6C** SEPTIN FILAMENTS SCAFFOLD CNS MYELIN TO ACCELERATE NERVE CONDUCTION
Hauke B. Werner, Stefan Tenzer, Michelle Erwig, Kathrin Kusch, Payam Dibaj, Wiebke Möbius, Sandra Goebbels, Nicole Schaeren-Wiemers, Klaus-Armin Nave, Julia Patzig, Göttingen

Saturday

- T9-1D** SIMULTANEOUS ACTIVATION OF INTERFERON-GAMMA AND TOLL-LIKE RECEPTORS SEVERELY IMPAIRS NEURONAL NETWORK ACTIVITY
Simone Daniela Schilling, Jan-Oliver Hollnagel, Andrea Lewen, Oliver Kann, Heidelberg
- T9-2D** SMALL MOLECULE MEDIATED DIFFERENTIATION OF HIPSCS DERIVED NSCS TOWARDS ASTROCYTES
Pretty Garg, Katja Nieweg, Marburg
- T9-3D** SODIUM SIGNALING IN WHITE MATTER GLIAL CELLS
Behrouz Moshrefi-Ravasdjani, Gerald Seifert, Christian Steinhäuser, Christine R. Rose, Düsseldorf
- T9-4D** THE GROWTH/DIFFERENTIATION FACTOR GDF15 SIGNALS THE SPROUTING OF NEW ASTROCYTE PROCESSES UPON FLUOXETINE TREATMENT
Barbara Di Benedetto, Victoria A. Malik, Laura A. Mittmann, Rainer Rupprecht, Inga D. Neumann, Regensburg

- T9-5D** THE IMPACT OF ASTROCYTES MORPHOLOGY ON THEIR Ca^{2+} CHARACTERISTICS
Andre Zeug, Franziska E. Müller, Volodymyr Cherkas, Evgeni Ponimaskin, Hannover
- T9-6D** THE ROLE OF PMP22 IN CMT DISEASE TYPE 1A
Friederike Arlt, Robert Fledrich, Ruth M. Stassart, Olaf Jahn, Klaus Armin Nave, Michael W. Sereda, Göttingen

T10: Aging and developmental disorders

Wednesday

- T10-1A** A DEEPENING OF ACTIGRAPHIC SLEEP QUALITY AND 24-H ACTIVITY RHYTHM IN ADULTS WITH ATTENTION-DEFICIT/HYPERACTIVITY DISORDER
Chiara Colombo, Lorenzo Tonetti, Andreas Conca, Giancarlo Giupponi, Vincenzo Natale, Bolzano, Italy
- T10-2A** AGE-RELATED HEARING LOSS: AUDITORY PLASTICITY GONE TOO FAR?
UNDERSTANDING THE RELATIONSHIP BETWEEN THE PERINEURONAL NET AND GLIA WITHIN THE AUDITORY PATHWAY IN A MOUSE MODEL OF AGE-RELATED HEARING LOSS
Shmma Quraishe, Genevieve Brixton, Bethan Impey, Edward T F Rogers, Carl Verschuur, Tracey A Newman, Southampton, UK
- T10-3A** ANALYSIS OF TRANSCRIPTOMIC CHANGES INDUCED BY MITOCHONDRIAL COMPLEX II INHIBITOR IN A NEURONAL CELL LINE: FOCUS ON MITOCHONDRIAL FUNCTION WITH IMPLICATIONS FOR NEURODEGENERATIVE DISORDERS
Ranganayaki Sathyanarayanan, Santosh Narwade, Deepthi Deobagkar, Gayathri Narayanappa, Srinivas Bharath, Bengaluru, India
- T10-4A** COMPARISON OF PERCENTAGES OF NEURONS IMMUNOREACTIVE FOR NMDA RECEPTOR SUBUNIT 2A/B IN THE FUSIFORM GYRUS IN PEOPLE WITH AUTISM SPECTRUM DISORDER AND A CONTROL GROUP
Juliane T. Zimmermann, Steven A. Chance, Cologne
- T10-5A** DEFICIENCY OF LATROPHILIN-3, A RISK FACTOR FOR ATTENTION DEFICIT HYPERACTIVITY DISORDER, INCREASES LOCOMOTOR ACTIVITY AND ALTERS LEARNING AND MEMORY IN MICE
Olga Rivero, Niall Mortimer, Sandy Popp, Florian Freudenberg, Klaus Peter Lesch, Würzburg



Thursday

- T10-1B** KNOCK-OUT OF PTRH2 CAUSES ABNORMALITIES IN CEREBELLAR DEVELOPMENT AND MORPHOLOGY
Sylvie Picker-Minh, Magdalena John, Jessica Fassbender, Sami Zaqout, Angela Kaindl, Berlin
- T10-2B** GABAERGIC SUBSTRATE OF ABNORMAL PREFRONTAL-HIPPOCAMPAL COMMUNICATION DURING DEVELOPMENT IN A GENE-ENVIRONMENTAL MODEL OF MENTAL ILLNESS
Mattia Chini, Christoph Lindemann, Henrike Hartung, Sebastian H. Bitzenhofer, Ileana L. Hanganu-Opatz, Hamburg
- T10-3B** GOLGI-ASSOCIATED COHEN SYNDROME PROTEIN COH1 REGULATES NEURITE OUTGROWTH IN VITRO
Stefanie Lommatzsch, Jirko Kühnisch, Tanja Maritzen, Denise Horn, Sebastian Bachmann, Volker Haucke, Wenke Seifert, Berlin
- T10-4B** IDENTIFY DYSREGULATED AUTOPHAGY AS CAUSE FOR CHANGES IN SYNAPTIC FUNCTIONING IN KOOLEN DE VRIES SYNDROME
Katrin Linda, Nijmegen, The Netherlands

Friday

- T10-1C** LACK OF *SHANK1* LEADS TO COGNITIVE DEFICITS, REDUCTIONS IN CORTICAL PARVALBUMIN EXPRESSION, AND ALTERED HIPPOCAMPAL BDNF LEVELS RELATED TO EPIGENETIC MODIFICATIONS IN MICE
Ayse Özge Sungur, Federica Filice, Magdalena C. E. Jochner, Karl Jakob Vörckel, Hani Harb, Ayse Kilic, Holger Garn, Rainer K. W. Schwarting, Beat Schwaller, Markus Wöhr, Marburg
- T10-2C** NEURONAL NETWORKS ON MICRO-ELECTRODE ARRAYS: A MODEL TO STUDY NEURODEVELOPMENTAL DISORDERS
Monica Frega, Katrin Linda, Britt Mossink, Jason Keller, Dirk Schubert, Nael Nadif Kasri, Nijmegen, Netherlands
- T10-3C** NEURONAL REDOX IMBALANCE IN RETT SYNDROME: A KEY PLAYER IN NEURONAL NETWORK DYSFUNCTION AND ALTERED NEUROTRANSMITTER RESPONSIVENESS?
Karolina Can, Karina Festerling, Johan Tolö, Sebastian Kügler, Michael Müller, Göttingen
- T10-4C** OPTOGENETIC STUDIES ON DYSFUNCTIONS OF STRIATAL CHOLINERGIC INTERNEURONS IN DYSTONIA
Anne Bauer, Julia Gerstenberger, Franziska Richter, Angelika Richter, Leipzig

T10-5C HOMOZYGOUS YME1L1 MUTATION CAUSES MITOCHONDRIOPATHY WITH OPTIC ATROPHY AND MITOCHONDRIAL NETWORK FRAGMENTATION
Bianca Hartmann, Timothy Wai, Hao Hu, Thomas MacVicar, Luciana Musante, Björn Fischer-Zirnsak, Werner Stenzel, Ralph Gräf, Lambert van den Heuvel, Hans-Hilger Ropers, Thomas F. Wienker, Christoph Hübner, Thomas Langer, Angela M. Kaindl, Berlin

T10-6C LOSS OF MECP2 DISRUPTS CELL AUTONOMOUS AND AUTOCRINE BDNF SIGNALING IN MOUSE GLUTAMATERGIC NEURONS
Charanya Sampathkumar, Yuan-Ju Wu, Mayur Vadhvani, Thorsten Trimbuch, Britta Eickholt, Christian Rosenmund, Berlin

Saturday

T10-1D RESPIRATORY ACIDOSIS INDUCES MIGRATION DEFECTS OF NEURONS IN CEREBRAL CORTEX AND HIPPOCAMPUS
Xuejun Chai, Lingzhen Song, Michael Frotscher, Hamburg

T10-2D SEX AND VIOLENCE – SOCIAL PHENOTYPES IN DNLG2 AND 4 DEFICIENT *DROSOPHILA*
Robert Kossen, Kristina Corthals, Alina S. Heukamp, Isabel Großhennig, Nina Hahn, Heribert Gras, Ralf Heinrich, Bart R.H. Geurten, Göttingen

T10-3D SOMATOSTATIN DISTRIBUTION IN THE ENTORHINAL CORTEX OF DELAYED AND SENESCENCE ACCELERATED MOUSE MODELS
Noemi Villaseca González, Joaquin Gonzalez-Fuentes, Carmen Moya, Lucia Castro-Vazquez, M. Victoria Lozano, Virginia Rodriguez-Robledo, Manuel J. Santander-Ortega, Pilar Marcos, M. M. Arroyo-Jimenez, Albacete, Spain

T10-4D STUDYING THE LONG TERM NEUROPATHOLOGICAL CONSEQUENCES OF ENCEPHALOPATHY OF PREMATURITY IN A SMALL ANIMAL MODEL
Bobbi Fleiss, Stephanie Sigaut, Luisa-Sophie Klein, Leslie Schwendimann, Juliette Van Steenwinkel, Dulcie Voesden, Jason P. Perch, Anthony C. Vernon, Thomas Schmitz, Pierre Gressens, Paris, France

T10-5D THE HYPOXIA SENSING PVHL-EGLN1-HIF1 α PATHWAY IS CRITICAL FOR CEREBELLAR GRANULE CELL MIGRATION
Jan A. Kullmann, Niraj Trivedi, Danielle Howell, David J. Solecki, Memphis, TN, USA

T10-6D HOMOZYGOUS ARHGEF2 GENE MUTATION CAUSES INTELLECTUAL DISABILITY AND MIDBRAIN-HINDBRAIN MALFORMATION
Ethiraj Ravindran, Berlin



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

Wednesday

- T11-1A** ACID SPHINGOMYELINASE INHIBITOR AMITRIPTYLINE INDUCES ANGIOGENESIS OF CEREBRAL MICROVASCULAR CELLS BY MECHANISMS INVOLVING THE NOTCH PATHWAY
Tanja Bergmann, Ayan Yusuf, Nina Hagemann, Dirk M. Hermann, Essen
- T11-2A** ALPHA-SYNUCLEIN AGGREGATION AND SPREADING IN MOUSE MODELS OF PARKINSON'S DISEASE
Karina Joppe, Lars Tatenhorst, Karin Giller, Stefan Becker, Markus Zweckstetter, Mathias Bähr, Paul Lingor, Göttingen
- T11-3A** ALTERED AUTOPHAGIC PATHWAY IN TBK1-MUTANT MOTOR NEURONS DERIVED FROM HUMAN INDUCED PLURIPOTENT STEM CELLS
Alberto Catanese, Alena Ehrmann, Maria Demestre, Axel Freischmidt, Jochen Weishaupt, Francesco Roselli, Tobias Boeckers, Ulm
- T11-4A** ALTERED HIPPOCAMPAL AND CORTICAL EEG FREQUENCY CHARACTERISTICS IN THE APPSWEPS1DE9 MODEL OF ALZHEIMER'S DISEASE
Marco Weiergräber, Julien Soos, Andreas Lundt, Carola Wormuth, Ralf Müller, Christina Henseler, Karl Broich, Dan Ehninger, Britta Haenisch, Anna Papazoglou, Bonn
- T11-5A** ALTERED LONG-TERM POTENTIATION IN THE HIPPOCAMPUS OF PS19-P301S TRANSGENIC MICE
Michael Bahr, Eva Harde, Ana Relo, Berthold Behl, Karsten Wicke, Maria Vasileva, Ludwigshafen
- T11-6A** ASSESSMENT OF THE NEUROPROTECTIVE EFFECTS OF EZETIMIBE VERSUS SIMVASTATIN IN ANIMAL MODEL OF ALZHEIMER'S INDUCED DEMENTIA
Mohamed Elgamal, Mohamed Salama, Mahmoud Khalaf Allah, Mohamed Zalabia, Esraa Elsayed, Wael Mohamed, Mohamed Sobh, Mansoura, Egypt
- T11-7A** BACE1 MODULATES SYNAPTIC TRANSMISSION AT THE HIPPOCAMPAL MOSSY FIBER SYNAPSE BY REGULATING KV3.4 CHANNELS
Stephanie Hartmann, Fang Zheng, Michele Constanze Kyncl, Sandra Lehnert, Carla D'Avanzo, Kerstin Vökl, Christian Alzheimer, Doo Yeon Kim, Tobias Huth, Erlangen
- T11-8A** CHARACTERIZATION OF EPILEPTIFORM ACTIVITY IN HIPPOCAMPAL SLICES
Maria Vasileva, Tanja Georgi, Karsten Wicke, Eva Harde, Ludwigshafen
- T11-9A** CONTEXTUAL FEAR LEARNING AND HIPPOCAMPAL PLASTICITY IN APP/PS1 MICE
Georgia - Ioanna Kartalou, Thomas Endres, Gloria Hölzl, Elke Edelmann, Kurt Gottmann, Volkmar Leßmann, Magdeburg

- T11-10A** CONTRALATERAL BONT-A INJECTION IN THE STRIATUM OF 6-OHDA HEMILESIONED RATS GIVE EVIDENCE FOR LONG LASTING EFFECTS ON BASAL GANGLIA CIRCUITRY
Alexander Hawlitschka, Andreas Wree, Rostock
- T11-11A** COULD HYPERHOMOCYSTEINEMIA AFFECTS NEURODEGENERATION AFTER ISCHEMIA/REPERFUSION INJURY OF RAT BRAIN?: AN EXPERIMENTAL MODEL OF A POSSIBLE DEVELOPMENT OF ALZHEIMER'S DISEASE
Maria Kovalska, Barbara Tothova, Dagmar Kalenska, Marian Adamkov, Jan Lehotsky, Martin, Slovakia
- T11-12A** CUPRIZONE INDUCED DE- AND REMYELINATION IN THE SPINAL CORD OF TRANSGENIC MICE
Phillip Rieder, Andreea Pantiru, Babette Fuss, Anja Scheller, Frank Kirchhoff, Homburg
- T11-13A** DETAILED CLASSIFICATION OF EPILEPTIFORM ACTIVITY REVEALS ANTI-CORRELATION BETWEEN SEVERE AND MILD EPILEPTIC BURSTS
Katharina Heining, P. Janz, A. Kiliyas, CA. Haas, U. Egert, Freiburg
- T11-14A** DEVELOPING AN ISOGENIC NEURON-ASTROCYTE MODEL TO STUDY THE ISOFORM-SPECIFIC EFFECT OF APOE IN LATE-ONSET ALZHEIMER'S DISEASE
Shadaan Zulfiqar, Katja Nieweg, Marburg
- T11-15A** POLY(PROPYLENE IMINE)DENDRIMERS INHIBIT RT-QUIC BASED IN VITRO AMPLIFICATION OF PRION PROTEIN
Niccoló Candelise, Susana Margarida da Silva Correia, Dietmar Appelhans, Matthias Schmitz, Inga Zerr, Göttingen

Thursday

- T11-1B** DEVELOPMENT OF PARKINSONIAN PATHOPHYSIOLOGY ON THE SINGLE UNIT LEVEL: A RAT 6-OHDA STUDY
Zifeng Xia, Frank W Ohl, Michael Lippert, Kentaroh Takagaki, Magdeburg
- T11-2B** 'DISEASE MODELING IN A DISH' FOR SPORADIC AMYOTROPHIC LATERAL SCLEROSIS USING HUMAN EMBRYONIC STEM CELLS DERIVED MOTOR NEURONS
Sumitha Rajendrarao, Sabitha K. R., Laxmi T. Rao, Phalguni A. Alladi, A. Nalini, Boris W. Kramer, T. N. Sathyaprabha, T. R. Raju, Bangalore, India
- T11-3B** DISTURBED GABAERGIC TRANSMISSION IN THE CLN3^{-/-} MOUSE MODEL OF BATTEN DISEASE
Benedikt Grünwald, Maren D. Lange, Christian Werner, Aet O`Leary, Andreas Weishaupt, Sandy Popp, David A. Pearce, Andreas Reif, Hans C. Pape, Klaus V. Toyka, Claudia Sommer, Christian Geis, Jena
- T11-4B** EARLY EEG ABNORMALITIES IN A MODEL OF TAUOPATHY
Peter Veselcic, Maria Vasileva, Eva Harde, Karsten Wicke, Ludwigshafen



- T11-5B** EFFECT OF CAFFEINE AND MDMA OR METHAMPHETAMINE COMBINATION ON DA AND 5-HT RELEASE AND DNA DAMAGE IN THE MOUSE BRAIN
Krystyna Golembiowska, Anna Gorska, Katarzyna Kaminska, Grzegorz Kreiner, Kraków, Poland
- T11-6B** EFFECT OF GALACTOSE-RICH DIET ON NEURODEGENERATION IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS
Kristina Kuhbandner, Sarah Hirschberg, Stefanie Jörg, Ralf Gold, Aiden Haghikia, Ralf A. Linker, Erlangen
- T11-7B** EFFECTS OF RGFP109, A SPECIFIC HISTONE DEACETYLASE (HDAC) INHIBITOR, ON NEURONAL HEALTH AND RESCUE OF TRANSCRIPTION IN NEURONAL CULTURE MODEL OF HUNTINGTON'S DISEASE
Ashraf Nabil Abdo, Miguel Angelo Lopes, Foteini Paraskevopoulou, Christian Rosenmund, Ferah Yildirim, Berlin
- T11-8B** EVALUATION OF CHRONIC NICOTINE TREATMENT ON HIPPOCAMPAL OSCILLATORY ACTIVITY AND SLEEP PATTERN ANALYSIS OF A G72 TRANSGENIC MOUSE MODEL FOR SCHIZOPHRENIA
Anna Papazoglou, Andreas Lund, Julian Soós, Boris Hamsch, Andreas Zimmer, Karl Broich, Marco Weiergäbe, Bonn
- T11-9B** EXPERIMENTAL PACLITAXEL-INDUCED PERIPHERAL NEUROPATHY
Olga Gevka, Nataliia Luchkiv, Olena Deltsova, Sergii Gerashchenko, Mykola Ostrovskiy, Ivano-Frankivsk, Ukraine
- T11-10B** FUNCTIONAL IMPAIRMENT OF CORTICAL ASTROCYTES IN ALS-TRANSGENIC MICE
Maximilian Bauer, Melisa Suljkanovic, Sabine Liebscher, Martinsried
- T11-11B** INHIBITION OF GABA A RECEPTOR IMPROVED SPECIAL MEMORY IMPAIRMENT IN THE LOCAL MODEL OF DEMYELINATION IN RAT HIPPOCAMPUS
Forough Ebrahim Tabar, Alireza Mousavi Mousavi, Arghavan Afghani, Sahand Ashraf Pour, Mohammad Gol, Fereshteh Pourabdolhossein, Babol, Iran
- T11-12B** GRAPH PROPERTIES OF THE FUNCTIONAL CONNECTED BRAIN UNDER THE INFLUENCE OF ALZHEIMER'S DISEASE
Claudia Bachmann, Heidi Jacobs, Kim Dillen, Simone Buttler, Gereon R. Fink, Juraj Kukulja, Abigail Morrison, Juelich
- T11-13B** IMPAIRED SYNAPTIC PLASTICITY AND INCREASED HYPEREXCITABILITY IN A MOUSE MODEL OF ALZHEIMER'S DISEASE
Eva Harde, Karsten Wicke, Maria Vasileva, Ludwigshafen
- T11-14B** INTRACELLULAR CA²⁺ STORES AFFECT CORTICAL VISUAL PROCESSING IN A MOUSE MODEL OF ALZHEIMER'S DISEASE
Nithi Asavapanumas, Bianca Brawek, Olga Garaschuk, Tübingen

- T11-15B** INTRACELLULAR TRANSPORT STEPS INVOLVED IN DEGRADATION OF α -SYNUCLEIN AGGREGATES
Anna Maria Hilverling, Björn Falkenburger, Aachen
- T11-16B** THE ROLE OF CELLULAR PRION PROTEIN IN ALZHEIMER'S DISEASE
Ângela Patricia Silva Correia, Tobias Thom, Matthias Schmitz, Inga Zerr, Göttingen

Friday

- T11-1C** INVESTIGATION OF SLEEP ARCHITECTURE OF G72/G30 TRANSGENIC MOUSE MODEL OF SCHIZOPHRENIA
Julien Soós, Anna Papazoglou, Andreas Lundt, Maheshwar Bakki, Andreas Zimmer, Karl Broich, Marco Weiergräber, Bonn
- T11-2C** IPSC DERIVED NEURONS AS A HUMAN MODEL TO STUDY ALTERED AMPA RECEPTOR FUNCTION IN NIEMANN-PICK TYPE C1
Michael Rabenstein, Franziska Peter, Arndt Rolfs, Moritz J. Frech, Rostock
- T11-3C** LIPID MICRODOMAIN MODIFICATION SUSTAINS NEURONAL VIABILITY IN MODELS OF ALZHEIMER FS DISEASE
Silke Herzer, Sascha Meldner, Hermann-Josef Groene, Viola Nordstroem, Heidelberg
- T11-4C** LIVE-IMAGING OF CALCIUM-INDUCED AXONAL DEGENERATION IN TRANSGENIC MOUSE MODELS OF PARKINSON'S DISEASE
Julius Christian Steenken, Alexander Böcker, Mathias Bähr, Paul Lingor, Jan Koch, Göttingen
- T11-5C** LOSS OF TUBULIN-ALPHA-4A POLYGLUTAMYLATION IN MICE
Torben Johann Hausrat, Petra Breiden, Sabine Hoffmeister-Ullerich, Louisa Rathgeber, Irm Hermans-Borgmeyer, Matthias Kneussel, Hamburg
- T11-6C** LOWER AFFINITY OF ISRADIPINE FOR L-TYPE Ca^{2+} CHANNELS DURING SUBSTANTIA NIGRA DOPAMINE NEURON-LIKE ACTIVITY: IMPLICATIONS FOR NEUROPROTECTION IN PARKINSON'S DISEASE
Nadine Jasmin Ortner, Gabriella Bock, Antonios Dougalis, Maria Kharitonova, Johanna Duda, Petronel Tuluc, Thomas Pomberger, Nadia Stefanova, Florian Pitterl, Thomas Ciossek, Herbert Oberacher, Henning J. Draheim, Birgit Liss, Jörg Striessnig, Innsbruck, Austria
- T11-7C** MODELING OF EEG TIME-SERIES BY CONDITIONAL PROBABILITY ECHO STATE NETWORKS
Hannes Rapp, Martin Paul Nawrot, Moritz Deger, Cologne
- T11-8C** MORPHOLOGICAL ALTERATIONS OF CEREBELLAR CELLS IN ENGRAILED-2 TRANSGENIC MICE: A QUICK GOLGI STUDY
Nicoletta Czechowska, Jakob Jankowski, Christian Liebig, Michael Hofmann, Stephan L. Baader, Bonn



- T11-9C** MORPHOLOGICAL AND MOLECULAR CHANGES IN MOSSY FIBER – CA2 CONNECTIVITY IN EPILEPSY
Midori Johnston, Philipp Janz, Carola A. Haas, Ute Häussler, Freiburg
- T11-10C** NEUROCHEMICAL EFFECT OF VITAMINS C, E AND DMSO COMBINATIONS ON THE OXIDATIVE STRESS BIOMARKERS AND SEVERITY OF ISCHEMIC STROKE IN ALBINO RATS
Nasiru Suleiman, Lawal Suleman Bilbis, Yusuf Saidu, Abdullahi Yahaya Abbas, Salisu Abdullahi Balarabe, Abdullahi Abubakar Ngaski, Salisu Buhari, Bulama Ibrahim, Aishat Ibrahim Danmalle, Sokoto, Nigeria
- T11-11C** NEUROETHOLOGICAL AND HISTOLOGICAL EVIDENCE FOR HEREDITARY SPASTIC PARAPLEGIA IN ZEBRAFISH
Selina André, Ralf Heinrich, Roland Dosch, Bart R. H. Geurten, Göttingen
- T11-12C** NON-CANONICAL ROLE OF AUTOPHAGY IN NEURO-TROPHIN SIGNALLING AND AXONAL HOMEOSTASIS
Natalia L. Kononenko, Albert Negrete, Sujoy Bera, Cologne
- T11-13C** NON-INVASIVE IMAGING OF EARLY TISSUE DAMAGE AND SUBSEQUENT MICROSTRUCTURAL REORGANIZATION PREDICTS THE SEVERITY OF HIPPOCAMPAL SCLEROSIS IN MESIAL TEMPORAL LOBE EPILEPSY
Philipp Janz, Niels Schwaderlapp, Katharina Heining, Ute Häussler, Jan Korvink, Dominik von Elverfeldt, Jürgen Hennig, Ulrich Ebert, Pierre LeVan, Carola A. Haas, Freiburg
- T11-14C** OVEREXPRESSION OF RAAV-MEDIATED HUMAN ALPHA SYNUCLEIN IN THE LOCUS COERULEUS (LC) LEADS TO A NEURONAL LOSS IN THE NUCLEUS AMBIGUUS: A NOVEL FOCAL MOUSE MODEL FOR PRODROMAL PARKINSON'S DISEASE?
Bolam Lee, Martin Henrich, Wei-Hua Chiu, Lina A. Matschke, Wolfgang H. Oertel, Marburg
- T11-15C** QUANTIFICATION OF INTRACELLULAR PROTEIN LEVELS IN CATIONIC LIPID-MEDIATED SIRNA TRANSFECTED PRIMARY NEURONS
Lenka Hromadkova, Birgitta Wiehager, Susanne Frykman, Lars Tjernberg, Sophia Schedin-Weiss, Klecany, Czech Republic

Saturday

- T11-1D** RESCUE OF GLIOSIS IN NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC IPSC DERIVED GLIA CELLS
Franziska Peter, Michael Rabenstein, Arndt Rolfs, Moritz J. Frech, Rostock

- T11-2D** REVERSAL OF PATHOLOGIC LIPID ACCUMULATION IN NPC1-DEFICIENT NEURONS BY DRUG-PROMOTED EXOCYTOTIC RELEASE OF LAMP1-COATED LAMELLAR INCLUSIONS
Frank W. Pfrieger, Valerie Demais, Amelie Barthelemy, Martine Perraut, Nicole Ungerer, Celine Keime, Sophie Reibel, Strasbourg, France
- T11-3D** ROLE OF ULK1 IN AXONAL DEGENERATION AND REGENERATION IN CORTICAL NEURONS *IN VITRO*
Björn Friedhelm Vahsen, Vinicius de Toledo Ribas, Christof Lenz, Uwe Michel, Henning Urlaub, Mathias Bähr, Paul Lingor, Göttingen
- T11-4D** PERFORMING DEEP BRAIN STIMULATION AND NEURAL RECORDINGS AT THE SAME TARGET FROM AWAKE ANIMALS: A NEW BIDIRECTIONAL WIRELESS DEVICE
Liana Melo-Thomas, Alexander Engelhardt, Uwe Thomas, Dirk Hoehl, Frank Bremmer, Rainer Schwarting, Marburg
- T11-5D** SK CHANNELS PROTECT LOCUS COERULEUS NEURONS FROM ROTENONE INDUCED TOXICITY: A NEW TARGET TO TREAT PREMOTOR PARKINSON'S DISEASE
Lina Anita Matschke, Susanne Rinné, Wei-Hua Chiu, Martin Henrich, Carsten Culmsee, Wolfgang H. Oertel, Amalia M. Dolga, Niels Decher, Marburg
- T11-6D** SOURCE LOCALIZATION BASED ON MULTI-ELECTRODE LOCAL FIELD POTENTIALS
Robin Pauli, Abigail Morrison, Tom Tetzleff, Juelich
- T11-7D** SPATIAL MEMORY IMPAIRMENT AND HIPPOCAMPAL CELL LOSS INDUCED BY OKADAIC ACID
Mariam Chighladze, Khatuna Rusadze, Tbilisi, Georgia
- T11-8D** RETRACTED
- T11-9D** TARGETED OVEREXPRESSION OF A53T- α -SYNUCLEIN INDUCES PROGRESSIVE NEURODEGENERATION AND ELECTROPHYSIOLOGICAL CHANGES OF NORADRENERGIC LOCUS COERULEUS NEURONS – A PRECLINICAL MODEL OF PARKINSON'S DISEASE
Martin Timo Henrich, Lina Anita Matschke, Annette Stoehr, Wei-Hua Chiu, Bolam Lee, Fanni Fruzsina Geibl, James Koprach, Niels Decher, Wolfgang Hermann Oertel, Marburg
- T11-10D** THE EFFECT OF CEREBRAL ISCHEMIA-REPERFUSION INJURY TO THE METHYLATION OF DNA IN HOMOCYSTEINE-TREATED RATS
Barbara Tóthová, Mária Kovalská, Dagmar Kalenská, Ján Lehotský, Martin, Slovakia
- T11-11D** THE INFERIOR COLLICULUS: AN ALTERNATIVE STRUCTURE FOR DEEP BRAIN STIMULATION IN PARKINSON'S DISEASE?
Karl-Alexander Engelhardt, Rainer K. W. Schwarting, Liana Melo-Thomas, Marburg



- T11-12D** IMPAIRED GLUCOSE METABOLISM IN THE BRAIN DEPENDS ON THE NATURE OF THE ACTIVATION AND DAMAGE OF ASTROGLIAL CELLS AND DYSREGULATED NEUROGENESIS
Yulia Komleva, Yana Gorina, Olga Lopatina, Anatoly Chernykh, Alla Salmina, Krasnoyarsk, Russia
- T11-13D** TREATMENT WITH PROBIOTICS, THIAMINE AND MELATONIN AMELIORATES ALUMINUM-INDUCED NEUROTOXICITY IN RATS
Dmitrii Pavlov, Anna Gorlova, Eugenu Zubkov, Anna Morozova, Tatyana Cherdyntseva, Olga Karpuchina, Anatoly Inozemtsev, Tatyana Strekalova, Vladimir Chekhonin, Moscow, Russia
- T11-14D** TRIAL-BY-TRIAL VARIABILITY: A NEW MARKER FOR VISUAL HALLUCINATIONS IN PARKINSON'S DISEASE?
Kristina Miloserdov, Carsten Schmidt-Samoa, Holger Sennhenn-Reulen, Christiane Weinrich, Claudia Trenkwalder, Kathrin Bürk, Mathias Bähr, Melanie Wilke, Goettingen
- T11-15D** X- RAY DIFFRACTION AND X-RAY FLUORESCENC ON PARKINSON'S DISEASE SUBSTANTIA NIGRA
Eleonora Carboni, Jan-David Nicolas, Tim Salditt, Paul Lingor, Göttingen

T12: Neuroimmunology, inflammation and neuroprotection

Wednesday

- T12-1A** ADOLESCENT MOUSE OFFSPRING SHOW MICROGLIAL CHANGES AFTER PRENATAL IMMUNE ACTIVATION IN AN ANIMAL MODEL OF SCHIZOPHRENIA
Manuela Eßlinger, Marie-Piere Manitz, Simone Wachholz, Jennifer Plümper, Georg Juckel, Astrid Friebe, Bochum
- T12-2A** ALTERED ION CURRENTS IN CEREBELLAR GRANULE CELLS IN AN IN VITRO MODEL OF NEURONAL INJURY
Lubica Lacinova, Katarina Ondacova, Dana Jurkovicova, Bratislava, Slovakia
- T12-3A** BIOMARKER SCREENING BY AN IMPROVED IMMUNO-BLOTTING TECHNIQUE: TARGETING AUTOANTIBODIES OF A PERIPHERAL NEUROPATHY
Christian Peter Moritz, Juliette Svahn, Evelyne Federspiel, Jean-Philippe Camdessanché, Jean-Christophe Antoine, Saint-Priest-en-Jarez, France
- T12-4A** CHRONIC NEUROINFLAMMATION INDUCED BY INFLUENZA A VIRUS INFECTION AND THE ROLE FOR HIPPOCAMPAL NEURON MORPHOLOGY AND FUNCTION
Shirin Hosseini, Kristin Michaelsen-Preusse, Esther Wilk, Klaus Schughart, Martin Korte, Braunschweig

- T12-5A** DIFFERENTIAL INTERACTION PATTERNS OF ANTISERA TO NEISSERIA GONORRHOEAE AND MENINGITIDIS AND CHLAMYDIA TRACHOMATIS WITH A HUMAN FIRST TRIMESTER FETAL BRAIN MULTIPROTEIN ARRAY
Abdullah Almamy, Christian Schwerk, Horst Schroten, Hiroshi Ishikawa, Abdul Rahman Asif, Bernhard Reuss, Göttingen
- T12-6A** ECTO-5'-NUCLEOTIDASE MEDIATES MIGRATION OF RAT CORTICAL ASTROCYTES IN SCRATCH WOUND ASSAY IN VITRO
Marija Adzic, Nadezda Nedeljkovic, Belgrade, Serbia Montenegro
- T12-7A** EFFECT OF MICROGLIA DEPLETION ON NEURONAL SURVIVAL AND AXON REGENERATION
Alexander Hilla, Dietmar Fischer, Düsseldorf
- T12-8A** CROSS-TALK BETWEEN MITOCHONDRIAL PERMEABILITY TRANSITION AND K_{ATP} ION CHANNELS IN MEDIATING NEUROPROTECTION
Suhel Parvez, Mohd. Waseem, Heena Tabassum, New Delhi, India
- T12-9A** SPINAL VERSUS BRAIN MICROGLIAL AND MACROPHAGE ACTIVATION TRAITS DETERMINE THE DIFFERENTIAL NEUROINFLAMMATORY RESPONSES AND ANALGESIC EFFECT OF MINOCYCLINE IN CHRONIC NEUROPATHIC PAIN
Li Tian, Zhilin Li, Hong Wei, Sami Piirainen, Antti Pertovaara, Helsinki, Finland

Thursday

- T12-1B** EFFECTS OF NYMPHAEA LOTUS LINN ON STRUCTURE OF HIPPOCAMPAL NEURONS OF RATS IN CHRONIC STRESS
Kameni Poumeni Mireille, Dzeufiet Djomeni Paul Désiré, Bilanda Claude Danielle, Mengue Ngadena Yolande Sandrine, Ngoungoure Madeleine Chantal, Mbolang Nguegan Lohik, Tchoupou Tchinda Hugnette, Femoe Membe Ulrich, Kamtchouing Pierre, Yaounde, Cameroon
- T12-2B** ENGINEERED HNCSS FOR TARGETING SPINAL CORD GLIOMAS: A NEUROBIOLOGY-BASED THERAPEUTIC APPROACH
Yang D. Teng, Boston, USA
- T12-3B** ERBB2 INHIBITION AS A NOVEL TREATMENT OPTION FOR TRAUMATIC BRAIN INJURY
Akila Chandrasekar, Florian olde Heuvel, Komali Valishetti, Albert C. Ludolph, Tobias M. Böckers, Markus Huber-Lang, Francesco Roselli, Ulm
- T12-4B** ERYTHROPOIETIN DAMPENS INJURY-INDUCED MICROGLIAL ACTIVITY
Liane Wüstefeld, Hana Janova, Miso Mitkovski, Hong Pan, Umer Javed Butt, Debia Wakhloo, Klaus-Armin Nave, Hannelore Ehrenreich, Göttingen



- T12-5B** EXPRESSION OF CD73, CD39 AND CD39L1 IN THE LUMBAR SPINAL CORD DURING THE COURSE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS
Nadezda Nedeljkovic, Danijela Laketa, Marija Jovanovic, Ivana Bjelobaba, Irena Lavrnja, Belgrade, Serbia Montenegro
- T12-6B** EXPRESSION OF NKG2D LIGANDS IN GLIOMA STEM CELLS IN SITU AND IN VITRO
Charlotte Flüh, Vivian Adamski, Kirsten Hattermann, Guranda Chitadze, Michael Synowitz, Dieter Kabelitz, Janka Held-Feindt, Kiel
- T12-7B** FERRITIN IN MICROGLIA
Melanie Schürz, Nikolaus Bresgen, Clara Lipfert, Karin Oberascher, Hubert Kerschbaum, Salzburg, Austria
- T12-8B** GENETIC ABLATION OF CB2 RECEPTORS ENHANCES NEUROPATHIC PAIN DEVELOPMENT VIA BOOSTED LEPTIN SIGNALING IN PERIPHERAL NERVES
Chihiro Nozaki, Elisa Nent, Astrid Markert, Andreas Zimmer, Bonn

Friday

- T12-1C** IMMUNIZATION WITH S100 LEADS TO INCREASED COMPLEMENT ACTIVATION IN AN EXPERIMENTAL AUTOIMMUNE GLAUCOMA MODEL
Sabrina Reinehr, Marcel Gandej, Jacqueline Reinhard, Gesa Stute, H. Burkhard Dick, Andreas Faissner, Stephanie C. Joachim, Bochum
- T12-2C** INFLUENCE OF ACID SPHINGOMYELINASE DEFICIENCY ON BRAIN DAMAGE AFTER MILD FOCAL ISCHEMIA IN MICE
Ayan Mohamud Yusuf, Nina Hagemann, Carlotta Martiny, Erich Gulbins, Richard Kolesnick, Dirk M. Hermann, Essen
- T12-3C** MICROGLIA ACTIVATION IN THE INTERFERON- α MOUSE MODEL OF DEPRESSION
Alexandra Knorr, Simone Wachholz, Georg Juckel, Astrid Friebe, Bochum
- T12-4C** MOLECULAR PATHOPHYSIOLOGY OF HUMAN ANTI-GLUTAMATE RECEPTOR 2 AUTOANTIBODIES ON AMPA-RECEPTOR MEDIATED SYNAPTIC TRANSMISSION
Christian Geis, Holger Haselmann, Christian Werner, Benedikt Grünewald, Sören Doose, Stefan Haller, Jena
- T12-5C** NO/CGMP SIGNALING VIA GUANYLYL CYCLASE ISOFORM 1 (NO-GC1) AFFECTS NEURONAL NETWORKS AND BLOOD-BRAIN BARRIER INTEGRITY AFTER TRAUMATIC BRAIN INJURY IN SOMATOSENSORY CORTEX OF MICE
Qi Wang, Evanthia Mergia, Doris Koesling, Thomas Mittmann, Mainz
- T12-6C** OCCURRENCE OF TAU-REACTIVE ANTIBODIES IN PLASMA OF COGNITIVELY NORMAL INDIVIDUALS
Michala Kolarova, Lenka Hromadkova, Zuzana Bilkova, Ales Bartos, Urmi Sengupta, Rakez Kayed, Jan Ricny, Klecany, Czech Republic

T12-7C PROGRANULIN PROTECTS AGAINST EXAGGERATED SECONDARY CONSEQUENCES OF EXPERIMENTAL TRAUMATIC BRAIN INJURY IN MICE
Regina Hummel, Lutz Menzel, Lisa Kleber, Carina Friedrich, Larissa Dangel, Katja Schmitz, Irmgard Tegeder, Michael K. E. Schaefer, Mainz

T12-8C ATORVASTATIN MITIGATES NEUROINFLAMMATION THROUGH DOWNREGULATING CYTOKINE AND NF- κ B ACTIVITY IN PTZ-KINDLED MICE
Nouroz Sehar, Sheikh Raisuddin, Nidhi B. Agarwal, New Delhi, India

Saturday

T12-1D PROTEOME PROFILE OF IL-17 AND IL-18 IN BLOOD SERUM, CEREBROSPINAL FLUID AND CONDITIONED MEDIA OF BM-MSC CULTURE OF ALS PATIENTS A
Joanna Magdalena Czarzasta, Mariusz Dziekonski, Anna Tutas, Joanna Wojtkiewicz, Wojciech Maksymowicz, Olsztyn, Poland

T12-2D REGULATION OF NOD-LIKE RECEPTORS AND INFLAMMASOME ACTIVATION IN CEREBRAL ENDOTHELIAL CELLS
István A. Krizbai, Mihály Kozma, Kinga Molnár, Csilla Fazakas, Attila E. Farkas, János Haskó, Imola Wilhelm, Péter Nagyoszi, Ádám Nyúl-Tóth, Szeged, Hungary

T12-3D REMOVED PERINEURONAL NETS AND DAMAGED, BUT PERSISTING GABAERGIC NEURONS IN THE ISCHAEMIA-AFFECTED NUCLEUS RETICULARIS THALAMI OF WILDTYPE AND 3XTG MICE
Wolfgang Härtig, Simon Appel, Anne Suttkus, Jens Grosche, Dominik Michalski, Leipzig

T12-4D ROLE OF DOPAMINE AGONISTS IN MITOCHONDRIAL DYSFUNCTION MEDIATED FOCAL CEREBRAL ISCHEMIA IN RODENTS
Heena Tabassum, Syed Suhail Andrabi, Suhel Parvez, New Delhi, India

T12-5D ROLE OF GLIAL NF- κ B SIGNALLING IN IL-1 β MEDIATED CENTRAL EFFECTS
Mareike Bernau, Helge Müller-Fielitz, Markus Schwaninger, Lübeck

T12-6D ROLE OF THE ANTI-INFLAMMATORY CYTOKINE IL-37 IN THE BRAIN
Niklas Lonnemann, Gayane Grigoryan, Charles A. Dinarello, Martin Korte, Andreas Holz, Braunschweig

T12-7D THE COMPARISON OF GLUCOSE, LIPID AND NITRIC OXIDE METABOLISM PARAMETERS BETWEEN SCHIZOPHRENIC PATIENTS WITH METABOLIC SYNDROME AND INTERNAL MEDICINE PATIENTS WITH METABOLIC SYNDROME
Nikolai Fattakhov, Ludmila Smirnova, Daria Parshukova, Daria Skuratovskaia, Larisa Litvinova, Arkadiy Semke, Svetlana Ivanova, Tomsk, Russia



- T12-8D** THE ORPHAN CYTOKINE RECEPTOR CRLF3 IS INVOLVED IN ERYTHROPOIETIN INDUCED NEUROPROTECTION IN TRIBOLIUM CASTANEUM
Nina Hahn, Debra Y. Knorr, Johannes Liebig, Liane Wüstefeld, Marita Büscher, Gregor Bucher, Hannelore Ehrenreich, Ralf Heinrich, Goettingen

T13: Cognitive, emotional, behavioral state disorders and addiction

Wednesday

- T13-1A** ANXIETY-RELATED BEHAVIOR IN CRE-MEDIATED INDUCIBLE TPH2 KNOCKOUT (ICKO) MICE
Benjamin Aboagye, Tillmann Weber, Dusan Bartsch, Klaus-Peter Lesch, Jonas Waider, Wuerzburg
- T13-2A** BEHAVIOR OF DOMINANT AND SUBMISSIVE RATS IN THE CHRONIC INFORMATIONAL STRESS AND DEPRESSION MODEL
Tamar Matitaishvili, Tamar Domianidze, George Burdjanadze, Tbilisi, Georgia
- T13-3A** BEHAVIOURAL, MOLECULAR AND METABOLIC CONSEQUENCES OF CHOLESTEROL-ENRICHED DIET AND AMELIORATING EFFECT OF DICHOLINE SUCCINATE
Ekaterina Veniaminova, Elena Shevtsova, Nataliia Markova, Anna Gorlova, Dmitrii Pavlov, Anna Morozova, Vladimir Chekhonin, Klaus-Peter Lesch, Daniel Anthony, Tatyana Strekalova, Moscow, Russia
- T13-4A** BIPOLAR DISORDER: NEUROBIOLOGICAL MECHANISMS IN A VIRUS-INDUCED ANIMAL MODEL
Dominik K. E. Beyer, Nadja Freund, Tübingen
- T13-5A** BOTH, EARLY PHASE AND LATER PHASE OF LIFE AFFECT NEURONAL MORPHOLOGY IN SEROTONIN TRANSPORTER DEFICIENT MICE
Angelika G. Schmitt-Boehrer, Anna Kreis, Jann F. Kolter, Sandy Popp, Carina Bodden, Norbert Sachser, Esther Asan, Klaus-Peter Lesch, Wuerzburg
- T13-6A** CACNA1C HAPLOINSUFFICIENCY LEADS TO A DEVELOPMENTAL DELAY IN THE EMISSION OF ISOLATION-INDUCED ULTRASONIC VOCALIZATIONS IN RAT PUPS
Rukhshona Kayumova, Theresa M. Kisko, Moria D. Braun, Christine Hohmeyer, Marcella Rietschel, Stephanie H. Witt, Rainer K.W. Schwarting, Markus Wöhr, Marburg
- T13-7A** EFFECT OF LITHIUM IN THE GLUTAMINE SYNTHETASE (GS)-REPORTER MOUSE
Charlotte Mezö, Dominik K.E. Beyer, Andreas Fallgatter, Michael Schwarz, Nadja Freund, Tübingen

- T13-8A** EMOTIONAL REGULATION AND SOCIAL BEHAVIOR: EFFECTS OF OXYTOCIN
Olga Lopatina, Yulia K. Komleva, Yana V. Gorina, Anna A. Shabalova, Alla B. Salmina, Krasnoyarsk, Russia
- T13-9A** EFFECTS OF SHORT-TERM NEONATAL HYPERTHERMIA IN KRUSHINSKY-MOLODKINA AUDIOGENIC SEIZURE PRONE RAT STRAIN
Irina Fedotova, Natalya Surina, Georgy Nikolaev, Zoya Kostina, Inga Poletaeva, Moscow, Russia

Thursday

- T13-1B** EFFECTS OF CB1 RECEPTORS IN THE VENTRAL TEGMENTAL AREA ON THE POTENTIATION OF MORPHINE REWARDING PROPERTIES
Leila Zarepour, Tehran, Iran
- T13-2B** EFFECTS OF SELECTIVE DELETION OF THE GAMMA 2 SUBUNIT OF GABAA RECEPTOR ON THE NEURONAL ACTIVITY OF DOPAMINERGIC CELLS
Aleksandra Trenk, Magdalena Walczak, David Engblom, Tomasz Blasiak, Cracow, Poland
- T13-4B** FUNCTIONAL NETWORK DIFFERENCES BETWEEN THE ADHD AND NORMAL GROUPS
Reza Khanbabaie, Masood Nemati Andavari, Ali Asgharnia, Mina Asadifar, Amirhossein Ghaderi, Mohamadali Nazari, Babol, Iran
- T13-5B** HAPLOINSUFFICIENT CACNA1C RATS DISPLAY INCREASED ANXIETY-RELATED BEHAVIOR, IMPAIRED SENSORIMOTOR GATING, AND ALTERATIONS IN INFLAMMATORY MARKERS
Moria Dening Braun, Theresa M. Kisko, Clara Raitzel, Tobias M. Redecker, Christine Hohmeyer, Marcella Rietschel, Stephanie Witt, Rainer K. W. Schwarting, Holger Garn, Markus Wöhr, Marburg
- T13-6B** HIPPOCAMPAL DISRUPTION OF NOS-1 PDZ-INTERACTION: EFFECTS ON LEARNING AND MEMORY
Florian Freudenberg, Esin Candemir, Aet O`Leary, Lena Grünwald, Miriam Schneider, Andreas Reif, Frankfurt/Main
- T13-7B** KNOCKDOWN OF THE ADHD CANDIDATE GENE DIRAS2 IN MURINE NEURONAL PRIMARY CELLS
Lena Grünwald, Florian Freudenberg, Christoph Scharner, Heike Weber, Claus-Jürgen Scholz, Andreas Reif, Frankfurt/Main
- T13-8B** MORC1, A GENE ASSOCIATED WITH EARLY LIFE-STRESS AND DEPRESSION - A STUDY IN THE RODENT BRAIN
Annakarina Mundorf, Nadja Freund, Bochum

Friday

- T13-1C** NEUROPEPTIDE S RECEPTOR-DEFICIENT MICE ARE MORE PRONE TO DEVELOP PTSD-LIKE FEAR MEMORY AFTER CORTICOSTERONE INJECTIONS
Malgorzata Helena Kolodziejczyk, Markus Fendt, Magdeburg



- T13-2C** PERIAQUEDUCTAL GRAY/ DORSAL RAPHE DOPAMINE NEURONS CONTROL ASSOCIATIVE LEARNING OF FEAR
Florian Grössl, Thomas Munsch, Susanne Meis, Johannes Griessner, Pinelopi Pliota, Dominic Kargl, Sylvia Badurek, Klaus Kraitsy, Arash Rassoulpour, Volkmar Lessmann, Wulf Haubensak, Vienna, Austria
- T13-3C** POST-WEANING SOCIAL ISOLATION RESULTS IN ULTRASONIC COMMUNICATION DEFICITS, COGNITIVE IMPAIRMENTS AND ALTERATIONS IN MICRORNA-DEPENDENT UBE3A1 FUNCTION ON NEURONAL PLASTICITY IN RODENTS: IMPLICATIONS FOR AUTISM
Dominik Seffer, Henrike Rippberger, Jeremy Valluy, Silvia Bicker, Ayla Aksoy-Aksel, Martin Lackinger, Simon Sumer, Roberto Fiore, Tatjana Wüst, Franziska Mettge, Christoph Dieterich, Gerhard Schratt, Rainer K. W. Schwarting, Markus Wöhr, Marburg
- T13-4C** RETRACTED
- T13-5C** RETRACTED
- T13-6C** SELF-REGULATORY BEHAVIOR OF RATS BEING ON DIFFERENT HIERARCHICAL LEVEL IN CHRONIC PSYCHOGENIC STRESS MODEL
Tamar Domianidze, Tamar Matitaishvili, George Burdjanadze, Mikheil Khananashvili, Tbilisi, Georgia
- T13-7C** SEROTONIN TRANSPORTER DEPENDENT ACTIVATION OF THE AMYGDALA AFTER NEGATIVE STIMULI: A FMRI STUDY IN 5-HTT KNOCKOUT MICE
Jann Frederik Kolter, Markus F. Hildenbrand, Stephan Nauroth, Julian Bankmann, Klaus-Peter Lesch, Peter M. Jakob, Angelika G. Schmitt-Böhrer, Würzburg
- T13-8C** SEX-DEPENDENT EFFECTS OF CACNA1C HAPLOINSUFFICIENCY ON JUVENILE SOCIAL PLAY BEHAVIOR AND 50-KHZ ULTRASONIC VOCALIZATIONS IN RATS
Theresa Marie Kisko, Moria D Braun, M Bartz, A Pützer, C. Hohmeyer, M. Rietschel, S. H. Witt, Rainer K. W. Schwarting, Markus Wöhr, Marburg

Saturday

- T13-1D** SOCIAL IMPAIRMENTS, OLFACTORY DYSFUNCTION, AND INATTENTION IN NEURONAL NITRIC OXIDE SYNTHASE (NOS1) KNOCKDOWN MICE
Aet O`Leary, Florian Freudenberg, Esin Candemir, Lena Grünewald, Andreas Reif, Frankfurt/Main
- T13-2D** STRESS-INDUCED AGGRESSION IN MICE AND EVIDENCE FOR PREVENTIVE EFFECTS OF DRUGS WITH PRO-NEUROGENETIC ACTIVITY
Nataliia Bazhenova, Jonas Waider, Dolores Bonopartes, Ekaterina Veniaminova, Nataliia Markova, Joao Costa-Nunes, Evgeniy Zubkov, Anna Gorlova, Dmitii Pavlov, Anna Morozova, Klaus-Peter Lesch, Tatyana Strelakova, Moscow, Russia

- T13-3D** SUSTAINED EFFECT OF KETAMINE IS MEDIATED BY HOMEOSTATIC REGULATION OF SYNAPTIC FUNCTION AND RECONFIGURATION OF GENE EXPRESSION
Debarpan Guhathakurta, Santosh Pothula, Anna Fejtova, Erlangen
- T13-4D** THE EFFECT OF ARSENIC EXPOSURE ON LEARNING AND MEMORY IN RATS OF VARIOUS AGE GROUPS
Tamar Bikashvili, Tamar Lordkipanidze, Nana Gogichaishvili, Nino Pochkhidze, Tbilisi, Georgia
- T13-5D** THE REGULATORY ROLE OF TRACE AMINE-ASSOCIATED RECEPTOR 1 IN ACUTE AND CHRONIC EFFECTS OF NICOTINE
Mariia Dorofeikova, Antonina Dolgorukova, Artem Dorotenko, Raul R. Gainetdinov, Ilya Sukhanov, Saint-Petersburg, Russia
- T13-6D** TIME-DEPENDENT MODULATION OF VISUAL MOTION PREDICTION IN HUMANS
Motoharu Takao, Hiratsuka, Japan
- T13-7D** TRACE AMINE-ASSOCIATED RECEPTOR 1 AGONIST ATTENUATES ADJUNCTIVE WATER DRINKING IN RAT MODEL OF COMPULSIVE BEHAVIOR
Artem Dorotenko, Antonina Dolgorukova, Raul R. Gainetdinov, Ilya Sukhanov, Saint Petersburg, Russia
- T13-8D** FIRST REPORT OF INTERESTING AWAKE CRANIOTOMY OF A FAMOUS MUSICIAN IN HISTORY; THE SUPRASELLAR TUMOR SURGERY OF PIANIST CLARA HASKIL IN 1942 WITHOUT GENERAL ANAESTHESIA
Elena Romana Gasenzer, Ayhan Kanat, Edmund A. M. Neugebauer, Cologne

T14: Vision: invertebrates

Wednesday

- T14-1A** AGE-RELATED AND LIGHT-INDUCED SYNAPTIC PLASTICITY IN THE MUSHROOM-BODY CALYX OF THE BUFF-TAILED BUMBLEBEE *BOMBUS TERRESTRIS*
Nadine Kraft, Johannes Spaethe, Wolfgang Rössler, Claudia Groh, Würzburg
- T14-2A** COLOUR OPPONENT PARALLEL PATHWAYS ORIGINATE IN *DROSOPHILA* PHOTORECEPTOR TERMINALS
Christopher Schnaitmann, Väinö Haikala, Eva Abraham, Vitus Oberhauser, Thomas Thestrup, Oliver Griesbeck, Dierk F. Reiff, Freiburg
- T14-3A** GABAERGIC SIGNALING SHAPES MOTION DETECTING CIRCUITS IN *DROSOPHILA*
Teresa Magdalena Lueffe, Luis Ramos Traslosheros, Yvette Fisher, Marion Silies, Goettingen



Thursday

- T14-1B** INTEGRATION OF POLARIZED AND CHROMATIC SKY-COMPASS CUES IN THE CENTRAL COMPLEX OF THE DESERT LOCUST
Uta Pegel, Keram Pfeiffer, Uwe Homberg, Marburg
- T14-2B** LIGHT INTENSITY CAN OVERRIDE WAVELENGTH AS AN ORIENTATION CUE DURING HONEYBEE WAGGLE DANCES
Niklas Kühn, Keram Pfeiffer, Marburg
- T14-3B** RECEPTIVE FIELD ORGANIZATION OF NEURONS REQUIRED FOR MOTION DETECTION IN THE DROSOPHILA VISUAL SYSTEM
Luis Giordano Ramos Traslósheros López, Sebastian Mauricio Molinda Obando, Marion Silies, Göttingen
- T14-4B** RECEPTIVE FIELDS OF POLARIZATION-SENSITIVE NEURONS OF THE CENTRAL COMPLEX IN THE DESERT LOCUST
Frederick Zittrell, Keram Pfeiffer, Uwe Homberg, Marburg

Friday

- T14-1C** RESPONSE PROPERTIES OF FIRST-ORDER INTERNEURONS IN THE FLY VISUAL SYSTEM
Katja Sporar, Teresa Magdalena Lueffe, Burak Gür, Marion Silies, Göttingen
- T14-2C** RHODOPSIN 7 (RH7) IS CRUCIAL FOR FINE-TUNING LIGHT SENSITIVITY IN DROSOPHILA MELANOGASTER
Pingkalai R. Senthilan, Rudi Grebler, Christa Kistenpfennig, Matthias Schlichting, Christiane Hermann-Luibl, Joachim Bentrop, Stephan Schneuwly, Charlotte Helfrich-Förster, Kitzingen
- T14-3C** SACCADIC STRATEGY IN WALKING DROSOPHILA MELANOGASTER
Kristina Corthals, Martin C. Göpfert, Bart R. H. Geurten, Göttingen
- T14-4C** STUDYING THE HETEROCHRONY OF CENTRAL COMPLEX DEVELOPMENT
Max Stephen Farnworth, Marita Buescher, Nikolaus Dieter Bernhard Koniszewski, Gregor Bucher, Göttingen

Saturday

- T14-1D** SYSTEMATIC IDENTIFICATION OF OCELLAR GANGLION INTERNEURONS AND THEIR PROJECTIONS IN THE BRAIN OF DROSOPHILA MELANOGASTER
Jens Goldammer, Gerald M. Rubin, Kei Ito, Ashburn, USA
- T14-2D** TEMPORAL DYNAMICS OF E-VECTOR RESPONSES OF CL1 NEURONS OF THE DESERT LOCUST SCHISTOCERCA GREGARIA
Ronja Hensgen, Keram Pfeiffer, Uwe Homberg, Marburg
- T14-3D** THE DISTANCE CODE IN HONEYBEE WAGGLE DANCE
Randolf Menzel, Berlin

T15: Vision: retina and subcortical pathways

Wednesday

- T15-1A** A POSSIBLE ROLE FOR ON-BIPOLAR CELLS IN CONGENITAL NYSTAGMUS
Maj-Britt Hölzel, Maarten Kamermans, Amsterdam, The Netherlands
- T15-2A** AAV MEDIATED PTPN11 KNOCKDOWN STIMULATES TRKB ACTIVITY IN NEURONAL CELLS IN CULTURE AND IN RAT RETINA
Nitin Chitranshi, Vivek Gupta, Yogita Dheer, Stuart Graham, Sydney, Australia
- T15-3A** ANALYSING SPATIAL INTEGRATION IN THE MOUSE RETINA
Dimokratis Karamanlis, Tim Gollisch, Göttingen
- T15-4A** COMBINING IN-VIVO AND EX-VIVO METHODS FOR STUDYING BLOOD-BRAIN BARRIER PASSAGE OF NANOPARTICLES
Mohamed Tawfik Mohamed Tawfik, Magdeburg
- T15-5A** CONNECTIVITY MAP OF OUTER RETINAL NEURONS IN THE MOUSE
Timm Schubert, Christian Behrens, Yue Zhang, Silke Haverkamp, Thomas Euler, Philipp Berens, Tübingen
- T15-6A** DIFFERENTIAL LOCALIZATION OF CAMKII- α AND - β INDICATES CAMKII- β AS A SPECIFIC ELEMENT IN CONNEXIN36-CONTAINING GAP JUNCTIONS
Stephan Tetenborg, Bianca Brüggem, Ulrike Janssen-Bienhold, Karin Derek, Oldenburg
- T15-7A** EFFECT OF EARLY EYE REMOVAL ON THE MORPHOLOGY OF A MULTISENSORY NEURON IN THE CHICKEN OPTIC TECTUM
Stefan Weigel, Katharina Lischka, Jiamin Yan, Harald Luksch, Freising
- T15-8A** ELECTROPHYSIOLOGICAL CHARACTERISTICS AND BACKGROUND ACTIVITY OF RETINAL GANGLION CELLS UNDER RAT MODEL OF ARTIFICIAL HYPERGLYCEMIA
Nataliia Martyniuk, Kyiv, Ukraine

Thursday

- T15-1B** EXPRESSION PATTERNS OF NF200, NAV1.6, ANKYRIN G AND RELATED PROTEINS IN A MULTIMODAL CELL TYPE OF THE AVIAN OPTIC TECTUM
Katharina Lischka, Simone Ladel, Harald Luksch, Stefan Weigel, Freising
- T15-2B** FUNCTIONAL CHARACTERIZATION OF THE SIGNAL PROCESSING CHAIN IN THE MOUSE EARLY VISUAL SYSTEM
Miroslav Román Rosón, Philipp Berens, Yannik Bauer, Thomas Euler, Laura Busse, Tübingen



- T15-3B** FUNCTIONAL DIVERSITY OF MOUSE RETINAL GANGLION CELLS IN 4096-ELECTRODE CMOS ARRAY RECORDINGS
Fernando Rozenblit, Vidhyasankar Krishnamoorthy, Tim Gollisch, Göttingen
- T15-4B** HDAC6 INHIBITION BY TUBASTATIN A PROTECTS RETINAL CELLS AGAINST OXIDATIVE STRESS AND INDUCES AUTOPHAGIC CLEARANCE
Janina Leyk, Christiane Richter-Landsberg, Oldenburg
- T15-5B** LINEAR AND NONLINEAR CHROMATIC INTEGRATION IN THE MOUSE RETINA
Mohammad Hossein Khani, Tim Gollisch, Göttingen
- T15-6B** LOCAL SIGNAL PROCESSING IN HORIZONTAL CELLS
Camille Anastasia Chapot, Christian Behrens, Philipp Berens, Sinziana Pop, Tom Baden, Thomas Euler, Timm Schubert, Tübingen
- T15-7B** LOCALIZATION OF THE EXCITATORY AMINO ACID TRANSPORTERS EAAT2 AND EAAT5 IN THE NEURONAL NETWORK OF THE MOUSE RETINA
Stefan Esser, Anja Mataruga, Frank Müller, Jülich

Friday

- T15-1C** MORPHOLOGICAL AND FUNCTIONAL IMPLICATIONS OF THE RETINA IN MULTIPLE SYSTEM ATROPHY
Kathrin Kaehler, Hartwig Seitter, Bettina Tschugg, Adolf M. Sandbichler, Edith Sturm, Nadia Stefanova, Alexandra Koschak, Innsbruck, Austria
- T15-2C** ON THE ROLE OF COMMON AGE-RELATED BETA-SYNUCLEIN BETWEEN VISUAL CORTEX AND NEURORETINA
Karina Hadrian, Katrin Brockhaus, Harutyun Melkonyan, Solon Thanos, Michael R. Böhm, Essen
- T15-3C** OPTIMIZATION OF ELECTRORETINOGRAPHIC RECORDING FROM THE ISOLATED AND SUPERFUSED MURINE RETINA
Toni Schneider, Jan Niklas Lüke, Jürgen Hescheler, Felix Neumaier, Walid Albanna, Cologne
- T15-4C** OPTOGENETICS IN THE EYE – DEVELOPMENT OF A LIGHT-INDUCIBLE GENE THERAPY FOR PATHOLOGICAL NEOVASCULARIZATION
Sidney B. Cambridge, Eric Brandhorst, Hans-Peter Hammes, Heidelberg
- T15-5C** PERICENTRIN, IDENTIFIED AT THE BASAL-BODY COMPLEX IN MAMMALIAN PHOTORECEPTOR CELLS, INTERACTS WITH NESPRIN PROTEIN SYNE-2 IN THE RETINA
Andreas Giebl, Nathalie Falk, Kristin Kessler, Marlene Lösl, Johannes Glöckner, Karsten Boldt, Marius Jeffering, Ronald Roepmen, Christian Thiel, Angelika A. Noegel, Johann Helmut Brandstätter, Erlangen
- T15-6C** RESPONSE PROPERTIES IN BIPOLAR CELLS AND THEIR IMPACT ON GANGLION CELLS IN THE RETINA
Helene Marianne Schreyer, Michael Weick, Tim Gollisch, Göttingen



- T15-7C** RETINAL GANGLION CELL ACTIVITY OF CAV1.4 MUTANT MICE
Lucia Zanetti, Hartwig Seitter, Alexandra Koschak, Innsbruck, Austria

Saturday

- T15-1D** REWIRING OF BIPOLAR CELLS IN A CONGENITAL STATIONARY NIGHT BLINDNESS TYPE 2 MOUSE MODEL
Irem Kilcarslan, Hartwig Seitter, Enrica Strettoi, Alexandra Koschak, Innsbruck, Austria
- T15-2D** SPIKE CORRELATIONS INDICATE ELECTRICAL COUPLING BETWEEN HETEROTYPIC GANGLION CELLS
Christian Puller, Matthew I. Grivich, Alexander Sher, Greg D. Field, Jeffrey L. Gauthier, Alan M. Litke, E.J. Chichilnisky, Martin Greschner, Oldenburg
- T15-3D** SPONTANEOUS EMERGENCE OF STRUCTURED RESPONSES IN A RANDOM NEURAL NETWORK IN-VITRO
Manuel Schottdorf, Julian Vogel, Hecke Schrobsdorff, Walter Stühmer, Fred Wolf, Göttingen
- T15-4D** SYNERGY IN RANDOM MOTION DECODING FROM A POPULATION OF DIRECTION-SELECTIVE RETINAL GANGLION CELLS
Norma Krystyna Kühn, Tim Gollisch, Göttingen
- T15-5D** THE DYNAMICS OF ADAPTATION PROCESS TO DIFFERENT LIGHT LEVELS IN THE MOUSE RETINA STUDIED WITH ELECTRORETINOGRAMS
Anneka Joachimsthaler, Tina Tsai, Jan Kremers, Erlangen
- T15-6D** TWO-PHOTON CALCIUM IMAGING OF DENDRITIC INTEGRATION IN MOUSE RETINAL GANGLION CELLS
Yanli Ran, Katrin Franke, Tom Baden, Thomas Euler, Tübingen
- T15-7D** VISUALIZATION OF SECOND MESSENGERS IN THE MOUSE RETINA USING OPTOGENETIC SENSORS
Safaa Belaidi, Jana Gehlen, Anna Sieben, Frank Müller, Jülich
- T15-8D** WHAT CAN A SMALL FISH TEACH US ABOUT VISUAL PROCESSING?
Ronen Segev, Beer Sheva, Israel

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

Wednesday

- T16-1A** BEHAVIOURAL STATE MODULATION OF INHIBITION IS CONTEXT-DEPENDENT AND CELL-TYPE SPECIFIC IN MOUSE PRIMARY VISUAL CORTEX
Janelle M. P. Pakan, Scott C. Lowe, Evelyn Dylida, Sander W. Keemink, Stephen P. Currie, Christopher A. Coutts, Nathalie L. Rochefort, Edinburgh, UK



- T16-2A** BINOCULAR INTEGRATION AND DISPARITY SENSITIVITY IN MOUSE VISUAL CORTEX
Alessandro La Chioma, Tobias Bonhoeffer, Mark Hübener, Martinsried
- T16-3A** BIOLOGICALLY-INSPIRED NEURAL MODEL FOR THE ADAPTATION OF NEURONS IN AREA IT
Martin A. Giese, Pradeep Kuravi, Rufin Vogels, Tübingen
- T16-4A** CHANGES IN THE SPINE DENSITY DURING THE MATURATION OF NEURAL CIRCUITS IN THE VISUAL CORTEX OF WILD-TYPE AND PSD-95 KNOCKOUT MICE
Rashad Yusifov, Ekaterina Ryazantseva, Man Ho Wong, Oliver Schlüter, Siegrid Löwel, Göttingen
- T16-5A** CIRCUIT ANALYSIS OF LAYER 2/3 PYRAMIDAL CELLS IN MOUSE VISUAL CORTEX
Simon Weiler, Tobias Rose, Mark Hübener, Tobias Bonhoeffer, Volker Scheuss, Martinsried
- T16-6A** DARPP-32 - A MARKER FOR PRINCIPAL NEURONS IN TELEOSTS
Lena Mareike Josefina Robra, Vatsala Thirumalai, Bangalore, India

Thursday

- T16-1B** DETERMINING COMPLEX RECEPTIVE FIELD MOTION PREFERENCES IN PRIMATE CORTEX AREA MSTD
Amr Maamoun, Stefan Treue, Göttingen
- T16-2B** DEVELOPMENTAL SYNAPSE REFINEMENT IN MOUSE VISUAL CORTEX
Man Ho Wong, Yuzhang Liu, Rashad Yusifov, Siegrid Löwel, Oliver Schlüter, Göttingen
- T16-3B** EFFECTIVENESS OF ELECTRICALLY EVOKED INPUT DEPENDS ON THE GAMMA-PHASE OF THE RECEIVING POPULATION IN MONKEY AREA V4
Eric Drebitz, Heiko Stemmann, Andreas K. Kreiter, Bremen
- T16-4B** ENVIRONMENTAL ENRICHMENT ACCELERATES OCULAR DOMINANCE PLASTICITY IN MOUSE VISUAL CORTEX; PUTTING ANIMALS BACK TO A STANDARD CAGE RESULTS IN A RAPID LOSS OF THIS PLASTICITY
Evgenia Kalogeraki, Siegrid Löwel, Göttingen
- T16-5B** IMAGING OF SPINE DYNAMICS IN THE VISUAL CORTEX OF AWAKE PSD-95 KNOCKOUT AND WILD TYPE MICE
Anja Tippmann, Bettina Joachimsthaler, Cornelius Schwarz, Oliver Schlüter, Siegrid Löwel, Göttingen
- T16-6B** SYNAPTIC CORRELATES OF THE PREDICTIVE CODING OF FORM AND MOTION IN V1
Marc Pananceau, Xoana G Troncoso, Benoit Le Bec, Christophe Desbois, Yves Fregnac, Gif sur Yvette, France

Friday

- T16-1C** IS THE CONTRIBUTION OF VISUAL FEEDBACK ON GRASPING ACTIVITY SIMILAR IN THE GRASPING AREAS OF THE DORSAL VISUAL STREAM?
Marina De Vitis, Rossella Breveglieri, Sofia Briganti, Annalisa Bosco, Claudio Galletti, Patrizia Fattori, Bologna, Italy
- T16-2C** MULTIPLE THALAMOCORTICAL AXONAL ARCHITECTURES CONVERGE IN MOUSE VISUAL CORTICAL AREAS
Marian Evangelio, Francisco Clasca, Maria Garcia Amado, Madrid, Spain
- T16-3C** NEURONAL RESPONSE PROPERTIES DURING THE REPETITIVE PRESENTATION OF A VISUAL STIMULUS IN MOUSE V1
Evelyn Dylida, Janelle M.P. Pakan, Scott C. Lowe, Sander W. Keemink, Nathalie L. Rochefort, Edinburgh, UK
- T16-4C** NEURONAL RESPONSES IN THE UPPER VISUAL FIELD OF THE RAT
Stefanie Rulla, Benedict Ng, Damian Wallace, Jason Kerr, Bonn
- T16-5C** POSTSYNAPTIC SCAFFOLDS AND VISUAL STIMULATION FINE-TUNE THE DEVELOPMENT OF GLUTAMATERGIC SYNAPSES IN VISUAL CORTEX
Plinio D. Favaro, Sophia K. Stodieck, Siegrid Löwel, Oliver M. Schlüter, Göttingen
- T16-6C** RECOVERY FROM VISION LOSS IN SUBACUTE STROKE FOLLOWING TDCS TREATMENT
Younes Adam Tabi, Raimund Alber, Hermann Moser, Carolin Gall, Moritz Dannheimer, Bernhard A. Sabel, Magdeburg

Saturday

- T16-1D** RESPONSE MODULATION BY SPATIAL ATTENTION IN AREA MT OF PRIMATE VISUAL CORTEX IS NOT MEDIATED BY THE CHOLINERGIC SYSTEM
Jordi Aguila, Vera Veith, Clíodhna Quigley, Stefan Treue, Göttingen
- T16-2D** RESPONSE PROPERTIES OF NEURONS IN THE BINOCULAR VISUAL CORTEX OF PSD95 KNOCKOUT MICE IN VIVO
Susanne Dehmel, Kanishka Waghmare, Michael Weick, Xiaojie Huang, Man Ho Wong, Tim Golisch, Oliver M. Schlüter, Siegrid Löwel, Göttingen
- T16-3D** THE POTENTIALS OF THE METHANOLIC LEAVES EXTRACT OF LANNEA SCHIMPERI (HOSCHST. EX RICH) ENG. AAS A SURFACE ANAESTHETIC AGENT
Hudu Mikail Garba, Akumka David Dezi, Muhammed Adamu, Abuja, Nigeria



- T16-4D** THE ROLE OF POSTSYNAPTIC DENSITY PROTEIN 93 FOR VISUAL CORTICAL PLASTICITY
Siegrid Löwel, Sophia S. Stodieck, Leon Hosang, Plinio D. Favaro, Oliver M. Schlüter, Göttingen
- T16-5D** TOWARDS NO-REPORT READOUTS OF CONSCIOUS VISUAL PERCEPTION
Eva Poland, Iris Steinmann, Albert Lehr, Annekathrin Schacht, Arezoo Pooresmaeili, Melanie Wilke, Göttingen
- T16-6D** VISUAL POP-OUT IN BARN OWLS: FROM BEHAVIOR TO NEURAL CORRELATE
Julius Orłowski, Hermann Wagner, Aachen

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

Wednesday

- T17-1A** ABSENCE OF THE NO-SENSITIVE GUANYLATE CYCLASE ISOFORM NO-GC1 OR NO-GC2 PROTECTS COCHLEAR INNER HAIR CELLS AND THEIR SYNAPSES
Dorit Möhrle, Katrin Reimann, Nicole Eichert, Steffen Wolter, Markus Wolters, Evanthia Mergia, Doris Koesling, Andreas Friebe, Michaela Kuhn, Frank Schweda, Robert Feil, Marlies Knipper, Lukas Rüttiger, Tübingen
- T17-2A** AVOIDANCE BEHAVIOR TRIGGERED BY COCHLEAR OPTOGENETICS
Alexander Dieter, Christian Wrobel, Gerhard Hoch, Marcus Jeschke, Tobias Moser, Göttingen

Thursday

- T17-1B** COCHLEAR BDNF IMPROVES HEARING ACUITY WITH SENSORY EXPERIENCE. IS THIS A PREREQUISITE FOR ADAPTIVE HOMEOSTATIC PLASTICITY?
Marie Manthey, Dario Campanelli, Wibke Singer, Lukas Rüttiger, Marlies Knipper, Tübingen

Friday

- T17-1C** SEXUAL DIMORPHISM IN THE AUDITORY FOVEA OF THE DUETTING BUSHCRICKET ANCYLECHA FENESTRATA: ANATOMICAL BASIS AND BEHAVIORAL RELEVANCE
Jan Scherberich, Jennifer Hummel, Stefan Schöneich, Manuela Nowotny, Frankfurt/Main

Saturday

- T17-1D** STOCHASTIC RESONANCE IN AN ACOUSTICALLY COMMUNICATING INSECT
Zainab Ali Saad Abdelatti, Manfred Hartbauer, Graz, Austria

- T17-2D** UNRAVELLING MECHANOTRANSDUCTION IN THE LOCUST EAR: EVIDENCE IN FAVOUR OF INACTIVE-NANCHUNG AS THE PRIMARY MECHANOTRANS-
DUCTION ION CHANNEL
Ben Warren, Tom Matheson, Leicester, UK

T18: Auditory system: subcortical and cortical processing

Wednesday

- T18-1A** A NEW MODEL FOR THE DEVELOPMENT OF TINNITUS-RELATED HYPERACTIVITY BASED ON ADAPTIVE STOCHASTIC RESONANCE
Konstantin Tziridis, Patrick Krauss, Achim Schilling, Claus Metzner, Ulrich Hoppe, Holger Schulze, Erlangen
- T18-2A** ACTIVATION OF THE DEAF AUDITORY SYSTEM TRIGGERS REMODELING OF THE GABAERGIC BUT NOT THE GLUTAMATERGIC NETWORK
Nicole Rosskothén-Kuhl, Heika Hildebrandt, Robert Benjamin Illing, Freiburg
- T18-3A** CHARACTERISTIC MOLECULAR AND FUNCTIONAL BIOMARKERS FOR TINNITUS IN HUMANS
Benedikt Hofmeier, Ebrahim Saad Aldamer, Ulrike Ernemann, Florian Henningsdorf, Moritz Walter, John Thiericke, Stephan Wolpert, Lukas Rüttiger, Uwe Klose, Marlies Knipper, Tübingen
- T18-4A** CONTRALATERAL/IPSILATERAL POSTSYNAPTIC POTENTIALS AND BINAURAL INTEGRATION IN MIDBRAIN SINGLE NEURONS
Jun Yan, Na He, Calgary, Canada
- T18-5A** DISTINCT FREQUENCY-SPECIFIC MYELINATION PATTERNS IN GERBIL, BUT NOT IN MOUSE, ADJUST CONDUCTION VELOCITY AND SYNAPTIC TRANSMISSION DELAY OF ACTION POTENTIALS IN AUDITORY BRAINSTEM NEURONS AS AN ADAPTATION FOR ITD PROCESSING
Annette Stange-Marten, Alisha Nabel, Hilde Wohlfrom, Michael Pecka, Benedikt Grothe, Martinsried
- T18-6A** ECHO-ACOUSTIC FLOW DETERMINES OBJECT REPRESENTATION IN COMPLEX SPATIAL LAYOUTS
Uwe Firzlaff, Wolfgang Greiter, Freising
- T18-7A** EFFECTS OF EARLY HEARING EXPERIENCE ON FUNCTIONAL CONNECTIVITY IN PRIMARY AND HIGHER-ORDER CORTICAL FIELD
Prasandhya Astagiri Yusuf, Peter Hubka, Jochen Tillein, Andrej Kral, Hannover
- T18-8A** EFFECTS OF EARLY SENSORY DEPRIVATION ON THE DEVELOPMENT OF MULTISENSORY THALAMOCORTICAL AND INTRACORTICAL CONNECTIONS
Julia U. Henschke, Anja M. Oelschlegel, Frank Angenstein, Frank W. Ohl, Jürgen Goldschmidt, Patrick O. Kanold, Eike Budinger, Magdeburg



Thursday

- T18-1B** ELECTRICAL STIMULATION OF THE MOUSE AUDITORY MIDBRAIN
Gunnar Quass, Andrej Kral, Hannover
- T18-2B** ELECTROPHYSIOLOGICAL AND BEHAVIORAL CHARACTERIZATION OF MICE MISSING THE AUDITORY MIDBRAIN
Simone Kurt, Tingting Gao, Homburg/Saar
- T18-3B** FUNCTIONAL SPECIALIZATION OF MOUSE AUDITORY MIDBRAIN NEURONS WITH DIFFERENT RESPONSE PATTERNS IN PROCESSING OF COMMUNICATION CALLS
Alexander Grigorievich Akimov, Marina Alexandrovna Egorova, Guenter Ehret, St. Petersburg, Russia
- T18-4B** HEARING DYSFUNCTION IN OTOFERLIN ILE515THR MUTANT MICE
Maike Pelgrim, Gulnara Yamanbaeva, Marcus Jeschke, Ellen Reisinger, Nicola Strenzke, Göttingen
- T18-5B** IMPACT OF OPTOGENETICALLY RELEASED DOPAMINE ON CORTICAL PROCESSING IN THE MONGOLIAN GERBIL
Michael G. K. Brunk, Frank W. Ohl, Michael T. Lippert, Max F. K. Happel, Magdeburg
- T18-6B** IMPAIRED TOPOGRAPHIC MAP REFINEMENT AND SYNAPTIC STRENGTHENING OF AN INHIBITORY AUDITORY MICROCIRCUIT IN DEAF MICE
Nicolas Müller, Mandy Sonntag, Eckhard Friauf, Kaiserslautern
- T18-7B** INTRACORTICAL MICROSTIMULATION MODULATES OSCILLATORY RESPONSES TO CONCURRENT ACOUSTICAL STIMULATION IN THE AUDITORY CORTEX
Mathias Benjamin Voigt, Andrej Kral, Hannover
- T18-8B** JUDGMENTS OF PERCEPTUAL DISTANCE IN THE BEHAVING MOUSE: PHYSICAL PROPERTIES VERSUS VALENCE OF ACOUSTIC STIMULI
Chi Chen, Livia de Hoz, Göttingen

Friday

- T18-1C** LONG LASTING CELLULAR ADAPTATION IN THE MEDIAL SUPERIOR OLIVE INDUCED BY CONTINUOUS NOISE EXPOSURE
Ida Siveke, Christian Leibold, Benedikt Grothe, Felix Felmy, Bochum
- T18-2C** LONG-TERM DYNAMICS OF SENSORY REPRESENTATIONS IN MOUSE AUDITORY CORTEX
Dominik Florian Aschauer, Jens-Bastian Eppler, Anna Chambers, Matthias Kaschube, Simon Rumpel, Mainz
- T18-3C** STABILITY OF SENSORY REPRESENTATIONS IN THE PRESENCE OF SYNAPTIC TURNOVER
Bastian Eppler, Dominik Aschauer, Anna Chambers, Simon Rumpel, Matthias Kaschube, Frankfurt

- T18-4C** MEMBRANE RESONANCE PHENOMENA IN NEURONS OF THE SUPERIOR OLIVE COMPLEX
Felix Felmy, Linda Fischer, Christian Leibold, Hannover
- T18-5C** NEURODEGENERATION AND CELL DEATH MECHANISMS IN THE MOUSE CENTRAL AUDITORY SYSTEM AFTER SINGLE OR REPEATED NOISE TRAUMA
Ira Margitta Strübing, Felix Fröhlich, Arne Ernst, Dietmar Basta, Moritz Gröschel, Berlin
- T18-6C** NEURONAL RESPONSES TO AMPLITUDE MODULATION IN THE BAT AUDITORY CORTEX
Lisa Martin, M. Jerome Beetz, Manfred Kössl, Julio C. Hechavarría, Frankfurt am Main
- T18-7C** PRE- AND POST-SYNAPTIC CHOLINERGIC MODULATION ON ENDBULBS OF HELD IN THE AVCN OF GERBILS
Thomas Künzel, Charlene Gillet, Hannah Griebel, David Goyer, Stefanie Kurth, Aachen
- T18-8C** PRECISE INHIBITION IN THE AUDITORY BRAINSTEM FINE TUNES AND FACILITATES ACTION POTENTIAL FIRING
Barbara Beiderbeck, Nicolas Müller, Michael H. Myoga, Eckhard Friauf, Benedikt Grothe, Michael Pecka, Martinsried

Saturday

- T18-1D** RETRACTED
- T18-2D** PRESSURE DIFFERENCE RECEIVING EARS INFLUENCE ITD DETECTION IN THE AUDITORY BRAINSTEM OF ALLIGATORS. (A. MISSISSIPIENSIS)
Lutz Kettler, Catherine E. Carr, College Park, MD, USA
- T18-3D** PROCESSING SPATIAL DEPTH IN THE AUDITORY CORTEX OF THE FRUIT-EATING BAT CAROLLIA PERSPICILLATA IN THE PRESENCE OF NATURAL ACOUSTIC JAMMING NOISE
M. Jerome Beetz, Julio C. Hechavarría, Manfred Kössl, Frankfurt
- T18-4D** SPECTROTEMPORAL PLASTICITY OF RECEPTIVE FIELDS BY PARVALBUMIN-POSITIVE INTERNEURONS IN AUDITORY CORTEX
Tina Reuter, K. Jannis Hildebrandt, Oldenburg
- T18-5D** SPON RECEIVES EXCITATORY INPUT FROM OCTOPUS CELLS AND RESPONDS BETTER TO THE ONSET OF BROAD-BAND SOUNDS IN VIVO
Marcelo Gomez-Alvarez, Tobias Nyberg, Enrique Saldana, Anna K. Magnusson, Huddinge, Sweden
- T18-6D** TEMPORAL SOUND PROCESSING IN THE AUDITORY CORTEX DEPENDS ON BOTH MYELIN INTEGRITY AND OLIGODENDROCYTE-DEPENDENT METABOLIC SUPPORT
Sharlen Moore, Wiebke Möbius, Iva Tzvetanova, Klaus-Armin Nave, Livia de Hoz, Göttingen



- T18-7D** THE IMPACT OF IMPAIRED BRAINSTEM BIFURCATION ON HEARING
Steffen Wolter, Dorit Möhrle, Dennis Zelle, Marlies Knipper, Hannes Schmidt, Lukas Rüttiger, Tübingen
- T18-8D** TIME SCALE OF ADAPTATION TO TONAL SEQUENCES IN MOUSE AUDITORY MIDBRAIN NEURONS
Marina Alexandrovna Egorova, Eugenia Sergeevna Malinina, Gleb Dmitrievich Khorunzhii, Guenter Ehret, St. Petersburg, Russia

T19: Chemical senses: olfaction, taste, others

Wednesday

- T19-1A** A CALCIUM SIGNALING 'FINGERPRINT' IN VOMERO-NASAL SENSORY NEURONS
Maximilian Nagel, David Fleck, Marc Spehr, Aachen
- T19-2A** ACTIVATION OF THE MOUSE OR37 SUBSYSTEM COINCIDES WITH AN ATTENUATION OF ACTIVITY IN THE PARAVENTRICULAR NUCLEUS OF THE HYPOTHALAMUS
Jörg Strotmann, Bettina Klein, Verena Heinzmann, Anna-Maria Maier, Jan Deussing, Heinz Breer, Stuttgart
- T19-3A** ANCESTRAL AMPHIBIAN V2R EXPRESSION DURING METAMORPHOSIS
Adnan S. Syed, Alfredo Sansone, Thomas Hassenklöver, Ivan Manzini, Sigrun I. Korsching, Cologne
- T19-4A** AUTOMATED OPERANT OLFACTORY CONDITIONING OF GROUP-HOUSED MICE
Janine Reinert, Andreas T. Schaefer, Thomas Kuner, Heidelberg
- T19-5A** BRUSH CELLS AT THE 'GASTRIC GROOVE' SENSE CONSTITUENTS OF INGESTED FOOD
Patricia Widmayer, Katja Hennemann, Lisa Hischer, Heinz Breer, Stuttgart
- T19-6A** CALCIUM-IMAGING IN THE OLFACTORY EPITHELIUM OF DANIO RERIO REVEALS CELL TYPE-SPECIFIC RESPONSES TO DIFFERENT ODORANT CLASSES
Milan Dieris, Daniel Kowatschew, Thomas Hassenklöver, Ivan Manzini, Sigrun Korsching, Cologne
- T19-7A** CD36 IS INVOLVED IN FATTY ACID DETECTION BY THE MURINE OLFACTORY SYSTEM
Eva M. Neuhaus, Jena
- T19-8A** CHEMO- AND THERMOSENSORY SIGNALING IN THE GRUENEBERG GANGLION
Rosolino Bumbalo, Marilena Lieber, Lisa Schroeder, Yasemin Polat, Heinz Breer, Joerg Fleischer, Stuttgart

- T19-9A** DEFAULT GLOMERULAR ACTIVITY MAPS IN THE OLFACTORY BULB OF AWAKE MICE
Stefan Fink, Natalie Fomin-Thunemann, Joseph Brook Sheppard, Marie Estelle Schmidt, Olga Garaschuk, Tübingen
- T19-10A** GLOMERULI OF THE OR37 SUBSYSTEM POSSESS A MORE STABLE INTERNEURONAL NETWORK THAN OTHERS
Anna-Maria Maier, Heinz Breer, Jörg Strotmann, Stuttgart
- T19-11A** ILLUMINATING THE FUNCTION OF INHIBITORY MICROCIRCUITS IN THE ZEBRAFISH HOMOLOG OF OLFACTORY CORTEX
Thomas Frank, Koichi Kawakami, Shin-ichi Higashijima, Rainer W. Friedrich, Basel, Switzerland

Thursday

- T19-1B** IMPACT OF BASAL FOREBRAIN STIMULATION ON OLFACTORY BULB OUTPUT IN AWAKE MICE
Erik Böhm, Vanessa Schweda, Matt Wachowiak, Markus Rothermel, Aachen
- T19-2B** INNATE FEAR RESPONSES INDUCED BY PYRAZINE ODORS ORIGINATED FROM WOLF URINE IN DEER AND RATS
Makoto Kashiwayanagi, Sadaharu Miyazono, Kazumi Osada, Asahikawa, Japan
- T19-3B** NETWORK FORMATION AND REGENERATION IN THE OLFACTORY SYSTEM OF XENOPUS LAEVIS
Lukas Weiss, Sara Joy Hawkins, Thomas Offner, Katarina Dittrich, Thomas Hassenklöver, Ivan Manzini, Göttingen
- T19-4B** P2Y1 RECEPTOR-MEDIATED MODULATION OF NEURONAL ACTIVITY IN THE MOUSE OLFACTORY BULB
Kristina Schulz, Christian Lohr, Daniela Hirnet, Hamburg
- T19-5B** PASSIVE PERCEPTION OF ODORS MODULATES FUNCTIONAL ACTIVITY OF HUMAN BRAIN
Igor Zyma, Sergii Tukaiev, Mukola Makarchuk, Kyiv, Ukraine
- T19-6B** THE RAT VOMERONASAL ORGAN IS A VITAMIN D TARGET
Andrea Rodewald, Veronika M. Gebhart, Hartmut Oehring, Gustav Jirikowski, Jena
- T19-7B** READOUT OF ELECTRICAL ACTIVITY FROM CALCIUM SIGNALS IN VOMERONASAL SENSORY NEURONS OF MICE
Rudolf Degen, Marc Spehr, Aachen
- T19-8B** THE V1R-RELATED ORA RECEPTORS ARE EXPRESSED IN A SPECIFIC SPATIAL DISTRIBUTION IN THE MAJOR OLFACTORY ORGAN OF DANIO RERIO
Daniel Kowatschew, Shahrzad Bozorg Nia, Sigrun Korsching, Cologne



- T19-9B** WIRING AND INFORMATION PROCESSING IN AN AMPHIBIAN OLFACTORY NETWORK
Thomas Offner, Thomas Hassenklöver, Sara J. Hawkins, Lukas Weiss, Katarina Dittrich, Ivan Manzini, Göttingen
- T19-10B** A CHALLENGE FOR A MALE NOCTUID MOTH? DISCERNING THE FEMALE SEX PHEROMONE AGAINST THE BACKGROUND OF PLANT VOLATILES
Elisa Schuh, Alexander Haverkamp, Bill S. Hansson, Silke Sachse, Jena
- T19-11B** A SECOND INSECT OLFACTORY CENTER
Yasmin Klaas, Stefan Dippel, Martin Kollmann, Ernst A. Wimmer, Joachim Schachtner, Marburg
- T19-12B** CAMP MODULATES RESPONSE SENSITIVITY OF OLFACTORY RECEPTOR NEURONS IN DROSOPHILA LARVAE
Carlotta Martelli, Ulrike Pech, Atefeh Pooryasin, Andre Fiala, Göttingen

Friday

- T19-1C** CATEGORIZATION OF OLFACTORY, VISUAL AND OLFACTORY-VISUAL COMPOUND STIMULI IN MUSHROOM BODY OUTPUT NEURONS
Martin Fritz Strube-Bloss, Wolfgang Rössler, Würzburg
- T19-2C** DROSOPHILA KENYON CELL RESPONSES TO ASYNCHRONOUS ODORANT MIXTURES
Georg Raiser, C. Giovanni Galizia, Paul Szyszka, Konstanz
- T19-3C** FUNCTIONAL ANALYSIS OF INTERNEURONS AND PROJECTION NEURONS IN THE ANTENNAL LOBE NETWORK OF THE AMERICAN COCKROACH
Viktor Bardos, Rinaldo Betkiewicz, Moritz Deger, Jonas Klußmann, Jan Radermacher, Martin Nawrot, Peter Kloppenburg, Cologne
- T19-4C** IN SEARCH FOR CANDIDATE PHEROMONE RECEPTORS IN THE DESERT LOCUST SCHISTOCERCA GREGARIA
Pablo Pregitzer, Joerg Fleischer, Xingcong Jiang, Ewald Grosse-Wilde, Jürgen Krieger, Heinz Breer, Stuttgart
- T19-5C** MICROCIRCUITS OF A SPECIALIZED OLFACTORY GLOMERULUS IN DROSOPHILA MELANOGASTER
Lydia Gruber, Bill S. Hansson, Jürgen Rybak, Jena
- T19-6C** MODIFICATION OF SEX PHEROMONE RESPONSES BY PLANT VOLATILES IN A MALE MOTH
Sylvia Anton, Fabienne Dupuy, Angela Rouyar, Denis Limousin, Thomas Bourgeois, Michel Renou, Angers, France
- T19-7C** ODOR EVOKED CALCIUM SIGNALS IN FUNCTIONAL COMPARTMENTS OF OLFACTORY LOCAL INTERNEURONS
Debora Fuscr, Andreas Pippow, Peter Kloppenburg, Cologne
- T19-8C** OLFACTORY SENSORY NEURONS USE TEMPORAL DYNAMICS TO ENCODE ODOR IDENTITY
Daniel Münch, C. Giovanni Galizia, Konstanz

- T19-9C** POSTMETAMORPHIC PLASTICITY OF THE MUSH-ROOM BODIES
Björn Trebels, Stefan Dippel, Ernst A Wimmer, Joachim Schachtner, Marburg
- T19-10C** POST-STIMULUS ACTIVITY IN THE OLFACTORY PATHWAY OF *DROSOPHILA*
Alja Lüdke, Georg Raiser, Johannes Nehr Korn, C. Giovanni Galizia, Andreas V.M. Herz, Paul Szyszka, Konstanz
- T19-11C** PUTATIVE ODORANT RECEPTORS IN THE DESERT LOCUST *SCHISTOCERCA GREGARIA*
Joerg Fleischer, Pablo Pregitzer, Xingcong Jiang, Ewald Grosse-Wilde, Heinz Breer, Jürgen Krieger, Halle (Saale)
- T19-12C** ROLE OF SENSORY NEURON MEMBRANE PROTEIN 1 (SNMP1) IN PHEROMONE DETECTION OF *HELIOTHIS VIRESCENS*
Stefanie Blankenburg, Pablo Pregitzer, Monika Zielonka, Heinz Breer, Jürgen Krieger, Halle (Saale)

Saturday

- T19-1D** SENSILLA SPECIFIC AND CELL TYPE SPECIFIC EXPRESSION OF ODORANT BINDING PROTEINS
Xingcong Jiang, Pablo Pregitzer, Ewald Grosse-Wilde, Jürgen Krieger, Heinz Breer, Stuttgart
- T19-2D** SEPARATION OF DIFFERENT POLLEN TYPES BY CHEMOTACTILE SENSING IN *BOMBUS TERRESTRIS* – A NEW METHOD FOR MEASURING CHEMOTACTILE ELECTROANTENNOGRAMS
Fabian Rüdener, Sara Leonhardt, Fabian Schmalz, Wolfgang Rössler, Martin Strube-Bloss, Würzburg
- T19-3D** SPATIAL AND TEMPORAL ASPECTS OF OLFACTORY COMPUTATION IN THE COCKROACH ANTENNAL LOBE NETWORK
Susanne Hindennach, Debora Fusc, Deborah Nörling, Peter Kloppenburg, Martin Paul Nawrot, Cologne
- T19-4D** SPATIO-TEMPORAL ACTIVITY PATTERNS IN RESPONSE TO COLONY ODORS IN THE ANTENNAL LOBES OF THE ANT *CAMPONOTUS FLORIDANUS*
Stefanie Neupert, Christoph J. Kleineidam, Konstanz
- T19-5D** TASTE RECEPTION IN *DROSOPHILA* LARVAE: CELLULAR ARCHITECTURE OF THE TERMINAL ORGAN
Anna Rist, Andreas Thum, Konstanz
- T19-6D** TEMPORAL RESOLUTION OF OLFACTORY RECEPTOR NEURON RESPONSES IN *DROSOPHILA*
Paul Szyszka, Alpha Renner, Alexander Egea-Weiss, Ole Lessmann, Aarti Sehdev, Yunusa Garba Mohammed, Christoph Johannes Kleineidam, Konstanz
- T19-7D** THE MOLECULAR BASIS OF OLFACTION IN THE LEAF-CUTTING ANT *ATTA VOLLENWEIDERI*
Carolina Gomez-Diaz, Bonnie Wall, Christoph J. Kleineidam, Konstanz



- T19-8D** THE OLIMPIAD, OR: BEHAVIOURAL FACULTIES OF STAGE 1 *DROSOPHILA* LARVAE
Yi-chun Chen, Thomas Niewalda, Dimitri Berh, Pauline M. J. Fritsch, Bertram Gerber, Nina Hoyer, Jörg Kleber, Christian Klämbt, Christian König, Birgit Michels, Anton Miroshnikow, Kristen Mirth, Daisuke Miura, Nils Otto, Emmanouil Paisios, Michael J. Pankratz, Meike Petersen, Noel Ramsperger, Benjamin Risse, Timo Saumweber, Philipp Schlegel, Michael Schleyer, Peter Soba, Simon G. Sprecher, Teiichi Tanimura, Andreas S. Thum, Naoko Toshima, Ayse Yarali, Magdeburg
- T19-9D** THE ROLE OF ADDITIONAL CHEMOSENSORY ORGANS IN THE TERRESTRIAL HERMIT CRAB COENOBITA CLYPEATUS
Christine Missbach, Jakob Krieger, Ewald Grosse-Wilde, Markus Knaden, Steffen Harzsch, Bill S. Hansson, Jena
- T19-10D** THERE IS NO EVIDENCE FOR AN ORCO-BASED IONOTROPIC PHEROMONE TRANSDUCTION MECHANISM IN THE HAWKMOTH *MANDUCA SEXTA*
Robin Schumann, Andreas Nolte, Petra Gawalek, Sarah Körte, Achim Werckenthin, Jürgen Krieger, Monika Stengl, Kassel
- T19-11D** TOWARDS THE DEORPHANIZATION OF CANDIDATE PHEROMONE RECEPTORS IN THE DESERT LOCUST *SCHISTOCERCA GREGARIA*
René-Sebastian Lemke, Pablo Pregitzer, Heinz Breer, Jürgen Krieger, Joerg Fleischer, Halle (Saale)
- T19-12D** REVEALING THE VALENCE OF SINGLE OLFACTORY SENSORY CHANNELS IN *DROSOPHILA MELANOGASTER*
Tom Retzke, Markus Knaden, Bill S. Hansson, Jena

T20: Somatosensation: touch, temperature, proprioception, nociception

Wednesday

- T20-1A** AN FMRI STUDY OF CENTRAL EFFECTS OF PERIPHERAL NERVE INJURY-INDUCED NEUROPATHIC PAIN IN MICE
Katja Sauer, Isabel Wank, Karl-Heinz Esser, Andreas Hess, Erlangen
- T20-2A** CELL-TYPE AND CONNECTIVITY SPECIFIC SUB- AND SUPRA-THRESHOLD CORRELATIONS OF SPONTANEOUS ACTIVITY IN MOUSE LAYER 2/3 IN VIVO
Jens Kremkow, Jean-Sebastien Jouhanneau, James F. A. Poulet, Berlin
- T20-3A** CELLULAR BASIS OF MOTOR-SENSORIC MODULATION
Paul Naser, Vijayan Gangadharan, Rohini Kuner, Heidelberg-Neuenheim

- T20-4A** CORTICAL OSCILLATORY PATTERNS DURING ACUTE AND CHRONIC PAIN IN RODENTS
Céline Heintz, Linette Liqi Tan, Kiran Kumar Bali, Sanjeev Kaushalya, Hannah Monyer, Rohini Kuner, Heidelberg
- T20-5A** EFFECTS OF OPTICAL ACTIVATION OF GROUPS OF SENSORY NEURONS IN THE FEMORAL CHORDOTONAL ORGAN OF *D. MELANOGASTER*
Alexander S. Chockley, Sara Ratican, Ansgar Büschges, Till Bockemühl, Cologne
- T20-6A** ENDOSCOPIC IN VIVO IMAGING OF THALAMIC NEURONAL ENSEMBLES MEDIATING CORTICO-THALAMO-CORTICAL COMMUNICATION
Ivo Sonntag, Juan Carlos Boffi, Thomas Kuner, Heidelberg
- T20-7A** EPILEPTIFORM ACTIVITY IN THE CNS OF DECAPOD CRUSTACEANS FOLLOWING TREATMENT WITH ELECTRICAL CURRENT (ELECTRIC STUNNING)
Ulf Bickmeyer, Torsten Fregin, Bremerhaven
- T20-8A** EVALUATION OF THE EFFECTS OF THREE KYNURENIC ACID ANALOGUES ON THE NEURONAL NITROGEN OXIDE SYNTHASE LEVELS IN THE NITROGLYCERIN MODEL OF MIGRAINE
Zsuzsanna Bohár, Klaudia Flóra Laborc, Eleonóra Spekker, Gábor Nagy-Grócz, Annamária Fejes-Szabó, Ferenc Fülöp, Árpád Párdutz, László Vécsei, Szeged, Hungary
- T20-9A** EXCITABILITY OF DORSAL ROOT GANGLIA NEURONS IN RESPONSE TO OXIDIZED PHOSPHOLIPIDS
Julian Hugo, Corinna Martin, Beatrice Oehler, Robert Blum, Heike Rittner, Würzburg

Thursday

- T20-1B** FUNCTIONAL MAGNET RESONANCE TOMOGRAPHY IN NAV1.8-DEFICIENT MICE UPON COLD AND HEAT NOXIOUS STIMULATION: AN INVESTIGATION OF ACTIVITY AND CONNECTIVITY CHANGES IN CENTRAL PROJECTION AREAS DRIVEN BY THE SENSORY NEURON SODIUM CHANNEL NAV1.8.
Cornelia Ulrike Bettina Heindl-Erdmann, Katharina Zimmermann, Peter Reeh, Kay Brune, Andreas Hess, Erlangen
- T20-2B** INFRARED MOTION DETECTION IN THE BRAINSTEM OF RATTLESNAKES (*CROTALUS ATROX*)
Maximilian S. Bothe, Harald Luksch, Hans Straka, Tobias Kohl, Freising
- T20-3B** INVESTIGATING PERIPHERAL NERVOUS SYSTEM INTERFACES FOR SOMATOSENSORY STIMULATION
Jeroen Martinus Maria Buil, Matthias Müller, Dorothee Mielke, Thomas Stieglitz, Hansjörg Scherberger, Göttingen



- T20-4B** LONGITUDINAL ANALYSIS OF STRUCTURAL AND FUNCTIONAL CHANGES IN PERIPHERAL CIRCUITS OF STREPTOZOTOCIN (STZ)-INDUCED DIABETIC MICE, MIMICKING THE CLINICAL SYMPTOMS OF PAINFUL DIABETIC NEUROPATHY
Johanna Philippine Helmstädter, Hongwei Zheng, Thomas Kuner, Rohini Kuner, Vijayan Gangadharan, Heidelberg
- T20-5B** LOW BACK PAIN MODEL IN MICE AND THE IMPACT OF STRESS
Carmen La Porta, Rohini Kuner, Anke Tappe-Theodor, Heidelberg
- T20-6B** MARKER-LESS MOTION CAPTURE OF ANTENNAL MOVEMENT KINEMATICS IN HONEYBEES AND OTHER HYMENOPTERANS
Volker Dürr, Florian P. Schmidt, Tristan Walter, Simon M. Würth, Mario Botsch, Bielefeld
- T20-7B** MECHANORECEPTOR ARRANGEMENT AT THE ANTENNAL BASE HELPS CRICKETS TO DIFFERENTIATE BETWEEN ACTIVE AND PASSIVE ANTENNAL TOUCH
Stefan Schöneich, Leipzig
- T20-8B** MODERATE ANESTHESIA MAY PROMOTE THE STUDY OF TEMPORAL CODING IN SENSORY CORTICES
Tobias Bockhorst, Maik C. Stüttgen, Tobias A.S. Ewert, Cornelius Schwarz, Andreas K. Engel, Christiane Vahle-Hinz, Hamburg

Friday

- T20-1C** NEURONAL CORRELATES OF SOCIAL REPRESENTATIONS IN FREELY INTERACTING RATS
Konstantin Hartmann, Michael Brecht, Berlin
- T20-2C** NON-VISUAL FUNCTIONS OF OPSINS IN DROSOPHILA LARVAL MECHANOSENSORS
Diego Giraldo, Damiano Zanini, Marta Andrés, Bart R. H. Geurten, Martin C. Göpfert, Göttingen
- T20-3C** OPTOGENETIC NEUROMODULATION OF CORTICAL CIRCUITS UNDERLYING NOCICEPTION
Linette Tan, Patric Pelzer, Wannan Tang, Céline Heintz, Vijayan Gangadharan, Herta Flor, Rolf Sprengel, Thomas Kuner, Rohini Kuner, Heidelberg
- T20-4C** ORDER UNDER THE GUISE OF CHAOS: FUNCTIONAL NEUROANATOMY OF THE SOMATOSENSORY CORTEX OF THE REELER MOUSE
Julien Guy, Alexandra Sachkova, Martin Möck, Mirko Witte, Robin Wagener, Jochen Staiger, Göttingen
- T20-5C** ORGANIZATION OF THE ISTHMIC SYSTEM IN THE WESTERN-DIAMONDBACK RATTLESNAKE (*CROTALUS ATROX*)
Michael Josef Stefan Forsthofer, Harald Luksch, Tobias Kohl, Freising

- T20-6C** ORTHODROMIC AND ANTIDROMIC SPIKE PROROGATION AND DISSIMILAR EXPRESSION OF ATP-GATED AND CAPSAICIN-SENSITIVE CHANNELS IN TRIGEMINAL SENSORY FIBERS IN MENINGES
Kseniia Koroleva, Andrey Zakharov, Erkan Kilinc, Rashid Giniatullin, Kuopio, Finland
- T20-7C** OXIDIZED PHOSPHOLIPIDS ACUTELY INCREASE THE FIRING RATE OF DORSAL ROOT GANGLIA NEURONS AND INDUCE PAIN BEHAVIOR
Corinna Martin, Würzburg
- T20-8C** PASSIVE VERSUS ACTIVE SENSING: A GIANT DESCENDING INTERNEURON IN A STICK INSECT CONVEYING INFORMATION ABOUT ANTENNAL MOVEMENT
Gaetan Lepreux, Stephan Suichi Haupt, Volker Dürr, Bielefeld

Saturday

- T20-1D** RATE CODE AND TEMPORAL CODE: COMPLEMENTING MECHANISMS IN SIGNALLING RAPIDLY VARYING STIMULI IN THE RAT'S BARREL CORTEX
Christiane Vahle-Hinz, Tobias Bockhorst, Maik C. Stüttgen, Tobias A.S. Ewert, Cornelius Schwarz, Andreas K. Engel, Hamburg
- T20-2D** RESINIFERATOXIN ADMINISTRATION REVEALS TWO DISTINCT BRAIN NETWORKS INVOLVED IN NOCICEPTIVE PROCESSING OF THE RAT
Isabel Stefanie Wank, Lisa Kutsche, Silke Kreitz, Andreas Hess, Erlangen
- T20-3D** RESPONSES OF THE FEMORAL CHORDOTONAL ORGAN OF ADULT DROSOPHILA MELANOGASTER TO VIBRATIONAL STIMULI
Joscha Arne Alt, Annalena Dobbert, Reinhard Lakes-Harlan, Gießen
- T20-4D** THALAMOCORTICAL INNERVATION OF GABAERGIC INTERNEURONS IN THE MOUSE BARREL CORTEX
Michael Feyerabend, Mirko Witte, Martin Möck, Jochen Staiger, Göttingen
- T20-5D** THE ROLE OF THE LEECH ANTERIOR-PAGODA CELL IN TACTILE INFORMATION PROCESSING
Sonja Meiser, Jutta Kretzberg, Oldenburg
- T20-6D** REGULATORY MECHANISMS UNDERLYING MOTOR NEURON FUNCTIONAL DIVERSIFICATION
Mudassar Nazar Khan, Ashish Rajput, Pitchaiah Cherukuri, Piotr Fabrowski, Camille Lancelin, Stefan Bonn, Till Marquardt, Göttingen
- T20-7D** UNTANGLING VIP NEURON DIVERSITY: A QUANTITATIVE ANALYSIS OF FIRING PATTERNS AND THE INFLUENCE OF NEUROMODULATION
Alvar Prönneke, Martin Möck, Mirko Witte, Jochen F. Staiger, Göttingen



- T20-8D** VIBROSENSORY ORGANS AND VIBRATION TRANSMISSION OVER THE LEGS OF THE CAVE CRICKET *TROGLOPHILUS NEGLECTUS*
Johannes Strauß, Reinhard Lakes-Harlan, Nataša Stritih, Gießen

T21: Motor systems

Wednesday

- T21-1A** A LOCAL, LOAD-BASED MECHANISM FOR INTER-LEG COORDINATION IN INSECTS
Chris J. Dallmann, Thierry Hoinville, Volker Dürr, Josef Schmitz, Bielefeld
- T21-2A** ADAPTIVE MOTOR CONTROL: TASK SPECIFIC PROCESSING OF MOVEMENT FEEDBACK IN THE CURVE WALKING INSECT
Joscha Schmitz, Matthias Gruhn, Ansgar Büschges, Cologne
- T21-3A** ANATOMICAL AND PHYSIOLOGICAL SPECIALIZATIONS FOR HIGH SPIKE TIME PRECISION IN DROSOPHILA FLIGHT STEERING MOTONEURONS
Nina Eckl, Dario Music, Carsten Duch, Mainz
- T21-4A** ANTIDROMIC ACTION POTENTIALS ALTER INFORMATION ENCODING IN A SENSORY NEURON
Margaret DeMaegd, Carola Städele, Wolfgang Stein, Normal, USA
- T21-5A** CONTINUITY IN INTER-LEG COORDINATION DURING WALKING IN DROSOPHILA
Till Bockemühl, Alexander S. Chockley, Ansgar Büschges, Cologne
- T21-6A** FEEDBACK INTEGRATION ON THE FLY – A NUMERICAL MODEL FOR PHASE-CODED LOCOMOTOR CONTROL IN FLYING INSECTS
Jan Bartussek, Fritz-Olaf Lehmann, Rostock
- T21-7A** HEXAPEDAL INTER-LEG COORDINATION VIA PHYSICAL COUPLING ONLY
Arne Gollin, Thierry Hoinville, Volker Duerr, Bielefeld

Thursday

- T21-1B** HOW ANGULAR VELOCITY SIGNALS UPDATE A HEADING REPRESENTATION IN THE FLY BRAIN
Stephanie Wegener, Dan B. Turner-Evans, Hervé Rouault, Romain Franconville, Johannes D. Seelig, Shaul Druckmann, Vivek Jayaraman, Ashburn, USA
- T21-2B** MOTOR CONTROL OF DROSOPHILA FEEDING BEHAVIOR
Olivia Schwarz, Ali Asgar Bohra, Xinyu Liu, Heinrich Reichert, Krishnaswamy VijayRaghavan, Jan Pielage, Kaiserslautern

- T21-3B** NEURAL JOINT CONTROL IS CONSTRAINED AND ASSISTED BY PASSIVE DYNAMIC MUSCLE PROPERTIES
Christoph Guschlbauer, Arndt von Twickel, Scott L. Hooper, Ansgar Büschges, Cologne
- T21-4B** PILOCARPINE EVOKED MEMBRANE POTENTIAL AND CALCIUM OSCILLATIONS IN STICK INSECT LEG MOTONEURONS DO NOT DEPEND ON VOLTAGE-GATED SODIUM CURRENTS
Charalampos Mantziaris, Jens Goldammer, Joachim Schmidt, Ansgar Büschges, Cologne
- T21-5B** SENSORY BASIS OF FORCE DIRECTION SENSITIVITY OF MOTOR NEURONS IN THE STICK INSECT LEG
Matthias Gruhn, Ansgar Büschges, Anna Dino, Cologne
- T21-6B** SOG-RELATED INFLUENCES ON SENSORY-MOTOR INTERACTIONS IN LOCUST WALKING CIRCUITS
Einat Couzin-Fuchs, Johanna Wörner, Daniel Knebel, Amir Ayali, Paul Szyszka, Konstanz
- T21-7B** THORAX- AND LEG-SEGMENT SPECIFICITIES IN THE MOTOR OUTPUT OF THE TURNING STICK INSECT CARAUSIUS MOROSUS
Elzbieta Hammel, Ansgar Büschges, Matthias Gruhn, Cologne

Friday

- T21-1C** A FUNCTIONAL GRADIENT IN THE RODENT PREFRONTAL CORTEX SUPPORTS BEHAVIORAL INHIBITION
Stefanie Hardung, Robert Epple, Zoe Jäckel, David Eriksson, Cem Uran, Verena Senn, Lihí Gibor, Ofer Yizhar, Ilka Diester, Freiburg
- T21-2C** A NEURAL MECHANISM UNDERLYING SWIMMING TERMINATION IN LAMPREYS
Swantje Grätsch, Francois Auclair, Danielle Veilleux, Ansgar Büschges, Réjean Dubuc, Montréal, Québec, Canada
- T21-3C** A NOVEL ROTATING BEAM TEST FOR DETECTION OF SENSORIMOTOR DEFICITS IN A KNOCK-IN MOUSE MODEL OF PRIMARY TORSION DYSTONIA
Julia Gerstenberger, Anne Bauer, Marieke Gringmuth, Franziska Richter, Angelika Richter, Leipzig
- T21-4C** ADAPTATION OF MOTOR ACTIVITY IN MONKEY MOTOR, PREMOTOR AND PARIETAL CORTICES DURING BCI CONTROL OF 3D REACHES
Enrico Ferrea, Pierre Morel, Alexander Gail, Göttingen
- T21-5C** AUTOMATED EXPERIMENTER-FREE ANALYSIS OF MOTORIC PHENOTYPES IN NEURODEGENERATED KNOCK-OUT RATS
Svenja Nierwetberg, Christian Jung, York Winter, Berlin
- T21-6C** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF VTA/SNC NEURONS AND THEIR HABENULAR INPUTS IN LAMPREY
Arndt von Twickel, Wolfgang Walkowiak, Sten Grillner, Cologne



- T21-7C** ENCODING OF MOVEMENT FORCE FOR DECISION AND ACTION IN HUMANS AND MONKEYS
Pierre Morel, Philipp Ulbrich, Alexander Gail, Göttingen

Saturday

- T21-1D** FUNCTIONAL CONNECTOME OF THE LATERAL HABELA-VTA/SNC CIRCUITRY IN ANURAN AMPHIBIANS
Lars Freudenmacher, Wolfgang Walkowiak, Cologne
- T21-2D** INTERNEURON REGULATION OF MOTOR CORTICAL ACTIVITY DURING THE EXECUTION OF A GOAL-DIRECTED FORELIMB PUSH TASK IN MICE
Julian Ammer, Julia Schiemann, Joshua Dacre, Brian Premchand, Janelle M. Pakan, Nathalie L. Rochefort, Ian Duguid, Edinburgh, UK
- T21-3D** LESS PREDOMINANT PHYSICAL GOAL ENCODING AND LARGER DYNAMICAL CHANGES DURING MOVEMENT CONTROL IN MONKEY DORSAL PREMOTOR CORTEX COMPARED TO PARIETAL REACH REGION
Hao Guo, Shenbing Kuang, Alexander Gail, Göttingen
- T21-4D** LIMITING PARENTAL FEEDBACK DISRUPTS VOCAL DEVELOPMENT IN MARMOSET MONKEYS
Yasemin Betul Gultekin, Steffen R. Hage, Tübingen
- T21-5D** MAPPING PHYSICAL AND STRUCTURAL MOP CONNECTIVITY IN ALS MOUSE MODEL: AN INNOVATIVE APPROACH TO UNMASK THE RULES OF NEURODEGENERATION
Barbara Commisso, Ulm
- T21-6D** OPTOGENETIC TOOLS TO STUDY FRONTOPARIETAL NETWORKS IN NON-HUMAN PRIMATES – A HISTOLOGICAL ANALYSIS
Michal Grzegorz Fortuna, Janina Hüer, Hao Guo, Lara Timantra Schiller, Jochen Staiger, Jens Gruber, Hans Scherberger, Stefan Treue, Alexander Gail, Göttingen
- T21-7D** TASK DEPENDENT MODULATIONS OF THE FRONTOPARIETAL SPIKE-FIELD COHERENCE NETWORK OF BEHAVING PRIMATES
Swathi Sheshadri, Benjamin Dann, Hansjörg Scherberger, Göttingen
- T21-8D** NEURAL ADAPTATIONS OF THE SPINAL CORD EVOKED BY CONSTANT MOTOR SKILL EXPERIENCES
Robin Diedrichs, Utku Yavuz, Francesco Negro, Deborah Falla, Arndt F. Schilling, Dario Farina, Göttingen

T22: Homeostatic and neuroendocrine systems, stress response

Wednesday

- T22-1A** ANATOMY OF THE NEUROENDOCRINE SYSTEM IN *EUSCORPIUS ITALICUS*
Anja Dünnebeil, Nikola Giese, Andrea Wirmer, Ulm
- T22-2A** BEHAVIOURAL AND PHYSIOLOGICAL FUNCTIONS OF THE BRAIN-GUT ALLATOSTATIN A PEPTIDES IN THE *DROSOPHILA* LARVA
Christian Wegener, Jiangtian Chen, Wencke Reiher, Gertrud Gramlich, Würzburg
- T22-3A** ESTROGEN MODULATION OF A SENSORIMOTOR CIRCUIT
Luke Ramage-Healey, Genglin Li, Joseph Starrett, Garrett Scarpa, Amherst, USA

Thursday

- T22-1B** IMPACT OF PACAP/PAC1 SIGNALING IN STRESS AND ANXIETY: PROMISING NOVEL TARGETS FOR THE TREATMENT OF NEUROPSYCHIATRIC DISEASES
Veronica Fontebasso, Karl Ebner, Innsbruck, Austria
- T22-2B** MORPHOLOGICALLY DIFFERENT G-CELLS WITH NEUROPOD-LIKE PROCESSES IN THE ANTRAL REGION OF THE STOMACH
Claudia Frick, Amelie Rettenberger, Malena Lunz, Johanna Bruder, Hanna Martin, Kerstin Lang, Heinz Breer, Stuttgart
- T22-3B** NORADRENERGIC MODULATION OF HYPOTHALAMIC NEURONS INVOLVED IN ENERGY HOMEOSTASIS
Lars Paeger, Ismene Karakasilioti, Sophie Steculorum, Jens C. Brüning, Peter Kloppenburg, Cologne
- T22-4B** OCTOPAMINE CONTROLS STARVATION RESISTANCE, LIFE SPAN AND METABOLIC TRAITS IN *DROSOPHILA*
Thomas Roeder, Yong Li, Jakob von Frieling, Stella Nolte, Hendrik Beck, Christine Fink, Kiel

Friday

- T22-1C** OXYTOCIN NEURONS ACTIVITY IN SOCIALLY INTERACTING RATS
Yan Tang, Diego Benusiglio, Valery Grinevich, Bonn
- T22-2C** PROSENCEPHALIC AREAS ASSOCIATED TO THE TONIC IMMOBILITY IN PIGEONS (*COLUMBA LIVIA*): A C-FOS STUDY
José Marino-Neto, Cilene Lino-de-Oliveira, Fernando Falkenburger Melleu, Florianopolis, Brazil
- T22-3C** PVN NEURONS IN MICE: IDENTIFICATION, CHARACTERISATION, LOCALISATION
Andreas Klein, Peter Kloppenburg, Cologne



Saturday

- T22-1D** REGULATION OF HYPOTHALAMIC NEURONAL FUNCTION BY GLUCOSYLCERAMIDE SYNTHASE (GCS)-DERIVED GANGLIOSIDES
Viola Nordström, Silke Herzer, Sascha Meldner, Hermann-Josef Gröne, Heidelberg
- T22-2D** SIFAMIDE ORCHESTRATES OREXIGENIC AND ANOREXIGENIC PEPTIDERGIC SIGNALS TO PROMOTE APPETITIVE AND FEEDING BEHAVIOR IN DROSOPHILA
Thomas Riemensperger, Ulrike Pech, Simon Kobbenbring, Dennis Pauls, Carlotta Martelli, Britta Bahl, Mirjam Sommer, Atefeh Pooryasin, Jonas Barth, Carmina WarthPerez Arias, Abud Farca Luna, Florian Richter, Christian Wegener, André Fiala, Göttingen
- T22-3D** THE ROLE OF THE ENDOTHELIAL CELLS IN LEPTIN TRANSPORT INTO THE BRAIN
Alessandro Di Spiezio, Helge Müller-Fielitz, Markus Schwaninger, Lübeck
- T22-4D** THE TRPM2 CHANNEL IS A HYPOTHALAMIC HEAT SENSOR THAT LIMITS FEVER AND CAN DRIVE HYPOTHERMIA
Jan Siemens, Kun Song, Hong Wang, Gretel Kamm, Jörg Pohle, Fernanda de Castro Reis, Paul Heppenstall, Hagen Wende, Heidelberg

T23: Neural networks and rhythm generators

Wednesday

- T23-1A** ACTIVATION AND TERMINATION OF RHYTHMIC ACTIVITY IN A LOCOMOTOR NETWORK
Felix Clotten, Carmen R. Smarandache-Wellmann, Cologne
- T23-2A** ALTERED PROPERTIES OF SHARP-WAVE-RIPPLES IN THE SUBICULUM OF MICE THAT UNDERWENT KAINATE-INDUCED STATUS EPILEPTICUS
Kristina Lippmann, Anna Maslarova, Zin-Juan Klafft, Seda Salar, Jan-Oliver Hollnagel, Anton Rösler, Uwe Heinemann, Leipzig
- T23-3A** BISTABILITY AND COMPLEXITY IN THE CORTICAL NETWORK IN VIVO
Julia Franziska Weinert, Mattia D'Andola, Lorena Perez-Mendez, Adenauer Casali, Maria V. Sanchez-Vives, Barcelona, Spain
- T23-4A** CENTRAL AND PERIPHERAL CLOCKS ARE COUPLED BY A NEUROPEPTIDE PATHWAY IN DROSOPHILA
Mareike Selcho, Carola Millán, Angelina Palacios-Munoz, Franziska Ruf, Lilian Ubillo, Jiangtian Chen, Gregor Bergmann, Chihiro Ito, Valeria Silva, John Ewer, Christian Wegener, Würzburg

- T23-5A** CHARACTERIZATION OF PARVALBUMIN (PV+) FAST-SPIKING BASKET CELLS ALONG THE DORSO-VENTRAL AXIS OF THE MEDIAL ENTORHINAL CORTEX
Sabine Grosser, Federico J. Barreda, Sam Booker, Prateep Beed, Dietmar Schmitz, Imre Vida, Berlin
- T23-6A** CHARACTERIZATION OF THE DAILY BEHAVIOR IN SINGLE HIPPOCAMPAL NEURONS
Sinem Meleknur Sertel, Silvio O. Rizzoli, Göttingen
- T23-7A** CIRCADIAN PACEMAKER NEURONS IN THE MADEIRA COCKROACH *RHYPAROBIA MADERAE* IN VIVO SHOW A PROMINENT EVENING PEAK IN THEIR ELECTRICAL ACTIVITY THAT IS DELAYED AND ENHANCED VIA PIGMENT-DISPERSING FACTOR
Monika Stengl, Julia Gestrich, HongYing Wei, Kassel
- T23-8A** COMPARATIVE ANALYSIS OF THE CIRCADIAN CLOCK IN SELECTED DIPTERA SPECIES
Pamela Menegazzi, Enrico Bertolini, Marta Beauchamp, Charlotte Helfrich-Foerster, Würzburg
- T23-9A** COMPONENTS OF THE MOLECULAR CIRCADIAN CLOCKWORK IN THE COCKROACH *RHYPAROBIA MADERAE*
Achim Werckenthin, Susanne Koziarek, Markus Brand, Monika Stengl, Kassel

Thursday

- T23-1B** CONSEQUENCES OF ALTERED DENDRITIC ARBORIZATION IN HIPPOCAMPAL CA1 PYRAMIDAL CELLS—LINKING MOLECULAR SIGNALING, NEURONAL MORPHOLOGY AND ELECTRICAL SIGNATURES
Jana Maurer, Daniela Mauceri, Antonio Yanez, Andreas Draguhn, Hilmar Bading, Martin Both, Heidelberg
- T23-2B** COORDINATED ACTIVITY OF MITRAL CELLS IN THE OLFACTORY BULB CONTROLS THE OSCILLATORY ENTRAINMENT OF LATERAL ENTORHINAL CORTEX DURING EARLY DEVELOPMENT
Johanna Katharina Kostka, Sabine Gretenkord, Ileana L. Hanganu-Opatz, Hamburg
- T23-3B** COORDINATED GAMMA OSCILLATIONS IN THE LATERAL SEPTUM AND THE LATERAL HYPOTHALAMUS DRIVE FOOD SEEKING
Marta Carus-Cadavieco, Maria Gorbati, Suzanne van der Veldt, Franziska Bender, Natalia Denisova, Franziska Ramm, Karl Deisseroth, Alexey Ponomarenko, Tatiana Korotkova, Berlin
- T23-4B** CROSSTALK BETWEEN ADIPOKINETIC HORMONE AND OCTOPAMINE TO MODULATE LOCOMOTOR ACTIVITY AND SLEEP IN *DROSOPHILA MELANOGASTER*
Dennis Pauls, Johanna Räderscheidt, Mareike Selcho, Christiane Hermann-Luibl, Charlotte Förster, Markus Krischke, Martin J. Müller, Christian Wegener, Würzburg



- T23-5B** DETERMINATION OF THE SPIKE DISCHARGE PATTERN IN INTERNEURONS AND PYRAMIDAL CELLS: A PROPOSAL FOR A STANDARDIZED EXPERIMENTAL PROTOCOL
Bernd Sutor, Therese Riedemann, Martinsried
- T23-6B** DIFFERENTIAL TUNING OF NEURONS COORDINATING NEURAL OSCILLATORS
Anna C. Schneider, Felix Blumenthal, Carmen R. Smarandache-Wellmann, Cologne
- T23-7B** ELECTROPHYSIOLOGICAL AND OPTOGENETIC METHODS TO TRACE CONNECTIONS AND INPUTS/OUTPUTS OF THE DROSOPHILA CLOCK
Edgar Buhl, Exeter, UK
- T23-8B** EXPRESSION PATTERN OF THE NEUROTRANSMITTER GABA IN THE CIRCADIAN CLOCK OF THE MADEIRA COCKROACH RHYPAROBIA MADERAE WITH FOCUS ON GABA'S ROLE IN LIGHT ENTRAINMENT
Azar Massah, Monika Stengl, Kassel

Friday

- T23-1C** GAMMA-RHYTHMIC INPUT FROM MEDIAL PREFRONTAL CORTEX TO THE LATERAL SEPTUM REGULATES PERFORMANCE IN A FOOD-REWARDED LEARNING TASK
Maria Gorbati, Yubin Hu, Marta Carus-Cadavieco, Franziska Bender, Alexey Ponomarenko, Tatiana Korotkova, Berlin
- T23-2C** GENE EXPRESSION IN THE PLASTIC BRAIN OF THE PYGMY SHREW (SOEY MINUTUS)
Moritz Hertel, Javier Lazaro, Marion Muturi, Bernd Timmermann, Dina Dechmann, Seewiesen
- T23-3C** GRADIENT OF SYNAPIC STRENGTH: A MATTER OF SYNAPSES?
Felix Blumenthal, Carmen R. Smarandache-Wellmann, Cologne
- T23-4C** HOMEOSTATIC SCALING OF H-CURRENT IN CA1 INTERNEURONS
Dmitri Yousef Yengej, Arnie Boender, Wytse Wadman, Amsterdam, Netherlands
- T23-5C** IDENTIFICATION OF SEVERAL SOMATOSTATIN-EXPRESSING INTERNEURON SUBTYPES IN THE ANTERIOR CINGULATE CORTEX OF THE MOUSE USING QUANTITATIVE CLASSIFICATION
Therese Riedemann, Bernd Sutor, Martinsried
- T23-6C** I_h AND I_i INVOLVED IN RHYTHM GENERATION AND COORDINATION OF NEURONAL ACTIVITY
Laura Schläger, Carmen R. Smarandache-Wellmann, Cologne
- T23-7C** INFERRING NEURONAL COUPLINGS FROM DYNAMIC SINGLE-TRIAL SPIKING DATA
Christian Donner, Klaus Obermayer, Manfred Opper, Berlin

- T23-8C** INFLUENCE OF CARBACHOL ON FIRING OF DOPAMINERGIC NEURONS LACKING NR1 SUBUNIT OF NMDA RECEPTOR
Magdalena Walczak, Kamila Jastrzebska, Jan Rodriguez Parkitna, Tomasz Blasiak, Cracow, Poland

Saturday

- T23-1D** INTRACELLULAR CALCIUM RESPONSES TO THE NEUROTRANSMITTER GABA IN CIRCADIAN PACEMAKER NEURONS OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*
Maria Giese, Julia Gestrich, HongYing Wei, Monika Stengl, Kassel
- T23-2D** NEURONAL CORRELATES OF SOCIAL BEHAVIOR IN MUSHROOM BODY EXTRINSIC NEURONS
Inga Fuchs, Aron Duer, Isabella Hillmer, Benjamin H. Paffhausen, Randolph Menzel, Berlin
- T23-3D** OPTOGENETIC DISSECTION OF CELLULAR INTERACTIONS UNDERLYING PREFRONTAL-HIPPOCAMPAL COUPLING IN NEONATAL MICE
Joachim Ahlbeck, Ileana L. Hanganu-Opatz, Hamburg
- T23-4D** PIGMENT-DISPERSING FACTOR-IMMUNOREACTIVE NEURONS IN THE MADEIRA COCKROACH ARE DIFFERENTIALLY MODULATED VIA THEIR OWN PEPTIDE
Julia Yvonne Gestrich, Wen Shen, Maria Giese, Monika Stengl, HongYing Wei, Kassel
- T23-5D** RIPPLES IN HIPPOCAMPAL INHIBITORY NETWORKS IN SILICO AND IN VITRO: FREQUENCY DYNAMICS AND RESPONSE TO GABA MODULATORS
Jose R. Donoso, Nikolaus Maier, Dietmar Schmitz, Richard Kempter, Berlin
- T23-6D** SLOWING OF THETA BAND ACTIVITY IN THE EPILEPTIC HIPPOCAMPAL FORMATION
Antje Kilius, Ute Häussler, Katharina Heining, Carola A. Haas, Ulrich Egert, Freiburg
- T23-7D** THE CIRCADIAN CLOCK OF *C. FLORIDANUS*: PER AND PDF EXPRESSION IN THE BRAIN
Janina Kay, Pamela Menegazzi, Eva Winnebeck, Charlotte Helfrich-Foerster, Würzburg
- T23-8D** RETRACTED
- T23-9D** USING METABOLIC STRESS FOR CHARACTERIZATION OF PYRAMIDAL CELL ENSEMBLES DURING HIPPOCAMPAL GAMMA OSCILLATIONS
Shehabeldin Elzoheiry, Jan-Oliver Hollnagel, Andrea Lewen, Oliver Kann, Heidelberg



T24: Attention, motivation, emotion and cognition

Wednesday

- T24-1A** AMBIENT NOISE INDUCES RAPID CHANGES IN SEVERAL CALL PARAMETERS IN VOCALIZING MARMOSET MONKEYS
Thomas Pomberger, Cordula Gloge, Steffen R. Hage, Tübingen
- T24-2A** ASSESSING THE ROLE OF BARREL CORTEX PARVALBUMIN-POSITIVE INTERNEURONS IN WHISKER DETECTION AND DISCRIMINATION BEHAVIOR
Nuria Benito, Jens Raymond Vandavelde, Jenq-Wei Yang, Maik C. Stüttgen, Heiko J. Luhmann, Mainz
- T24-3A** ATTENTION CHANGES FIRING PROPERTIES OF CELLS IN THE CENTRAL-COMPLEX OF FREELY HUNTING PRAYING MANTISES
Anne Wosnitza, Joshua P. Martin, Alan J. Pollack, David J. Bertsch, Roy E. Ritzmann, Cleveland, USA
- T24-4A** CAN DC STIMULATION ENHANCE SELECTIVE AUDITORY SPATIAL ATTENTION IN COCKTAIL-PARTY SITUATIONS? A COMBINED TDCS, ERP AND PSYCHOPHYSICS STUDY
Christina Hanenberg, Stephan Getzmann, Jörg Lewald, Dortmund
- T24-5A** CENTRAL AMYGDALA CIRCUIT MEDIATES OBSERVATIONAL TRANSFER OF FEAR
Kacper Kondrakiewicz, Karolina Rokosz, Karolina Ziegart-Sadowska, Joanna Sadowska, Ewelina Knapska, Warsaw, Poland
- T24-6A** COGNITION, BUT NOT PERSONALITY, IS RELATED TO FAECAL STRESS HORMONE METABOLITES IN THE SMALLEST NON-HUMAN PRIMATE AGING MODEL (MICROCEBUS MURINUS)
Daniel Schmidtke, Jennifer Wittkowski, Sandra Ammersdorfer, Michael Heistermann, Elke Zimmermann, Hannover
- T24-7A** COMPARATIVE CHARACTERISTICS OF AUDITORY AND VISUAL EMOTION PERCEPTION IN THE PRIMARY SCHOOL AGE CHILDREN AND THEIR IMPACT ON SCHOLASTIC PERFORMANCE
Elena Dmitrieva, Victor Gelman, Maria Anderson, St. Petersburg, Russia
- T24-8A** CHANGES OF THE C-FOS AND P-CREB/CREB RATIO IN THE NUCLEUS ACCUMBENS, HIPPOCAMPUS AND PREFRONTAL CORTEX DURING EXTINCTION AND REINSTATEMENT OF MORPHINE-INDUCED CONDITIONED PLACE PREFERENCE: THE ROLE OF NMDA RECEPTOR
Ali Siahposht-Khachaki, Ramsar, Iran

Thursday

- T24-1B** COMPARISON OF OPTOGENETIC AND ELECTRICAL INTRACRANIAL SELF-STIMULATION OF THE VTA IN MICE
Theresa Christiane Sofia Weidner, Daniel Vincenz, Marta Brocka, Jennifer Tegtmeier, Jürgen Goldschmidt, Frank W. Ohl, Michael T. Lippert, Magdeburg
- T24-2B** EFFECTS OF REWARD-ASSOCIATED, TASK-IRRELEVANT UNIMODAL AND BIMODAL DISTRACTORS ON TARGET-DIRECTED OCULOMOTOR TASK
Felicia Pei-Hsin Cheng, Adem Saglam, Arezoo Pooresmaeili, Göttingen
- T24-3B** ELECTROPHYSIOLOGICAL SIGNATURES OF NEGATIVE AND POSITIVE POLARITY PROCESSING IN GERMAN SENTENCE COMPREHENSION
Mingya Liu, Peter König, Jutta L. Mueller, Osnabrück
- T24-4B** HABENULA AND INTERPEDUNCULAR NUCLEUS DIFFERENTIALLY MODULATE ODOR-INDUCED INNATE FEAR BEHAVIOR: IN VIVO SPECT-IMAGING AND LESION STUDIES
Jürgen Goldschmidt, Daniel Vincenz, Kerstin Wernecke, Markus Fendt, Magdeburg
- T24-5B** IMAGING THE FUNCTIONAL NETWORKS ACTIVATED BY OPTOGENETIC STIMULATION OF THE VTA IN RATS
Marta Jadwiga Brocka, Daniel Vincenz, Cornelia Helbing, Jürgen Goldschmidt, Frank Ohl, Frank Angenstein, Michael Lippert, Magdeburg
- T24-6B** IN-HIVE MONITORING OF SOCIAL COMMUNICATION BY ELECTROSTATIC FIELDS IN COMMON HONEYBEE COLONIES
Aron Duer, Karén Haink, Benjamin Paffhausen, Randolf Menzel, Berlin
- T24-7B** INTERACTIVE EFFECT OF MENSTRUAL CYCLE AND DOPAMINE BASELINE LEVELS ON STROOP AND N-BACK TASKS
Esmeralda Hidalgo-Lopez, Belinda Pletzer, Salzburg, Austria
- T24-8B** MEDIAL ORBITOFONTAL CORTEX MEDIATES EFFORT-RELATED RESPONDING IN RATS
Alexandra Münster, Wolfgang Hauber, Stuttgart

Friday

- T24-1C** MODELS OF THE EMOTIONAL FACE PERCEPTION - REPRODUCIBILITY AND GENERALIZABILITY
Roman Kessler, Kristin M. Zimmermann, Kim C. Wende, Verena Schuster, Andreas Jansen, Marburg
- T24-2C** MODIFIED SWIM TEST AS A MODEL OF ENHANCED CONTEXTUAL CONDITIONING DURING DEPRESSION: EXPRESSION OF GSK3 BETA AND EFFECTS OF ANTI-DEPRESSANT TREATMENT
Nataliia Markova, Elena Shevtsova, Julie Vignisse, Olga Zubareva, Daniel Anthony, Lucien Bettendorff, Klaus-Peter Lesch, Tatyana Strekalova, Chernogolovka, Russia



- T24-3C** NEURAL ACTIVITY UNDERLYING INTERVAL TIMING IN RODENT PREFRONTAL CORTEX
Kay Thurley, Josephine Henke, Martinsried
- T24-4C** NEURAL INTEGRATION OF APPETITIVE AND AVERSIVE OUTCOMES IN PERCEPTUAL DECISION MAKING IN THE RAT
Vanya Valkanova Stoilova, Evelyn Rieber, Andrea Dietl, Maik Christopher Stüttgen, Mainz
- T24-5C** NEURAL MECHANISMS OF COGNITIVE CONTROL: INSIGHTS FROM SIMULTANEOUS EEG-FMRI RECORDING
Malte Rudo Güth, Peer Herholz, José Carlos García Alanis, Martin Peper, Jens Sommer, Marburg
- T24-6C** NEURONAL CIRCUITS INVOLVED IN APPETITIVE SOCIAL INTERACTIONS
Karolina Ziegart-Sadowska, Karolina Rokosz, Kacper Kondrakiewicz, Joanna Sadowska, Ewelina Knapska, Warsaw, Poland
- T24-7C** PHILOSOPHICAL CONSIDERATIONS ON DIFFERENCES IN PREY CAPTURE BEHAVIOURAL PATTERNS OF ADULT MALE CUTTLEFISH (*SEPIA OFFICINALIS*)
Laura Desiree Di Paolo, Francesca Zoratto, Giulia Cordeschi, Enrico Alleva, Göttingen
- T24-8C** PROBING OXYTOCIN NEURONS ACTIVITY IN SOCIALLY INTERACTING RATS
Diego Benusiglio, Yan Tang, Valery Grinevich, Heidelberg

Saturday

- T24-1D** RELIEF LEARNING IN RATS IS MEDIATED BY A PMVTA-NAC PROJECTION
Markus Fendt, Dana Mayer, Evelyn Kahl, Magdeburg
- T24-2D** SELECTIVE ATTENTION IN TONE-IN-NOISE DETECTION IN MICE
Inga Rauser, Lasse Osterhagen, K. Jannis Hildebrandt, Oldenburg
- T24-3D** SEROTONIN UNDERLIES LONG-TERM DEPRESSION OF AGGRESSION AFTER CHRONIC SOCIAL DEFEAT IN CRICKETS
Paul A. Stevenson, Jacqueline Rose, Jan Rillich, Leipzig
- T24-4D** SEX DIFFERENCES IN PERSPECTIVE AND STRATEGY DURING VIRTUAL NAVIGATION IN A NEW 3D MATRIX NAVIGATION TASK
TiAnni Harris, Belinda Pletzer, Salzburg, Austria
- T24-5D** SEX DIFFERENCES IN THE KIMCHI-PALMER TASK REVISITED: A POSSIBLE ROLE OF IMPULSIVITY
Andrea Scheuringer, Belinda Pletzer, Salzburg, Austria
- T24-6D** THE EFFECT OF CANNABINOID SYSTEM IN THE ANTERIOR CINGULATE CORTEX ON EFFORT-BASED DECISION MAKING MEDIATES PARTLY VIA TRPV1 RECEPTORS
Zahra Fatahi Vanani, Abbas Haghparast, Zahra Reisi, Abbas Khani, Tehran, Iran

- T24-7D** THE EFFECT OF NORADRENALINE ON THE INTERPLAY BETWEEN ATTENTION AND MOTIVATION
Kristin Kaduk, Tiphaine Henry, Gislene Gardechaux, Martine Meunier, Fadila Hadj-Bouziane, Lyon, France

T25: Learning and memory

Wednesday

- T25-1A** CALCIUM IMAGING OF LEARNING-INDUCED PLASTICITY IN SINGLE KENYON CELLS IN *DROSOPHILA MELANOGASTER*
Florian Bilz, André Fiala, Göttingen
- T25-2A** DESERT ANTS CONSIDER LANDMARK AMBIGUITY
Roman Huber, Markus Knaden, Bill S. Hansson, Jena
- T25-3A** DISCRETE GREGARISING STIMULI ELICIT SEROTONIN RELEASE IN THE METATHORACIC GANGLION OF THE DESERT LOCUST *SCHISTOCERCA GREGARIA*
Georgina Fenton, Tom Matheson, Swidbert R. Ott, Leicester, UK
- T25-4A** FAMILIARITY AND AGE INTERACT TO AFFECT LOCOMOTORY HESITATION IN SOLITARIOUS DESERT LOCUSTS (*SCHISTOCERCA GREGARIA*)
Rien De Keyser, Chanida Fung, Tom Matheson, Swidbert R. Ott, Leicester, UK
- T25-5A** GENETIC LABELING OF MEMORY ENGRAM CELLS IN ASSOCIATIVE LEARNING
Anne Voigt, Yoshinori Aso, Gerald M. Rubin, Ashburn, USA
- T25-6A** IDENTIFICATION AND LOCALIZATION OF NEUROPEPTIDES IN THE BRAIN OF *CATAGLYPHIS* DESERT ANTS USING IMAGING MASS SPECTROMETRY
Jens Habenstein, Franziska Schmitt, Reinhard Predel, Christian Wegener, Wolfgang Rössler, Susanne Neupert, Würzburg
- T25-7A** INDUCTION OF ASSOCIATIVE ODOR MEMORIES BY OPTOGENETIC ACTIVATION OF KENYON CELLS IN *DROSOPHILA MELANOGASTER* LARVAE
Radostina Lyutova, Dennis Segebarth, Jens Habenstein, Anthi Apostolopoulou, Andreas Thum, Christian Wegener, Dennis Pauls, Würzburg
- T25-8A** LEARNING AND MODULATION OF FEEDING FOR AMINO ACIDS IN *DROSOPHILA*
Naoko Toshima, Michael Schleyer, Daisuke Miura, Nana Kudow, Teiichi Tanimura, Bertram Gerber, Magdeburg
- T25-9A** LEARNING THE SPECIFIC QUALITY OF TASTE REINFORCEMENT IN LARVAL *DROSOPHILA*
Michael Schleyer, Timo Saumweber, Melisa Kantar, Juliane Thöner, Archana Durairaja, Marta Zlatic, James W. Truman, Andreas S. Thum, Magdeburg



T25-10A LOCOMOTOR ACTIVITY AND PHOTOTAXIS ARE INFLUENCED BY THE NEUROPEPTIDES ALLATOSTATIN A AND ALLATOTROPIN AND BY LIGHT EXPOSURE IN THE DESERT ANT *CATAGLYPHIS NODA*
Myriam Franzke, Franziska Schmitt, Wolfgang Rössler, Würzburg

T25-11A MEMORY CONSOLIDATION AT THE COST OF SPECIFICITY
Mathangi Ganesan, Emmanuel Antwi-Adjei, Christian König, Archana Durairaja, Kasyoka Kilonzo, Vignesh Viswanathan, Anne Voigt, Ayse Yarali, Magdeburg

Thursday

T25-1B NEURAL CIRCUIT ANALYSES OF RELIEF LEARNING IN FRUIT FLIES
Christian König, Afshin Khalili, Mathangi Ganesan, Archana Durairaja, Rahaf Al Hafez, Priya Prabhakar, Hatice Basirli, Yoshinori Aso, Gerald Rubin, Ayse Yarali, Magdeburg

T25-2B OPERANT AND CLASSICAL CONDITIONING OF THE COCKROACH *PERIPLANETA AMERICANA* IN A FORCED CHOICE TASK
Cansu Arican, Alice Dahloff, Martin Nawrot, Cologne

T25-3B PRINCIPALS OF OLFACTORY-VISUAL INTEGRATION TO FORM A COMMON PERCEPT
Mira C. Becker, Wolfgang Rössler, Martin Strube-Bloss, Würzburg

T25-4B PROBING FOR 'COGNITIVE ENHANCEMENT' BY *RHODIOLA ROSEA*
Birgit Michels, Hanna Zwaka, Ruth Bartels, Oleh Lushchak, Katrin Franke, Randolph Menzel, Ludger Wessjohann, Bertram Gerber, Magdeburg

T25-5B RE-EVALUATION OF LEARNED INFORMATION IN *DROSOPHILA*
Johannes Felsenberg, Oliver Barnstedt, Paola Cognigni, Suewei Lin, Scott Waddell, Oxford, UK

T25-6B RELIEF LEARNING REQUIRES A COINCIDENT ACTIVATION OF DOPAMINE D1 AND NMDA RECEPTORS WITHIN THE NUCLEUS ACCUMBENS
Jorge Ricardo Bergado Acosta, Evelyn Kahl, Georgios Kogias, Taygun C. Uzuneser, Markus Fendt, Magdeburg

T25-7B ROLE OF DORSAL HIPPOCAMPUS CATECHOLAMINE SIGNALING IN PAIRED-ASSOCIATES LEARNING AND PLACE LEARNING
Wolfgang Hauber, Corinna Roschlau, Stuttgart

T25-8B ROLE OF NOGO-A SIGNALING IN REGULATING SPATIAL LEARNING AND MEMORY FORMATION BY MODULATING HIPPOCAMPAL PARVALBUMIN (PV)-INTERNEURON NETWORKS
Steffen Fricke, Niklas Lonnemann, Yves Kellner, Kristin Metzdorf, Martin Korte, Marta Zagrebelsky, Braunschweig

T25-9B RETRACTED

T25-10B SOMATOSTATIN-EXPRESSING INTERNEURONS IN THE DENTATE GYRUS ARE REQUIRED FOR SPATIAL MEMORY PRECISION
Gilda Baccini, Kira Balueva, Katherine L. Cole, Katharina Bohle, Angelica Foggetti, Thomas Schiffelholz, Peer Wulff, Kiel

T25-11B THE ROLE OF FULL-LENGTH AMYLOID PRECURSOR PROTEIN-LIKE (APPL) IN DROSOPHILA SHORT-TERM MEMORY FORMATION
Franziska Rieche, Katia Carmine-Simmen, Burkhard Poeck, Doris Kretzschmar, Roland Strauss, Mainz

Friday

T25-1C THE ROLE OF SEROTONIN IN BEHAVIOURAL PHASE TRANSITION IN THE DESERT LOCUST
Jonathan Mark Smith, Rien de Keyser, Chanida Fung, Swidbert R. Ott, Tom Matheson, Leicester, UK

T25-2C THE TIMING OF THE INTERIOR-EXTERIOR TRANSITION IN CAMPONOTUS RUFIPES ANT WORKERS AND ITS UNDERLYING NEURONAL CORRELATES
Annekathrin Lindenberg, Stephanie Mildner, Flavio Roces, Christian Stigloher, Wolfgang Rössler, Claudia Groh, Würzburg

T25-3C TIME-DEPENDENT REINFORCEMENT EFFECT OF DOPAMINERGIC NEURONS
Archana Durairaja, Edanur Shen, Anne Voigt, Ayse Yarali, Bertram Gerber, Michael Schleyer, Magdeburg

T25-4C CHANGES IN NEURONAL PLASTICITY AND BRAIN MORPHOLOGY IN LEPTIN-DEFICIENT (OB/OB) MICE
Alexander Bracke, Steffen Harzsch, Oliver von Bohlen und Halbach, Greifswald

T25-5C CHOLINERGIC REGULATION OF HIPPOCAMPAL NETWORK OSCILLATIONS
Jan-Oliver Hollnagel, Rizwan ul Haq, Sabine Grosser, Bifeng Wu, Agustín Liotta, Christoph J. Behrens, Dietmar Schmitz, Nikolaus Maier, Uwe Heinemann, Heidelberg

T25-6C CIRCUIT PROCESSING IN RODENT AUDITORY CORTEX UNDERLYING COMPLEX AUDITORY LEARNING
Maria-Marina Zempeltzi, Michael Brunk, Frank Ohl, Matthias Deliano, Max Happel, Magdeburg

T25-7C DUETS IN AFRICA: WIRELESS MICROPHONES ON FREE LIVING WHITE-BROWED SPARROW WEAVERS
Lisa Trost, Cornelia Voigt, Stefan Leitner, Susanne Hoffmann, Andries ter Maat, Seewiesen

T25-8C DYNAMIC COMPUTATION OF HIERARCHICAL PREDICTION ERRORS DURING SEQUENCE LEARNING
Rong Guo, Felix Blankenburg, Klaus Obermayer, Berlin

T25-9C EFFECTS OF ANODAL TDCS ON AUDITORY LEARNING
Gonzalo Arias Gil, Anja Oelschlegel, Michael T. Lippert, Jürgen Goldschmidt, Frank W. Ohl, Kentaroh Takagaki, Magdeburg



- T25-10C** EFFECTS OF C-FOS MANIPULATION IN THE CENTRAL AMYGDALA ON APPETITIVE LEARNING
Tomasz Lebitko, Hubert Madej, Tomasz Jaworski, Anna Suska, Kacper Kondrakiewicz, Ewelina Knapska, Leszek Kaczmarek, Warsaw, Poland
- T25-11C** EXPERIENCE INDUCES RAPID NUCLEUS-SCALE MOVEMENTS OF CHROMATIN IN MOUSE AUDITORY CORTEX NEURONS
Simon Rumpel, Thomas Burkard, Florian Grössel, Wulf Haubensak, Dominik Aschauer, Manuel Peter, Mainz

Saturday

- T25-1D** EXTRACELLULAR MATRIX IN AUDITORY CORTEX: IMPACT ON REMOTE MEMORY CONTROL AND LEARNING FLEXIBILITY IN ADULT RODENTS
Hartmut Niekisch, Julia Steinhardt, Julia Berghäuser, Jana Kasper, Erika Kaschinski, Sara Bertazzoni, Judith Weber, Renato Frischknecht, Max Happel, Magdeburg
- T25-2D** FUNCTIONAL AND SPATIAL ORGANIZATION OF HIPPOCAMPAL ASSEMBLIES IN VIVO
Susanne Reichinnek, Caroline Haimerl, David Angulo, Rosa Cossart, Marseille, France
- T25-3D** INJURY OF GABAERGIC INTERNEURONS AND BEHAVIORAL DEFICITS IN MICE AFTER POSTNATAL EXPOSURE TO HIGH OXYGEN AS A MODEL OF NEUROPSYCHOLOGICAL SYMPTOMS IN FORMER PRETERM INFANTS
Till Scheuer, Susanne A. Wolf, Daniele Mattei, Stefanie Endesfelder, Christoph Bührer, Helmut Kettenmann, Thomas Schmitz, Berlin
- T25-4D** INVOLVEMENT OF THE PREFRONTAL-THALAMIC-HIPPOCAMPAL NETWORK IN A TOUCH SCREEN BASED WORKING MEMORY TASK
Johanne Gertrude de Mooij-van Malsen, Thomas Schiffelholz, Peer Wulff, Kiel
- T25-5D** LEARNING ENABLES VIEW-INVARIANT PREDICTION ERRORS IN MONKEY FACE PATCH ML
Caspar Martin Schwiedrzik, Winrich Freiwald, New York, USA
- T25-6D** LONG-TERM PLASTICITY AND FEAR LEARNING IN ADULT HETEROZYGOUS BDNF KNOCKOUT MICE
Thomas Endres, Thomas Munsch, Volkmar Lessmann, Susanne Meis, Magdeburg
- T25-7D** SPATIAL LONG-TERM MEMORY AND MODULATION OF NMDA RECEPTOR SUBUNIT EXPRESSION IN MEDIAL SEPTAL CHOLINERGIC AND NONCHOLINERGIC NEURONS LESIONED RATS
Lali Kruashvili, Maia Burjanadze, Mariam Chighladze, Tbilisi, Georgia
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T26: Computational neuroscience

Wednesday

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Silke Kreitz, Benito de Celis Alonso, Michael Uder, Andreas Hess, Erlangen
- T26-2A** AN EVALUATION OF TWO SPIKE SORTING ALGORITHMS: HEPTODE SPIKE SORTER VERSUS WAVECLUS
Roman Eppinger, Thomas Schanze, Gießen
- T26-3A** AN OPEN SOURCE TOOL FOR AUTOMATIC SPATIO-TEMPORAL ASSESSMENT OF CALCIUM TRANSIENTS AND LOCAL 'SIGNAL-CLOSE-TO-NOISE' ACTIVITY FROM CALCIUM IMAGING DATA
Manju Sasi, Juan Pablo Prada Salcedo, Würzburg
- T26-4A** ANALYZING AND COMPARING HIGH-DIMENSIONAL SPATIOTEMPORAL CORTICAL ACTIVATION PATTERNS
Patrick Krauss, Claus Metzner, Achim Schilling, Achim Schilling, Maximilian Traxdorf, Volker Eulenburg, Holger Schulze, Erlangen
- T26-5A** APPROACHES TO INVERSELY ESTIMATE A NEURONAL SOURCE'S POSITION WITH MULTICHANNEL MICRO-ELECTRODES
Martin Nguyen, Thomas Schanze, Gießen
- T26-6A** CAN THE BIOLOGICALLY MECHANISTIC MODEL GENERATE PINWHEEL LAYOUTS WITH COMMON DESIGN FEATURES ?
Wenqi Wu, Juan Daniel Flórez Weidinger, Fred Wolf, Göttingen
- T26-7A** COUPLING OF ACTION POTENTIALS IN PRIMATE VISUAL CORTEX TO LOW FREQUENCY LOCAL FIELD POTENTIALS
Mohammad Zarei, Mohammad Reza Daliri, Mehran Jahed, Stefan Treue, Moein Esghaei, Tehran, Iran



Thursday

- T26-1B** COMBINATIONAL INTRACORTICAL DECODER OF FORELIMB FORCE IN FREELY MOVING RATS
Abed Khorasani Sarcheshmehesmaeilabad, Vahid Shalchyan, Mohammad Reza Daliri, Tehran, Iran
- T26-2B** DETECTING CHANGES IN THE INTENSITY AND REGULARITY OF NEURONAL SPIKE TRAINS
Michael Messer, Stefan Albert, Julia Schiemann, Jochen Roeper, Gaby Schneider, Frankfurt/Main
- T26-3B** DETECTION OF SPIKE PATTERNS IN MASSIVELY PARALLEL SPIKE TRAINS
Pietro Quaglio, Alper Yegenoglu, Emiliano Torre, Michael Denker, Thomas Brochier, Alexa Riehle, Sonja Grün, Jülich
- T26-4B** DETERMINANTS OF SPIKE TIME PRECISION - DIFFERENTIAL EFFECTS OF CELL MORPHOLOGY, ION CHANNEL VOLTAGE DEPENDENCE AND KINETICS
Barbara Feulner, Chenfei Zhang, Lenka Vaculciaková, Fred Wolf, Andreas Neef, Göttingen
- T26-5B** DISTRIBUTIONS OF COVARIANCES AS A WINDOW INTO THE OPERATIONAL REGIME OF NEURONAL NETWORKS
David Dahmen, Markus Diesmann, Moritz Helias, Jülich
- T26-6B** ELIMINATION OF A LIGAND GATING SITE GENERATES A SUPERSENSITIVE OLFACTORY RECEPTOR
Kanika Sharma, Gaurav Ahuja, Ashiq Hussain, Sabine Balfanz, Arnd Baumann, Sigrun Korsching, Cologne
- T26-7B** EXTENDING INTEGRATE-AND-FIRE MODEL NEURONS TO ACCOUNT FOR THE EFFECTS OF WEAK ELECTRIC FIELDS AND INPUT FILTERING MEDIATED BY THE DENDRITE
Florian Aspart, Josef Ladenbauer, Klaus Obermayer, Berlin
- T26-8B** *IN SILICO* EXPLORATION OF FUNCTIONAL NETWORKS UNDERLYING BEHAVIORAL TRAITS
Florian Johann Ganglberger, Joanna Kaczanowska, Josef M. Penninger, Andreas Hess, Katja Bühler, Wulf Haubensak, Vienna, Austria

Friday

- T26-1C** GRADED PERSISTENT ACTIVITY MEDIATED BY ION CHANNEL COOPERATIVITY
Paul Pfeiffer, Jan-Hendrik Schleimer, Susanne Schreiber, Berlin
- T26-2C** IMPLEMENTATION OF NEURAL DIVERSITY FOR COMPUTER SIMULATIONS OF NEURONAL EXCITABILITY AND SYNCHRONIZATION
Aubin Tchaptchet, Hans Albert Braun, Marburg
- T26-3C** JOINT PAUSINESS IN PARALLEL SPIKE TRAINS
Matthias Gärtner, Sevil Duvarci, Jochen Roeper, Gaby Schneider, Frankfurt/Main

- T26-4C** LONG-TERM INFORMATION STORAGE BY THE COLLECTIVE DYNAMICS OF MULTI-SYNAPTIC CONNECTIONS
Christian Tetzlaff, Michael Fauth, Florentin Wörgötter, Göttingen
- T26-5C** LOW-DIMENSIONAL SPIKE RATE MODELS DERIVED FROM NETWORKS OF ADAPTIVE INTEGRATE-AND-FIRE NEURONS: COMPARISON AND IMPLEMENTATION
Fabian Baumann, Moritz Augustin, Josef Ladenbauer, Klaus Obermayer, Berlin
- T26-6C** MODELING THE EFFECT OF PHASE-TRIGGERED TRANSCRANIAL MAGNETIC STIMULATION ON MOTOR CORTEX
Jochen Triesch, Natalie Schaworonkow, Frankfurt/Main
- T26-7C** NON-LINEAR COMPUTATION AND ESTABLISHMENT OF CONTRAST INVARIANCE IN SPATIALLY STRUCTURED RECURRENT BALANCED NETWORKS
Laura Bernáez Timón, Sara Konrad, Tatjana Tchumatchenko, Frankfurt/Main

Saturday

- T26-1D** PROPERTIES OF DENDRITIC TREES UNDER DIFFERENT BRANCH ORDERING SCHEMES
Alexandra Vormberg, Felix Effenberger, Julia Muellerleile, Hermann Cuntz, Frankfurt/Main
- T26-2D** SIMULATING LARGE-SCALE HUMAN BRAIN NETWORKS WITH A MEAN-FIELD MODEL OF EIF NEURONS: EXPLORING RESTING STATE FC AND STIMULATION WITH ELECTRIC FIELDS
Caglar Cakan, Josef Ladenbauer, Florian Aspart, Michael Schirner, Simon Rothmeier, Petra Ritter, Klaus Obermayer, Berlin
- T26-3D** SPIKE TIME PRECISION OF DIFFERENT NEURON CLASSES – INFLUENCE OF MORPHOLOGY AND ION CHANNELS
Andreas Neef, Carolina León Pinzón, Ricardo Martins Merino, Walter Stühmer, Fred Wolf, Göttingen
- T26-4D** TEMPERATURE-ROBUST COMPUTATION WITH SIMPLE NETWORK MOTIFS
Pia Rose, Jan-Hendrik Schleimer, Susanne Schreiber, Berlin
- T26-5D** THE IMPACT OF ACTION POTENTIAL INITIATION SITE SEPARATION ON FAST POPULATION ENCODING
Chenfei Zhang, David Hofmann, Andreas Neef, Fred Wolf, Göttingen
- T26-6D** TOWARDS REPRODUCIBLE WORKFLOWS FOR ELECTROPHYSIOLOGY DATA USING THE ELEPHANT ANALYSIS FRAMEWORK
Michael Denker, Alper Yegenoglu, Sonja Grün, Jülich
- T26-7D** TRANSITION TO CHAOS IN RANDOM NEURAL NETWORKS IN THE PRESENCE OF NOISE
Sven Goedeke, Jannis Schuecker, Moritz Helias, Jülich



T27: Techniques and demonstrations

Wednesday

- T27-1A** A GENETICALLY ENCODED SYSTEM WITH HIGH SPATIO-TEMPORAL RESOLUTION FOR MODIFICATION OF NEURONAL NETWORK ACTIVITY PATTERNS IN VIVO
Firat Terzi, Johannes Knabbe, Hongwei Zheng, Niklas Schneider, Sidney Cambridge, Heidelberg
- T27-2A** A NEW APPROACH FOR RATIOMETRIC CALCIUM IMAGING OF INTACT MICROGLIA IN VIVO
Bianca Brawek, Yajie Liang, Daria Savitska, Kaizhen Li, Natalie Fomin-Thunemann, Elizabeta Zirdum, Johan Jakobsson, Olga Garaschuk, Tübingen
- T27-3A** A NOVEL HIGH-THROUGHPUT, LOW-COST ETHOLOGICAL SCREENING DEVICE USING A VISUAL STIMULUS SYSTEM RUNNING ON A RASPBERRY PI
Bart R. H. Geurten, Simon P. Schäfer, Heribert Gras, Göttingen
- T27-4A** ASSESSING CORTICAL CELLULAR COMPOSITION AND VOLUME CHANGES BY LONGITUDINAL IN VIVO IMAGING OF CELL NUCLEI
Livia Asan, Fred Hamprecht, Thomas Kuner, Johannes Knabbe, Heidelberg
- T27-5A** COATING OF FLUORESCENT PLGA-DII NANOPARTICLES WITH POLOXAMER 188 LEADS TO ENHANCED DURATION AND INTENSITY OF THE FLUORESCENCE SIGNAL IN RAT RETINAL ENDOTHELIUM
Enqi Zhang, Nadya Osipova, Olga Maksimenko, Bernhard Sabel, Svetlana Gelperina, Petra Henrich-Noack, Magdeburg
- T27-6A** DATA ORGANIZATION MADE EASY: SAFE AND EFFICIENT DATA MANAGEMENT FOR NEUROSCIENCE
Michael Sonntag, Achilleas Koutsou, Christian Garbers, Christian J. Kellner, Adrian Stoewer, Jan Grewe, Thomas Wachtler, Martinsried

Thursday

- T27-1B** EVALUATION OF BRAIN PHARMACOKINETIC PROPERTIES IN AWAKE ANIMALS: FROM RODENTS TO NON-HUMAN PRIMATES
Marcel van Gaalen, Gunnar Flik, Joost Folgering, Arash Rassoulpour, Minha Choi, Robert Stratford, Thomas Cremers, Göttingen
- T27-2B** EFFICIENT ISOLATION OF VIABLE PRIMARY NEURAL CELLS FROM ADULT MURINE BRAIN TISSUE BASED ON A NOVEL AUTOMATED TISSUE DISSOCIATION PROTOCOL
Hui Zhang, Bergisch Gladbach

- T27-3B** FAST IMAGING AND PROBABILISTIC RECONSTRUCTION OF LIGHT-EVOKED ACTIVITY IN THE MOUSE RETINA
Luke Edward Rogerson, Katrin Franke, André Maia Chagas, Zhijian Zhao, Philipp Berens, Thomas Euler, Tübingen
- T27-4B** FUNCTIONAL CHARACTERIZATION OF NEW, FLEXIBLE MULTI-CONTACT SILICON PROBES FOR CHRONIC INTRA-CORTICAL RECORDING AND STIMULATION
Heiko Stemmann, Andreas Schander, Walter Lang, Andreas K. Kreiter, Bremen
- T27-5B** IMPACT OF THE INSERTION SPEED OF THE RECORDING PROBE ON THE QUALITY OF NEURAL RECORDINGS IN ACUTE EXPERIMENTS
Richárd Fiáth, Adrienn Márton, Silke Musa, Alexandru Andrei, Carolina Mora Lopez, István Ulbert, Budapest, Hungary
- T27-6B** KCC2 DEPENDENT STEADY STATE CHLORIDE LEVELS IN MOUSE LAYER 2/3 CORTICAL NEURONS IN VIVO
Juan Carlos Boffi, Johannes Knabbe, Michaela Kaiser, Thomas Kuner, Heidelberg
- T27-7B** CRISPR-CAS9 LIPID NANOPARTICLES AS AN EFFICIENT DELIVERY TOOL IN PRIMARY NEURAL CULTURES-PROOF OF CONCEPT
Nadia Tagnaouti, Anitha Thomas, Rebecca De Souza, Grace Tharmarajah, Oscar Seira, Jie Liu, Wolfram Tetzlaff, Peter Deng, Jan A. Nolte, Kyle D. Fink, David J. Segal, R. James Taylor, Euan Ramsay, Vancouver, Canada

Friday

- T27-1C** MANIPULATION OF NEURONS WITH PRECISELY CONTROLLED ILLUMINATION IN SPACE AND TIME USING TWO-PHOTON LASERS AND SPATIAL LIGHT MODULATORS
Gert Rapp, Susanne Holzmeister, Manuela Fichte, Alexander Heckel, Oliver Wendt, Stephan Junek, Hamburg
- T27-2C** LOW COST OPEN SOURCE HARDWARE AND SOFTWARE IN BEHAVIORAL AND ELECTROPHYSIOLOGICAL EXPERIMENTS: ARDUINO & RASPBERRY PI
Benjamin Hans Paffhausen, Berlin
- T27-3C** MULTI-SCALE DETECTION OF RATE CHANGES IN SPIKE TRAINS WITH WEAK DEPENDENCIES
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- T27-4C** odML-TABLES PROVIDING A GRAPHICAL INTERFACE FOR odML BASED METADATA MANAGEMENT
Julia Sprenger, Lyuba Zehl, Jana Pick, Carlos Canova, Sonja Grün, Michael Denker, Jülich
- T27-5C** OPTICAL ACTIVATION OF NEURONS THROUGH TWO-PHOTON EXCITATION OF GOLD NANOPARTICLES
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- T27-6C** QUANTITATIVE DETECTION OF INTRACELLULAR SODIUM USING FLIM WITH CORONA-GREEN
Jan Meyer, Verena Untiet, Christoph Fahlke, Thomas Gensch, Christine R. Rose, Düsseldorf
- T27-7C** FAST AND ACCURATE SPIKE SORTING IN VITRO AND IN VIVO FOR UP TO THOUSANDS OF ELECTRODES
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Saturday

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- T27-2D** ROBUST THRESHOLD ESTIMATION BASED ON WITHOUT NEAR THRESHOLD MEASUREMENTS
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- T27-3D** THE USE OF CLICK CHEMISTRY FOR QUANTITATIVE ANALYSIS OF PROTEIN PALMITOYLATION
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Berthold Hedwig, Matthew D. Isaacson, Cambridge, UK
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Sander Liessem, Susanne Neupert, Lapo Ragonieri, Ansgar Büschges, Reinhard Predel, Cologne





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Program at a glance

Tuesday	Time	Wednesday, 22	Thursday, 23	Friday, 24	Saturday, 25
	8:00 - 9:00		Registration	Registration	Registration
	9:00 - 10:00		Award Lectures	N. Elsner Lecture	Symposia VI S31 - S36
	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 S19 - S24	Lunch Break
	12:00 - 13:00	Registration	Assembly NWG	Lunch Break	Ernst Florey Lecture
	13:00 - 14:00	Opening Lecture			Posters D odd numbers Posters D even numbers
	14:00 - 15:00	Posters A odd numbers Posters A even numbers	Symposia III S13 - S18	Symposia V S25 - S30	Otto Creutzfeldt Lecture
	15:00 - 16:00	Symposia I S1 - S6			
	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	Posters A odd numbers Posters A even numbers	Posters B odd numbers Posters B even numbers	Posters C odd numbers Posters C even numbers	
	19:00 - 20:00	Buffer	Buffer	Buffer	
	20:00 - 21:00	Zülch Lecture	Hertie Foundation Lecture	Roger Eckert Lecture	
	21:00 - 22:00				
Satellites					

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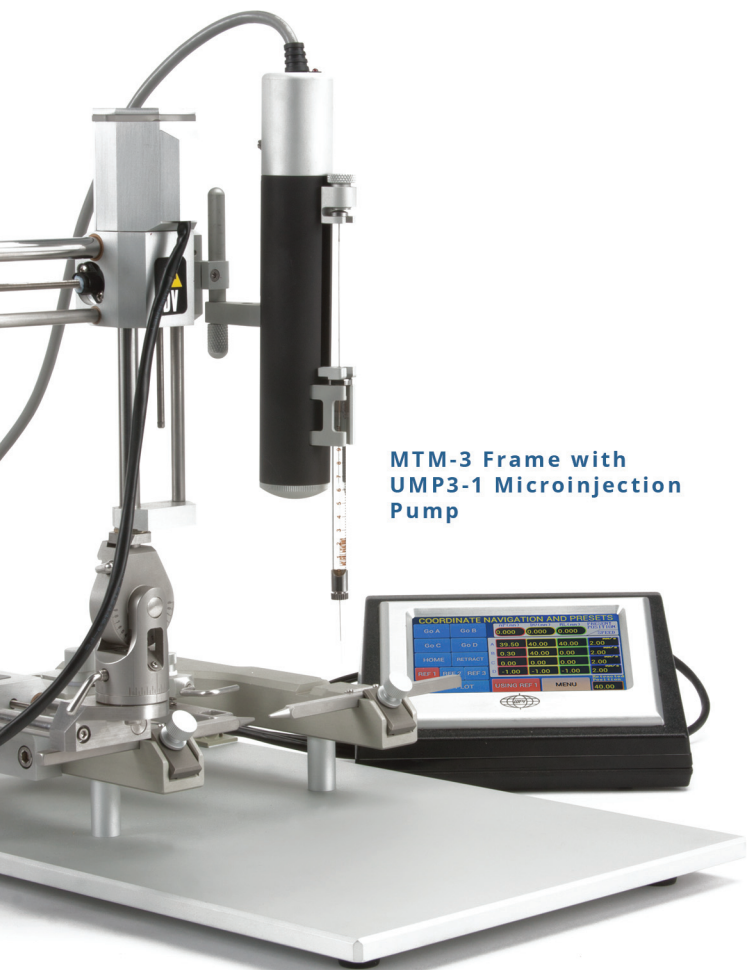
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