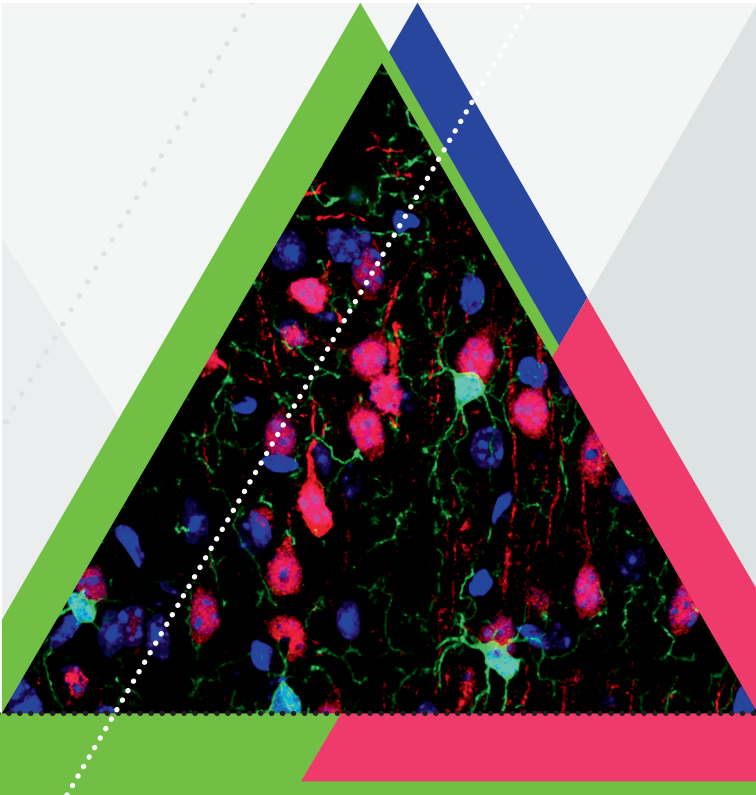


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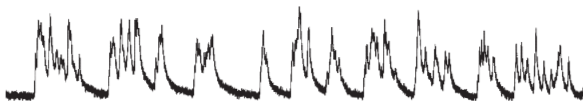
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Welcome Address

Scientists are rarely superstitious, if at all. They do not fear or even avoid the number 13, they do not suffer from triskaidekaphobia. With a twinkle in one's eye one can say that the number 13 is a lucky number to them. This being said, we are very pleased to welcome you to the 13th – and not the 12th – Göttingen Meeting of the German Neuroscience Society (NWG).

The NWG was founded in 1993, yet 20 years earlier, Otto Creutzfeldt (1927-1992), together with Ernst Florey (1927-1997), had started to organize small expert meetings called "Göttinger Neurobiologentagung". Although these meetings mainly focused on neuroethology and invertebrate models, the organizers intended to link scientists from biology and medicine and to mingle neuroscientists working in primary research with those working in clinical neuroscience. In 1982, Norbert Elsner (1940-2011) took over and succeeded in making the meeting an international event. The NWG became responsible for the scientific program in 1999, and the conference developed continually in size and spectrum. Meanwhile, it presents all aspects in neuroscience. From a historical viewpoint, this year's conference is the 37th meeting and we expect more than 1,500 participants from more than 20 countries.

The program committee has put together seven plenary lectures. We are proud of having attracted high profile scientists and very much look forward to their presentations. As one can see from the program, the Roger Eckert Lecture will be replaced by the Schram Lecture, which is generously sponsored by the Schram-Stiftung. Erwin Neher has organized the Roger Eckert lecture until 2017, and we are extremely grateful to him for having done so.

A further novelty is a special buffet dinner provided to all participants before the Hertie Foundation Lecture. The Hertie Foundation, a long-time supporter of the German Neuroscience Society and our meeting, will host the buffet, and we would like to express our deep thanks for this culinary highlight. In addition to the plenary lectures, two young neuroscientists will give talks because they will receive two scientific awards of the NWG. The first is the Schilling Research Award donated by the Schilling Foundation for excellent achievements in a field of brain research. The second is the Thermo Fisher Scientific Technology Award for outstanding contributions towards the development of novel techniques in neuroscience.

We stick to the tradition to offer 36 symposia. In those, special slots have been reserved for young investigators to give short oral presentations. Oral presentations by young investigators will also be given in two "Breaking News Sessions". For the first time, the three best talks of these sessions will be awarded with prize money. About 680 posters will be presented, a very fine number considering that the FENS Forum 2018

in Berlin, a most successful event, had recently attracted and 'absorbed' a record breaking number of more than 7,300 participants with 4,300 posters. Young scientists are first authors of the majority of posters, and we are optimistic that the seven poster sessions, a key element of the meeting, will take place in a pleasant, lively, and fruitful atmosphere. We thank all attendees for their interest in the conference and their invaluable contributions.


There are other inspiring hallmarks of the Göttingen Meeting: the 6th Schram Foundation Satellite Symposium and another satellite organized by the German Society for Biochemistry and Molecular Biology for the second time, the Publishing Workshop on how to successfully submit a paper for publication, the Workshop on latest development in animal research, and the DFG-Seminar on how to start a scientific career.

We would like to take the opportunity to thank all sponsors, especially our commercial partners who exhibit in the hall. Many amenities, such as low registration fees, free buffets and soft drinks all day long would not be possible without their generous support. We are also very grateful to the University of Göttingen for providing the venue for the meeting and the Deutsche Forschungsgemeinschaft whose financial support again allowed us to invite many internationally renowned scientists.

Probably the most critical element of a successful meeting is the local organizing team. Without the enormous and continuous commitment of the local teams, the meeting would never have become such a success. Special thanks go to Martin Göpfert, the Head of the Department of Cellular Neuroscience, and a dedicated crew recruited from the local neuroscience community. They tremendously support the Central Office of the NWG in Berlin which also does a marvellous job. Last not least, we would like to thank all volunteers for helping to organize our conference and make it so enjoyable.

The full contents of the meeting, including abstracts, will be provided online and as a citable supplement to NWG's journal *Neuroforum*. In addition, a printed program booklet can be purchased. Furthermore, this is the first meeting offering a meeting planner app analog to the well known itinerary planner of the conference website.

Keep in mind that there will be life after the 13th Göttingen Meeting: the 14th Göttingen Meeting has been scheduled for March 24-27, 2021. Prior to this event, the next FENS Forum of Neuroscience will take place in Glasgow from July 11-15, 2020. Go for it! Before doing so, enjoy all aspects of this year's meeting, meet peers and friends, make new contacts, and have a very pleasant stay in Göttingen.



Prof. Dr. Eckhard Friauf
President
of the German Neuroscience Society



Prof. Dr. Albert C. Ludolph
Vice-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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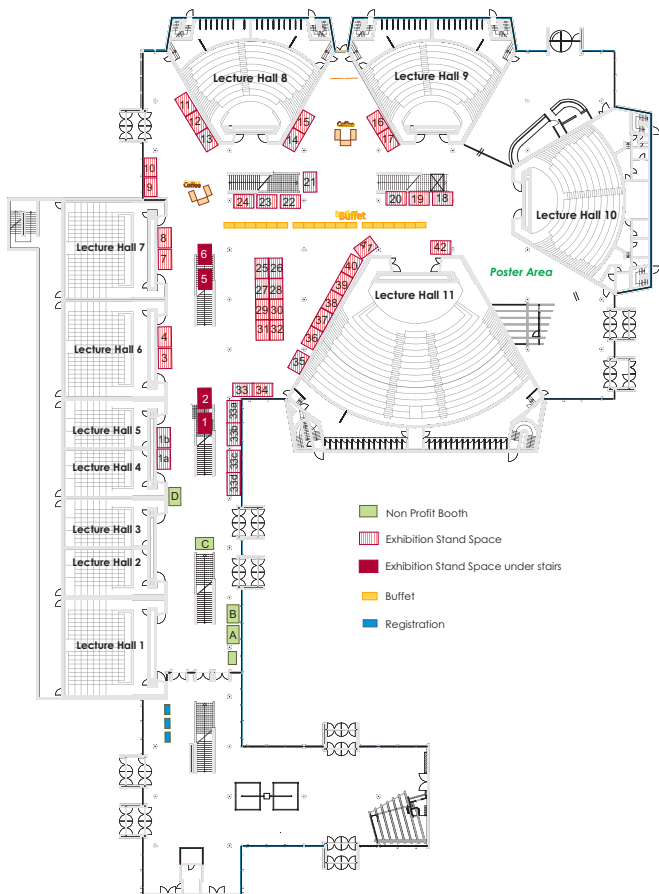
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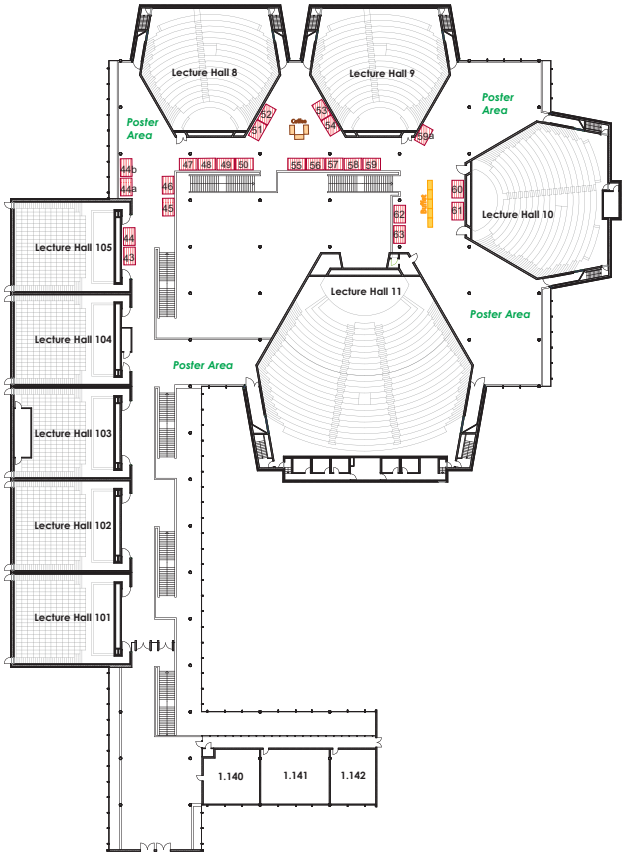


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Awards

Thermo Fisher Scientific Technology Award of the German Neuroscience Society 2019

This prize is awarded by the German Neuroscience Society for outstanding contributions to the development of new technologies in the field of brain research and is sponsored by Thermo Fisher Scientific with 2.500 €.

This award supports young researchers up to the age of 35. 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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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 €. 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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Travel grants from the German Neuroscience Society

The following applicants were selected for a travel grant to attend the 13th Göttingen Meeting of the German Neuroscience Society (March 20 – 23, 2019) amounting to 300 Euros:

- Adzic, Marija (Belgrade, Serbia Montenegro)
- Anisimova, Margarita (Hamburg, Germany)
- Božić, Mićo (Ljubljana, Slovenia)
- Brivio, Paola (Milan, Italy)
- Clotten, Felix (Cologne, Germany)
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- Ebrahimitabar, Forough (Babol, Iran)
- Eckert, Philipp (Tübingen, Germany)
- Eiffler, Ina (Greifswald, Germany)
- Fleischmann, Pauline Nikola (Würzburg, Germany)
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- Schlüter, Annabelle (Heidelberg, Germany)
- Schoof, Melanie (Hamburg, Germany)
- Taylor, Stephanie (Bonn, Germany)
- Winter, Julia (Regensburg, Germany)
- Wu, Zhou (Bonn, Germany)







Young Investigator Orals in a Symposium

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

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

- Livia Asan (Heidelberg, Germany) – Symposium S28
- Diana Ivanovna Babaevskaia (Moscow, Russia) – Symposium S19
- Martin Baccino-Calace (Zurich, Switzerland) – Symposium S35
- Yannik Bauer (Munich, Germany) – Symposium S23
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- Archana Durairaja (Magdeburg, Germany) – Symposium S29
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- Jörg Encke (Garching, Germany) – Symposium S7
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- Lina Maria Jaime Tobon (Göttingen, Germany) – Symposium S32
- Dimokratis Karamanlis (Göttingen, Germany) – Symposium S25
- Roman Kessler (Marburg, Germany) – Symposium S36
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Franziska E. Müller (Hannover, Germany) – Symposium S5
Yara Nasser (Saint Etienne, France) – Symposium S4
Carla Norwig (Würzburg, Germany) – Symposium S28
Diane Penndorf (Jena, Germany) – Symposium S19
Silvia Rodriguez-Rozada (Hamburg, Germany) – Symposium S2
Liliana Rojas-Charry (Hamburg, Germany) – Symposium S33
Celia Roman (Regensburg, Germany) – Symposium S8
Anne Christin Saulin (Würzburg, Germany) – Symposium S26
Daniel G. Schmidt (Ulm, Germany) – Symposium S10
Katja Sporar (Göttingen, Germany) – Symposium S1
Caedyn Lachlan Stinson (Berlin, Germany) – Symposium S26
Hanna E. van den Munkhof (Cologne, Germany) – Symposium S6
Kun Wang (Tübingen, Germany) – Symposium S25
Rebecca Winter (Dresden, Germany) – Symposium S18
Julia Winter (Regensburg, Germany) – Symposium S36
Zhou Wu (Bonn, Germany) – Symposium S31
King Faisal Yambire (Göttingen, Germany) – Symposium S16
Martin Zeller (Tübingen, Germany) – Symposium S30

Young Investigator Orals in the Breaking News

- Felix Clotten (Cologne, Germany) – Symposium S12
Andreea Constantinescu (Vienna, Austria) – Symposium S12
Jennifer Heck (Magdeburg, Germany) – Symposium S12
Madhura Ketkar (Mainz, Germany) – Symposium S12
Özge Demet Özçete (Göttingen, Germany) – Symposium S12
Aarti Sehdev (Konstanz, Germany) – Symposium S12
Ahmed Shaaban (Göttingen, Germany) – Symposium S12
Sonja Sivcev (Praha, Czech Republic) – Symposium S12
Thede Witschel (Tübingen, Germany) – Symposium S12
Sebastian M. Molina-Obando (Göttingen, Germany) – S12
Margarita Anisimova (Hamburg, Germany) – Symposium S13
Marcel Brosch (Magdeburg, Germany) – Symposium S13
Oana Constantin (Hamburg, Germany) – Symposium S13
Sofia Elizarova (Göttingen, Germany) – Symposium S13
Raziye Karapinar (Bochum, Germany) – Symposium S13
Golan Karvat (Freiburg, Germany) – Symposium S13
Mauro Pulin (Hamburg, Germany) – Symposium S13
Meike Marie Rogalla (Oldenburg, Germany) – Symposium S13
Michael Schweigmann (Homburg, Germany) – Symposium S13
Yixin Tong (Freiburg i. Br., Germany) – Symposium S13



Committees and Organization

Program Committee

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(Chair)
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Ricarda Diem
Martin Göpfert
Benedikt Grothe
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Angelika Richter
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Scientific Organization

Eckhard Friauf
Tierphysiologie - Biologie
Technische Universität Kaiserslautern

Local Organization

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Martin Göpfert
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Cellular Neurobiology
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NWG Office

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Homepage

www.nwg-goettingen.de

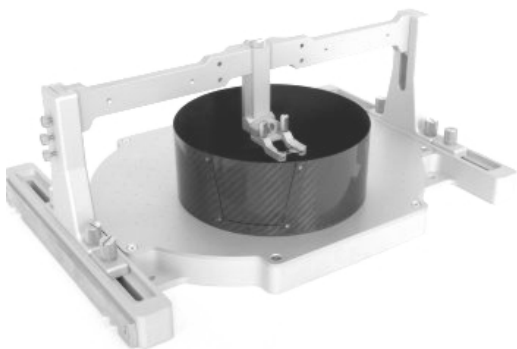
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General Information

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 20), Thursday (March 21) and Friday (March 22) from 8 a.m. to 8 p.m. and on Saturday, March 23, from 8 a.m. to 4 p.m.

Phone: +49 551 39 29595

E-Mail: korthals@mdc-berlin.de

Exhibition

The exhibition is open on Wednesday, March 20 from 12 p.m. to 7 p.m., on Thursday, March 21, from 9 a.m. to 7 p.m. and on Friday, March 22 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/Mastercard.

Registration fee ALL days:

EUR 170 - GNS or FENS **members**

EUR 250 - **non-members**

EUR 125 - **student members** of GNS or FENS

EUR 165 - **student non-members**

Registration fee PER day (max. 2 days):

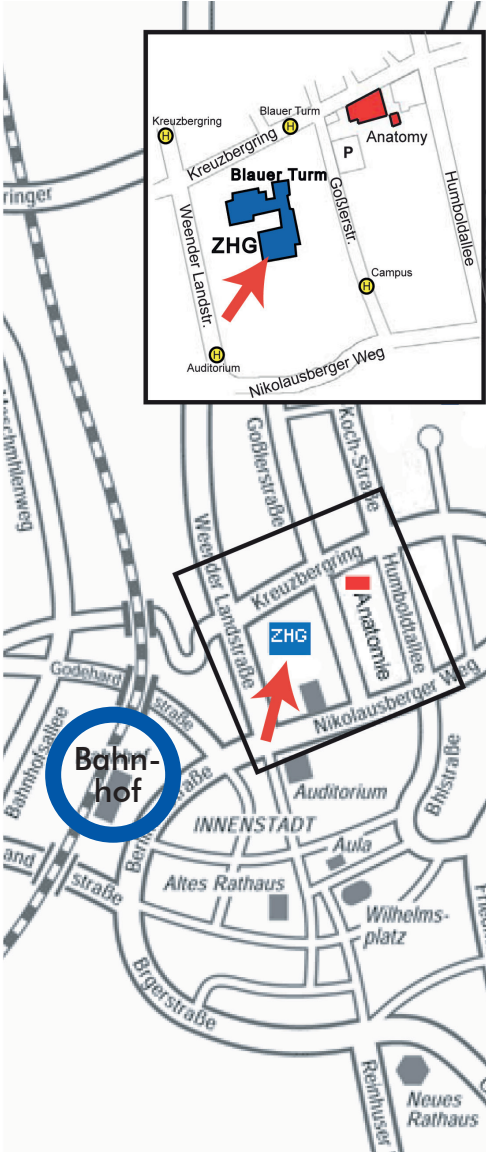
EUR 50 - GNS or FENS **members**

EUR 70 - **non-members**

EUR 35 - **student members** of GNS or FENS

EUR 45 - **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 folder
- proceedings as download/abstract CD
- buffet with food and drinks at the meeting site on Wednesday, Thursday and Friday evening
- coffee breaks

Proceedings

The proceedings of the Göttingen Neuroscience Meeting 2019 are available as:

Supplement to Neuroforum February 2019 (1)
eISSN 2363-7013

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 132).

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 20, 2019
(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 21, 2019

(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 22, 2019

(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 23, 2019

(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 until 16.30 at the latest)

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/2019) or with the authors' index in this program booklet.

The optimal size of the poster is 1 x 1 m, posters DIN A0 portrait fit as well. 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.

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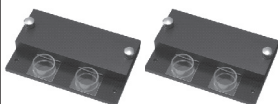
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Neuro-Party

Thursday, March 21st

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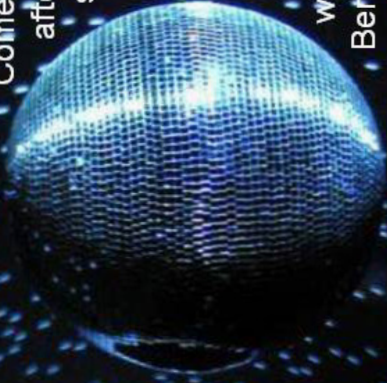
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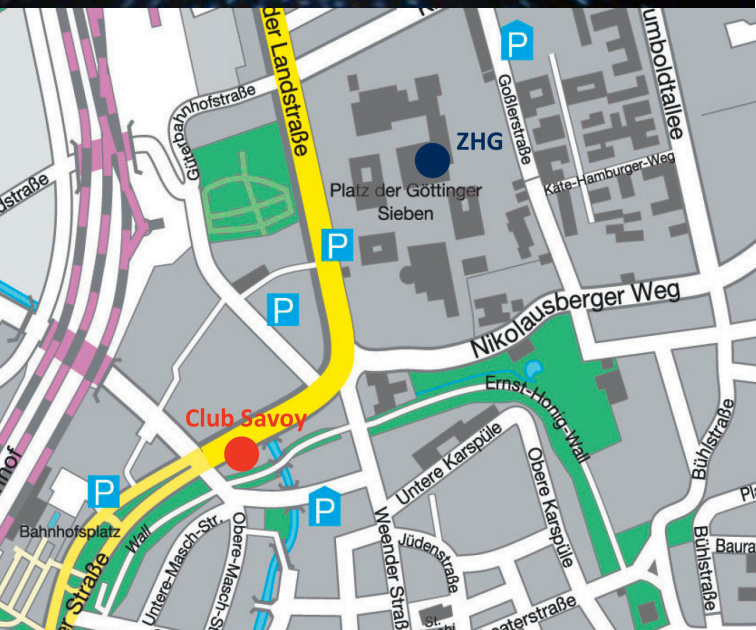
Göttingen

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Free entrance for all participants of the congress with badge, all others 3,50€.
Happy hour from 9-10 p.m.



Scientific Program

Tuesday, March 19, 2019

- 13:00 - 19:00 *Satellite Symposium (Sat1), Lecture hall of MPI for Experimental Medicine*
6th Schram Foundation Symposium
„The mammalian brain: development and function“
Chairs: Ira Milosevic and Alessio Attardo, Göttingen and Munich

Wednesday, March 20, 2019

- 09:00 - 12:00 *Satellite Symposium (Sat2), ZHG, Georg-August-University Göttingen, Hall 101*
GBM Study Group 'Molecular Neurobiology' „RNA-dependent mechanisms in CNS development and pathology“
Chairs: Kent Duncan and Jörg W. Bartsch, Hamburg and Marburg
- 12:00 - 13:00 **Plenary Lecture, Hall 11**
 Opening Lecture
Ann McKee, Boston (USA)
Chronic traumatic encephalopathy (CTE): an update including the problem with football (soccer)
Chair: Eckhard Friauf, Kaiserslautern
- 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 8*
Common principles of spatial and temporal sensory processing
Chairs: Carlotta Martelli, Marion Silies and Jan Clemens, Konstanz, Mainz and Göttingen
- 14:30 - 16:30 *Symposium 2, Hall 9*
Optogenetics - tool development and application in neuroscience
Chair: Alexander Gottschalk, Frankfurt/Main



- 14:30 - 16:30 *Symposium 3, Hall 103*
Keeping neurons alive – erythropoietin, its variants and its receptors
Chairs: Nina Hahn and Ralf Heinrich, Göttingen
- 14:30 - 16:30 *Symposium 4, Hall 104*
Neurological autoimmunity: the role of pathogenic antibodies against neuron and glia proteins
Chairs: Christian Moritz and Claudia Sommer, Saint-Étienne/Lyon (France) and Würzburg
- 14:30 - 16:30 *Symposium 5, Hall 105*
Serotonin and its developmental role in shaping brain plasticity and neuro-psychological phenotypes
Chairs: Natalia Alenina, Piotr Popik and Francesca Calabrese, Berlin, Crakow (Poland) and Milan (Italy)
- 14:30 - 16:30 *Symposium 6, Hall 102*
Novel insights into the regulation of hypothalamic neurocircuits and functions
Chairs: Henning Fenselau and Sophie Steculorum, Cologne
- 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**
 Klaus Joachim Zülch Lecture
Giulio Tononi, Madison (USA)
Consciousness: from theory to practice
Chair: Mathias Bähr, Göttingen

Thursday, March 21, 2019

- 9:00 - 10:00 **Awarding and Lectures, Hall 11**
 9:00 - 9:30 Schilling Award Lecture
Friederike Zunke, Kiel
Molecular disease mechanisms and therapeutic approaches in Parkinson's disease
Chair: Christine Rose, Düsseldorf

- 9:30 - 10:00 TFS Technology Award Lecture
Jonas Wietek, Berlin
Encounters in anion channelrhodopsin research - a personal perspective on the development of inhibitory opto-genetic tools
Chair: Alexander Gottschalk, Frankfurt/Main
- 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 8*
Short-term adaptation in early auditory processing: from synaptic depression to focal perception
Chairs: Michael Pecka and Andrea Lingner, Martinsried
- 11:30 - 13:30 *Symposium 8, Hall 9*
From astrocytes to behaviors: searching the cellular and molecular roots of emotion dysfunctions
Chairs: Barbara Di Benedetto and Inga Neumann, Regensburg
- 11:30 - 13:30 *Symposium 9, Hall 10*
Resolving the cognitive function of prefrontal circuits: from neurons to behavior
Chairs: Ileana L. Hanganu-Opatz and Ilka Diester, Hamburg and Freiburg
- 11:30 - 13:30 *Symposium 10, Hall 105 - retracted*
Brain-machine-interface in paralysis
Chair: Niels Birbaumer, Tübingen
- 11:30 - 13:30 *Symposium 11, Hall 103*
The 4Rs in animal-based neuroscience research: Refinement, Reduction, Replacement, Responsibility
Chairs: Roman Stilling and Stefan Treue Münster and Göttingen
- 11:30 - 13:30 *Symposium 12, Hall 104*
Breaking News I
Chair: Marc Spehr, Aachen
- 13:30 - 14:30 **Lunch Break**
- 13:30 - 14:30 **Annual General Meeting of the NWG (Hall 11)**



- 13:30 - 14:30 **Workshop on latest developments in animal research**, Hall 103
Stefan Treue and Roman Stilling, Göttingen and Münster
Overcoming obstacles in animal research regulation
- 14:30 - 16:30 **Symposia III (S13 - S18)**
 14:30 - 16:30 *Symposium 13, Hall 102*
Breaking News II
Chair: Marc Spehr, Aachen
- 14:30 - 16:30 *Symposium 14, Hall 10*
Adaptive processes and inhomogeneous neuronal networks – two sides of the same coin?
Chairs: Ulrich Egert and Stefan Rotter, Freiburg
- 14:30 - 16:30 *Symposium 15, Hall 104*
The brain oxytocin system - its complex impact on autism, social behavior, and stress
Chairs: Benjamin Jurek and Adam Steven Smith, Regensburg and Lawrence, USA
- 14:30 - 16:30 *Symposium 16, Hall 105*
Mitochondrial dysfunction in neurodegeneration
Chairs: Ira Milosevic and Nuno Raimundo, Göttingen
- 14:30 - 16:30 *Symposium 17, Hall 8*
Dissection of a central brain circuit: structure, plasticity and functions of the *Drosophila* mushroom body
Chairs: André Fiala and Bertram Gerber, Göttingen and Magdeburg
- 14:30 - 16:30 *Symposium 18, Hall 9*
From normal brain development to pathology: what role does the environment play?
Chairs: Cristiana Cruceanu and Simone Mayer, Munich and Tübingen
- 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**
Reception hosted by the Hertie Foundation



- 19:00 - 20:00 **Plenary Lecture, Hall 11**
Hertie Foundation Lecture
Onur Güntürkün, Bochum (Germany)
Cognition without a cortex
Chair: Petra Wahle, Bochum

Friday, March 22, 2019

- 9:00 - 10:00 **Plenary Lecture, Hall 11**
Norbert Elsner Lecture
Nachum Ulanovsky, Rehovot (Israel)
Neural codes for natural navigation in the hippocampal formation of bats
Chair: Christian Wegener, 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 104*
From clinical symptoms to motoneuron pathobiology: most recent insights into amyotrophic lateral sclerosis (ALS)
Chairs: Jochen Weishaupt and Albert C. Ludolph, Ulm
- 11:30 - 13:30 *Symposium 20, Hall 105*
Subcortico-cortical loops and their role in sensory processing and perception
Chairs: Livia de Hoz and Julio Hechavarria, Berlin and Frankfurt/Main
- 11:30 - 13:30 *Symposium 21, Hall 9*
Behavioral decisions based on multimodal information
Chairs: Basil el Jundi and Martin Strube-Bloss, Würzburg
- 11:30 - 13:30 *Symposium 22, Hall 102*
The neuronal basis of tinnitus
Chairs: Birgit Mazurek and Holger Schulze, Berlin and Erlangen
- 11:30 - 13:30 *Symposium 23, Hall 103*
Early information selection for robust vision
Chair: Matthias Bethge, Tübingen



- 11:30 - 13:30 *Symposium 24, Hall 10*
Form follows function? Rules and consequences of structural synaptic plasticity
Chairs: Tobias Rose and J. Simon Wiegert, Martinsried and Hamburg
- 13:30 - 14:30 **Lunch Break**
- 13:30 - 14:30 **Publishing Workshop, Hall 101**
Helmut Kettenmann, Berlin
How to publish in neuroscience journals?
- 13:30 - 14:30 **DFG-Seminar,**
 Hall 102 and 1.141 (consultations)
Katharina Costa Rodrigues and Andreas Görlich, Bonn
Starting your research career - DFG funding programs and application procedures
- 14:30 - 16:30 **Symposia V (S25 - S30)**
 14:30 - 16:30 *Symposium 25, Hall 105*
Go with the flow? Processing of sensory flows across modalities
Chairs: Aristides Arrenberg, Jan Benda, Annette Denzinger and Hanspeter Mallot, Tübingen
- 14:30 - 16:30 *Symposium 26, Hall 10*
Neural mechanisms of social decision-making
Chairs: Igor Kagan and Arezoo Pooresmaeili, Göttingen
- 14:30 - 16:30 *Symposium 27, Hall 9*
Neurodegenerative diseases: shaping neuronal circuits by membrane trafficking
Chairs: Natalia Kononenko and Brunhilde Wirth, Cologne
- 14:30 - 16:30 *Symposium 28, Hall 104*
Modulatory circuits of central pain processing
Chairs: Valery Grinevich and Alexander Groh, Heidelberg
- 14:30 - 16:30 *Symposium 29, Hall 103*
Orexin beyond sleep
Chairs: Markus Fendt and Michael Koch, Magdeburg and Bremen

- 14:30 - 16:30 *Symposium 30, Hall 8*
Inhibitory synapse diversity in health and disease
Chair: Theofilos Papadopoulos and Dilja Krüger-Burg, Göttingen
- 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 **Buffet in the Foyer**
- 19:00 - 20:00 **Plenary Lecture, Hall 11**
 Armin Schram Lecture
Volker Haucke, Berlin (Germany)
Mechanisms of presynapse function and assembly
Chair: Eckart Gundelfinger, Magdeburg

Saturday, March 23, 2019

- 8:30 - 10:30 **Symposia VI (S31 - S36)**
 8:30 - 10:30 *Symposium 31, Hall 101*
The tripartite synapse in health and disease
Chairs: Gabor Petzold and Christine Rose, Bonn and Düsseldorf
- 8:30 - 10:30 *Symposium 32, Hall 102*
Hearing system adaptation for diverse lifestyles across the animal kingdom
Chairs: Manuela Nowotny and Stefan Schöneich, Frankfurt/Main and Leipzig
- 8:30 - 10:30 *Symposium 33, Hall 103*
Pro-survival versus toxic NMDA receptor signaling and the fight against neurodegenerative disorders
Chair: Hilmar Bading, Heidelberg
- 8:30 - 10:30 *Symposium 34, Hall 104*
The dentate gyrus – from microcircuit function to control of behavior
Chair: Marlene Bartos, Freiburg
- 8:30 - 10:30 *Symposium 35, Hall 9*
The presynaptic active zone: converging and diverging mechanisms across species
Chairs: Noa Lipstein and Robert J. Kittel, Göttingen and Leipzig



- 8:30 - 10:30 *Symposium 36, Hall 105*
Beyond expression of fear: mechanisms and circuits of the extended amygdala
Chairs: Maren Lange and Thomas Seidenbecher, Münster
- 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
Antoine Triller, Paris (France)
The synapse: memory in a fluid membrane
Chair: Matthias Kneussel, Hamburg
- 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
Kristin Tessmar-Raible, Vienna (Austria)
The brain as a timer: day, season and moon phase coordination in the sea
Chair: Albert C. Ludolph, Ulm
- 16:00 **Departure**



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Neurowissenschaftliche Gesellschaft e.V. (NWG) German Neuroscience Society

The goal of the NWG is to support neuroscience in research and education and to represent neuroscience research within Germany and abroad. The society strives to create political awareness for the necessity of neuroscience research, keeps contact to national research programs and private foundations, supports the neuroscience programs in the European Community and is a partner for the industry. The NWG favors interdisciplinary educational concepts in neuroscience and aims to spreading knowledge of neuroscience to the general public.

Neuroforum

The journal is published quarterly with de Gruyter in print and online. It offers review articles in English, book reviews, reports on research programs and on funding opportunities, and the GNS news. Members receive it free of charge and have free online access.

Training Courses

NWG members are entitled to attend the methodological courses organized by the NWG free of charge.

Conferences

In the odd years the NWG organizes the Göttingen Meeting which is one of the largest national neuroscience meetings in Europe.

FENS

NWG members are FENS members and take advantage from the FENS benefits, such as lower registration fee for the FENS Forum, FENS stipends, FENS training opportunities, and free online access to the European Journal of Neuroscience (EJN).

Stipends

The GNS offers stipends for the Göttingen Meeting, the FENS Forum, for the FENS Regional Meetings and supports the NeuroDoWo, and other events.

SfN Abstract slots

These abstract slots entitle NWG members to present a poster at the American Society for Neuroscience Meetings without being a SfN member, linked to a reduced registration fee.

Awards

The GNS presents several awards which honor neuroscientists in different stages of their career.

Email alerts

Members of the NWG receive an electronic newsletter announcing grants, calls for funding or awards, and job ads monthly.

Website

The members' area on the website offers services for members such as job market, the membership directory or the online access to EJN and Neuroforum.

www.dasGehirn.info

This website, sponsored by the Gemeinnützige Hertiestiftung, provides state of the art information on all major topics in neuroscience for the general public.

Outreach

Educational courses for school teachers are offered throughout the year.

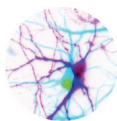
The German Neuroscience Society is the voice of neuroscientists working in Germany and of German neuroscientists working abroad. As a non-profit organization the GNS is a founding member of FENS and represents German neuroscientists in the International Brain Research Organization (IBRO).

Membership

The NWG has more than 2.200 members. Membership is available for everyone working in a field of neuroscience research or on related topics. Membership fee amounts to 30 Euro for students, and 70 Euro for seniors annually.

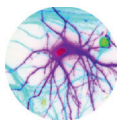
German Neuroscience Society

Neurowissenschaftliche Gesellschaft e.V. (NWG)



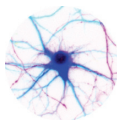
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Vizepräsident: Prof. Dr. Christine Rose
Generalsekretär: Prof. Dr. Christian Steinhäuser
Schatzmeister: Prof. Dr. Ansgar Büschges



Sektionsprecher:

Computational Neuroscience: Prof. Dr. Sonja Grün
Entwicklungsneurobiologie/Neurogenetik: Prof. Dr. Petra Wahle
Klinische Neurowissenschaften: Prof. Dr. Mathias Bähr
Kognitive Neurowissenschaften: Prof. Dr. Melanie Wilke
Molekulare Neurobiologie: Prof. Dr. Frank Kirchhoff
Neuropharmakologie/-toxikologie: Prof. Dr. Angelika Richter
Systemneurobiologie: Prof. Dr. Benedikt Grothe
Verhaltensneurowissenschaften: Prof. Dr. Christian Wegener
Zelluläre Neurobiologie: Prof. Dr. Veronica Egger



Geschäftsstelle:

Neurowissenschaftliche Gesellschaft e.V.
Max-Delbrück-Center for Moleculare Medizin (MDC) Berlin-Buch
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

Ann McKee (Boston, USA)

- Opening Lecture -

Chronic traumatic encephalopathy (CTE): an update including the problem with football (soccer) (P1)

Wednesday, March 20, 2019, 12:00 - 13:00 h

Giulio Tononi (Madison, USA)

- Klaus Joachim Zülch Lecture -

Consciousness: from theory to practice (P2)

Wednesday, March 20, 2019, 19:00 - 20:00 h

Friederike Zunke (Kiel, Germany)

- Schilling Prize Lecture -

Molecular disease mechanisms and therapeutic approaches in Parkinson's disease (P3)

Thursday, March 21, 2019, 9:00 - 9:30 h

Jonas Wietek (Berlin, Germany)

- TFS Technology Award Lecture -

Encounters in anion channelrhodopsin research - a personal perspective on the development of inhibitory optogenetic tools (P4)

Thursday, March 21, 2019, 9:30 - 10:00 h

Onur Güntürkün (Bochum, Germany)

- Hertie Foundation Lecture -

Cognition without a cortex (P5)

Thursday, March 21, 2019, 19:00 - 20:00 h

Nachum Ulanovsky (Rehovot, Israel)

- Norbert Elsner Lecture -

Neural codes for natural navigation in the hippocampal formation of bats (P6)

Friday, March 22, 2019, 9:00 - 10:00 h

Volker Haucke (Berlin, Germany)

- Armin Schram Lecture -

Mechanisms of presynapse function and assembly (P7)

Friday, March 22, 2019, 19:00 - 20:00 h

Antoine Triller (Paris, France)

- Ernst Florey Lecture -

The synapse: memory in a fluid membrane (P8)

Saturday, March 23, 2019, 12:30 - 13:30 h

Kristin Tessmar-Raible (Vienna, Austria)

- Otto Creutzfeldt Lecture -

The brain as a timer: day, season and moon phase coordination in the sea (P9)

Saturday, March 23, 2019, 15:00 - 16:00 h

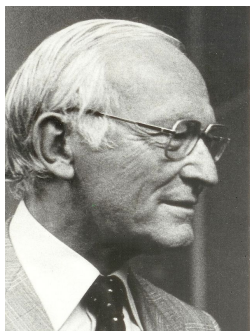
All plenary lectures take place in hall 11.

Klaus Joachim Zülch Lecture

Who was Klaus Joachim Zülch?

Klaus Joachim Zülch was born in Allenstein, East Prussia in 1910. He studied medicine at the universities of Marburg, Rostock, Vienna, Berlin and Heidelberg where he graduated in medicine. From 1935 to 1936 he worked as a medical assistant in Breslau and obtained his M.D. In 1936 he started working with a Rockefeller scholarship at the University of Würzburg where he became a collaborator of Wilhelm Tönnis. Together with Tönnis he moved to Berlin-Buch in 1937 and continued his research in experimental neuropathology at the Kaiser-Wilhelm Institute for Brain Research. In 1940 he qualified as a professor at the University of Berlin. In 1947 he moved to the Department of Tumor Research and Experimental Pathology of the Max Planck Institute for Brain Research in Bochum, and in 1948 to Hamburg where he taught as a visiting scientist at the University Clinics Hamburg Eppendorf. In 1949 he was appointed professor for neurology. In 1951 Klaus Joachim Zülch became a scientific member of the Max Planck Society and head of the newly established Department of General Neurology of the Max Planck Institute of Brain Research in Cologne. In addition he was appointed director of the hospital Cologne-Merheim in 1959. He filled both positions until his retirement in 1978.

Klaus Joachim Zülch's scientific interest focused on neurology in general, neuropathology and neurosurgery, especially on brain tumors and cerebral infarcts. His studies laid the basis for the WHO classification of brain tumors. He died in Berlin in 1988.



Hans Joachim Zülch (1910-1988)



Norbert Elsner Lecture

Who was Norbert Elsner?

Norbert Elsner was born in Hermsdorf, Poland in 1940 during the Second World War and grew up in Freudenberg in Southern Westfalia. He studied biology in Münster, Munich and Tübingen where he met the neuroethologist Franz Huber. He followed Franz Huber to Cologne and completed his PhD thesis on "The neuromuscular basis of courtship in the grasshopper *gomphocerippus rufus*". After research stays in Kampala (Uganda) with Hugh Rowel, at the University of Copenhagen with Axel Michelsen, and at the University of Oregon with Graham Hoyle he did his habilitation in zoology at the University of Cologne in 1974. In 1978 he was appointed professor of zoology at the University of Göttingen, where he continued his research as the head of the department of neurobiology until his retirement in 2009.

Norbert Elsner's research focused on the acoustic communication in insects, especially grasshoppers. He investigated the neuronal and sensory basis of acoustic communication using different techniques such as laser vibrometry or electrophysiology.

Besides research, Norbert Elsner had many other interests. He organized the "Göttinger Neurobiologentagung" from 1982 to 2003. Henceforth the Göttingen meetings were under the auspice of the German Neuroscience Society. Between 1999 and 2010 he organized a series of public lectures, linking neuroscience to other scientific disciplines. The subjects of these lectures were published in nicely illustrated books which he edited himself. Norbert Elsner was a true polymath and a connoisseur of literature, music and theater who loved to inspire.



Norbert Elsner (1940-2011)

Armin Schram Lecture

Who was Armin Schram?

Armin Schram was born in 1929 in Prague, Czech Republic. He studied chemistry at the University of Vienna where he received his doctoral degree in chemistry in 1953. In the same year he joined the Deutsche Erdöl AG (from 1970 onwards "Deutsche Texaco AG"). Since 1968 he was a member of the managing board. During the seventies he was appointed as "General Manager International Refining" and spent two years in the US. Since 1979 he acted as CEO of the company. In 1988 the "Deutsche Texaco AG" was integrated into the RWE trust. Armin Schram became chair of the board of RWE Dea AG, a branch of the RWE responsible for the company's petrol and chemistry business. He also represented the company in the board of the "Stifterverband für die Deutsche Wissenschaft", a German Trust Foundation supporting science and research. Here he realized the importance of private commitment for basic research. All his life he had been interested in chemistry and biomedicine, and after his retirement in 1993 he finally found time to pursue his interests consequently. He was especially fascinated by brain research.

In 2000 he founded the Schram-Foundation with his private assets and with the goal to support research in basic neuroscience, especially in modern brain research. The aim of his foundation is to support research, which elucidates the molecular and cellular mechanisms of brain function, including information processing and learning & memory. The foundation capital amounts to 8.1 million Euro and the annual funding budget is about 400.000 Euro. In 2011 Armin Schram was elected as the first (and to date only) honorary member of the NWG.

Besides his interest for research and science Armin Schram was a passionate sailor and hunter and appreciated the company of people who shared his passion. He regularly participated in the NWG Göttingen Meetings and initiated the series of "Schram Symposia" as satellite events to the NWG biennial meetings. Aged 85, Armin Schram died in 2015 just a few weeks before the 4th Schram Symposium.



Armin Schram (1929-2015)



Ernst Florey Lecture

Who was Ernst Florey?

Ernst Florey was born in Salzburg, Austria in 1927. He studied philosophy, botany and zoology in Salzburg and Vienna. In 1950 he completed his PhD in neuropharmacology in Graz. As a postdoc he was awarded a Fulbright scholarship to work with Cornelis A.G. Wiersma at the California Institute of Technology on isolated crayfish stretch receptor neurons. After research stays in Göttingen, Würzburg and Montreal he was appointed professor at the University of Washington in Seattle in 1956. In 1969 he returned to Germany to the newly founded University of Konstanz where he investigated the biochemical properties of synapses and the effects of drugs until he was retired in 1992. From 1971 to 1972 he was president of the German Society of Zoology. In 1973 he founded, together with Otto Creutzfeldt, the Göttingen "Neurobiologentagung". Since 1982 he organized the Lindau Nobel Laureate Meetings at Lake Constance.

Ernst Florey discovered factor I as an agent causing inhibition, characterized as GABA in 1957. In the beginning there was doubt that GABA is indeed the transmitter substance of inhibitory neurons until it was recognized as the major inhibitory neurotransmitter in the mammalian brain. Ernst Florey was also the co-founder of the concept of neuromodulation.

Besides research, Ernst Florey was interested in philosophy and published books and essays on the history of science.



Ernst Florey (1927-1997)

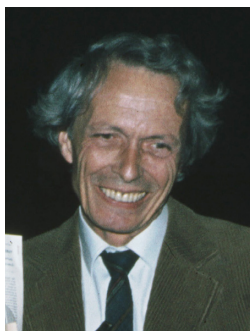
Otto Creutzfeldt Lecture

Who was Otto Creutzfeldt?

Otto Creutzfeldt was born in Berlin, Germany in 1927. He was the youngest son of Hans-Gerhard Creutzfeldt who described the Creutzfeldt-Jakob disease. He first studied humanities but soon switched to medicine and obtained his M.D. in the department of Richard Jung at Freiburg University in 1953. From 1953 and 1959 he was an assistant and trainee in physiology, neurophysiology, and neurology in Freiburg and in psychiatry in Bern, Switzerland. For two years he worked as a research anatomist at UCLA Medical School before he moved to the Max Planck Institute for Psychiatry in Munich in 1962, where he obtained his degree in clinical neurophysiology. In 1971 he became one of the nine directors of the Max Planck Institute for Biophysical Chemistry, as head of the Department of Neurobiology.

Otto Creutzfeldt was one of the pioneers of modern neurophysiology. He investigated the function of the visual cortex applying intracellular recording from cortical neurons and elucidated the neurophysiological principles of the EEG. He also made seminal contributions to the understanding of visual and speech cortices.

In 1973 he founded, together with Ernst Florey, the Göttingen "Neurobiologentagung". He was the mentor for a large number of neurobiologists: Nobel Prize winner Bert Sakmann, Henning Scheich, Wolf Singer, Heinz Wässle, to name a few, worked in his laboratory as doctoral students.



Otto Creutzfeldt (1927-1992)



Workshop on latest developments in animal research

Overcoming obstacles in animal research regulation

Stefan Treue and Roman Stilling, Göttingen and Münster

Animal research remains a sensitive and emotional topic. There is strong and vocal opposition to the use of all animals in scientific research. Unfortunately, public engagement by many European researchers and institutions remains hesitant, and often defensive. This lack of communication allows the voices of those opposed to animal research to dominate public discourse; this has resulted in political pressure to the effect that there is significant legal uncertainty among researchers and regulatory agencies.

However, adherence to the legal framework during the application process for planned animal experiments is an essential requirement for high-quality, responsible research to go hand-in-hand with the highest animal welfare standards. Yet, from all over Germany (and, in part, other EU member states), problems and frustration with this process have been reported.

This information event will provide an overview of the current situation regarding regulatory issues of the use of animals in neuroscience research.

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

Workshop on latest developments in animal research

*Thursday, March 21, 2019
13:30 - 14:30, Lecture Hall 103*

Chairs: Stefan Treue and Roman Stilling,
Göttingen and Münster

- 13:30 **Introductory remark**
- 13:35 **Short presentation**
by a DFG representative on the recent
DFG opinion paper on the regulatory
process in Germany
- 13:55 **Short presentation**
by an experienced attorney on legal
aspects of potential disagreements bet-
ween applicant and regulatory agency
- 14:15 **Discussion and conclusion**
- 14:30 **End of the workshop**



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DFG Workshop

Friday, March 22, 2019

13:30 - 14:30, Lecture Hall 102 and 1.141 (consultations)

Starting your research career - DFG funding programs and application procedures

Katharina Costa Rodrigues and Andreas Görlich,
DFG Head Office, Bonn

This workshop intends to introduce the German Research Foundation (DFG), its funding programs and the application and review procedures to researchers at an early stage of their scientific careers. Among others, we will cover research grants, the Emmy Noether- and the Heisenberg Program and will give valuable tips and tricks for a successful application, with a focus on grants in the neurosciences.

After the workshop, appointments for individual consultations are available. For further information on these, please refer to the announcements given on site.

Topics:

The DFG –
Germany's largest research funding organization

DFG funding programs

Application and review procedures

News from the DFG

Discussion

Deutsche
Forschungsgemeinschaft

DFG

Publishing Workshop

Friday, March 22, 2019
13:30 - 14:30, Lecture Hall 101

How to publish in neuroscience journals?

Helmut Kettenmann, Berlin

This workshop gives insights into the complex process of publication. It starts with advices on manuscript preparation, discusses the review process and how to adequately respond to the comments of the reviewers and editors. It is also discussed what happens behind the scene of the editorial office.

Helmut Kettenmann is editor-in chief of the journal *GLIA* since 1987 and was editor-in-chief of *Neuroforum* from 1995-2013.

Topics:

Purpose of scientific publishing

Key elements of a scientific manuscript

The review process

Revisions and response to reviewers

The rebuttal letter

GLIA





Introductory Remarks to Satellite Symposium (Sat1)

6th Schram Foundation Symposium „The mammalian brain: development and function“

Ira Milosevic and Alessio Attardo, Göttingen and Munich

The Schram Foundation, launched by Dr. Armin Schram in year 2000, supports basic brain research since more than 18 years.

The 6th Schram Foundation Symposium, traditionally held as a satellite event of the biennial meeting of the German Neuroscience Society, will showcase a selection of the most recently- funded projects. Two eminent international 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.

Timothy Ryan from the Cornell Medical College will start the symposium with a keynote lecture discussing energy balance at synapses. Marisa Karow from the Ludwig-Maximilian University in Munich will focus on the transcriptional programs governing human neurogenesis. Tran Tuoc from the Medical Faculty, University of Göttingen will discuss the role of chromatin remodeling in the genesis of basal progenitors and cortical expansion. Martin Heine from the Leibniz Institute for Neurobiology will discuss the role of the extracellular subunits of calcium channels in shaping neuronal connectivity. Andrew King from the University of Oxford will focus on the neural bases for adaptation to monaural deprivation. Alessio Attardo from the Max Planck Institute of Psychiatry in Munich will discuss the role of hippocampal plasticity in memory acquisition and recall. Tara Keck from University College London will conclude the symposium with a keynote lecture considering the structural and functional properties of spines that undergo plasticity following sensory deprivation.

In addition, the symposium will host a posters session featuring the work of past and present grantees.

Attendance of the symposium is complimentary.

Satellite Symposium (Sat1)

*Tuesday, March 19, 2019
13:00 - 19:00, Lecture Hall of MPI for
Experimental Medicine (Hermann-Rein-Str. 3, Göttingen)*

Chairs: Ira Milosevic and Alessio Attardo,
Göttingen and Munich

- 13:00 **Welcome and Opening Remarks**
(Eckart D. Gundelfinger, Magdeburg)
- 13:10 Timothy A. Ryan, New York, USA
THE COST OF THINKING: THE LOCAL ECO-
NOMY OF SYNAPSE FUNCTION
- 14:00 Andrew King, Oxford, UK
NEURAL BASES FOR ADAPTATION TO MO-
NAURAL DEPRIVATION
- 14:30 Martin Heine, Magdeburg
EXTRACELLULAR CALCIUM CHANNEL SUB-
UNITS SHAPE NEURONAL CONNECTIVITY
- 15:00 Marisa Karow, Munich
PROBING THE TRANSCRIPTIONAL PROGRAMS
UNDERLYING HUMAN NEUROGENESIS
THROUGH DIRECT REPROGRAMMING
- 15:30 **Coffee Break and Poster Session**
- 16:30 Tran Tuoc, Göttingen
EPIGENETIC REGULATION IN CORTICAL
EXPANSION
- 17:00 Alessio Attardo, Munich
CELLULAR SUBSTRATES FOR NETWORK INFOR-
MATION PROCESSING IN HIPPOCAMPAL CA1
- 17:30 **Coffee Break**
- 18:00 Tara Keck, London, UK
SYNAPTIC PLASTICITY IN THE MOUSE VISUAL
CORTEX
- 18:50 **Closing Remarks**
(Dorothea Schulte, Frankfurt/Main)



Introductory Remarks to Satellite Symposium (Sat2)

**GBM Study Group
'Molecular Neurobiology'**

**RNA-dependent mechanisms in CNS
development and pathology**

Kent Duncan and Jörg W. Bartsch, Hamburg and Marburg

RNA-based regulation is increasingly appreciated to be important for both brain development and neurodegenerative disease. Yet the underlying biochemical mechanisms that impact on function of specific cell classes remain unclear and largely unexplored. Speakers in this symposium will present their work at the interface between RNA biochemistry and *in vivo* functions in the nervous system.

The satellite symposium is supported by the GBM and open for everyone.



Satellite Symposium (Sat2)

Wednesday, March 20, 2019
9:00 - 12:00, Hall 101

Chairs: Kent Duncan and Jörg W. Bartsch,
Hamburg and Marburg

- 09:00 **Welcome and Opening Remarks**
(Jörg W. Bartsch/Kent Duncan)
- 09:15 Peter Scheiffele, Basel
POST-TRANSCRIPTIONAL MECHANISMS FOR
NEURONAL WIRING AND PLASTICITY
- 09:45 Kent Duncan, Hamburg
TRANSLATIONAL CONTROL IN NEURONAL
DEVELOPMENT AND DISEASE
- 10:15 Halyna Shcherbata, Göttingen/Hannover
miRNA-BASED REGULATION IN NERVOUS
SYSTEM DEVELOPMENT AND FUNCTION
- 10:45 Utz Fischer, Würzburg
mRNA METABOLISM AND ITS LINK TO
NEURODEVELOPMENTAL DISEASES
- 11:15 Dorothee Dormann, Munich
RNA-BINDING PROTEINS IN NEURODE-
GENERATION – MOLECULAR MECHANISMS
CONTROLLING THEIR LOCALIZATION, PHASE
SEPARATION AND RNA-BINDING
- Closing Remarks**
(Jörg W. Bartsch/Kent Duncan)



Introductory Remarks to Symposium 1

Common principles of spatial and temporal sensory processing

Carlotta Martelli, Marion Silies and Jan Clemens, Konstanz, Mainz and Göttingen

In the outside world (or in a conference room), our sensory organs are exposed to different sensory cues that change in space and time. All animals rely on the efficient processing of this sensory information to make behavioral decisions. The transformations that take place within the underlying neural circuits must be precise and flexible at the same time, and can therefore be complex. This is not only true in our brain, but also in the smaller brains of invertebrates that we use as models to address basic questions of sensory processing. Such organisms allow us to study in detail the neural circuits and computations involved in sensing and to link input stimuli to behavioral outputs.

The behavior of an animal is often tuned to specific temporal or spatial features of sensory cues. This is true in different sensory contexts: minimal changes in odor concentration can for example attract a flying *Drosophila* to an odor source, female flies or crickets are sensitive to specific temporal structures in the song of a mating partner, and visual cues can be interpreted precisely over space and time to help the fly navigate its environment.

Although olfaction, audition and vision mediate very different tasks, the underlying neural computations often turn out to involve similar mechanisms. For example, all three sensory pathways need to adapt on multiple time scales in order to maintain responsiveness to the stimulus and optimally encode its properties. Moreover, all three sensory modalities make use of local inhibition to scale the response of single neurons by the summed activity of the population, a computation called divisive normalization. Across modalities, inhibition and excitation interact in a precisely timed manner to allow the extraction of spatial and/or temporal patterns.

We believe that further insight in sensory processing can be boosted by the exchange between communities of scientists working in different sensory modalities. In this symposium we will discuss recent advances in the understanding of the neural mechanisms for the encoding of temporal and spatial patterns in olfaction, mechanosensation, audition and vision in model and non-model insects. By bringing together speakers working on different modalities, we will highlight common principles of sensory computation.

Symposium 1

Wednesday, March 20, 2019

14:30 - 16:30, Lecture Hall 8

Chairs: *Carlotta Martelli, Marion Silies and Jan Clemens,
Konstanz, Mainz and Göttingen*

- 14:30 Carlotta Martelli, Konstanz
ADAPTIVE RESPONSES AND POPULATION
DYNAMICS IN THE OLFACTORY SYSTEM OF
DROSOPHILA (S1-1)
- 14:55 Barani Raman, Saint Louis, USA
A COMPUTATIONAL LOGIC FOR OLFACTION
(S1-2)
- 15:20 Alexander Chockley, Cologne
SUBGROUPS OF FEMORAL CHORDOTO-
NAL ORGAN NEURONS DIFFERENTIALLY
AFFECT LEG MOVEMENTS AND COORDINA-
TION IN *DROSOPHILA MELANOGASTER* (S1-3)
- 15:30 Berthold Hedwig, Cambridge, UK
UNRAVELING A DELAY-LINE AND COINCI-
DENCE DETECTOR CIRCUIT FOR AUDITORY
PATTERN RECOGNITION (S1-4)
- 15:55 Katja Sporar, Göttingen
CELLULAR AND CIRCUIT MECHANISMS THAT
SEPARATE LUMINANCE AND CONTRAST SEN-
SITIVITY IN PERIPHERAL VISUAL PROCESSING
(S1-5)
- 16:05 Karin Nordstrom, Adelaide, Australia
HOVERFLY VISION IN NATURALISTIC
SURROUNDS (S1-6)



Introductory Remarks to Symposium 2

Optogenetics - tool development and application in neuroscience

Alexander Gottschalk, Frankfurt/Main

Optogenetic methods have opened a multitude of new possibilities for research in basic neuroscience, but also in understanding the neural and circuit basis of animal behavior, as well as of psychiatric disease, for example depression. Optogenetic methods further bear the potential for novel therapy of neurological and degenerative diseases. Optogenetic tools are light-sensitive proteins, adopted from nature, or engineered in the lab, which allow addressing different aspects of neuronal physiology, simply by application of light. Prominent optogenetic tools are microbial rhodopsins, which are used to induce depolarizing or hyperpolarizing membrane currents. Sophisticated regimes of expression of these tools in specific cell types *in vivo*, and illumination deep inside the brain, enable evoking complex patterns of activity, driving distinct behaviors, or modulating neuronal circuits. These tools can also be directed to intracellular membranes. Other optogenetic tools address enzymatic activities, e.g. generating or degrading second messengers, which can be linked to different cellular activities for two-component optogenetic control. The numerous and diverse applications of optogenetic tools sparked an interest in more functionalities to be rendered light-sensitive. Efforts to identify or generate novel optogenetic tools (and applications), including hardware for specific light delivery, are funded by the German Research Council (DFG) under the umbrella of the priority program SPP1926 (www.spp1926.org). In this symposium, members from the SPP1926 (Soojin Ryu, Silvia Rodriguez-Rozada, Benjamin Rost) are joined by Alexander Dieter, Yoon Seok Kim and Ofer Yizhar, to report on development of novel tools and their application in different model systems from cultured neurons, to flies, zebrafish and rodents. The tools and topics include: natural and engineered anion-conducting microbial rhodopsins and their structure, applied for neuronal silencing in cells and animals; Two-component optogenetics using light-activated adenylyl cyclases and cAMP-gated ion channels; Intracellular localization of engineered tools for organellar optogenetics; Exploring and affecting the stress response axis by optogenetics in zebrafish; Dissection of prefrontal circuits for cognitive control; Potential therapeutic applications for hearing restoration. We are looking forward to an exciting afternoon at the NWG Göttingen Meeting 2019!

Symposium 2

Wednesday, March 20, 2019

14:30 -16:30, Lecture Hall 9

Chair: Alexander Gottschalk, Frankfurt/Main

14:30 **Opening Remarks**

- 14:34 Yoon Seok Kim, Stanford, USA
STRUCTURAL MECHANISMS AND APPLICATIONS OF CHANNEL-TYPE OPTOGENETIC TOOLS (S2-1)
- 14:56 Silvia Rodriguez-Rozada, Hamburg
INTERROGATION OF NEURONAL CIRCUIT FUNCTION USING CUSTOMIZED OPTOGENETIC ACTUATORS AND SILENCERS (S2-2)
- 15:08 Benjamin Rost, Berlin
OPTOGENETIC TOOLS FOR NEUROSCIENCE BEYOND THE CLASSICAL APPLICATION OF MICROBIAL RHODOPSINS (S2-3)
- 15:30 Soojin Ryu, Mainz
OPTOGENETIC MANIPULATION OF THE STRESS RESPONSE IN LARVAL ZEBRAFISH (S2-4)
- 15:52 Alexander Dieter, Göttingen
NEAR PHYSIOLOGICAL SPECTRAL RESOLUTION AND DYNAMIC RANGE OF COCHLEAR OPTOGENETICS (S2-5)
- 16:04 Ofer Yizar, Rehovot, Israel
OPTOGENETIC DISSECTION OF PREFRONTAL CIRCUITS FOR COGNITIVE CONTROL (S2-6)
- 16:26 **Concluding Remarks**



Introductory Remarks to Symposium 3

Keeping neurons alive – erythropoietin, its variants and its receptors

Nina Hahn and Ralf Heinrich, Göttingen

Beneficial functions of recombinant erythropoietin (Epo) have frequently been employed for treatment after stroke, in neurodegenerative diseases and neuropsychiatric disorders, however, hematopoietic adverse effects still prevent a general clinical use. Hence, unraveling the different molecular pathways underlying Epo's hematopoietic and neuroprotective effects is of great importance. Our symposium "Keeping neurons alive – erythropoietin, its variants and its receptors" will highlight recent developments in the characterization of Epo-receptors and specific Epo-like ligands involved in neuroprotection and neuroregeneration.

Endogenous expression and release of erythropoietin in the nervous system (from neurons, glia and endothelial cells) has been documented by numerous studies. Epo plays important roles for brain development and adapts nervous cells to changing conditions. In addition to the homodimeric Epo-receptor (EpoR), which stimulates erythropoiesis in the bone marrow, alternative Epo-receptors mediate protective and regenerative functions in the nervous system. These alternative Epo-receptors can selectively be activated by some endogenous Epo splice variants and designed Epo-mimetic derivatives which do not stimulate erythropoiesis via homodimeric EpoR. It is meanwhile accepted that different types of neurons and glia express different types of Epo-receptors and that their expression may depend on particular physiological challenges that cells have to cope with. Knowledge about specific Epo-receptors with respect to their interaction with Epo-like ligands, their expression and their impact on the challenged neurons will enable the clinical treatment of compromised nervous functions without unwanted side effects on other tissues or erythropoiesis.

Symposium 3

Wednesday, March 20, 2019
14:30 -16:30, Lecture Hall 103

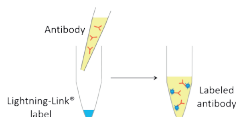
Chairs: *Nina Hahn and Ralf Heinrich, Göttingen*

- 14:30 **Opening Remarks**
- 14:35 Daniela Ostrowski, Kirksville, USA
HOW ERYTHROPOIETIN MEDIATES ITS NEUROPROTECTIVE EFFECTS (S3-1)
- 14:55 Christel Bonnas, Göttingen
EV-3, AN ENDOGENOUS HUMAN ERYTHROPOIETIN ISOFORM WITH DISTINCT FUNCTIONAL RELEVANCE (S3-2)
- 15:20 Nina Hahn, Göttingen
EPO-INDUCED NEUROPROTECTION: CRUCIAL ROLE FOR ORTHOLOGUES OF THE ORPHAN CYTOKINE RECEPTOR CRLF3 (S3-3)
- 15:40 Edith Schneider-Gasser, Zurich, Switzerland
ERYTHROPOIETIN SIGNALING IN MOUSE ANGIO-OLIGO-NEUROGENESIS (S3-4)
- 16:05 Pardes Habib, Aachen
ERYTHROPOIETIN REGULATES ANTI-APOPTOTIC TMBIM FAMILY MEMBERS AFTER ISCHEMIC STROKE (S3-5)



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Introductory Remarks to Symposium 4

Neurological autoimmunity: the role of pathogenic antibodies against neuron and glia proteins

*Christian Moritz and Claudia Sommer, Saint-Étienne/
Lyon (France) and Würzburg*

Autoimmune disorders affect 5-10% of the population. The nervous system is a common target of autoimmunity, e.g., via autoantibodies. Around 20 diseases have already been identified to be at least partly caused by autoantibodies against neural proteins. These discoveries have illuminated pathophysiology and may improve future diagnostics and treatment options.

The speakers of our symposium, leading researchers of this field, will report about recent research highlights and give examples of autoantibody-related neuronal diseases. They will discuss implications for diagnostics & treatment and address the definition of new disease entities.

Brigitte Wildemann will focus on pathogenesis and clinical peculiarities of diseases related with antibodies against neuronal transmembrane proteins. Her group described a wide clinical range of aquaporin-4 (AQP-4)- and myelin oligodendrocyte glycoprotein (MOG)-related autoimmunity and found that anti-AQP-4 antibodies predict disease progression and success of treatment.

Edgar Meinl will focus on the pathogenicity of MOG-Abs and on details of antigen recognition. His group has shown that antibodies to MOG affinity-purified from the blood of patients were pathogenic upon transfer into rats by two different mechanisms. The heterogeneity of epitopes on MOG recognized by patients will be presented.

Claudia Sommer likewise has many years of clinical and research experience in neuropathies and will expand the view to the peripheral nerve system. Here, paranodal proteins are an autoantibody target. Known axo-glia antigens will be focused, such as the paranodal contactin-associated protein 1 (CNTNAP1).

Dominik Jäger will fill the gap between the autoantibody discovery and its diagnostic use. As an expert of method standardization for medical diagnostics, he will talk about technical challenges for developing standardized serological tests for the detection of autoantibodies.

Our student speaker Yara Nasser will report about the role of anti-FGFR3 antibodies in peripheral sensory neuropathies and the molecular mechanisms of induced neurotoxicity.

Symposium 4

Wednesday, March 20, 2019
14:30 - 16:30, Lecture Hall 104

Chairs: Christian Moritz and Claudia Sommer,
Saint-Étienne/Lyon (France) and Würzburg

- 14:30 **Opening Remarks**
- 14:35 Brigitte Wildemann, Heidelberg
THE CLINICAL SPECTRUM AND DIAGNOSIS
OF AQP4-IGG-ASSOCIATED AND MOG-IGG-
ASSOCIATED DISORDERS (S4-1)
- 15:00 Edgar Meinl, Munich
AUTOANTIBODIES AGAINST MYELIN OLIGO-
DENDROCYTES GLYCOPROTEIN (MOG):
DETAILS OF ANTIGEN RECOGNITION AND
PATHOGENICITY (S4-2)
- 15:25 Claudia Sommer, Würzburg
AUTOANTIBODIES IN PERIPHERAL
NEUROPATHIES (S4-3)
- 15:50 Dominik Jäger, Lübeck
DEVELOPMENT OF AUTOANTIBODY TEST
SYSTEMS AGAINST NEURAL PROTEINS (S4-4)
- 16:15 Yara Nasser, Saint-Étienne/Lyon, France
ANTI-FGFR3 ANTIBODY: A BIOMARKER OF
SENSORY NEURONOPATHIES OR AN ACTIVE
PLAYER OF NEURON DEGENERATION? (S4-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 5

Serotonin and its developmental role in shaping brain plasticity and neuropsychological phenotypes

Natalia Alenina, Piotr Popik and Francesca Calabrese, Berlin, Crakow (Poland) and Milan (Italy)

Serotonin is a monoamine that acts as a neurotransmitter with essential functions in the adaptation of organisms to their environment in the mammalian brain. Serotonin neurotransmission influences core neuropsychological processes including aversive processing, behavioural inhibition, and social interactions. Moreover, serotonin plays a key role in the development of neuropsychiatric disorders, and the serotonergic system is the most commonly used target of drugs in psychiatry. Even though decreased serotonergic neurotransmission has been classically related to the etiopathogenesis of these disorders, much controversy has arisen once genetically modified models appeared which challenged this serotonin-driven hypothesis.

Recently, a new wave of research revealed that serotonin has powerful neurotrophic actions and plays a key role in neurodevelopmental processes, in addition to being a neurotransmitter. Serotonin was found to control all basic developmental processes from proliferation, differentiation, migration, to the refinement of brain circuits. These serotonin-mediated neurodevelopmental processes interact with pre- and postnatal environmental factors and cause increased vulnerability to neuropsychiatric disorders, affect behaviour and cognitive functions. Whereas the neurodevelopmental role of serotonin is already well documented, the sources of serotonin during development and molecular bases of these processes are still not well studied. The talks in this symposium take profit of murine and rat models in which the serotonin system is modified by targeting different molecules like the serotonin transporter SERT, the transcription factor *Pet1*, or tryptophan hydroxylase (TPH) 1 and 2, the rate-limiting enzymes of serotonin synthesis in the brain and periphery, respectively, to evaluate the contribution of lowered/elevated serotonin levels during development to brain function and the pathogenesis of neuropsychiatric disorders.

Proceedings of the ERA-NET NEURON consortium RESPOND.

Symposium 5

Wednesday, March 20, 2019
14:30 - 16:30, Lecture Hall 105

Chairs: Natalia Alenina, Piotr Popik and
Francesca Calabrese,
Berlin, Crakow (Poland) and Milan (Italy)

- 14:30 **Opening Remarks**
- 14:35 Natalia Alenina, Berlin
SEROTONIN AND DEVELOPMENT: THE ROLE
OF THE PERIPHERAL SEROTONERGIC SYSTEM
(S5-1)
- 15:00 Sophie Scotto-Lomassese, Paris, France
ROLE OF SEROTONIN IN MATERNAL
BEHAVIOUR (S5-2)
- 15:25 Judith Homberg, Nijmegen, The Netherlands
INCREASED MATERNAL EXTRACELLULAR SERO-
TONIN LEVELS BENEFICIALLY INFLUENCES
OFFSPRING'S ANXIETY- AND ANHEDONIA-
LIKE BEHAVIOUR (S5-3)
- 15:50 Agnieszka Nikiforuk, Crakow, Poland
HIGH AND LOW SEROTONIN: IMPLICATIONS
FOR NEUROPSYCHIATRIC DISORDERS (S5-4)
- 16:15 Franziska E. Müller, Hannover
THE IMPACT OF SEROTONERGIC SIGNALING
IN ASTROCYTES (S5-5)
- 16:25 **Concluding Remarks**





Introductory Remarks to Symposium 6

Novel insights into the regulation of hypothalamic neurocircuits and functions

Henning Fenselau and Sophie Steculorum, Cologne

The hypothalamus is the master regulator of core behavioural and physiological functions such as feeding, locomotor activity, glucose and temperature regulation. Over the last decade, research investigating the hypothalamic neurocircuitry underlying these behavioural and physiological processes has progressed due to the emergence of novel neuroscience technologies allowing to map, manipulate and monitor molecularly defined cell types (i.e. Cre-driver mice in combination with Cre-enabled optogenetics, *in vivo* electrophysiology and calcium imaging, and chemogenetics). Through the use of these advances, our understanding of the exact functions and regulatory principles of defined hypothalamic neurons and the underlying neurocircuitry has grown considerably.

The symposium will cover novel insights into the regulation of hypothalamic neurocircuits and functions including recent data on (1) downstream (Rüdiger Klein) and (2) upstream pathways (Alexey Ponomarenko) of key hypothalamic neuronal populations involved in feeding behaviour. Furthermore, the speakers will share recent insight into (3) molecular diversity of distinct hypothalamic populations (Jan Siemens) and (4) the emerging role of hypothalamic astrocytes in controlling energy and glucose homeostasis (Cristina García Cáceres). Altogether, thanks to the participation of internationally recognized scientists with diverse and complementary expertise, the symposium will cover key discoveries on hypothalamic functions that expand our fundamental knowledge of the central control of energy, glucose and temperature homeostasis. This symposium will, furthermore, provide detailed insights into novel technological advances to study the regulation of hypothalamic neurocircuits and their function. Finally, given that dysfunctions of the hypothalamic neurocircuitry can lead to eating disorders and endocrine dysfunction, the presented findings will open the discussion on putative novel therapeutic approaches.

Symposium 6

Wednesday, March 20, 2019
14:30 - 16:30, Lecture Hall 102

Chairs: Henning Fenselau and Sophie Steculorum,
Cologne

- 14:30 **Opening Remarks**
- 14:35 Rüdiger Klein, Martinsried
CENTRAL AMYGDALA CIRCUITS CONTROL-
LING APPETITIVE BEHAVIOUR (S6-1)
- 14:55 Alexey Ponomarenko, Berlin
TEMPORAL SEPARATION OF NEURONAL
ENSEMBLES IN HYPOTHALAMUS REGULATES
INNATE BEHAVIOURS (S6-2)
- 15:15 Jan Siemens, Heidelberg
TRP ION CHANNELS – INTERNAL/HYPOTHA-
LAMIC TEMPERATURE SENSORS AND GUAR-
DIANS OF HOMEOSTASIS? (S6-3)
- 15:35 Cristina García Cáceres, Garching
UCP2 IN ASTROCYTES REGULATES THE
ACTIVATION OF NPY NEURONS TO
CONTROL FEEDING BEHAVIOUR (S6-4)
- 16:00 Tim Gruber, Garching
REMODELING OF THE HYPOTHALAMIC VAS-
CULATURE UPON HYPERCALORIC FEEDING
DEPENDS ON ASTROGLIAL HIF1 α AND VEGF
(S6-5)
- 16:10 Hanna E. van den Munkhof, Cologne
APPLYING UNSUPERVISED MACHINE LEAR-
NING TO STUDY THE LATERAL HYPOTHA-
LAMIC CIRCUITRY UNDERLYING MOTIVATED
BEHAVIOUR IN FREELY MOVING MICE (S6-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 7

Short-term adaptation in early auditory processing: from synaptic depression to focal perception

Michael Pecka and Andrea Lingner, Martinsried

The sensory conditions surrounding us fluctuate constantly. Likewise, the relative relevance of particular stimuli in the environment can change at any moment. To remain informative and reflect these transient changes, neural systems and their processing must be constantly updated. To this end, processing can adapt to the sensory environment on a short time scale by matching neuronal sensitivity to the stimulus range that is concurrently most likely to occur. In the auditory system, such adaptations in the dynamic range of neuronal coding to stimulus statistics can be found on every level from cochlea to cortex. This symposium brings together recent advances on the topic of short-term stimulus (or context-) specific adaptation on all these levels. We will provide an overview on our current understanding how diverse mechanisms ranging from synaptic depression to dedicated feedback circuits can facilitate neuronal sensitivity to prevalent stimulus statistics. We will furthermore report on the newest insight into the involvement of such mechanisms on the earliest auditory levels in predictive processing and how they might influence psychophysical performance. Matthew Xu-Friedman will describe synaptic mechanisms that determine the magnitude and temporal profile of stimulus history dependent short-term adaptation in the auditory nerve. Henrike von Gersdorff will report on a novel and unconventional form of short-term adaptation in inhibitory brainstem synapses. Elisa Krächan will describe a novel form of plasticity that may enable efficient computation of repetitively occurring stimuli. Jörg Encke will talk about efficient adaptation in brainstem circuits to the concurrent spatial statistics that enhances sound source resolution. Andrea Lingner will report on the effects and time course of perceptual short-term adaptation for spatial hearing. Finally, Israel Nelken will present new insight into neural processing underlying stimulus-specific adaptation, which is the reduction in the response to a common stimulus that does not generalize, or only partially, to other rare stimuli.

Symposium 7

Thursday, March 21, 2019
11:30 – 13:30, Lecture Hall 8

Chairs: Michael Pecka and Andrea Lingner,
Martinsried

- 11:30 **Opening Remarks**
- 11:35 Matthew Xu-Friedman, Buffalo NY, USA
REGULATION OF AUDITORY NERVE SYNAPTIC
FUNCTION BY ACTIVITY (S7-1)
- 12:00 Henrike von Gersdorff, Portland, USA
BUILDING FAST AND RESILIENT INHIBITORY
SYNAPSES WITH Ca^{2+} NANODOMAINS AND
MICRODOMAINS (S7-2)
- 12:25 Elisa Krächan, Kaiserslautern
NOVEL FORM OF SYNAPTIC PLASTICITY:
REBOUND EFFECT AT MNTB-LSO INPUTS (S7-3)
- 12:35 Jörg Encke, Garching
ADAPTATION TO STIMULUS STATISTICS EN-
HANCES THE SEPARABILITY BETWEEN INTER-
AURAL LEVEL DIFFERENCES ON A POPULATION
BASIS (S7-4)
- 12:45 Andrea Lingner, Martinsried
TIME COURSE OF STIMULUS-HISTORY DEPEND-
ENT ADAPTATION OF AUDITORY SPATIAL
PERCEPTION (S7-5)
- 13:05 Israel Nelken, Jerusalem, Israel
CORTICAL MECHANISMS UNDERLYING
STIMULUS-SPECIFIC ADAPTATION AND
DEVIANCE DETECTION (S7-6)



Introductory Remarks to Symposium 8

From astrocytes to behaviors: searching the cellular and molecular roots of emotion dysfunctions

Barbara Di Benedetto and Inga Neumann, Regensburg

In the central nervous system, astrocytes actively regulate the shaping and functions of the synaptic compartment at the so-called "tripartite synapse". Modifications in the efficacy of synaptic communication enable nerve cells to acquire and store information to favor the proper adaptation of an organism to its changing environment. Any alteration in synaptic activity can lead to the onset of neuropsychiatric disorders. Therefore, astrocytes play essential roles in both healthy and diseased brains.

Astrocytes additionally represent bridging elements between synaptic and vascular compartments, thereby forming a functional neurovascular unit (NVU) that might "sense" the brain state and adjust its molecular profile or secrete factors in the bloodstream as a reflection of this state. Thus, astrocyte-specific molecular prints may become useful biomarkers of distinct cellular (dys)functions in health and disease. In a translational perspective, their characterization in pathological conditions may support the development of diagnostic tools or the selection of tailored treatment options for individual patients.

Among cellular dysfunctions, impaired oxytocinergic tone, glutamatergic synaptic activity or astrocyte morphology are hallmarks of emotion dysfunctions and animal models have been pivotal to identify various pathophysiological mechanisms.

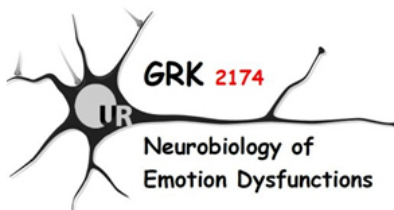
In the frame of the DFG-funded Research Training Group 2174 "Neurobiology of emotion dysfunctions", this symposium aims at presenting novel insights about: 1. how extremely painful experiences such as partner loss might impact the CRF/oxytocin signaling pathways, leading to the onset of a depressive-like behavior (Oliver Bosch); 2. how the endocannabinoid system modulates astroglial functions and impacts learning processes (Giovanni Marsicano); 3. the role of the astrocytic-neuronal ephrinA/EphA system, membrane-bound proteins which can be released upon activation, on the distribution and functions of AMPA glutamate receptors in health and mood disorders (Barbara Di Benedetto); 4. the application of sophisticated electrophysiological measurements to study the regulatory functions of astrocytes on synaptic communication (Christine Rose).

Symposium 8

Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 9

Chairs: Barbara Di Benedetto and Inga Neumann,
Regensburg

- 11:30 **Opening Remarks**
- 11:40 Oliver Bosch, Regensburg
PARTNER LOSS IMPAIRS BRAIN OXYTOCIN
SIGNALLING: PHYSIOLOGICAL AND
EMOTIONAL CONSEQUENCES IN MONO-
GAMOUS PRAIRIE VOLES (S8-1)
- 12:00 Giovanni Marsicano, Bordeaux, France
CB1 RECEPTOR SIGNALING IN THE BRAIN:
THE WHERE MATTERS (S8-2)
- 12:20 Barbara Di Benedetto, Regensburg
ASTROCYTIC EPHRINA IMPACTS THE DISTRI-
BUTION OF SYNAPTIC AMPA RECEPTORS IN
HEALTH AND DEPRESSION (S8-3)
- 12:40 Christine Rose, Düsseldorf
ASTROCYTE REGULATION OF NEURONAL
EXCITABILITY (S8-4)
- 13:00 Celia Roman, Regensburg
ANTIDEPRESSANT DRUGS REQUIRE ASTRO-
CYTES TO PRIME AN EARLY SYNAPTIC
PRUNING AND REMODELLING IN THE
PREFRONTAL CORTEX (S8-5)
- 13:10 Carl Meinung, Regensburg
OXYTOCIN RAPIDLY AFFECTS ASTROCYTIC
MORPHOLOGY (S8-6)
- 13:20 **Concluding Remarks**





Introductory Remarks to Symposium 9

Resolving the cognitive function of prefrontal circuits: from neurons to behavior

Ileana L. Hanganu-Opatz and Ilka Diester, Hamburg and Freiburg

The prefrontal cortex is a complex structure that plays diverse roles in cognition and is disrupted in multiple diseases. Despite decades of research, we have no formal model of how its circuits predict its multifaceted role in behavior and disease. This symposium will present recent research using a range of modern physiological, behavioral, and histological techniques to advance new perspectives on the intersection between structure, function, and development of prefrontal networks.

One guiding scheme of the symposium is the major quest in both rodent and primate research to reveal how the prefrontal cortex enables complex behavior, and how dysfunction of this brain area contributes to mental disorders. We will discuss current approaches to define the structure and function of the adult mouse prefrontal cortex as well as efforts undertaken with the goal to shed light on how the rodent prefrontal cortex relates to the primate prefrontal cortex (Carlen). In particular, we will present new ways of framing the connectivity and cytoarchitecture of the rodent prefrontal cortex and characterize homologies between rodents and primates (Heilbronner). A second focus of this symposium lies on functional interactions between prefrontal cortex and other brain areas. In this framework, we will describe how neuronal activity within prefrontal-basal ganglia circuits maps onto different stages of goal directed behavior (Womelsdorf). Moreover, we will dissect the thalamo-prefrontal interactions during working memory in mice and assess the relevance of their dysfunction for mental illness (Kellendonk). Together, these interactive presentations will bring together researchers using cutting-edge tools to discuss segregation and overlap of functional circuits with the goal of integrating across fields to develop new models of rodent PFC structure and function.

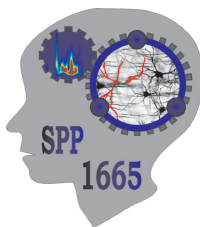
The symposium is supported by the DFG Priority Program SPP 1665 "Resolving and manipulating neuronal networks in the mammalian brain".

Symposium 9

Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 10

Chairs: Ileana L. Hanganu-Opatz and Ilka Diester,
Hamburg and Freiburg

- 11:30 Marie Carlen, Stockholm, Sweden
QUANTITATIVE WHOLE BRAIN MAPPING
OF THE MONOSYNAPTIC INPUT TO FOUR
DIFFERENT CELL TYPES IN THE MOUSE
MEDIAL PREFRONTAL CORTEX (S9-1)
- 11:55 Christoph Kellendonk, New York, USA
THALAMO-PREFRONTAL INTERACTIONS IN
WORKING MEMORY (S9-2)
- 12:20 Sara Rachel Heilbronner, Minneapolis, USA
CONNECTIVITY REVEALS PREFRONTAL
CORTICAL CIRCUIT HOMOLOGIES BETWEEN
RODENTS AND PRIMATES (S9-3)
- 12:45 Thilo Womelsdorf, Nashville, USA
PREFRONTAL CORTEX CIRCUITS AS A HUB
FOR FLEXIBLE LEARNING AND ATTENTIONAL
FILTERING OF GOAL-IRRELEVANT INFORMA-
TION (S9-4)
- 13:10 Mattia Chini, Hamburg
MICROGLIA INHIBITION RESCUES
DEVELOPMENTAL HYPOFRONTALITY IN A
MOUSE MODEL OF COGNITIVE IMPAIRMENT
(S9-5)
- 13:20 Abhilash Dwarakanath, Tübingen
LOW FREQUENCY OSCILLATORY BURSTS
IN THE MACAQUE PREFRONTAL CORTEX PRE-
DICT SPONTANEOUS TRANSITIONS IN THE
CONTENT OF CONSCIOUSNESS (S9-6)





retracted

Introductory Remarks to Symposium 10

Brain-machine-interface in paralysis

Niels Birbaumer, Tübingen

The symposium presents an overview on recent advances in non-invasive and invasive brain-machine interfaces (BMI) in paralysis. Clinical and basic science and animal research focused on direct brain-machine connections to translate brain commands in movement and language without involvement of the motor system is presented. Applications to locked-in patients, chronic stroke and brain disorders will be discussed.

retracted

Symposium 10

*Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 105*

Chair: Niels Birbaumer, Tübingen

- 11:30 **Opening Remarks**
- 11:35 Gabriel Curio, Berlin
NON-INVASIVE SINGLE-TRIAL EEG DETECTION
OF EVOKED HUMAN NEOCORTICAL POPU-
LATION SPIKES (S10-1)
- 12:00 John Donoghue, Geneva, Switzerland
POTENTIAL CHALLENGES FOR IMPLANTABLE
BRAIN COMPUTER INTERFACES (S10-2)
- 12:25 Niels Birbaumer, Tübingen
BCI IN STROKE REHABILITATION (S10-3)
- 12:50 Eilon Vaadia, Jerusalem, Israel
VOLITIONAL CONTROL OF SPATIOTEMPORAL
PATTERNS OF NEURONAL SYNCHRONY VIA
BRAIN-MACHINE INTERFACE (S10-4)
- 13:15 Daniel G. Schmidt, Ulm
EXECUTIVE EYE MOVEMENT IMPAIRMENT IN
PRESYMPTOMATIC AMYOTROPHIC LATERAL
SCLEROSIS MUTATION CARRIERS (S10-5)
- 13:25 **Concluding Remarks**
Joachim Fährlich, Hamburg (Family and care
taker of completely paralysed patient)



Introductory Remarks to Symposium 11

The 4Rs in animal-based neuroscience research: Refinement, Reduction, Replacement, Responsibility

Roman Stilling and Stefan Treue, Münster and Göttingen

This symposium focusses on key aspects of how to strive for the highest quality of science and animal welfare when using animals in neuroscience research in order to maximize epistemic benefit. It aims at scientists who work with animals and want to address their responsibility by learning about cutting-edge aspects of issues of high relevance for biomedical research.

For responsible and ethically justifiable animal research a number of criteria need to be met. This includes compliance with the 3Rs principle (replace, reduce, refine), a useful framework for the efforts made to combine high-quality science with the best possible animal welfare. However, the moral obligation to increase animal welfare in experiments and to promote best practice, as well as a culture of care for the animals goes far beyond this. This has led to the proposal to expand the 3Rs by a 4th 'R': responsibility, to highlight the critical role that scientists play in ensuring the highest standards in their experiments.

This symposium outlines means to ensuring best-practice in animal research:

Every scientist planning an experiment involving animals must carefully check for animal-free alternative scientific approaches. Given the quick developments of some of these methods it is paramount to stay up-to-date on their abilities and limitations.

Recent studies reveal that a substantial number of biomedical studies suffer from a range of issues that seriously limits their scientific value. How can we overcome issues like biases in data acquisition and analysis, deficiencies in the statistical assessment (including underpowering animal studies)?

Statistical approaches, such as meta-analyses, pooling data across similar studies to enhance the reliability of findings, offer an opportunity to enhance scientific output, both in quality and quantity, without a corresponding increase in animal research.

Publicly funded research is under the obligation to communicate transparently about the use of taxpayers' funds. What are efforts and methods to increase pro-active communication about animal research at the international, national and regional level and which experiences have been made with this approach?

Symposium 11

Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 103

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

11:30 **Opening Remarks**

11:35 Michael Heide, Dresden
BRAIN ORGANOIDS AS IDEAL REPLACEMENTS
OF ANIMAL MODELS IN NEUROSCIENCE? -
CHANCES AND LIMITATIONS OF A BRAIN IN
A DISH (S11-1)

12:00 Ulrich Dirnagel, Berlin
NAVIGATING ETHICS AND EVIDENCE IN PRE-
CLINICAL NEUROSCIENCE RESEARCH (S11-2)

12:25 Malcolm Macleod, Edinburgh, Scotland
THE REPRODUCIBILITY OPPORTUNITY (S11-3)

12:50 Stefan Treue and Roman Stilling, Göttingen and
Münster
RESPONSIBILITY INCLUDES COMMUNICA-
TION AND TRANSPARENCY ABOUT ANIMAL
RESEARCH (S11-4)

13:15 **Discussion/Concluding Remarks**



Introductory Remarks to Symposium 12

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.

For the first time, the NWG will award three prizes (500, 300, 200 €) for student participants at the Göttingen 2019 meeting - the **Breaking News' Best Paper Awards**.

The prizes will be given to three young scientists who present the best talks in the Breaking News Symposia. Criteria for selection are the novelty of the findings which are presented and their potential impact on future research and the quality of the presentation, both the speech and the slides. A jury will pick the awardees, and the awards will be announced and bestowed during the conference at the beginning of the last plenary lecture of the day.

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

- 11:30 **Opening Remarks**
- 11:35 Felix Clotten, Cologne
DESCENDING CONTROL OF TWO COUPLED LOCOMOTOR SYSTEMS (S12-1)
- 11:45 Sonja Sivcev, Praha, Czech Republic
TESTOSTERONE DERIVATIVES INCREASE SENSITIVITY OF P2X RECEPTORS TO ATP AND ANTAGONIZE THE EFFECT OF IVERMECTIN ON DEACTIVATION (S12-2)
- 11:55 Madhura Ketkar, Mainz
A LUMINANCE-SENSITIVE CELL TYPE IN *DROSOPHILA* FACILITATES VISUAL CONTRAST COMPUTATION (S12-3)

Symposium 12

Thursday, March 21, 2019
11:30 - 13:30, Lecture Hall 104

Chair: Marc Spehr, Aachen

- 12:05 Aarti Sehdev, Konstanz
OLFACTORY OBJECT RECOGNITION BASED ON FINE-SCALE STIMULUS TIMING IN *DROSOPHILA* (S12-4)
- 12:15 Sebastian M. Molina-Obando, Göttingen
A COMBINATION OF GABA- AND GLUTAMATE-GATED CHLORIDE CHANNELS MEDIATES ON SELECTIVITY IN THE *DROSOPHILA* VISUAL SYSTEM (S12-5)
- 12:25 **Break**
- 12:35 Andreea Constantinescu, Vienna, Austria
MULTIPLEXING MOTOR FUNCTIONS AND IMPULSIVE TRAITS IS MOLECULARLY DISSOCIATED BY SUBTHALAMIC METABOTROPIC GLUTAMATE RECEPTOR 4 (S12-6)
- 12:45 Ahmed Shaaban, Göttingen
DISSECTING KEY MECHANISMS OF GUT-TO-BRAIN SIGNALLING (S12-7)
- 12:55 Thede Witschel, Tübingen
FINITE ELEMENT SIMULATIONS OF ACTIVE ELECTROCEPTION (S12-8)
- 13:05 Özge Demet Özcete, Göttingen
SOUND ENCODING AT INDIVIDUAL INNER HAIR CELL SYNAPSES (S12-9)
- 13:15 Jennifer Heck, Magdeburg
C-TERMINAL SPLICING OF PRESYNAPTIC CALCIUM CHANNELS CONTRIBUTES TO THE VARIABILITY OF NEUROTRANSMITTER RELEASE (S12-10)
- 13.25 Daniel G. Schmidt, Ulm
EXECUTIVE EYE MOVEMENT IMPAIRMENT IN PRESYMPTOMATIC AMYOTROPHIC LATERAL SCLEROSIS MUTATION CARRIERS (S12-11)



Introductory Remarks to Symposium 13

Breaking News II

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.

For the first time, the NWG will award three prizes (500, 300, 200 €) for student participants at the Göttingen 2019 meeting - the **Breaking News' Best Paper Awards**.

The prizes will be given to three young scientists who present the best talks in the Breaking News Symposia. Criteria for selection are the novelty of the findings which are presented and their potential impact on future research and the quality of the presentation, both the speech and the slides. A jury will pick the awardees, and the awards will be announced and bestowed during the conference at the beginning of the last plenary lecture of the day.

The following students were selected to give a short communication in Symposium 13 – Breaking News II:

- 14:30 **Opening Remarks**
- 14:35 Michael Schweigmann, Homburg
EXPLORING CORTICAL BRAIN NETWORKS
WITH FLEXIBLE LCP MICROELECTRODE
ARRAYS IN PARALLEL TO TWO-PHOTON
IMAGING OF ANAESTHETIZED AND AWAKE
MICE (S13-1)
- 14:45 Raziye Karapinar, Bochum
DESIGN OF AN ULTRA-FAST SWITCHING
MOUSE MELANOPSIN VARIANT WITH A
NARROW ACTION SPECTRUM (S13-2)
- 14:55 Marcel Brosch, Magdeburg
A FLEXIBLE AND TRANSPARENT ELECTRODE
ARRAY FOR CLOSED-LOOP OPTOGENETIC
STIMULATION (S13-3)

Symposium 13

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 102

Chair: Marc Spehr, Aachen

- 15:05 Sofia Elizarova, Göttingen
NANOSENSOR-BASED IMAGING OF PRESYNAPTIC DOPAMINE RELEASE (S13-4)
- 15:15 Oana Constantin, Hamburg
MANIPULATION OF INTRACELLULAR cAMP AND MEMBRANE POTENTIAL USING LIGHT ACTIVATED ADENYLYL CYCLASES AND CNG CHANNELS (S13-5)
- 15:25 **Break**
- 15:35 Golan Karvat, Freiburg
REAL-TIME NEUROFEEDBACK IN FREELY BEHAVING RATS: TRAINING A NETWORK TO STUDY A NETWORK (S13-6)
- 15:45 Meike M. Rogalla, Oldenburg
HEARING COLORS: EVALUATION OF FREQUENCY REPRESENTATION IN OPTOGENETIC MIDBRAIN IMPLANTS (S13-7)
- 15:55 Mauro Pulin, Hamburg
CHEMOGENETIC SILENCING: SYNAPTIC MECHANISMS AND LONG-TERM EFFECTS AT SCHAFFER COLLATERAL SYNAPSES (S13-8)
- 16:05 Margarita Anisimova, Hamburg
OPTOGENETIC SPIKE-TIMING-DEPENDENT PLASTICITY (OSTDP) (S13-9)
- 16:15 Yixin Tong, Freiburg
OPTOGENETIC STIMULATION OF VTA DOPAMINERGIC NEURONS IN A RODENT MODEL OF DEPRESSION (S13-10)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 14

Adaptive processes and inhomogeneous neuronal networks – two sides of the same coin?

Ulrich Egert and Stefan Rotter, Freiburg

Models of networks in the brain are often implicitly assumed to be homogeneous in structure but in fact the properties of neurons and synapses vary considerably across one and the same network. Moreover, the structure of networks is highly dynamic, driven for example by homeostatic responses to these inhomogeneities. What seems homogeneous on one scale of observation may easily appear inhomogeneous on another: parameters like neuron density, neuron types, synaptic circuit motifs, patchy connectivity patterns, and many other aspects of this sort, can be viewed either on more microscopic or more macroscopic scales.

In addition to statistical fluctuations, pathological conditions (e.g. through input deprivation, stroke, dysplasia, epilepsy, etc.) can induce dramatic changes to network structure. These changes, in turn, can provoke adaptive responses ranging from synaptic plasticity, over remodeling of axons and dendrites, to neurogenesis.

It is obvious that all this can have a profound impact on the activity dynamics of the network. The goal of this symposium is to highlight some of these phenomena from a perspective that integrates experiments and theory, encouraging a more systematic study of inhomogeneity and adaptivity in the future.

Symposium 14

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 10

Chairs: Ulrich Egert and Stefan Rotter, Freiburg

- 14:30 **Opening Remarks**
- 14:35 Samora Okujeni, Freiburg
SELF-ORGANIZED NETWORK INHOMOGENEITY GOVERNS SPONTANEOUS ACTIVITY DYNAMICS (S14-1)
- 15:05 Júlia Gallinaro, Freiburg
CELL ASSEMBLY FORMATION AND NON-RANDOM CONNECTIVITY IN NETWORKS SUBJECT TO HOMEOSTATIC STRUCTURAL PLASTICITY (S14-2)
- 15:35 Anna Levina, Tübingen
SELF-ORGANIZATION OF NEURONAL DYNAMICS BY PLASTICITY AND ADAPTATION (S14-3)
- 16:05 Christos Galanis, Freiburg
DOPAMINE BLOCKS HOMEOSTATIC EXCITATORY SYNAPTIC PLASTICITY IN IMMATURE DENTATE GRANULE CELLS OF ENTORHINO-HIPPOCAMPAL TISSUE CULTURES (S14-4)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 15

The brain oxytocin system - its complex impact on autism, social behavior, and stress

*Benjamin Jurek and Adam Steven Smith, Regensburg
and Lawrence, USA*

In recent years, the neuropeptide oxytocin (OXT) attracted considerable attention of scientists due to its ability to modulate aspects of socio-emotional behavior and stress, which we will present and discuss in this symposium on a psychological, behavioral, and molecular level in humans, rodents, and cells.

The use of OXT as pharmacological treatment option for core symptoms of autism spectrum disorder has been anticipated by studies showing that intranasal application of OXT temporarily enhances social cognition, empathy, and reciprocity in autistic patients. During behavioral interventions, individuals with autism spectrum disorder showed OXT-induced enhanced learning when the learning target is social. Such behavioral interventions rely on a core mechanism, i.e. social reinforcement learning (Schulte-Rüther).

In order to complement psychological studies in humans with the molecular processes that regulate behavior, animal research is of paramount importance. For instance, OXT dampens anxiety-related behavior in stressed voles via the activation of GABAergic OXTR neurons in the hypothalamic paraventricular nucleus (PVN), which in turn diminish the activity of stress-responsive hypothalamic corticotropin-releasing factor neurons (Smith).

We will also consider the molecular events involved in OXTR binding, the main signaling pathways activated by the OXTR and on intracellular and plasma membrane OXTR trafficking, all of which contribute to the quantitative and qualitative features of OXT responses in the brain (Busnelli). Finally, the effects of chronically applied OXT, in contrast to an acute infusion, on anxiety-related behavior will be addressed. Chronic OXT activates specific transcription factors, such as MEF-2. Dysregulated MEF-2 is associated with autism spectrum disorder and activated by the OXTR, thereby providing the molecular mechanism that links social aspects, anxiety/stress and intracellular signaling (Jurek). By addressing such diverse aspects of OXT research, we hope to create a comprehensive picture of the differential effects and their involvement in autism, social behavior, and stress.

Symposium 15

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 104

Chairs: Benjamin Jurek and Adam Steven Smith,
Regensburg and Lawrence, USA

- 14:30 **Opening Remarks**
- 14:35 Martin Schulte-Rüther, Aachen
SOCIAL REINFORCEMENT LEARNING AND
ITS NEURAL MODULATION BY OXYTOCIN
IN AUTISM SPECTRUM DISORDER (S15-1)
- 14:55 Adam Steven Smith, Lawrence, USA
OXYTOCIN AND SOCIAL CONTACT REDUCE
ANXIETY (S15-2)
- 15:15 Marta Busnelli, Milan, Italy
OXYTOCIN: ITS SIGNALING OF ACTION AND
RECEPTOR SIGNALLING IN THE BRAIN (S15-3)
- 15:35 Benjamim Jurek, Regensburg
THE BRAIN OXYTOCIN SYSTEM AND ITS
COMPLEX IMPACT ON STRESS AND ANXIETY
(S15-4)
- 16:00 Magdalena Meyer, Regensburg
OXYTOCIN ALTERS THE MORPHOLOGY OF
HYPOTHALAMIC NEURONS VIA THE TRAN-
SCRIPTION FACTOR MYOCYTE ENHANCER
FACTOR 2A (MEF-2A) (S15-5)
- 16:10 Dominik Fiedler, Münster
BRAIN-DERIVED NEUROTROPHIC FACTOR
MODULATES SYNAPTIC PROPERTIES OF
OVBNST NEURONS VIA TRKB RECEPTORS
(S15-6)
- 16:20 **Concluding Remarks**





Introductory Remarks to Symposium 16

Mitochondrial dysfunction in neurodegeneration

Ira Milosevic and Nuno Raimundo, Göttingen

Neurodegenerative diseases will become of great concern as life expectancy increases and the world population continues to age. While the precise molecular underpinnings remain elusive, among the commonalities of several neurodegenerative diseases (e.g. Parkinson, Alzheimer, Lewi-body dementia, etc.) is mitochondrial dysfunction within neuronal and glial cells. Mitochondria are key organelles in cellular metabolism, long established as the cellular ATP production engines. The role of mitochondria as signaling platforms is also prominent: these organelles coordinate several cellular processes, such as autophagy and cell death, by modulating signaling pathways and/or via physical contact sites with other organelles (e.g. lysosomes, ER, peroxisomes). Thus, a detailed understanding of mitochondrial function and pathology in the brain in the context of neurodegenerative disorders and ageing is pivotal. This symposium will highlight recent advances in the understanding of mechanisms that control mitochondrial function and dynamics, and the use of novel animal models and innovative technologies to access mitochondrial dysfunction.

Specifically, the integrity of the mitochondrial network is maintained by mitophagy, which is pivotal for proper functioning of the synapse. Nektarios Tavernarakis (Greece) will shed light on the mitochondrial turnover and homeostasis in ageing and neurodegeneration. Another level of mitochondrial quality control takes place at the level of protein homeostasis within the organelle, by a number of dedicated proteases, whose dysfunctions have profound consequences to mitochondrial morphology and function. Thomas Langer (Germany) will report on the metabolic and regulatory roles of mitochondrial proteostasis, and on consequences of its defects for neurodegenerative phenotypes. Elena Rugarli (Germany) will take us to the role of mitochondria in axon degeneration, which is a key feature of many neurodegenerative diseases. Patrik Verstreken (Belgium) uses fruit flies to address mitochondrial glitches that lead to synaptic malfunction and neurodegeneration, which is particularly relevant for the pathology of Parkinson's disease. In sum, this symposium will cover diverse aspects concerning the mechanisms of mitochondrial dysfunction in neurodegenerative diseases, building bridges between different systems of mitochondria quality control and different model systems, thereby providing the state-of-the art in the field and the path of its development in the short- and longer-term future.

Symposium 16

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 105

Chairs: *Ira Milosevic and Nuno Raimundo, Göttingen*

- 14:30 Thomas Langer, Cologne
PROTEOLYTIC CONTROL OF MITOCHON-
DRIAL DYNAMICS AND NEURODEGENE-
RATION (S16-1)
- 14:55 Elena Rugarli, Cologne
CLUH IS A POST-TRANSCRIPTIONAL REGULA-
TOR OF MITOCHONDRIAL FUNCTION (S16-2)
- 15:20 Nektarios Tavernarakis, Heraklion, Greece
MITOCHONDRIAL TURNOVER AND
HOMEOSTASIS IN AGEING AND NEURO-
DEGENERATION (S16-3)
- 15:45 Jorge De Sousa Valadas, Leuven, Belgium
THE ORIGIN OF SLEEP DEFECTS IN PARKINSON
DISEASE (S16-4)
- 16:10 Sindhuja Gowrisankaran, Göttingen
ROLE OF RABCONNECTIN-3 α IN VESICLE
ACIDIFICATION, TRAFFICKING AND NEURO-
DEGENERATION (S16-5)
- 16:20 King Faisal Yambire, Göttingen
LYSOSOMAL AND MITOCHONDRIAL CROSS-
TALK: A CASE FOR NEURODEGENERATION IN
LYSOSOMAL STORAGE DISEASES? (S16-6)



Introductory Remarks to Symposium 17

Dissection of a central brain circuit: structure, plasticity and functions of the *Drosophila* mushroom body

André Fiala and Bertram Gerber, Göttingen and Magdeburg

Deciphering how central-brain circuits control behavior is a key task in modern neuroscience. However, an analysis that comprehensively describes how the cellular and synaptic machineries within a complex brain circuit function together as an integrated system in the organization of behavior has not been achieved so far - in any model system. The *Drosophila* mushroom body represents a paradigmatic, leanly-designed and functionally dense study case that allows for such an integrated analysis of these different levels of brain organization.

The mushroom body of *Drosophila* offers several key advantages for such an endeavor. It features i) numerically few, genetically tractable neurons that often are individually identifiable and experimentally accessible one at a time, ii) neurons with known numbers of synaptic connections, and iii) a behavioral repertoire and neuronal complexity rich enough to allow for a conceptual comparison with mammals. In particular, the role of the mushroom body circuitry in associative learning and memory is subject of intense research. The recent progress in techniques such as optogenetics, optical imaging using DNA-based probes and EM-based connectomics has driven forward this field of research substantially.

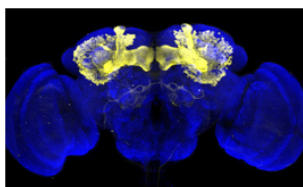
The Symposium specifically covers the relationship between age-related memory impairment and mushroom body function (Stephan Sigrist), the processes by which distinct memory phases are induced (Lisa Scheunemann), detailed structure-function analyses of individual, mushroom body-related neurons (Yoshinori Aso), and recent progress in computationally modeling the mushroom body (Barbara Webb). Two young investigators (Nino Mancini and Radostina Lyutova) will present their work on the functional dissection of the mushroom body in *Drosophila* larvae.

Symposium 17

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 8

Chairs: André Fiala and Bertram Gerber,
Göttingen and Magdeburg

- 14:30 **Opening Remarks**
- 14:35 Stephan Sigrist, Berlin
MECHANISMS UNDERLYING AGE-INDUCED
MEMORY IMPAIRMENT IN RELATION TO
MUSHROOM BODY FUNCTION (S17-1)
- 14:55 Lisa Scheunemann, Paris, France
SEROTONERGIC MODULATION OF MEMORY
CIRCUITS (S17-2)
- 15:15 Nino Mancini, Magdeburg
FUNCTION OF THE ANTERIOR PAIRED
LATERAL (APL) NEURON IN ASSOCIATIVE
OLFACTORY LEARNING IN LARVAL *DRO-*
SOPHILA (S17-3)
- 15:30 Radostina Lyutova, Würzburg
REWARD SIGNALING IN A RECURRENT
CIRCUIT OF DOPAMINERGIC NEURONS AND
KENYON CELLS IN THE *DROSOPHILA* LARVA
(S17-4)
- 15:45 Barbara Webb, Edinburgh, UK
MODELLING THE MECHANISMS OF
LEARNING IN THE MUSHROOM BODY (S17-5)
- 16:05 Yoshinori Aso, Janelia, USA
MECHANISMS TO DIVERSIFY LEARNING RULES
IN PARALLEL MEMORY CIRCUITS (S17-6)
- 16:25 **Concluding Remarks**





Introductory Remarks to Symposium 18

From normal brain development to pathology: what role does the environment play?

Cristiana Cruceanu and Simone Mayer, Munich and Tübingen

During prenatal development, neural stem cells divide to produce neurons that assemble into complex neural networks. These processes are determined by an intimate interplay between intrinsic cellular programs and environmental cues. Various inputs from the environment, such as maternal drug use, or exposure to stress or pathogens, during critical periods of brain development could have tremendous cascading effects, leading to diverse pathologies, including mental disorders. This symposium aims to explore how environmental influences affect brain development during critical periods focusing on basic biological mechanisms of brain development, as well as translational and clinical questions.

We will open the symposium with a talk by Scott Yuzwa focusing on how the niche environment in the developing rodent brain instructs neural stem cells to become 'slow-dividing', enabling them to persist into the adult brain. Second, Simone Mayer, who studies the role of neurotransmitters in human cortical development, will highlight a novel single-cell-based approach that enables multimodal analysis. We will next focus on the impact of maternal stress on brain development in cerebral organoid models. Cristiana Cruceanu will explore how cell-type-specific responses to stress shape the developing brain and how these are linked to stress vulnerability and ultimately mental illness later in life. Claudia Buß will then explore how pathogens and the maternal immune system can affect human brain development, leading to behavioral deficits. Additionally, two students will share their latest research. Paola Brivio will highlight the importance of the serotonergic system for plasticity in postnatal brain development in the rodent prefrontal cortex. Rebecca Winter will show how transcranial direct current stimulation affects an animal model of schizophrenia during adolescence.

The synthesis of these diverse perspectives in a field of research that is rapidly gaining traction with new technologies and exciting insights will likely generate a stimulating and enriching discussion for an interdisciplinary neuroscience audience.

Symposium 18

Thursday, March 21, 2019
14:30 - 16:30, Lecture Hall 9

Chairs: Cristiana Cruceanu and Simone Mayer,
Munich and Tübingen

- 14:30 **Opening Remarks**
- 14:35 Scott Yuzwa, Toronto, Canada
DEVELOPMENTAL EMERGENCE OF ADULT
NEURAL STEM CELLS: UNRAVELLING THE
INFLUENCE OF THE NICHE (S18-1)
- 14:55 Paola Brivio, Milan, Italy
ALTERATION OF SEROTONINERGIC SYSTEM
ALTERS NEUROPLASTIC MECHANISMS FROM
POSTNATAL DEVELOPMENT UNTIL ADULT-
HOOD (S18-2)
- 15:10 Simone Mayer, Tübingen
EARLY ACTIVE INTERCELLULAR SIGNALING
NETWORKS IN THE DEVELOPING HUMAN
BRAIN (S18-3)
- 15:30 Cristiana Cruceanu, Munich
STRESS HORMONES DURING PREGNANCY
AND FETAL BRAIN DEVELOPMENT: WHAT WE
CAN LEARN FROM PERINATAL TISSUES AND
IN VITRO MODELS (S18-4)
- 15:50 Rebecca Winter, Dresden
PREVENTION OF SCHIZOPHRENIA DEFICITS
VIA NON-INVASIVE ADOLESCENT FRONTAL
CORTEX STIMULATION IN RATS (S18-5)
- 16:05 Claudia Buss, Berlin
MATERNAL INFLAMMATION DURING PREG-
NANCY AND FETAL BRAIN DEVELOPMENT
(S18-6)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 19

From clinical symptoms to motoneuron pathobiology: most recent insights into amyotrophic lateral sclerosis (ALS)

Jochen Weishaupt and Albert C. Ludolph, Ulm

New aspects of the clinical picture of ALS together with neuropathological findings and human genetic discoveries have fostered insights into the pathogenesis of this devastating neurodegenerative disease in the past few years. A deeper understanding of the ALS phenotype could be connected to neuropathological discoveries, which strongly suggest a focal initiation of the disease followed by a sequential cortico-fugal spreading of pathology. Moreover, the discovery of key molecules involved in ALS pathogenesis by human genetics helped to identify principally novel cell biological principles. Examples are the role of aggregation-prone RNA binding proteins with prion-like properties that play a role in the formation and (dys)regulation of membrane less organelles but contribute also to the inter-cellular propagation of protein pathology. Possibly linked to the aspect of "RNA dysmetabolism" is the disturbance of proteostasis in ALS, which is underscored by the discovery of several ALS genes that are involved in autophagy. As a consequence, different layers of the disease, ranging from clinical symptoms to molecular pathology, could recently be integrated into a more comprehensive and complete picture and have advanced our understanding of motoneuron biology in general. Importantly, after two decades of basic research, the first gene-specific, individualized therapies are now in clinical trials for the treatment of ALS patients. In this symposium, we will highlight some of the fascinating topics of this rapidly developing field of clinically oriented neuroscience and neurology.

Symposium 19

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 104

Chairs: Jochen Weishaupt and Albert C. Ludolph, Ulm

- 11:30 Albert C. Ludolph, Ulm
CLINICAL TRANSLATION OF THE NEURO-
ANATOMIE OF ALS (S19-1)
- 11:55 Jochen Weishaupt, Ulm
FROM ALS GENES TO PATHOGENIC PRIN-
CIPLES AND TARGETS FOR INDIVIDUALIZED
THERAPIES (S19-2)
- 12:20 Dorothee Dormann, Munich
MOLECULAR MECHANISMS OF ALS - FROM
NUCLEAR TRANSPORT DEFECTS TO PROTEIN
AGGREGATION (S19-3)
- 12:45 Karin Danzer, Ulm
TDP-43 AGGREGATION - IMPLICATIONS FOR
ALS (S19-4)
- 13:10 Diana I. Babaevskaia, Moscow, Russia
NEUROINFLAMMATION IN A MOUSE MODEL
OF AMYOTROPHIC LATERAL SCLEROSIS WITH
FUS GENE MUTATION AND EFFECTS OF
STANDARD AND NEW THERAPIES (S19-5)
- 13:20 Diane Penndorf, Jena
REPLICATIVE REPROGRAMMING IN THE
CONTEXT OF PHYSIOLOGICAL CNS AGING
AND AGE-RELATED NEURODEGENERATION
(S19-6)



Introductory Remarks to Symposium 20

Subcortico-cortical loops and their role in sensory processing and perception

Livia de Hoz and Julio Hechavarria, Berlin and Frankfurt/Main

In everyday situations, animals are exposed to a myriad of sensory stimuli and yet, only a small subset of these stimuli receive conscious attention at any given point in time. This fact already hints towards two very different processes taking place in the brain: one that represents all available sensory stimuli and their precise spatiotemporal patterns; another that works on a small subset of selected stimuli in order to, for example, determine an adequate behavioral response. While the second process depends on and complements the first, the two processes are fundamentally different in nature. It is thought that the hierarchical organization of sensory pathways, from subcortical to cortical structures, and the presence of feedback loops between their stations aids the selective representation of sensory stimuli.

Research on subcortico-cortical loops is gaining momentum internationally. It is becoming increasingly clear that one cannot understand the cortex without understanding its subcortical input and, importantly, one cannot understand subcortical processing without understanding the cortical feedback. In this symposium, we will discuss the role of sensory processing loops for information representation and perception in the auditory, visual and olfactory systems. Four speakers will present data collected in gerbils, mice and bats regarding auditory processing. Specifically, Max Happel (Magdeburg) will speak about the role of the thalamo-cortical circuits for auditory learning. Livia de Hoz (Berlin) will present data on the coding of statistical learning in the auditory midbrain and its modulation through cortico-collicular circuits. Julio Hechavarria (Frankfurt/Main) will speak about the representation of acoustic sequences in the midbrain-cortex axis. One young investigator (Francisco Garcia-Rosales, Frankfurt/Main) will speak about the functional coupling between the auditory cortex and frontal auditory areas that receive direct input from subcortical structures.

Feedback loops are also present in other sensory modalities. Understanding common mechanisms of information processing across modalities will be essential to understand these loops, since sensory circuits differ somewhat in wiring structure. With this in mind, the fourth main speaker (Laura Busse, Munich) will talk about the role of thalamo-cortical loops for shaping receptive fields in the mouse visual system, while Kim Chin Le (young investigator, Aachen) will show data on parallel processing of odor information in the olfactory cortex.

Symposium 20

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 105

Chairs: Livia de Hoz and Julio Hechavarría,
Berlin and Frankfurt/Main

- 11:30 **Opening Remarks**
- 11:40 Laura Busse, Munich
VISUAL PROCESSING OF FEEDFORWARD
AND FEEDBACK SIGNALS IN MOUSE DLGN
(S20-1)
- 12:00 Julio Hechavarría, Frankfurt/Main
UNDERSTANDING THE AUDITORY
HIERARCHY: MODIFICATIONS TO AUDITORY
PROCESSING ON THE WAY TO THE CORTEX
(S20-2)
- 12:20 Max Happel, Magdeburg
RECURRENT CORTICOTHALAMIC FEEDBACK
IN AUDITORY CORTEX MEDIATING SALIENT
AUDITORY PERCEPTION (S20-3)
- 12:40 Livia de Hoz, Berlin
AUDITORY MIDBRAIN CODING OF TEMPO-
RALLY SPARSE STATISTICS (S20-4)
- 13:00 Francisco Garcia-Rosales, Frankfurt/Main
CORTICAL OSCILLATIONS AID THE REPRE-
SENTATION OF NATURAL VOCALIZATION
STREAMS AT MULTIPLE TIMESCALES (S20-5)
- 13:10 Kim Chi Le, Aachen
DUAL-COLOR IMAGING FOR ISOLATING
OLFACTORY BULB OUTPUT STREAMS IN MICE
(S20-6)
- 13:20 **Concluding Remarks**



Introductory Remarks to Symposium 21

Behavioral decisions based on multimodal information

Basil el Jundi and Martin Strube-Bloss, Würzburg

Every animal on earth relies on sensory information from the outside world to make crucial behavioral decisions. In most cases, it is not enough to consider only one sensory information as basis for these decisions. Even for the most trivial tasks, different sensory inputs need to be combined and weighted in the brain to allow an animal to efficiently guide its next maneuver. For instance, we do not only rely on color information to choose which strawberry to pick but also consider shape, size, smell and even texture as reliable parameters for our decision. In a similar way, insects, such as honeybees or butterflies, need to combine different modalities to recognize their host plants. Even though there is a growing pool of studies showing how a wide range of insects deal with multimodal inputs from a behavioral perspective, there is still a clear gap in the current state of understanding of how these modalities are encoded in the brain. Can we identify common strategies used by insects to combine different sensory modalities irrespective of the behavioral context? For instance, do insects that show different orientation strategies [dung beetles (speaker 1, Marie Dacke) vs. ants (speaker 2, Markus Knaden)] integrate wind and visual or wind and olfactory information differently? Which celestial cues can be used by ants during learning walks to calibrate an internal compass (speaker 3, Robin Grob), and which modalities do insects use to measure distance during foraging (speaker 4, Matthias Wittlinger)? How are two modalities, such as visual and mechanosensory information, combined in a different context, such as when a moth is hovering in front of its host plant (speaker 5, Simon Sponberg)? During all these navigation tasks, the insect does not only need to integrate cues from the external world but to keep track of its own body movements. But how does an insect process proprioceptive information (speaker 6, Arne Gollin)?

In this symposium, we will bring together behavioral physiologists, engineers, and electrophysiological investigators to understand how behavior and brain activity are linked to allow an animal to make solid decisions based on multimodal sensory information.

Symposium 21

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 9

Chairs: Basil el Jundi and Martin Strube-Bloss,
Würzburg

- 11:30 Marie Dacke, Lund, Sweden
AS THE CRAW FLIES AND THE BEETLE ROLLS:
STRAIGHT-LINE ORIENTATION FROM BEHA-
VIOUR TO NEURONS (S21-1)
- 11:55 Markus Knaden, Jena
DESERT ANT NAVIGATION BY OLFACTORY
AND VISUAL CUES (S21-2)
- 12:20 Robin Grob, Würzburg
COMPASS SYSTEMS DURING ANT LEARNING
WALKS: THE ROLE OF CELESTIAL CUES FOR
INITIAL COMPASS CALIBRATION IN CATAGLY-
PHIS ANTS (S21-3)
- 12:30 Matthias Wittlinger, Freiburg
MULTIMODAL ODOMETRY IN NAVIGATING
CATAGLYPHIS DESERT ANTS (S21-4)
- 12:55 Simon Sponberg, Atlanta, USA
TIMING, MULTIMODAL INTEGRATION, AND
COORDINATION IN THE NEURAL CONTROL
OF AGILE FLIGHT IN LOW LIGHT (S21-5)
- 13:20 Arne Gollin, Bielefeld
ESTIMATING BODY PITCH FROM DISTRIBUTED
PROPRIOCEPTION: ON THE ROLE OF AFFE-
RENT NUMBER AND DISTRIBUTION (S21-6)



Introductory Remarks to Symposium 22

The neuronal basis of tinnitus

Birgit Mazurek and Holger Schulze, Berlin and Erlangen

Tinnitus, the perception of sound in the absence of an external sound source, is a very common and potentially devastating condition with increasing prevalence, currently affecting about 50 million people in Europe. In many cases tinnitus leads to concentration problems, insomnia, anxiety and depression, severely affecting a person's ability to lead a normal life, sometimes even leading to suicide. In Germany, around 3 million patients seek medical help for tinnitus, and one-third of them fail to cope with their tinnitus, therefore having considerably reduced quality of life with disruption of normal societal participation, which causes enormous socio-economic impact. Despite established audiological and psychological treatment protocols, no cure is available to safely and effectively alleviate tinnitus. The reason for this lies in the fact that the neurophysiological mechanisms underlying the development of tinnitus – although a few models are discussed – are still not well understood. Available treatments such as cognitive-behavioral therapy therefore aim at enhancing the individual's coping capacities rather than healing.

The symposium will highlight recent advances in our understanding of the neuronal basis of tinnitus. Leading experts from the research consortium TIN-ACT, an Innovative Training Network (ITN) within the Marie Skłodowska-Curie Actions (MSCA) of the European Commission, will present latest results from both animal and human tinnitus research and will give an overview across our current knowledge about tinnitus assessment, causes and potential new treatment strategies. A special focus will be given to a description of abnormal neuronal activity that is associated with tinnitus, assessed e.g. by measurements of spatiotemporal dynamics of neuronal activation patterns, recorded with either multielectrode arrays implanted into auditory cortex in animal models or a combination of fMRI, MEG and EEG in humans. Furthermore, the influence of stress on tinnitus and the genes involved in tinnitus-associated stress reactions will be discussed.

Symposium 22

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 102

Chairs: Birgit Mazurek and Holger Schulze,
Berlin and Erlangen

- 11:30 **Opening Remarks**
- 11:35 Pim van Dijk, Groningen, The Netherlands
CHARACTERISTICS OF AUDITORY PROCES-
SING ASSOCIATED WITH TINNITUS (S22-1)
- 12:00 Birgit Mazurek, Berlin
TINNITUS AND COMORBIDITIES (S22-2)
- 12:25 Elouise A. Koops, Groningen, The Netherlands
CORTICAL TONOTOPIC MAPS IN TINNITUS
AND HEARING LOSS (S22-3)
- 12:40 Arnaud Norena, Marseille, France
THE PATHOPHYSIOLOGY OF TINNITUS (S22-4)
- 13:05 Holger Schulze, Erlangen
THE FINE-TUNED BRAIN: BETTER HEARING
IN TINNITUS PATIENTS DUE TO STOCHASTIC
RESONANCE? (S22-5)





Introductory Remarks to Symposium 23

Early information selection for robust vision

Matthias Bethge, Tübingen

Machine vision has recently made steep progress in pattern recognition facilitating numerous technological applications. A common origin for this progress has been the use of retinotopically organized artificial neural networks which roughly resemble rapid visual processing in the ventral stream of mammals. Despite this progress, the robustness of biological vision systems is still unrivalled. For example, even invisible perturbations to an image are sufficient to alter perceptual decisions of artificial neural networks in arbitrary ways. Early information selection is one candidate mechanism that could play an important role to facilitate robustness in biological vision systems. The symposium focuses on research in the early visual system of mice and monkey to reveal computational mechanisms that could play an important role in the robustness of vision.

Symposium 23

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 103

Chair: Matthias Bethge, Tübingen

11:30 **Opening Remarks**

11:35 Matthias Bethge, Tübingen
LACK OF ROBUSTNESS IN ARTIFICIAL NEURAL NETWORKS (S23-1)

12:00 Katrin Franke, Tübingen
CHROMATIC PROCESSING IN THE MOUSE RETINA (S23-2)

12:25 Ziad M. Hafed, Tübingen
A VISION FOR ORIENTING IN PRIMATE SUPERIOR COLLICULUS (S23-3)

12:50 Zhaoping Li, Tübingen
VISUAL SELECTION (S23-4)

13:15 Yannik Bauer, Munich
MOUSE DLGN RECEIVES FUNCTIONAL INPUT FROM A DIVERSE POPULATION OF RETINAL GANGLION CELLS WITH LIMITED CONVERGENCE (S23-5)

13:25 **Concluding Remarks**



Introductory Remarks to Symposium 24

Form follows function? Rules and consequences of structural synaptic plasticity

Tobias Rose and J. Simon Wiegert, Martinsried and Hamburg

Learning and memory formation are strategies of the brain to adapt to the ever-changing outside world, and synaptic plasticity in neuronal circuits is considered one of the key mechanisms involved. On the one hand, animals constantly form new memories, on the other hand, some of these memories can last for the entire lifetime of an animal. Thus, plasticity and stability of neuronal circuits need to be well-balanced. How structural and functional circuit modifications are coordinated to fulfill such a challenging task is still unclear.

It is well established that altered experience triggers structural modifications in the brain, including changes in dendritic branching and spine size, axonal bouton size, and changes in the formation and elimination rates of individual synapses. Furthermore, certain patterns of neuronal activity can persistently enhance or decrease functional synaptic transmission. It is now widely accepted that both structural and functional plasticity are involved in learning and memory in many brain areas such as hippocampus, neocortex, amygdala, and striatum.

Recent work has begun to address how structural adaptations such as changes in synapse morphology or synaptic wiring correlate with functional circuit modifications. It is well established that bidirectional functional modifications of synaptic strength are associated with bidirectional structural changes such as shrinkage, expansion, destabilization, and stabilization of synaptic elements *in vitro*. However, it still remains challenging to reveal the rules underlying long-lasting synaptic and functional modifications and their relevance for learning and memory formation *in vivo*. Especially, how initial plastic changes are transformed into stable circuit modifications is still far from being understood.

This symposium will highlight recent insights into the link between structural and functional synaptic plasticity, addressing the subject from different angles ranging from theoretical approaches, over experimental observations on structure-function interactions at individual synapses *in vitro*, to studies investigating the rules and consequences of circuit plasticity and stability *in vivo*.

Symposium 24

Friday, March 22, 2019
11:30 - 13:30, Lecture Hall 10

Chairs: Tobias Rose and J. Simon Wiegert,
Martinsried and Hamburg

- 11:30 **Opening Remarks**
- 11:35 Anthony Holtmaat, Geneva, Switzerland
SYNAPTIC MECHANISMS FOR PLASTICITY IN
THE SOMATOSENSORY CORTEX (S24-1)
- 12:00 Tara Keck, London, UK
STRUCTURAL DYNAMICS FOLLOWING
SENSORY DEPRIVATION IN MOUSE VISUAL
CORTEX (S24-2)
- 12:25 J. Simon Wiegert, Hamburg
THE SEQUENCE OF PLASTICITY INDUCING
EVENTS SETS THE LIFETIME OF HIPPOCAMPAL
SYNAPSES (S24-3)
- 12:50 Panayiota Poirazi, Heraklion, Greece
MEMORY LINKING THROUGH SYNAPSE
CLUSTERING IN ACTIVE DENDRITES (S24-4)
- 13:15 Brenna C. Fearey, Hamburg
MAPPING ACTION POTENTIAL BACK PRO-
PAGATION USING SYNTAGMA (S24-5)
- 13:25 **Concluding Remarks**



Introductory Remarks to Symposium 25

Go with the flow? Processing of sensory flows across modalities

Aristides Arrenberg, Jan Benda, Annette Denzinger and Hanspeter Mallot, Tübingen

Animals, including humans, act in complex and dynamic environments. Both, moving objects and/or ego-motion within the environment evoke specific spatio-temporal activation patterns on sensory arrays. In the visual system optic flows and their role in behavioral control have been extensively investigated. Do similar principles apply to flows in non-visual modalities? Like the retina, electrosensory systems have a 2D sensory surface that provides spatially resolved information about close-by objects and conspecifics. We therefore expect similar neuronal mechanisms for the processing of electrosensory flow. On the other hand, auditory systems do not have spatially extended sensory arrays. Flying, echolocating bats may compensate for the lack of direct spatial acquisition by temporally integrating actively acquired information about space. How the concepts developed for ego-motion and optic flows apply to such non-spatial modalities is an open question. Neural information processing likely exploits statistical stimulus regularities and is expected to be adapted to the specific environments and behaviors of each species. A comparative approach that quantifies these adaptations is essential also for uncovering similarities that underlie the design of sensory systems.

This symposium highlights various aspects of sensory flow and evolutionary adaptations in different modalities. Douglas Wylie (University of Alberta) compares optic flow processing and the underlying brain anatomy across bird species. Karen Carleton (University of Maryland) compares adaptations in color vision in many species of cichlid fish. Combining behavioral and neurophysiological experiments, Michaela Warnecke explores neural representations of echo flow in echolocating bats in the Cynthia Moss laboratory (Johns Hopkins University). How weakly electric fish use their electric sense and combine it with information from the visual systems for controlling swimming movements is addressed by Eric Fortune (New Jersey Institute of Technology). Finally, Kun Wang and Dimokratis Karamanlis will present their PhD work on zebrafish optic flow processing and retinal natural stimuli processing, respectively.

Symposium 25

Friday, March 22, 2019
14:30 - 16:30, Lecture Hall 105

Chairs: Aristides Arrenberg, Jan Benda,
Annette Denzinger and Hanspeter Mallot, Tübingen

- 14:30 **Opening Remarks**
- 14:40 Douglas Wylie, Edmonton, Canada
AN EYE TOWARDS HOVERING: SPECIES
DIFFERENCES IN THE PROCESSING OF OPTIC
FLOW IN BIRDS IN RELATION TO FLIGHT
BEHAVIOUR (S25-1)
- 15:00 Karen Carleton, College Park, USA
OPTIMAL VISUAL SENSITIVITIES: WHAT THE
CICHLID EYE NEEDS TO TELL THE CICHLID
BRAIN (S25-2)
- 15:20 Michaela Warnecke, Baltimore, USA
ECHO FLOW PATTERNS INFLUENCE BAT
FLIGHT BEHAVIOR AND NEURAL ACTIVITY
(S25-3)
- 15:40 Eric Fortune, Newark, USA
CLOSE-LOOP CONTROL OF ACTIVE-SENSING
MOVEMENTS (S25-4)
- 16:00 Kun Wang, Tübingen
BINOCULAR PROCESSING AND RECEPTIVE
FIELDS OF MOTION-SENSITIVE NEURONS IN
THE ZEBRAFISH PRETECTUM AND TECTUM
(S25-5)
- 16:10 Dimokratis Karamanlis, Göttingen
NATURAL STIMULI REVEAL A SPECTRUM OF
SPATIAL ENCODING ACROSS THE OUTPUT
CHANNELS OF THE RETINA (S25-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 26

Neural mechanisms of social decision-making

Igor Kagan and Arezoo Pooresmaeili, Göttingen

Adaptive decision-making is at the core of successful life, as an individual and a member of a group. In highly social and intricately hierarchical species such as rodents, non-human primates and humans, decisions must incorporate not only the perceptual and value-based contingencies for oneself, but also social factors such as presence, motivations and actions of conspecifics, as well as outcomes for others. Although there are many differences between human and non-human cognition and social interactions, studying social decisions in animals provides unique opportunities to investigate neurophysiological mechanisms underlying basic social behaviors, and compare them to human decision-making. This symposium brings together leading experts whose work is on the foreground of elucidating neural mechanisms underlying social decision-making, in rodents, nonhuman primates and humans. The speakers in the symposium address different facets of social interactions, taking complimentary perspectives on social behaviors along phylogenetic history. Tobias Kalenscher (Düsseldorf, Germany) will present lesion and psychopharmacological data highlighting the importance of amygdala in developing preferences about reward outcomes for other group members, in rats. Steve Chang (New Haven, USA) will demonstrate how neuronal interactions between prefrontal cortex and amygdala contribute to active facial perception via socially-driven eye movements in macaques. Alan Sanfey (Nijmegen, Netherlands) will talk about how social motivations beyond economic utility drive human choices and social preferences such as reciprocity. Together, these presentations will provide an exciting comparative overview of the burgeoning field of social decision-making across species, promoting the idea that complex neural processing in social species can only be fully understood in the context of social cognition that shaped the underlying brain circuits.

Symposium 26

Friday, March 22, 2019
14:30 - 16:30, Lecture Hall 10

Chairs: Igor Kagan and Arezoo Pooresmaeili,
Göttingen

14:30 **Opening Remarks**

14:35 Tobias Kalenscher, Düsseldorf
NEURAL MECHANISMS OF SOCIAL
PREFERENCES IN RATS (S26-1)

15:05 Steve Chang, New Haven, USA
THE COORDINATED INTERPLAY BETWEEN
PREFRONTAL AREAS AND AMYGDALA IN
SOCIAL GAZE DYNAMICS AND DECISION-
MAKING (S26-2)

15:35 Alan G. Sanfey, Nijmegen, The Netherlands
RECIPROCITY AND PUNISHMENT: INSIGHTS
FROM DECISION NEUROSCIENCE (S26-3)

16:05 Anne Christin Saulin, Würzburg
HOW MULTIPLE MOTIVES AFFECT THE COM-
PUTATION OF SOCIAL DECISIONS IN THE
HUMAN BRAIN (S26-4)

16:15 Caedyn Lachlan Stinson, Berlin
THE ROLE OF DIFFERENTIAL SENSORY INPUT
AND ATTRIBUTIONAL BIASES IN SOCIAL
EFFORT PERCEPTION (S26-5)

16:25 **Concluding Remarks**



Introductory Remarks to Symposium 27

Neurodegenerative diseases: shaping neuronal circuits by membrane trafficking

Natalia Kononenko and Brunhilde Wirth, Cologne

The mechanism underlying cell death in neurodegenerative diseases (NDDs) is one of the most intriguing mysteries in neuroscience. Until recently, studies of molecular neurodegeneration were focused on the investigation of the synaptotoxic role of protein aggregates, such as amyloid- β peptides in Alzheimer's disease (AD) or polyQ proteins in Huntington's disease (HD). However, current data suggest that protein deposition per se may not be the primary cause of neurodegeneration but rather the result of the disease. What is then the molecular substrate of neurodegeneration? A growing body of evidence links the genes encoding endocytosis and autophagy proteins to the pathophysiology of NDDs. Both processes are part of the membrane trafficking machinery in the cell and are crucial for neuronal survival. Although defects in endocytosis and autophagy accompany the neuronal loss in NDDs, precise mechanisms by which these two pathways shape neuronal circuits to prevent neurodegeneration are currently unknown. By gathering world-leading scientists, whose research deals with the role of membrane trafficking in NDDs our symposium will provide the answers to this crucial question. The role of membrane trafficking in pathophysiology of HD will be highlighted by Michael Cousin, who is a world-leading researcher in the field of presynaptic physiology. Natalia Kononenko will present the data indicating that loss of the endocytic adaptor AP-2 can cause AD. Ira Milosevic will show how the tandem of autophagy and endocytosis can prevent Parkinson's disease (PD). Brunhilde Wirth, who is a pioneer in research dealing with the role of genetic modifiers in pathophysiology of spinal muscular atrophy (SMA), will present her work implicating defective endocytosis as a main cellular mechanism underlying SMA. Finally, Ferdi Kiral will identify autophagy as a process shaping neuronal circuits in flies.

NDDs are among the most serious health problems facing modern society. Some of these disorders, including the majority of AD and PD cases are sporadic in nature. Others, such as SMA and HD have clear genetic causes. In spite of this fact, all of these NDDs are characterized by an array of membrane trafficking defects, which are not yet fully understood. This symposium, thematically linked and financially supported by the the Cologne Research Training Group "Neural Circuit Analysis on the cellular and subcellular level" (DFG-RTG-1960), will provide latest insights into the research dealing with the role of endocytosis and autophagy in NDDs and offer a potentially novel approach for NDD therapy.

Symposium 27

Friday, March 22, 2019
14:30 - 16:30, Lecture Hall 9

Chairs: Natalia Kononenko and Brunhilde Wirth,
Cologne

- 14:30 **Opening Remarks**
- 14:35 Michael A. Cousin, Edinburgh, UK
LOSS OF FUNCTIONAL HUNTINGTIN CAUSES
ACTIVITY-DEPENDENT PRESYNAPTIC DEFECTS
IN HUNTINGTON'S DISEASE (S27-1)
- 15:00 Natalia Kononenko, Cologne
ONE-WAY TICKET FOR A RIDE: HOW ENDO-
CYTIC PROTEINS PREVENT NEURODEGE-
NERATION IN THE BRAIN (S27-2)
- 15:25 Ira Milosevic, Göttingen
ENDOCYTOSIS AND AUTOPHAGY DYSFUNC-
TION IN NEURODEGENERATION (S27-3)
- 15:50 Brunhilde Wirth, Cologne
PROTECTIVE MODIFIERS UNVEILED IMPAIRED
ENDOCYTOSIS IN SPINAL MUSCULAR ATROPHY
AND OPENED NEW THERAPEUTIC OPTIONS
(S27-4)
- 16:15 Ferdi Ridvan Kiral, Berlin
DECREASED FILOPODIAL DYNAMICS AT
AUTOPHAGY-DEFICIENT PHOTORECEPTOR
AXON TERMINALS LEAD TO ECTOPIC SYNAPSE
FORMATION AND NEURONAL MISWIRING
(S27-5)
- 16:25 **Concluding Remarks**



Introductory Remarks to Symposium 28

Modulatory circuits of central pain processing

Valery Grinevich and Alexander Groh, Heidelberg

When pain becomes chronic, a necessary if unpleasant sensation becomes a debilitating disorder. While nociception originates in the periphery, the experience of pain including pathological pain is generated by neuronal interactions in the brain. But what are the manifestations of pathological pain in the brain and which mechanisms modulate central pain processing? The goal of this symposium is to discuss the structural and functional changes of cells and networks in the brain that lead to the perception of pain and to address neuromodulatory mechanisms that potentially counteract or enhance pain sensation. Markus Ploner will speak about how neuronal oscillations and synchrony subserve the experience of pain and the implications of these findings for the diagnosis and therapy of chronic pain. Alexandre Charlet will then emphasize the involvement in pain regulation by oxytocin, especially through its action on a novel cellular target, astrocytes, within the amygdala microcircuits. Alexander Groh will present data on how thalamic neurons encode painful stimuli and how thalamic pain transduction is modulated by cortical “top-down” pathways in mouse models of acute and chronic pain. Valery Grinevich will demonstrate that both nociceptive and non-nociceptive somatosensory stimuli increase synchronous electrical activity of oxytocin neurons, leading to central and peripheral oxytocin release. The symposium promises to provide latest insights about pain processing and modulation in the brain of humans and animal models.

Symposium 28

Friday, March 22, 2018
14:30 - 16:30, Lecture Hall 104

Chairs: Valery Grinevich and Alexander Groh,
Heidelberg

- 14:30 **Opening Remarks**
- 14:40 Alexandre Charlet, Strasbourg, France
OXYTOCIN ACTS ON ASTROCYTES IN
THE CENTRAL AMYGDALA TO PROMOTE
COMFORT (S28-1)
- 15:00 Markus Ploner, Munich
BRAIN RHYTHMS OF PAIN
(S28-2)
- 15:20 Valery Grinevich, Heidelberg
SOMATOSENSORY MODULATION OF
OXYTOCIN NEURONS DRIVES SOCIAL COM-
MUNICATION (S28-3)
- 15:40 Alexander Groh, Heidelberg
CORTICAL CONTROL OF THALAMIC PAIN
PROCESSING (S28-4)
- 16:00 Carla Norwig, Würzburg
EXPRESSION PROFILE OF TIGHT JUNCTION
PROTEINS IN A MODEL OF DIABETIC NEURO-
PATHY (S28-5)
- 16:10 Livia Asan, Heidelberg
THE CELLULAR BASIS OF VOLUMETRIC BRAIN
CHANGES DURING CHRONIC PAIN –
A NOVEL APPROACH TO CORRELATE VOXEL-
BASED MORPHOMETRY WITH *IN VIVO*
MICROSCOPY (S28-6)
- 16:20 **Concluding Remarks**



Introductory Remarks to Symposium 29

Orexin beyond sleep

Markus Fendt and Michael Koch, Magdeburg and Bremen

The neuropeptide orexin (also called hypocretin) is mainly known for its important role in mediating feeding and promoting wakefulness. However, during the last decade more and more research revealed that orexin participates in several other behavioral and physiological processes such as fear and anxiety, reward, as well as cognition. This led to the hypothesis that “orexin translates motivational activation into organized suites of psychological and physiological processes supporting adaptive behavior” (Mahler et al. 2014).

This symposium will be dedicated to elucidate the integrated function of orexin, meaning orexin’s role beyond the well-known function in regulating the sleep/wake cycle. One focus of the symposium is orexin’s role in fear and anxiety. We will discuss how orexin and orexin receptors modulate the different phases of fear learning and extinction, as well as their role in anxiety induced by innate anxiogenic stimuli or panicogenic substances. Furthermore, we will elucidate how orexin transmission in the nucleus accumbens is involved in impulse control, based on data collected in a rat model of binge eating disorder. Last, the symposium will show how orexin neurons in the hypothalamus are involved in the activity of larger neuronal networks in the cortex, hippocampus and reward system.

Symposium 29

Friday, March 22, 2019
14:30 -16:30, Lecture Hall 103

Chairs: Markus Fendt and Michael Koch,
Magdeburg and Bremen

- 14:30 **Opening Remarks**
- 14:35 Fernando Berrendero, Madrid, Spain
OREXIN REGULATION OF FEAR LEARNING
AND EXTINCTION (S29-1)
- 15:00 Nadine Faesel, Magdeburg
ROLE OF OREXIN DEFICIENCY IN PANIC-LIKE
ANXIETY (S29-2)
- 15:25 Archana Durairaja, Magdeburg
ROLE OF OREXIN IN COGNITIVE FLEXIBILITY
(S29-3)
- 15:40 Julia Schuller, Bremen
NEUROCHEMICAL INVESTIGATION OF
IMPULSE CONTROL IN A RAT MODEL OF
BINGE EATING DISORDER (S29-4)
- 16:05 Marta Carus-Cadavieco, Cologne
HYPOTHALAMIC NETWORK OSCILLATIONS
AND REGULATION OF FEEDING BEHAVIOUR
(S29-5)



Introductory Remarks to Symposium 30

Inhibitory synapse diversity in health and disease

Theofilos Papadopoulos and Dilja Krüger-Burg, Göttingen

Synaptic inhibition plays a key role in shaping and orchestrating the flow of information through neuronal circuits, and abnormalities in inhibitory synaptic transmission have been linked to a wide range of psychiatric and neurodevelopmental disorders. Accordingly, substantial interest has arisen in identifying the mechanisms governing the development and function of inhibitory synapses and circuits. A defining feature of the inhibitory system is its staggering complexity: Inhibitory neurons can be subclassified into a multitude of categories based on their morphological, physiological and molecular characteristics, and each subtype plays a highly specific role in regulating network function and behavioral outputs. In parallel, a similar heterogeneity is being uncovered at the synaptic level, with different inhibitory synapse subtypes differing greatly in their complement of GABA_A subunits and synaptic scaffolding proteins, and accordingly in their functional properties. However, the nature of these components, the mechanisms by which they regulate different inhibitory synapse subtypes, and the role that they play in specific inhibitory circuits and relevant behaviors, are only just beginning to be uncovered. Given that the GABAergic system has been identified as a key target for pharmacological interventions in several psychiatric and neurodevelopmental disorders, a detailed investigation of this complexity is crucial for the successful development of new and specific treatment strategies.

In the present symposium, we will discuss recent progress in identifying how inhibitory synapse diversity contributes to brain function in health and disease, with the aim of highlighting this issue from multiple complementary angles. Our speakers are leading experts in the study of inhibitory synapses and circuits, and they have been selected to represent a wide range of approaches, ranging from molecular studies investigating the mechanisms that govern the assembly of inhibitory postsynaptic complexes, to circuitry studies of inhibitory synapse diversity in network function and their contributions to normal and pathological behaviors.

Symposium 30

Friday, March 22, 2019
14:30 - 16:30, Lecture Hall 8

Chairs: Theofilos Papadopoulos and Dilja Krüger-Burg,
Göttingen

14:30 **Opening Remarks**

14:35 Matthias Kneussel, Hamburg
NEURONAL GABA_A RECEPTOR TRAFFICKING
AND TURNOVER UNDERLYING SYNAPTIC
TRANSMISSION AND COGNITIVE FUNCTION
(S30-1)

15:00 Jonas-Frederic Sauer, Freiburg
ALTERED PREFRONTAL PYRAMIDAL-GABAERGIC
INTERNEURON CIRCUIT ARCHITECTURE IN
A GENETIC MOUSE MODEL OF PSYCHIATRIC
ILLNESS (S30-2)

15:25 Martin Zeller, Tübingen
AMYGDALA INTERCALATED NEURONS FORM
AN INTERCONNECTED AND FUNCTIONALLY
HETEROGENEOUS NETWORK (S30-3)

15:35 Scott Soderling, Durham, USA
PROTEO-CONNECTOMICS TO DISCOVER
NOVEL MECHANISMS OF INHIBITION *IN VIVO*
(S30-4)

16:00 Dilja Krüger-Burg, Göttingen
THE CELL ADHESION MOLECULE IGSF9B
REGULATES INHIBITORY SYNAPSE FUNCTION
IN THE AMYGDALA ANXIETY CIRCUITRY (S30-5)

16:25 **Concluding Remarks**



Introductory Remarks to Symposium 31

The tripartite synapse in health and disease

Gabor Petzold and Christine Rose, Bonn and Düsseldorf

Astrocytes are important safeguards of neuronal health. They support synaptic function and plasticity, provide energy substrates and contribute to the regulation of cerebral blood flow. How astrocytes mediate these complex functions remains incompletely understood. Moreover, the contribution of astrocytes to the pathogenesis of brain disease is still elusive. This symposium summarizes our current understanding and discusses novel findings on the role of astrocytes under physiological conditions and in neurological disease. It is supported by the DFG-Priority Programme SPP 1757 "Glial Heterogeneity" and the DFG-Research Unit "Synapses under stress" (FOR 2795).

Christian Henneberger (University of Bonn) will present recent findings regarding rapid restructuring of perisynaptic astroglial processes and their functional relevance for synaptic transmission. Niklas Gerkau (HHU Düsseldorf) will highlight the role of sodium, illustrating that an increase in astrocyte sodium reduces their capacity for clearance of extracellular glutamate and potassium. Moreover, he will describe cellular sodium loading in the ischemic penumbra *in vivo*. Such sodium increases result in cellular import of calcium through reverse NCX and may thus be a primary trigger for the generation of ischemic damage. Verena Untiet (University of Copenhagen) will discuss recent advances in understanding astroglial chloride regulation and alterations thereof in health and disease. Chloride concentrations in astrocytes determine the driving force for GABA and glycine uptake, GABA and glycine mediated chloride currents, regulate regulatory volume changes, and modify extracellular potassium buffering. Therefore, intracellular chloride is crucial for astroglial to neuronal signaling. Finally, Gabor Petzold (DZNE Bonn) will discuss how astrocytic calcium dynamics contribute to the pathogenesis of acute or chronic neurodegeneration. Specifically, he will highlight recent findings on the role of astrocytes in pathological network alterations in Alzheimer's disease and stroke, and how modulation of astroglial pathways may help alleviate disease progression.

Overall, this symposium will give an overview of our current knowledge and an outlook on future research directions about the contribution of astrocytes to synaptic plasticity and neuron-glia metabolic coupling under physiological conditions, as well as how these changes contribute to cell damage or neuroprotection in neurological diseases.

Symposium 31

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 101

Chairs: Gabor Petzold and Christine Rose,
Bonn and Düsseldorf

- 08:30 **Opening Remarks**
- 08:40 Christian Henneberger, Bonn
PERISYNAPTIC ASTROCYTE STRUCTURE
DYNAMICALLY SHAPES HIPPOCAMPAL
GLUTAMATE SIGNALLING (S31-1)
- 09:00 Niklas J. Gerkau, Düsseldorf
SODIUM LOADING IN METABOLICALLY
COMPROMISED CORTEX (S31-2)
- 09:20 Verena Untiet, Copenhagen, Denmark
ASTROGLIAL CHLORIDE-HOMEOSTASIS IN
HEALTH AND DISEASE (S31-3)
- 09:40 Gabor Petzold, Bonn
ROLE OF ASTROGLIAL CALCIUM CHANGES
IN ALZHEIMER'S DISEASE AND STROKE (S31-4)
- 10:00 Zhou Wu, Bonn
UNRAVELLING POTENTIAL MECHANISMS
CAUSING ASTROCYTIC DEATH DURING
EARLY EPILEPTOGENESIS (S31-5)
- 10:10 Mico Bozic, Ljubljana, Slovenia
ASTROGLIAL MHC CLASS II MOLECULES
ARE ASSOCIATED WITH FUSION OF LARGER
VESICLES (S31-6)
- 10:20 **Concluding Remarks**



glial
heterogeneity 

SPP1757



Introductory Remarks to Symposium 32

Hearing system adaptation for diverse lifestyles across the animal kingdom

Manuela Nowotny and Stefan Schöneich, Frankfurt/Main and Leipzig

Hearing is essential for central aspects of the lifestyle in many animals, e.g. for mate finding, predator avoidance or prey detection. This symposium will present latest research on how the ears and auditory pathways in different animals are adapted to the special demands and challenges that come with the behaviours of their specific lifestyles. Jan Clemens will present new results on an auditory feature detector that drives male and female behavioural responses to the mating song in fruit flies. By combining behavioural quantification, 2-photon calcium imaging and optogenetic techniques, he and his collaborators identified a cluster of neurons in the *Drosophila* brain that recognizes a specific song mode. Manuela Nowotny will explain how the extensive overrepresentation of a narrow frequency band (auditory fovea) in a bushcricket ear can improve neuronal detection of conspecific mating calls. Hannah ter Hofstede will review bat detection strategies in insects and provide examples of auditory adaptations in moths and katydids for hearing bat echolocation calls. The number and diversity of insects that have ears, tuned to the echolocation calls of bats demonstrates the enormous selection pressure that these predators exert on these insects. Christine Köppl will talk about nocturnal hunting specialization in barn owls. Her talk will give an overview and then focus specifically on the inner ear (basilar papilla) with its auditory fovea and the associated massive neural overrepresentation of a behaviourally salient frequency band. In a comparative approach that draws its examples from research in invertebrate and vertebrate organisms, the 4 main talks and two short presentations by student researchers in this symposium will highlight a variety of adaptations in hearing organs and neural auditory processing in different animals that are specialists for very different auditory behaviours.

Symposium 32

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 102

Chairs: Manuela Nowotny and Stefan Schöneich,
Frankfurt/Main and Leipzig

- 08:30 Jan Clemens, Göttingen
ACOUSTIC COMMUNICATION IN THE WILD -
A SHARED SONG FEATURE DETECTOR DRIVES
MALE AND FEMALE RESPONSES TO SONG
IN *DROSOPHILA* (S32-1)
- 08:55 Manuela Nowotny, Frankfurt/Main
TALK TO ME DARLING - NEURONAL ADAPTA-
TIONS FOR INTRASPECIFIC COMMUNICATION
IN THE BUSHCRICKET EAR (S32-2)
- 09:20 Hannah M. ter Hofstede, Hanover, USA
AUDITORY ADAPTATIONS FOR DETECTING
ECHOLOCATING PREDATORS IN MOTHS AND
KATYDIDS (S32-3)
- 09:45 Christine Köppl, Oldenburg
DEATH ON SILENT WINGS - ADAPTATIONS
FOR SOUND LOCALIZATION IN THE BARN
OWL (S32-4)
- 10:10 Lina Maria Jaime Tobon, Göttingen
UNDERSTANDING SOUND ENCODING:
CORRELATION OF RESPONSE PROPERTIES
OF AFFERENT INNER HAIR CELL SYNAPSES AT
NEAR PHYSIOLOGICAL CONDITIONS (S32-5)
- 10:20 Ajayrama Kumaraswamy, Martinsried
ADAPTATIONS IN AN IDENTIFIED HONEYBEE
AUDITORY INTERNEURON RESPONSIVE TO
WAGGLE DANCE VIBRATION SIGNALS (S32-6)



Introductory Remarks to Symposium 33

Pro-survival versus toxic NMDA receptor signaling and the fight against neurodegenerative disorders

Hilmar Bading, Heidelberg

NMDA receptors are fundamental for both the physiology and the pathology of the nervous system. They control plasticity-related events and adaptive processes in the nervous system, which includes long-term potentiation (LTP), memory formation and the build-up of a neuroprotective shield. However, NMDA receptors can also bring about destruction and cell death. The discovery that the location of the NMDA receptor matters resolved the 'NMDA receptor paradox' and provided a unifying concept. NMDA receptors localized to the synapse and activated by synaptic inputs promote neuronal survival, gene expression and plasticity. In contrast, NMDA receptors that are located outside synaptic contacts - the so-called extrasynaptic NMDA receptors - couple to death signaling pathways. The concept 'death through extrasynaptic NMDA receptor signaling' has transformed our views on pathogenesis and therapeutic strategies for neurodegenerative and excitotoxic disorders. Increased extrasynaptic NMDA receptor signaling is now considered a key factor in the etiology of human neurodegenerative diseases, including Huntington's disease, Alzheimer's disease, and stroke. Extrasynaptic NMDA receptors have become an important target for the development of therapeutic interventions. Meantime, an FDA approved blocker of preferentially extrasynaptic NMDA receptors is the first drug that is being used successfully to treat Alzheimer's disease patients.

Symposium 33

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 103

Chair: Hilmar Bading, Heidelberg

- 08:30 **Opening Remarks**
- 08:35 Hilmar Bading, Heidelberg
THE NMDA RECEPTOR PARADOX:
PRO-SURVIVAL VERSUS DEATH SIGNALING
(S33-1)
- 09:00 Lynn A. Raymond, Vancouver, Canada
ROLE FOR EXTRASYNAPTIC NMDA RECEPTORS
IN PRODROMAL HUNTINGTON DISEASE:
MECHANISMS AND THERAPEUTIC IMPLICA-
TIONS (S33-2)
- 09:25 Giles E. Hardingham, Edinburgh, UK
PROBING THE ROLES OF GLUN2 C-TERMINAL
DOMAIN SIGNALLING IN HEALTH AND DISEASE
(S33-3)
- 09:50 Stuart A. Lipton, La Jolla, USA
THE NOVEL NMDAR ANTAGONIST NITROSY-
NAPSIN AS THERAPY FOR HIPSC- AND MOUSE-
MODELS OF HUMAN AUTISM SPECTRUM
DISORDER (S33-4)
- 10:15 Liliana Rojas-Charry, Hamburg
SPECIFIC MUTATIONS IN PRESENILIN 1 HAVE
A DIFFERENTIAL ROLE ON MITOCHONDRIAL
PHENOTYPE AND FUNCTION (S33-5)
- 10:25 **Concluding Remarks**



Introductory Remarks to Symposium 34

The dentate gyrus – from microcircuit function to control of behavior

Marlene Bartos, Freiburg

The dentate gyrus (DG) is the entrance gate of the hippocampus and translates the rich input stream from the entorhinal cortex into sparse non-overlapping memories. The network mechanisms underlying sparse coding are however largely unknown. This symposium will bridge between recent *in vivo* and *in vitro* studies to highlight new insights on the role of the various components of the DG network, glutamatergic granule cells, mossy cells and GABAergic inhibitory interneurons, as well as their output synapses in the sparse coding of information and the spatio-temporal emergence of DG population activity during learning. It will focus on the question of ‘how the various cellular components may support the sparse orthogonal representation of information in the DG neuronal network on spatial and temporal scales’ by presenting recent *in vivo* investigations on activity patterns as well as the underlying synaptic inputs of glutamatergic granule cells, mossy cells and GABAergic interneuron types. Complementary information will be provided by 2-Photon imaging of single cells and populations of neurons in the DG of behaving mice. We will highlight recent studies on the functional role of newborn granule cells in sparse representations in the DG circuitry. The speakers utilize a breadth of advanced experimental techniques including whole-cell recordings in awake mice, 2-photon population imaging in behaving animals, optogenetics and quantitative behavioral analysis. Thus, with this symposium, we aim to improve our understanding on the synaptic, cellular, and network mechanisms underlying sparse activity in the DG and to provide new insights on the spatio-temporal representation of information on the level of single cells and cell assemblies during learning. With this symposium, we further aim to contribute to a better understanding on the function of this particular brain area, which received increasing interest in the recent past.

Symposium 34

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 104

Chair: Marlene Bartos, Freiburg

- 08:30 **Opening Remarks**
- 08:40 Fritjof Helmchen, Zurich, Switzerland
TWO-PHOTON IMAGING OF DENTATE
GRANULE CELLS AND CA3 PYRAMIDAL
CELLS IN MOUSE HIPPOCAMPUS (S34-1)
- 09:00 Heinz Beck, Bonn
MECHANISMS OF SPARSE CODING IN THE
DENTATE GYRUS (S34-2)
- 09:20 Christoph Schmidt-Hieber, Paris, France
PROBING CELLULAR MECHANISMS OF
PATTERN SEPARATION IN THE DENTATE GYRUS
(S34-3)
- 09:40 Marlene Bartos, Freiburg
IN VIVO IMAGING OF STABLE AND DYNAMIC
MEMORY ENGRAMS IN THE RODENT HIPPO-
CAMPUS (S34-4)
- 10:00 Thomas Hainmüller, Freiburg
IMAGING THE DENTATE GYRUS CIRCUITRY
DURING VIRTUAL NAVIGATION (S34-5)
- 10:20 **Concluding Remarks**



Introductory Remarks to Symposium 35

The presynaptic active zone: converging and diverging mechanisms across species

Noa Lipstein and Robert J. Kittel, Göttingen and Leipzig

Synaptic transmission is the fundamental process controlling information transfer in the nervous system. Synaptic function determines the speed, efficacy and reliability of neuronal communication and recent findings indicate that even minor changes in these parameters may lead to neurological or neuropsychiatric diseases. Therefore, substantial efforts are devoted to deciphering the molecular, morphological, and functional features of the synapse.

Chemical synapses are equipped with a highly specialized protein machinery that functions in a coordinated manner to determine functional characteristics. This protein-dense structure at the transmitting, presynaptic neuron is referred to as the 'active zone', and it defines the location of synaptic vesicle release. The basic principles of synaptic transmission and the protein machinery of the active zone are highly conserved throughout the evolution of neuronal systems, and therefore, a valuable approach in elucidating the core mechanisms of transmitter release has been to compare basic molecular assemblies and functions at different synapse types and in different organisms, from *C. elegans* to humans. Indeed, the remarkable conservation of the core machinery extends in large to evolutionary conservation of function, and converging mechanisms of activity have been demonstrated in various synapse types of various organisms. However, synapses display a large array of synaptic outputs with different plastic and dynamic features. The complex relationship between synaptic plasticity, acting on short- and long-time scales, and variations in the molecular composition and physiology of active zones is only beginning to emerge. This symposium aims to highlight the remarkable functional similarity of active zone proteins in different synaptic subtypes and to discuss how modifications of this conserved machinery result in a wide range of synaptic outputs. The selected speakers represent the international presynaptic community, with a particular emphasis on the unique and complementary methodological advantages of diverse experimental systems. Accordingly, their work covers a variety of synaptic subtypes, ranging from the neuromuscular junction in *C. elegans* and *Drosophila* to the mammalian central nervous system. We hope to trigger discussions about converging and diverging mechanisms of synaptic plasticity, with the ultimate goal of initiating new collaborations to expand our understanding of synaptic transmission.

Symposium 35

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 9

Chairs: Noa Lipstein and Robert J. Kittel,
Göttingen and Leipzig

08:30 **Opening Remarks**

08:35 Janet Richmond, Chicago, USA
MOLECULAR MACHINERY REQUIRED FOR
SYNAPTIC ORGANIZATION AND RELEASE
(S35-1)

09:00 Joshua Kaplan, Boston, USA
FROM COMPOST TO THE CLINIC: USING *C.
ELEGANS* TO STUDY PSYCHIATRIC DISORDERS
(S35-2)

09:25 Nadine Ehmman, Leipzig
ACTIVE ZONE PHYSIOLOGY IN THE CONTEXT
OF OLFACTORY INFORMATION PROCESSING
IN *DROSOPHILA*
(S35-3)

09:40 Martin Baccino-Calace, Zurich, Switzerland
THIN PROMOTES PRESYNAPTIC HOMEOSTA-
TIC PLASTICITY AT THE *DROSOPHILA* NEURO-
MUSCULAR JUNCTION (S35-4)

09:50 Pascal Kaeser, Boston, USA
DISSECTING RELEASE SITE ARCHITECTURE
FOR FAST NEUROTRANSMITTERS AND FOR
NEUROMODULATORS (S35-5)

10:15 Lydia S. B. Maus, Göttingen
RESOLVING THE ULTRASTRUCTURAL ORGA-
NIZATION OF SYNAPTIC VESICLE POOLS AT
HIPPOCAMPAL MOSSY FIBER AND SCHAFFER
COLLATERAL SYNAPSES (S35-6)

10:25 **Concluding Remarks**



Introductory Remarks to Symposium 36

Beyond expression of fear: mechanisms and circuits of the extended amygdala

Maren Lange and Thomas Seidenbecher, Münster

Fear and anxiety are behavioral protective responses to prevent or avoid threatening situations. However, if fear- and anxiety-like responses exceed a rational measure, they may turn out to be disadvantageous for an individual, and might possibly develop an anxiety disorder. Since anxiety disorders are a very common psychiatric disease with a lifetime prevalence of about 20% it is of critical importance to identify the underlying molecular and neuronal mechanisms to develop possible therapeutic strategies. Despite the fact, that the last decade of research put a lot of effort in the identification of brain circuits mediating fear responses to discrete threats, mechanisms shifting fear to anxiety are still elusive. Modifications of classical Pavlovian fear conditioning paradigms enable now to distinguish such states as short-lasting (phasic) and long-lasting (sustained) fear in response to predictable and unpredictable threats, respectively and thereby provide important entries for experimental anxiety studies. Hence, available rodent data suggest that phasic fear rely on the central amygdala, whereas more sustained fear responses critically depend on the bed nucleus of the stria terminalis (BNST), brain regions of the so-called extended amygdala.

This symposium focuses on molecular and neuronal mechanisms in circuits of the extended amygdala underlying expression of sustained fear. Sustained fear paradigms in rodents have been developed to model clinical situations in patients suffering from long-lasting anxiety disorders. Interdisciplinary approaches combining molecular and optogenetical techniques, cellular imaging and new behavioral paradigms are used to investigate links between neuronal activity and fear-related behavioral expressions with focus on long-lasting fear processes. However, physiological and pathophysiological relevance of the extended amygdala contribution in mechanisms of sustained fear is unclear.

This symposium highlights outstanding approaches in fear-related neuronal mechanisms and circuits to expand our knowledge of basic principles in fear behavior processing, which is relevant for understanding fear, anxiety and human anxiety disorders.

Symposium 36

Saturday, March 23, 2019
8:30 - 10:30, Lecture Hall 105

Chairs: Maren Lange and Thomas Seidenbecher,
Münster

08:30 **Opening Remarks**

08:40 Laura Luyten, Leuven, Belgium
TARGETING THE BED NUCLEUS OF THE
STRIA TERMINALIS TO REDUCE ANXIETY
IN RATS AND PATIENTS (S36-1)

09:00 Stephen Maren, College Station, USA
THE WAY FORWARD IS BACKWARD:
BNST MEDIATES FEAR TO AMBIGUOUS
THREATS (S36-2)

09:20 Maren Lange, Münster
ENDOCANNABINOIDS IMPACT ON RESPON-
SES TO PREDICTABLE AND UNPREDICTABLE
THREAT VIA CRH NEURONS (S36-3)

09:40 Ki Ann Goosens, Cambridge, USA
MECHANISMS UNDERLYING STRESS-
ENHANCED FEAR (S36-4)

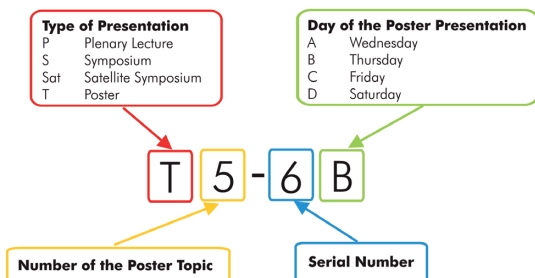
10:00 Julia Winter, Regensburg
THE TRANSCRIPTION FACTOR MEF-2A
MEDIATES THE ANXIOTIC EFFECT
OF CHRONIC OXYTOCIN (S36-5)

10:10 Roman Kessler, Marburg
THE WATCHDOG WON'T STOP BARKING!
TOP-DOWN CONTROL OF THE AMYGDALA
BY MEDIAL PREFRONTAL CORTEX IN MAJOR
DEPRESSION: THE ROLE OF MEDICATION,
GENETIC LIABILITY AND CHILDHOOD
MALTREATMENT (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 21, 2019
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 – T1-4A	T1-1B – T1-4B	T1-1C – T1-4C	T1-1D – T1-5D
T2: Axon and dendrite development, synaptogenesis	T2-1A – T2-3A	T2-1B – T2-4B	T2-1C – T2-3C	T2-1D – T2-4D
T3: Developmental cell death, regeneration and transplantation	no poster contribution	T3-1B – T3-2B	T3-1C – T3-2C	no poster contribution
T4: Neurotransmitters, retrograde messengers and cytokines	T4-1A – T4-3A	T4-1B – T4-2B	T4-1C – T4-2C	T4-1D – T4-3D
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 – T6-6A	T6-1B – T6-5B	T6-1C – T6-6C	T6-1D – T6-6D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T7: Synaptic transmission, pre- and postsynaptic organization	T7-1A – T7-10A	T7-1B – T7-10B	T7-1C – T7-11C	T7-1D – T7-10D
T8: Synaptic plasticity, LTP, LTD	T8-1A – T8-6A	T8-1B – T8-7B	T8-1C – T8-6C	T8-1D – T8-6D
T9: Glia, glia-neuron interactions	T9-1A – T9-6A	T9-1B – T9-6B	T9-1C – T9-6C	T9-1D – T9-6D
T10: Aging and developmental disorders	T10-1A – T10-4A	T10-1B – T10-5B	T10-1C – T10-5C	T10-1D – T10-5D
T11: Alzheimer's, Parkinson's and other neuro-degenerative diseases	T11-1A – T11-16A	T11-1B – T11-16B	T11-1C – T11-16C	T11-1D – T11-15D
T12: Neuroimmunology, inflammation and neuro-protection	T12-1A – T12-4A	T12-1B – T12-5B	T12-1C – T12-5C	T12-1D – T12-4D
T13: Cognitive, emotional, behavioral state disorders and addiction	T13-1A – T13-6A	T13-1B – T13-7B	T13-1C – T13-7C	T13-1D – T13-5D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T14: Vision: invertebrates	T14-1A – T14-5A	T14-1B – T14-4B	T14-1C – T14-4C	T14-1D – T14-4D
T15: Vision: retina and subcortical pathways	T15-1A – T15-4A	T15-1B – T15-5B	T15-1C – T15-5C	T15-1D – T15-5D
T16: Vision: striate and extrastriate cortex, eye movement and visuomotor processing	T16-1A – T16-5A	T16-1B – T16-5B	T16-1C – T16-5C	T16-1D – T16-5D
T17: Auditory mechanoreceptors, vestibular, cochlea, lateral line and active sensing	T17-1A – T17-4A	T17-1B – T17-4B	T17-1C – T17-3C	T17-1D – T17-3D
T18: Auditory system: subcortical and cortical processing	T18-1A – T18-13A	T18-1B – T18-12B	T18-1C – T18-12C	T18-2D – T18-12D
T19: Chemical senses: olfaction, taste, others	T19-1A – T19-8A	T19-1B – T19-7B	T19-1C – T19-8C	T19-1D – T19-8D
T20: Somatosensation: touch, temperature, proprioception, nociception	T20-1A – T20-4A	T20-1B – T20-3B	T20-1C – T20-3C	T20-1D – T20-3D



Poster Topic	Wednesday	Thursday	Friday	Saturday
T21: Motor systems	T21-1A – T21-10A	T21-1B – T21-9B	T21-1C – T21-10C	T21-1D – T21-9D
T22: Homeostatic and neuroendocrine systems, stress response	T22-1A – T22-3A	T22-1B – T22-3B	T22-1C – T22-2C	T22-1D – T22-3D
T23: Neural networks and rhythm generators	T23-1A – T23-11A	T23-1B – T23-10B	T23-1C – T23-11C	T23-1D – T23-10D
T24: Attention, motivation, emotion and cognition	T24-1A – T24-9A	T24-1B – T24-9B	T24-1C – T24-10C	T24-1D – T24-9D
T25: Learning and memory	T25-1A – T25-14A	T25-1B – T25-14B	T25-1C – T25-14C	T25-1D – T25-14D
T26: Computational neuroscience	T26-1A – T26-6A	T26-1B – T26-5B	T26-1C – T26-5C	T26-1D – T26-5D
T27: Techniques and demonstrations	T27-1A – T27-6A	T27-1B – T27-6B	T27-1C – T27-7C	T27-1D – T27-6D

T1: Stem cells, neurogenesis and gliogenesis

Wednesday

- T1-1A** CHROMATIN REMODELING BAF (mSWI/SNF) COMPLEXES REGULATE OLIGODENDROGENESIS IN THE EMBRYONIC FOREBRAIN
Eman Abbas, Kamila A. Kiszka, Linh Pham, Jochen F. Staiger, Tran C. Tuoc, Göttingen
- T1-2A** AUTOMATED AND MANUAL PATCH CLAMP DATA OF HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED DOPAMINERGIC NEURONS
Denise Franz, Hervør Lykke Olsen, Jan Gimsa, Rüdiger Köhling, Rostock
- T1-3A** NR2F1 TRANSCRIPTIONAL GRADIENT IN THE DEVELOPING MOUSE CEREBRAL CORTEX DEPENDS ON HISTONE DEMETHYLASE KDM1 α ACTIVITY
Henriette Franz, Tanja Vogel, Freiburg
- T1-4A** APPROPRIATE MARKERS TO IDENTIFY GLIOBLASTOMA STEM CELLS *IN VITRO*
Diana Freitag, Fritz Klippel, Rolf Kalff, Christian Ewald, Jan Walter, Jena

Thursday

- T1-1B** RECOVERY OF OLFACTORY INDUCED BEHAVIOR INDICATES SUCCESSFUL NETWORK RESTORATION AFTER OLFACTORY NERVE TRANSECTION IN LARVAL *XENOPUS LAEVIS*
Sara Joy Hawkins, Yvonne Gärtner, Lukas Weiss, Thomas Hassenklöver, Ivan Manzini, Giessen
- T1-2B** LOSS OF BRG1 IN hGFAP-POSITIVE CELLS IMPAIRS CEREBRAL AND CEREBELLAR DEVELOPMENT
Dörthe Holdhof, Melanie Schoof, Malte Hellwig, Ulrich Schüller, Hamburg
- T1-3B** GENERATION OF FUNCTIONALLY ACTIVE AND MATURE NEURONS FROM ADHD PATIENTS CARRYING COPY NUMBER VARIANTS OF SLC2A3 TO STUDY ITS IMPACT ON NEURONAL METABOLIC AS WELL AS NEURODEVELOPMENTAL PROCESSES
Charline Jansch, Andrea Forero, Sina Kollert, Sina Wäldchen, Jonas Waider, Frank Edenhofer, Erhard Wischmeyer, Klaus-Peter Lesch, Würzburg
- T1-4B** STRESS IMPEDES NEURONAL DIFFERENTIATION VIA ZBTB16 IN HUMAN CEREBRAL ORGANOIDs
Anthodesmi Krontira, Cristiana Cruceanu, Simone Röh, Silvia Matrinelli, Elisabeth Binder, Munich



Friday

- T1-1C** CHARACTERIZATION OF ELECTROPHYSIOLOGICAL PROPERTIES OF HUMAN iPSC-DERIVED NEURONS IN AUTAPTIC CULTURE
Hong Jun Rhee, Ali Shaib, ChoongKu Lee, Oliver Bruestle, Nils Brose, JeongSeop Rhee, Göttingen
- T1-2C** CHARACTERIZATION OF MORPHOLOGICAL PROPERTIES OF HUMAN iPSC-DERIVED NEURONS IN AUTAPTIC CULTURE SYSTEM
Ali Shaib, Hong Jun Rhee, ChoongKu Lee, Peter Seif, Oliver Bruestle, Nils Brose, JeongSeop Rhee, Göttingen
- T1-3C** WHARTON'S JELLY - SOURCE OF MSC WHICH ARE ABLE TO DIFFERENTIATE IN NSC
Adam Osowski, Ewa Kruminis-Kaszkiel, Ewa Bejer-Olenska, Joanna Wojtkiewicz, Olsztyn, Poland
- T1-4C** PROFILIN1 MUTANT MICE DISPLAY FEATURES OF A GYRENCEPHALIC NEOCORTEX
Marco Rust, Sophie Meyer, Jan Kullmann, Fabrizia Pipicelli, Felix Schneider, Nora Bartels, Silvia Cappello, Marburg

Saturday

- T1-1D** NEUROGENIC EFFECT OF WNT SIGNALING PATHWAY ON ISOLATED MURINE AND HUMAN PROGENITOR CELLS OF THE ENTERIC NERVOUS SYSTEM
Melanie Scharr, Peter Neckel, Katharina Nothelfer, Ying Zhang, Karin Seid, Florian Obermeyer, Lothar Just, Tübingen
- T1-2D** EGFL7: A NOVEL MODULATOR OF NEURAL HOMEOSTASIS IN THE HIPPOCAMPUS
Mirko HH Schmidt, Verica Vasic, Frank Bicker, Mainz
- T1-3D** ANALYSING SCHIZOPHRENIA RISK VARIANTS IN NRXN1 USING FUNCTIONAL AND MATURE NEURONAL CULTURES FROM PATIENT-DERIVED iPSC CELLS
Annika Liisa Majer, Matthias Jung, Jessica Reinsch, Jovita Schiller, Ina Giegling, Dan Rujescu, Halle
- T1-4D** ASSESSMENT OF ELECTROPHYSIOLOGICAL PROPERTIES OF HUMAN iPSC-DERIVED SEROTONERGIC NEURON MODEL
Evgeniy Svirin, Sina Kollert, Charline Jansch, Erhard Wischmeyer, Tatyana Strekalova, Klaus-Peter Lesch, Moscow, Russia
- T1-5D** IS THE COAT COLOR REFLECTING NEURONAL LAYERING IN THE OLFACTORY BULB IN THE FEMALE AMERICAN MINK (NEOVISON VISON VAR. SPEC.)?
Elke Weiler, Willi Benneger, Tübingen

T2: Axon and dendrite development, synaptogenesis

Wednesday

- T2-1A** SHANK3 TRANSIENT SILENCING IS ACCOMPANIED BY ALTERATIONS IN ADHESION MOLECULES PARTIALLY RESTORED BY OXYTOCIN
Jan Bakos, Martina Zatkova, Alexandra Reichova, Annamaria Srancikova, Veronika Meliskova, Zuzana Bacova, Bratislava, Slovakia
- T2-2A** DEVELOPMENTAL NEUROTOXICITY TESTING FOR AXONAL NAVIGATION DEFECTS IN AN INTACT LOCUST EMBRYO
Gerd Bicker, Karsten Bode, Michael Stern, Hannover
- T2-3A** REMODELING OF M1 LAYER VB PYRAMIDAL CELL AXON INITIAL SEGMENTS AND THEIR AXO-AXONIC INNERVATION PATTERN AFTER SPINAL CORD LESION
Dominik Dannehl, Bruno Benedetti, Christian Thome, Jan Maximilian Janssen, Lara Sophie Bieler, Corinna Corcelli, Sébastien Couillard-Déspres, Maren Engelhardt, Mannheim

Thursday

- T2-1B** ROLE OF Ndr2 KINASE IN SUBSTRATE-SPECIFIC NEURITE GROWTH AND SPINE DEVELOPMENT
Yunus Demiray, Atsuhiko Tsutiya, Deniz Madencioglu, Dain Lee, Oliver Stork, Magdeburg
- T2-2B** THE MORPHOLOGY OF PYRAMIDAL CELLS WITH AXON-CARRYING DENDRITES IN RAT VISUAL CORTEX
Eugenia Dutova, Ina Gasterstedt, Lisa Rennau, Steffen Gonda, Maren Engelhardt, Alexander Jack, Petra Wahle, Bochum
- T2-3B** NEUROPLASTIN PROMOTES SPINOGENESIS AND REGULATES E/I SYNAPSE BALANCE THROUGH TRAF6
Rodrigo Herrera-Molina, Sampath Kumar Vemula, Ayse Malci, Lennart Junge, Anne-Christine Lehmann, Johannes Hradsky, Ricardo A. Matute, Ramya Rama, Michael Naumann, Constanze I. Seidenbecher, Eckart D. Gundelfinger, Magdeburg
- T2-4B** VISUAL MAP FORMATION WITHOUT POSTSYNAPTIC LAMINA NEURONS IN DROSOPHILA
Monika Kauer, Egemen Agi, Charlotte Wit, P. Robin Hiesinger, Berlin

Friday

- T2-1C** GLUK2-NETO2 SIGNALLING REGULATES DENDRITIC SPINE MORPHOLOGY IN DEVELOPING HIPPOCAMPUS
Sebnem Kesaf, Helsinki, Finland



T2-2C THE ALTERED EXPRESSION OF CELL ADHESION MOLECULE CONTACTIN-3 IN TUBEROUS SCLEROSIS COMPLEX

Anatoly Korotkov, James D. Mills, Armand Blondiaux, Fanny Jaudon, Jasper J. Anink, Jackelien van Scheppingen, Constanze Seidenbecher, Lorenzo Cingolani, Erwin A. van Vliet, Eleonora Aronica, Amsterdam, The Netherlands

T2-3C POSTTRANSLATIONAL MODIFICATION OF HYALURONAN RECEPTOR CD44 MODIFIES ITS FUNCTIONS IN REGULATION OF NEURONAL MORPHOLOGY

Josephine Labus, Alexander Wirth, Saskia Borsdorf, Evgeni Ponimaskin, Hannover

Saturday

T2-1D *IN VIVO* TIME-LAPSE IMAGING OF OLFACTORY SENSORY NEURON BIRTH, DIFFERENTIATION AND AXOGENESIS

Thomas Offner, Sara Joy Hawkins, Lukas Weiss, Thomas Hassenklöver, Ivan Manzini, Giessen

T2-2D GENETICALLY ENCODED CALCIUM INDICATORS (GECIS) CAN IMPAIR DEVELOPMENTAL DENDRITE GROWTH IN RAT CORTICAL NEURONS

Petra Wahle, Tobias Stahlhut, Alexander Jack, Bochum

T2-3D MOLECULAR MECHANISMS UNDERLYING ANKYRIN2-DEPENDENT CONTROL OF SYNAPTIC PLASTICITY

Tobias Weber, Johanna Buchheit, Raiko Stephan, Jan Pielage, Kaiserslautern

T2-4D ROLES OF DSCAMS IN THE DEVELOPMENT OF *DROSOPHILA* CENTRAL NEURON DENDRITES

Nicole Wilhelm, Shikha Kumari, Carsten Duch, Mainz

T3: Developmental cell death, regeneration and transplantation

Wednesday - no poster contributions

Thursday

T3-1B IDENTIFYING TRANSCRIPTIONAL RESPONSE OF DEVELOPING CORTICOSPINAL NEURONS TO SPINAL AXOTOMY

Philipp Abe, Karthikeyan Devaraju, Natalia Baumann, Denis Jabaudon, Geneva, Switzerland

T3-2B TGF- β 2 REGULATES DEVELOPMENT OF SEROTONERGIC NEURON SUBGROUPS: EVIDENCE FROM MUTANT MICE

Belal Mahmoud Rahhal, Eleni Roussa, Freiburg

Friday

- T3-1C** HYPOXIC REPROGRAMMING OF HELA KYOTO TUMOR CELLS
Anastasia Alekseevna Elizarova, Elena Ivanovna Erlykina, Vladimir Georgievich Pimenov, Mikhail Mikhailovich Palkin, Maria Maksimovna Lukina, Maria Vadimovna Shirmanova, Nizhny Novgorod, Russia
- T3-2C** BIOINFORMATICS ANALYSIS OF OXIDATIVE AND ELEMENTAL STATUS AS A FACTOR IN THE EARLY DIAGNOSIS OF BRAIN TUMORS
Anna Vladimirovna Shcherina, Larisa Mikhailovna Obukhova, Oksana Vladimirovna Barinova, Kirill Vladimirovich Kuzmichev, Igor Alexandrovich Medyanik, Ilya Igorevich Evdokimov, Nizhny Novgorod, Russia

Saturday - no poster contribution

T4: Neurotransmitters, retrograde messengers and cytokines

Wednesday

- T4-1A** IMPAIRED ANANDAMIDE/PALMITOYLETHANOLAMIDE SIGNALING IN HIPPOCAMPAL GLUTAMATERGIC NEURONS ALTERS SYNAPTIC PLASTICITY, LEARNING AND EMOTIONAL RESPONSES
Annika Beer, Tina Zimmermann, Julia C. Bartsch, Ermelinda Lomazzo, Stephan Guggenhuber, Maren Lange, Laura Bindila, Hans-Christian Pape, Beat Lutz, Mainz
- T4-2A** ELECTROPHYSIOLOGICAL PROPERTIES OF CA1 PYRAMIDAL NEURONS AND THEIR DOPAMINERGIC MODULATION ALONG THE LONGITUDINAL HIPPOCAMPAL AXIS
Swantje Beythien, Volkmar Leßmann, Elke Edelmann, Magdeburg
- T4-3A** MORPHOLOGICAL AND BEHAVIOURAL CHARACTERISTICS OF THE TRYPTOPHAN HYDROXYLASE KNOCKOUT RAT
Sabrina Ilonka Hanswijk, Jan K. Buitelaar, Judith R. Homberg, Nijmegen, The Netherlands

Thursday

- T4-1B** POSTSYNAPTIC EXOCYTOSIS OF ENDOGENOUS BDNF VESICLES IN BDNF-GFP KNOCK-IN MICE
Volkmar Lessmann, Robert Eckenstaler, Julia Leschik, Thomas Endres, Thomas Munsch, Karin Richter, Oliver Kobler, Klaus Fischer, Werner Zuschratter, Tanja Brigadski, Beat Lutz, Magdeburg



- T4-2B** NOVEL MOLECULAR TOOLS FOR SINGLE CELL IMAGING OF C-TO-U RNA EDITING
Jochen Meier, Andrea Knoll, Oliver Seitz, Svenja Kankowski, Braunschweig

Friday

- T4-1C** GABAERGIC SYNAPTIC TRANSMISSION AND PLASTICITY IS UNALTERED IN THE LATERAL AMYGDALA OF HETEROZYGOUS BDNF KNOCKOUT MICE
Susanne Meis, Thomas Endres, Thomas Munsch, Volkmar Lessmann, Magdeburg
- T4-2C** DESENSITIZATION OF PARTIALLY OCCUPIED KAINATE RECEPTOR HETEROMERS
Stefan Pollok, Andreas Reiner, Bochum

Saturday

- T4-1D** TOWARDS HIGHLY SPECIFIC GENETIC MANIPULATION OF THE MOUSE CANNABINOID CB1 RECEPTOR USING CRISPR/Cas9: CELL-TYPE SELECTIVE AND REGION-SPECIFIC CB1 KNOCKOUT IN THE ADULT BRAIN AND GENERATION OF A CB1 POINT-MUTATION MOUSE LINE
Floortje Remmers, Leonid Eshkind, Maren D. Lange, Hans-Christian Pape, Beat Lutz, Mainz
- T4-2D** NEUROMUSCULAR TRANSMITTERS IN ARTHROPODS
Michael Stern, Gerd Bicker, Hannover
- T4-3D** C-TERMINAL TRUNCATION AT SERINE 505 INCREASES EAAT2 ACTIVITY AND IS NOT INVOLVED IN EAAT2 DOWNREGULATION ASSOCIATED WITH STAUROSPORINE-INDUCED CASPASE 3 ACTIVATION
Timo-Daniel Voss, Jan Lewerenz, Ulm

T5: G Protein-linked and other receptors

Wednesday

- T5-1A** THE ADHESION-GPCR CIRL PROMOTES MECHANOSENSORY SIGNAL DISCRIMINATION
Sven Dannhäuser, Thomas Lux, Jeremy Chen, Nadine Ehmman, Chun Hu, Peter Soba, Heike Rittner, Robert J. Kittel, Leipzig

Thursday

- T5-1B** CAMELLO-XR: VISUALIZATION AND OPTOGENETIC CONTROL OF GQ/11 SIGNALS AND RECEPTOR TRAFFICKING IN GPCR-SPECIFIC DOMAINS
Dennis Eickelbeck, Raziye Karapinar, Alexander Jack, Petra Wahle, Stefan Herlitze, Bochum

- T5-2B** THE BRAIN OXYTOCIN SYSTEM AND ITS COMPLEX IMPACT ON STRESS AND ANXIETY
Benjamin Jurek, Regensburg

Friday

- T5-1C** ADAMTS 4/5-MEDIATED PROTEOLYSIS OF NEURAL EXTRACELLULAR MATRIX UPON D1-LIKE DOPAMINE RECEPTOR STIMULATION
Jessica Mitlöhner, Rahul Kaushik, Christine Gee, Alexander Dityatev, Renato Frischknecht, Constanze Seidenbecher, Magdeburg
- T5-2C** CHARACTERISTICS OF 5-HT7 RECEPTOR-EXPRESSING NEURONS IN THE MOUSE VENTRAL DENTATE GYRUS
Marcin Siwiec, Krzysztof Tokarski, Kraków, Poland

Saturday

- T5-1D** DUAL ACTION OF D2 DOPAMINE RECEPTOR ACTIVATION IN NUCLEUS INCERTUS – POTENTIAL SOURCE OF SEX DIFFERENCES IN FOOD INTAKE
Agata Szlaga, Anna Gugula, Anna Blasiak, Crakow, Poland
- T5-2D** MRGD IS EXPRESSED BY NEURONS IN THE FOREBRAIN
Oliver von Bohlen und Halbach, Nora Bödecker, Thomas Walther, Anja Tetzner, Viola von Bohlen und Halbach, Greifswald

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

Wednesday

- T6-1A** LOW-VOLTAGE-ACTIVATED CALCIUM AND TTX-SENSITIVE SODIUM CURRENTS ARE PRESENT AT YOUNG AND ADULT MOUSE RETINAL HORIZONTAL CELLS
Norbert Babai, Johann Helmut Brandstätter, Andreas Feigenspan, Erlangen
- T6-2A** CONTROL OF CIRCADIAN ATP RELEASE IN ORGANOTYPIC CULTURES OF THE RAT SUPRACHIASMATIC NUCLEUS BY PURINERGIC P2X AND P2Y RECEPTORS
Anirban Bhattacharyya, Irena Svobodová, Milorad Ivetic, Zdenka Bendová, Hana Zemková, Prague, Czech Republic
- T6-3A** EXPRESSION OF THE BK CHANNEL γ SUBUNIT LRRC52 (γ 2) IN MOUSE INNER HAIR CELLS AND THE „BK CHANNEL ACTIVATION PARADOX“
Jutta Engel, Isabelle Lang, Barbara A. Niemeyer, Martin Jung, Peter Ruth, Homburg



- T6-4A** MECHANISM OF GLUT1 AND GLUT3 PALMITOYLATION
Noemi Gmahl, Nataliya Gorinski, Britta Stapel, Kai G. Kahl, Evgeni Ponimaskin, Hannover
- T6-5A** MECHANO-GATING PROPERTIES OF *DROSOPHILA* NOMPC
Philip Hehlert, Thomas Effertz, Martin Göpfert, Göttingen
- T6-6A** PROBING THE FUNCTION OF $\alpha 2\delta$ VOLTAGE GATED CALCIUM CHANNEL SUBUNITS IN THE GENETIC MODEL SYSTEM *DROSOPHILA MELANOGASTER*
Laurin Heinrich, Christopher Bell, Stefanie Ryglewski, Mainz

Thursday

- T6-1B** QUANTIFICATION OF ALTERNATIVE SPLICING WITHIN IONOTROPIC GLUTAMATE RECEPTORS (IGLURS) USING HUMAN RNA-SEQ DATA
Robin Herbrechter, Andreas Reiner, Bochum
- T6-2B** A NOVEL RNA EDITING SENSOR TOOL AND SPECIFIC AGONIST DETERMINE NEURONAL PROTEIN EXPRESSION OF RNA-EDITED GLYCINE RECEPTORS
Florian Hetsch, Benjamin Förster, Aline Winkelmann, Pina Knauff, Erich E. Wanker, Xintian A. You, Marcus Semtner, Svenja Kankowski, Jochen C. Meier, Braunschweig
- T6-3B** EFFECT OF FASTING/REFEEDING ON PURINERGIC MODULATION OF GABA-ERGIC SYNAPTIC TRANSMISSION IN THE RAT SUPRAOPTIC NUCLEUS
Milorad Ivetic, Anirban Bhattacharya, Hana Janouskova, Hana Zemkova, Prague, Czech Republic
- T6-4B** ALTERNATIVE SPLICING AS A MECHANISM TO INCREASE ION CHANNEL DIVERSITY
Lukas Kilo, Stefanie Ryglewski, Mainz
- T6-5B** RNA-EDITED GLYCINE RECEPTORS ARE POTENTIAL TARGETS FOR PHARMACOTHERAPY IN TEMPORAL LOBE EPILEPSY
Larissa Kraus, Svenja Kankowski, Florian Hetsch, Nicolai Dorka, Marcus Semtner, Martin Holtkamp, Jochen C. Meier, Pawel Fidzinski, Berlin

Friday

- T6-1C** THE ROLE OF L-TYPE DMCA1D CALCIUM CHANNELS AT THE *DROSOPHILA* NEUROMUSCULAR SYNAPSE
Niklas Krick, Carsten Duch, Mainz
- T6-2C** MAINTAINING EXCITATION AND INHIBITION AT SINGLE CELL LEVEL
Marie-Luise Kümmel, Uli Müller, Saarbrücken
- T6-3C** THYROID HORMONE EFFECTS ON METABOLIC RATE: CORRELATION OF Na^+ INFLUX AND EXPRESSION OF Na^+/K^+ -ATPASE
Heiko Michael Leßlich, Lisa Bachmann, Sascha Döring, Sivaraj Mohana Sundaram, Irmgard D. Dietzel, Bochum

- T6-4C** INTERACTIONS OF CALCIUM CHANNEL (CAV1.2) CIRCUITRIES WITH EARLY LIFE STRESS AND THEIR INVOLVEMENT IN THE PATHOGENESIS OF PSYCHIATRIC DISORDERS
Srivaishnavi Loganathan, Jan M. Deussing, Munich
- T6-5C** TRPM3 CHANNELS IN NON-NEURONAL CELLS OF SOMATOSENSORY DORSAL ROOT GANGLIA
Johannes Oberwinkler, Sandeep Dembla, Raissa Enzeroth, Behrendt Marc, Marburg
- T6-6C** NANO-SCALE DYNAMICS OF VOLTAGE GATED CA²⁺ CHANNELS: AN *IN VIVO* SINGLE MOLECULE ANALYSIS
Tina Ghelani, Hylkje Geertseema, Ulrich Thomas, Martin Lehmann, Felix Ewers, Martin Heine, Stephan J. Sigrist, Berlin

Saturday

- T6-1D** EFFECT OF SOLUTE CARRIERS (SLC) ON CA1 PYRAMIDAL CELLS, SYNAPTIC TRANSMISSION AND HIPPOCAMPAL NETWORK ACTIVITY
Marco Rohde, Vanessa Ziesak, Andreas Birkenfeld, Rüdiger Köhling, Rostock
- T6-2D** ALANINE SCANNING MUTAGENESIS OF THE RAT P2X7 RECEPTOR HIGHLIGHTS THE REQUIREMENT FOR LYSINE AND ASPARTATE IN THE FIRST TRANSMEMBRANE DOMAIN
Marian Rupert, Anirban Bhattacharya, Hana Janouskova, Stanko Stojilkovic, Hana Zemkova, Prague, Czech Republic
- T6-3D** ROLE OF THE NA⁺-ACTIVATED K⁺ CHANNEL SLACK (SLO2.2) FOR HEARING FUNCTION AND NOISE VULNERABILITY IN MICE
Pauline Schepsky, Anne Bausch, Robert Lukowski, Katharina Sorg, Dietmar Hecker, Bernhard Schick, Peter Ruth, Simone Kurt, Jutta Engel, Homburg
- T6-4D** THE AUXILIARY CA²⁺ CHANNEL SUBUNITS $\alpha 2\delta 2$ AND $\alpha 2\delta 3$ ARE REQUIRED FOR PROPER CAV2.1 CURRENT IN CULTURED SPIRAL GANGLION NEURONS AND FOR THE DEVELOPMENT OF ENDBULB OF HELD SYNAPSES
Friederike Stephani, Kerstin Blum, Jutta Engel, Homburg
- T6-5D** *IN SILICO* CURRENT PREDICTION AND NOISE ANALYSIS ELUCIDATES GATING PROPERTIES OF HETERODIMERIC rCIC-K1 CHLORIDE CHANNELS
Stefan Thiemann, Birgit Begemann, Toni Becher, Martin Fischer, Hannover
- T6-6D** IONIC CHANNELS INVOLVED IN SPONTANEOUS AND CRH-INDUCED EXCITABILITY AND CALCIUM SIGNALING OF MICE CORTICOTROPHS
Hana Zemkova, Melania Tomic, Marek Kucka, Greti Aguilera, Stanko S. Stojilkovic, Prague, Czech Republic



T7: Synaptic transmission, pre- and postsynaptic organization

Wednesday

- T7-1A** EXPRESSION OF BDNF PRECURSOR PROTEIN AND RNA TRANSCRIPT IN INDIVIDUAL HIPPOCAMPAL NEURONS DEMONSTRATED USING LASER CAPTURE MICRODISSECTION AND QRT-PCR
Federico Jose Barreda Tomas, Heike Heilmann, Imre Vida, Agnieszka Muenster-Wandowski, Berlin
- T7-2A** THE RELATION BETWEEN THE DIFFERENT PHASES OF EARLY-PHASE SYNAPTIC PLASTICITY AND THE UNDERLYING DYNAMICS OF AMPA-RECEPTORS
Moritz Becker, Christian Tetzlaff, Göttingen
- T7-3A** TOP3B: A NOVEL CANDIDATE GENE IN JUVENILE MYOCLONIC EPILEPSY?
Marwa Daghnsni, Saida Lahbib, Mohamed Fradj, Lilia Kraoua, Faouzi Maazoul, Sonia Abdelhak, Ridha M'rad, Tunis, Tunisia
- T7-4A** RAPID INDUCTION AND SUSTAINED EXPRESSION OF PRESYNAPTIC HOMEOSTATIC PLASTICITY AT A MAMMALIAN CNS SYNAPSE
Igor Delvendahl, Katarzyna Kita, Martin Müller, Zurich, Switzerland
- T7-5A** DIRECT MEASUREMENT OF GLUTAMATE RELEASE AT SCHAFFER COLLATERAL SYNAPSES UNDER LOW AND HIGH FREQUENCY ACTIVITY
Céline D. Dürst, J. Simon Wiegert, Christian Schulze, Nordine Helassa, Katalin Török, Thomas G. Oertner, Hamburg
- T7-6A** FROM LOCAL TO GLOBAL SIGNALLING IN RAT OLFACTORY BULB GRANULE CELL DENDRITES
Veronica Egger, Max Müller, S.Sara Aghvami, Regensburg
- T7-7A** SYNAPTIC MECHANISMS UNDERLYING TEMPORALLY PRECISE INFORMATION PROCESSING IN THE VNLL
Linda Fischer, Felix Felmy, Hannover
- T7-8A** RELATION BETWEEN SODIUM SIGNALING AND ATP CONSUMPTION IN MOUSE HIPPOCAMPAL NEURONS
Niklas J. Gerkau, Rodrigo Lerchundi, Jan Meyer, Christian Kleinhans, Marina Lantermann, Johannes Hirrlinger, Christine R. Rose, Düsseldorf
- T7-9A** IN SEARCH OF THE SYNAPTIC VESICLE TETHER AT A SENSORY SYNAPSE
Kaspar Korbinian Maximilian Gierke, Sonja Kirsch, Tanja Müller, Craig Garner, Rainer Böckmann, Hanna Regus-Leidig, Johann Helmut Brandstätter, Erlangen
- T7-10A** SINGLE SYNAPSE ACTIVITY CHARACTERIZATION REVEALS INTERDEPENDENCES BETWEEN RELEASE MODES
Andreas T. Grasskamp, Meida Jusyte, Mathias A. Böhme, Alexander M. Walter, Berlin

Thursday

- T7-1B** THE INTERPLAY BETWEEN KINESIN-3 AND DYNAMIC MICROTUBULES AT PRESYNAPSES SPECIFIES HIGH PRECISION DELIVERY OF SYNAPTIC CARGO
Pedro Guedes-Dias, Jeffrey J. Nirschl, Nohely C. Abreu, Mariko K. Tokito, Erika L. F. Holzbaur, Munich
- T7-2B** ROLE OF AUXILIARY SUBUNITS IN AMPA RECEPTOR TRAFFICKING IN HIPPOCAMPAL NEURONS
Ali Harb, Nils Vogel, Walentina Frisch, Ali Shaib, Ute Becherer, Dieter Bruns, Ralf Mohrmann, Magdeburg
- T7-3B** PRESYNAPTIC K⁺ CHANNELS REGULATE SPONTANEOUS GLUTAMATE RELEASE THROUGH A SPECIFIC ASSOCIATION WITH CA²⁺ CHANNELS IN THE HIPPOCAMPAL PYRAMIDAL NEURONS
Won-Kyung Ho, Seoul, Korea (South)
- T7-4B** OPTOGENETIC CHARACTERIZATION OF EXCITATORY INPUTS AT SPINY INTERNEURONS OF THE STRATUM ORIENS
Joaquin Isaac Hurtado Zavala, J. Simon Wiegert, Hamburg
- T7-5B** PROTEOMIC ALTERATIONS OF GABAERGIC INTERNEURONS FOLLOWING TRAUMATIC BRAIN INJURY (TBI) IN MOUSE NEOCORTEX
Natascha Ihbe, Florie Le Priault, Qi Wang, Ute Distler, Malte Sielaff, Stefan Tenzer, Serge Thal, Thomas Mittmann, Mainz
- T7-6B** FREEZE FRAME SHOTS OF SYNAPSES IN ACTION: CORRELATING PRESYNAPTIC ULTRASTRUCTURE AND FUNCTION AT THE NANOSCALE
Cordelia Imig, Sünke L. Mortensen, Lydia Maus, Nils Brose, Benjamin H. Cooper, Göttingen
- T7-7B** CA²⁺-DEPENDENT CALMODULIN-UNC13A INTERACTION SHAPES STRUCTURE, FUNCTION, AND SHORT-TERM PLASTICITY
Meida Jusyte, Mathias A. Boehme, Alexander M. Walter, Berlin
- T7-8B** UNCOVERING THE ROLE OF PRESYNAPTIC GIT PROTEINS FOR FAST AUDITORY SIGNALING
Christian Keine, Samuel M. Young, Iowa City, USA
- T7-9B** MINIMAL INPUT REQUIREMENT FOR ACTION POTENTIAL GENERATION IN AUDITORY BRAINSTEM NUCLEI
Nikolaos Kladisios, Linda Fischer, Felix Felmy, Hannover
- T7-10B** NEURONAL PROFILINS AS MODULATORS OF DENDRITIC COMPLEXITY AND STRUCTURAL PLASTICITY
Maximilian Klasmeier, Tania Meßerschmidt, Dorothea Hinz, Martin Korte, Martin Rothkegel, Braunschweig

Friday

- T7-1C** REGULATION OF EXOCYTOSIS BY AMISYN, A PI(4,5)P₂ AND SYNTAXIN-BINDING PROTEIN
Ilona Kondratiuk, Shrutee Jakhanwal, Reinhard Jahn, Ira Milosevic, Göttingen



- T7-2C** EXTRACELLULAR MATRIX ENSURES TEMPORALLY PRECISE HIGH FREQUENCY SYNAPTIC TRANSMISSION AT THE CALYX OF HELD
Christoph Körber, Denise Harrach, Thomas Kuner, Heidelberg
- T7-3C** HOW DO GLYCINERGIC SYNAPSES TRANSMIT IN THE ABSENCE OF THE GLYCINE TRANSPORTER GLYT2?
Catharina Kurz, Sina Elena Brill, Dennis Julian Weingarten, Eckhard Friauf, Kaiserslautern
- T7-4C** NEURONAL CALCIUM HOMEOSTASIS: VARIATIONS IN AN EVOLUTIONARILY CONSERVED MOLECULAR INTERPLAY BETWEEN NEUROPLASTIN/ BASIGIN AND PMCAS
Xiao Lin, Karl-Heinz Smalla, Thilo Kähne, Lennart Junge, Constanze Seidenbecher, Dirk Montag, Eckart Gundelfinger, Rodrigo Herrera-Molina, Ulrich Thomas, Magdeburg
- T7-5C** EXAMINING THE ROLE OF COMPLEXINS IN ADAPTATION PROCESSES AT PHOTORECEPTOR RIBBON SYNAPSES
Uwe Thorsten Lux, Andreas Giebl, Katharina Pieger, Karsten Boldt, Kerstin Reim, Johann Helmut Brandstätter, Erlangen
- T7-6C** RESOLVING THE ULTRASTRUCTURAL ORGANIZATION OF SYNAPTIC VESICLE POOLS AT HIPPOCAMPAL MOSSY FIBER AND SCHAFER COLLATERAL SYNAPSES
Lydia S. B. Maus, Bekir Altas, Jeong-Seop Rhee, Nils Brose, Cordelia Imig, Benjamin H. Cooper, Göttingen
- T7-7C** NOGO-A SIGNALING MODULATES SYNAPTIC TRANSMISSION AT A FAST TIME SCALE
Kristin Metzdorf, Steffen Fricke, Stefan Haak, Martin Korte, Marta Zagrebelsky, Braunschweig
- T7-8C** DO DIFFERENT COMPLEXIN ISOFORMS ACT UPON DIFFERENT SNARE COMPLEX TYPES?
Jutta Meyer, Olaf Jahn, Nils Brose, Johann Helmut Brandstätter, Kerstin Reim, Göttingen
- T7-9C** SYNAPTIC ELIMINATION AND STRENGTHENING UNCOUPLED: THE IMPACT OF CENTRAL L-TYPE VOLTAGE-GATED Ca^{2+} CHANNELS ON CIRCUIT REFINEMENT OF A SOUND SOURCE LOCALIZATION PATHWAY
Nicolas Müller, Eckhard Friauf, Kaiserslautern
- T7-10C** RAPID MODULATION OF TRANSSYNAPTICALLY ALIGNED GLUTAMATE RECEPTOR NANOCUSTER RINGS DURING HOMEOSTATIC PLASTICITY
Paola Muttathukunnel, Martin Müller, Zurich, Switzerland
- T7-11C** PRESYNAPTIC GABA_A RECEPTORS MODULATE GLUTAMATERGIC TRANSMISSION AT THE ENDBULB OF HELD
Jana Nerlich, Stefan Hallermann, Ivan Milenkovic, Leipzig

Saturday

- T7-1D** DEVELOPMENTAL EASING OF SHORT-TERM DEPRESSION IN 'WINNER' CLIMBING FIBERS
Christina Paetz, Simone Brachtendorf, Jens Eilers, Leipzig
- T7-2D** PHOSPHOINOSIDE-DEPENDENT REGULATION OF GABAERGIC NEUROTRANSMISSION AT INHIBITORY POSTSYNAPSES
Theofilos Papadopoulos, Göttingen
- T7-3D** SYNTAGMA: A NEW OPTOGENETIC TOOL TO MAP ACTIVE SYNAPSES
Alberto Perez-Alvarez, Brenna C. Fearey, Ryan O'Toole, Ignacio Arganda-Carreras, Eric R. Schreiter, J. Simon Wiegert, Christian Schulze, Michael B. Hoppa, Christine E. Gee, Thomas G. Oertner, Hamburg
- T7-4D** SYNAPTOGENESIS DEPENDS ON AXONAL TRANSPORT VIA LYSOSOME-RELATED VESICLES
Astrid G. Petzoldt, Anela Vukoja, Ulises Rey, Christoph Ott, Dymtro Puchkov, Eric Reynolds, Martin Lehmann, Stephan J. Sigrist, Volker Haucke, Berlin
- T7-5D** A ROLE FOR PICCOLO IN THE REGULATION OF NEUROTRANSMITTER RELEASE AND PRESYNAPTIC PLASTICITY
Eneko Pina, Carolina Montenegro-Venegas, Yulia Klyueva, Daria Davydova, Claudia Marini, Eckart D. Gundelfinger, Anna Fejtova, Magdeburg
- T7-6D** MYOSIN XVI IS A REGULATOR OF ACTIN CYTOSKELETON DYNAMICS IN DENDRITIC SPINES OF PURKINJE CELLS
Mona Katrin Roesler, Franco Lombino, Michaela Schweizer, Irm Hermans-Borgmeyer, Matthias Kneussel, Wolfgang Wagner, Hamburg
- T7-7D** COGNITIVE IMPAIRMENT AND AUTISTIC-LIKE BEHAVIOUR IN SAPAP4-DEFICIENT MICE
Claudia Schob, Fabio Morellini, Ora Ohana, Lidia Bakota, Mariya V. Hrynychak, Michaela Schweizer, Markus Wöhr, Karl J. Vörckel, Craig C. Garner, Hans-Jürgen Kreienkamp, Stefan Kindler, Hamburg
- T7-8D** BUILDING FAST AND RESILIENT INHIBITORY SYNAPSES WITH Ca^{2+} NANODOMAINS AND MICRODOMAINS
Henrique von Gersdorff, Dennis J. Weingarten, Nicolas Muller, Eckhard Friauf, Portland, USA
- T7-9D** THE PRESYNAPTIC PROTEIN MOVER IS HETEROGENEOUSLY EXPRESSED ACROSS BRAIN AREAS AND SYNAPSE TYPES
Rebecca Wallrafen, Thomas Dresbach, Göttingen
- T7-10D** A SEQUENCE OF MOLECULAR EVENTS MEDIATES THE RAPID ADDITION OF RELEASE SITE MODULES DURING PRESYNAPTIC POTENTIATION
Alexander Matthias Walter, Mathias Böhme, Anthony McCarthy, Christine Beuschel, Andreas Grasskamp, Desiree Laber, Meida Jusyte, Fabian Göttfert, David Oswald, Stefan Hell, Stephan Sigrist, Berlin



T8: Synaptic plasticity, LTP, LTD

Wednesday

- T8-1A** UNDERSTANDING THE RELATIONSHIP BETWEEN LONG-TERM SYNAPTIC DYNAMICS AND NEURONAL ACTIVITY IN HIPPOCAMPAL CA1
Tim Phillip Castello-Waldow, Ghabiba Weston, Alon Chen, Alessio Attardo, Munich
- T8-2A** SUPERRESOLUTION OF PSD95 REMODELING AFTER INDUCTION OF LONG-TERM POTENTIATION
Valérie Clavet Fournier, Waja Wegner, Katrin Willig, Göttingen
- T8-3A** TGF- β FAMILY MEMBER ACTIVIN MODULATES HIPPOCAMPAL CA1 SYNAPTIC PLASTICITY IN A FREQUENCY-DEPENDENT FASHION
Marc Dahlmanns, Fang Zheng, Christian Alzheimer, Erlangen
- T8-4A** CHARACTERISTICS OF LOW REPEAT SPIKE TIMING-DEPENDENT LTP AT SCHAFER COLLATERAL-CA1 SYNAPSES OF THE HIPPOCAMPUS
Elke Edelmann, Efrain Cepeda-Prado, Gloria Quiceno, Babak Khodaie, Swantje Beythien, Volkmar Lessmann, Magdeburg
- T8-5A** HUMAN AUTOANTIBODIES AGAINST THE AMPA RECEPTOR SUBUNIT GLUA2 INDUCE RECEPTOR REORGANIZATION AND MEMORY DYSFUNCTION
Holger Haselmann, Francesco Mannara, Christian Werner, Jesus Planagumà, Lars Schmidl, Federico Miguez-Cabello, Mar Petit-Pedrol, David Soto, Sören Doose, Josep Dalmau, Stefan Hallermann, Christian Geis, Jena
- T8-6A** MECHANISMS OF SPIKE TIMING-DEPENDENT LTP ALONG THE LONGITUDINAL AXIS OF SCHAFER COLLATERAL -CA1 SYNAPSES IN THE MOUSE HIPPOCAMPUS
Babak Khodaie, Elke Edelmann, Volkmar Leßmann, Magdeburg

Thursday

- T8-1B** INVESTIGATION OF SYNAPTIC MECHANISMS UNDERLYING BEHAVIORAL TAGGING
Monique Klausch, Volkmar Leßmann, Elke Edelmann, Magdeburg
- T8-2B** TUMOR NECROSIS FACTOR MODULATES HIPPOCAMPAL SYNAPTIC PLASTICITY THROUGH INTRACELLULAR CALCIUM STORES
Dimitrios Kleidonas, Maximilian Lenz, Nicola Maggio, Andreas Vlachos, Freiburg
- T8-3B** INTRACELLULAR Zn^{2+} SIGNALING FACILITATES MOSSY FIBER INPUT-INDUCED HETEROSYNAPTIC POTENTIATION OF DIRECT CORTICAL INPUTS IN HIPPOCAMPAL CA3 PYRAMIDAL CELLS
Suk Ho Lee, Kisang Eom, Won Kyung Ho, Seoul, Korea (South)

- T8-4B** DENERVATED NEURONS COMPENSATE FOR A DEFECT IN EXCITATORY SYNAPTIC SCALING BY ADJUSTING THEIR INTRINSIC EXCITABILITY
Maximilian Lenz, Christos Galanis, Dimitrios Kleidonas, Andreas Vlachos, Freiburg im Breisgau
- T8-5B** LEARNING-INDUCED TRANSFORMATION OF SPIKING PATTERN THROUGH NONLINEAR DENDRITIC PROCESSING IN VIVO
Xiang Liao, Meng Wang, Ruijie Li, Ran Ding, Xiaowei Chen, Chongqing, China
- T8-6B** NEUROPLASTIN-PLASMA MEMBRANE Ca^{2+} ATPASES COMPLEXES: ARE THEY NEW PLAYERS IN Ca^{2+} SIGNALING AND SYNAPTIC PLASTICITY?
Ayse Malci, Michael Naumann, Eckart D. Gundelfinger, Constanze I. Seidenbecher, Rodrigo Herrera-Molina, Magdeburg
- T8-7B** BASSOON IS REQUIRED FOR NORMAL PRESYNAPTIC HOMEOSTATIC SCALING AND OCULAR DOMINANCE PLASTICITY
Carolina Montenegro Venegas, Bianka Goetze, Santosh Pothula, Franziska Greifzu, Eneko Pina, Anil Annamneedi, Karl-Friedrich Schmidt, Eckart D. Gundelfinger, Siegrid Löwel, Anna Fejtova, Magdeburg

Friday

- T8-1C** MICROTUBULE-DEPENDENT CONTROL OF SYNAPTIC MAINTENANCE AT THE *DROSOPHILA* NMJ
Zeeshan Mushtaq, Raiko Stephan, Jan Pielage, Kaiserslautern
- T8-2C** PROBING THE DYNAMICS OF PRESYNAPTIC HOMEOSTATIC POTENTIATION AT THE *DROSOPHILA* NEUROMUSCULAR JUNCTION
Anu G. Nair, Martin Müller, Zurich, Switzerland
- T8-3C** THE ROLE OF DOPAMINE IN DIFFERENT TYPES OF HIPPOCAMPAL SPIKE TIMING-DEPENDENT PLASTICITY
Gloria Quiceno, Elke Edelmann, Volkmar Leßmann, Magdeburg
- T8-4C** MECHANISMS OF PROTEIN TRAFFICKING IN DENDRITIC SYNAPSE-TO-NUCLEUS COMMUNICATION
Sebastian Samer, Rajeev Raman, Katarzyna Grochowska, Anna Karpova, Michael R. Kreutz, Magdeburg
- T8-5C** ROLE OF A NOVEL TRKB AGONIST ANTIBODY IN MODULATING THE STRUCTURE AND FUNCTION OF MURINE HIPPOCAMPAL NEURONS
Charlotte Tacke, Jia Xie, Peter S. DiStefano, Marta Zagrebelsky, Martin Korte, Braunschweig
- T8-6C** INCREASED SPINE DYNAMICS IN THE VISUAL CORTEX OF PSD-95 KNOCKOUT MICE: CHRONIC TWO-PHOTON IMAGING OF NEURONAL MORPHOLOGY IN THE AWAKE BRAIN
Anja Tippmann, Bettina Joachimsthaler, Cornelius Schwarz, Oliver Schlüter, Siegrid Löwel, Göttingen



Saturday

- T8-1D** ACUTE STRESS PROMOTES METAPLASTICITY IN THE VENTRAL SUBICULUM IN RATS BY NMDA RECEPTOR- AND β -ADRENERGIC RECEPTOR-MEDIATED MECHANISMS
Monique von Cramon, Julia C. Bartsch, David Gruber, Uwe Heinemann, Joachim Behr, Neuruppin
- T8-2D** *Sox11* - A NOVEL ACTIVITY-DEPENDENT GENE WITH DENTATE GYRUS-SPECIFIC EXPRESSION
Julia von Wittgenstein, Fang Zheng, Marie-Theres Wittmann, Elli-Anna Balta, Fulvia Ferrazzi, Maria J. Valero-Aracama, Arif B. Ekici, André Reis, Christian Alzheimer, D. Chichung Lie, Erlangen
- T8-3D** LONG-TERM POTENTIATION IN AN INNEXIN-BASED ELECTRICAL SYNAPSE
Georg Welzel, Stefan Schuster, Bayreuth
- T8-4D** STRESS AFFECTS THE DYNAMICS OF HIPPOCAMPAL CA1 SYNAPSES AND CA1-DEPENDENT LEARNING AND MEMORY
Ghabiba Weston, Tommaso Carlo Caudullo, Tim Phillip Castello-Waldow, Alon Chen, Alessio Attardo, Munich
- T8-5D** THE ANESTHETIC STATE OF THE HIPPOCAMPUS AND ITS EFFECT ON SPINE DYNAMICS
Wei Yang, J. Simon Wiegert, Hamburg
- T8-6D** HOMEOSTATIC REGULATION OF MOSSY FIBER LTP BY TGF- β FAMILY MEMBER ACTIVIN
Fang Zheng, Christian Alzheimer, Erlangen

T9: Glia, glia-neuron interactions

Wednesday

- T9-1A** AMPA-MEDIATED CALCIUM SIGNALLING IN OLFACTORY ENSHEATHING CELLS
Antonia Beiersdorfer, Christian Lohr, Hamburg
- T9-2A** CRITICAL CONTRIBUTION OF ASTROCYTES TO MOTOR LEARNING *IN VIVO*
Chloe Delepine, Keji Li, Mriganka Sur, Cambridge, USA
- T9-3A** ACTIVITY-DEPENDENT ALTERATION OF ANISOTROPIC GLIAL COUPLING IN THE AUDITORY BRAINSTEM
Sara Eitelmann, Tatjana T. X. Schmitt, Jan J. Hirtz, Jonathan Stephan, Kaiserslautern
- T9-4A** DEVELOPMENT OF MICROGLIA IN FETAL CORTEX OF EUROPEAN WILD BOAR, *SUS SCROFA*
Laura Ernst, Eric Sobierajski, Christa Beemelmans, Christoph Beemelmans, Gundela Meyer, Petra Wahle, Bochum

- T9-5A** ANALYSIS OF EXOSOME RELEASE FROM NG2-GLIAL CELLS
Dmitry Fedorov, Jochen Walter, Volkmar Gieselmann, Christian Steinhäuser, Konstantin Glebov, Ronald Jabs, Bonn
- T9-6A** SPONTANEOUS NA⁺ SIGNALLING IN THE NEONATAL HIPPOCAMPUS
Lisa Felix, Christine Rose, Düsseldorf

Thursday

- T9-1B** DOPAMINE INDUCES CALCIUM SIGNALS IN OLFACTORY BULB ASTROCYTES
Timo Fischer, Christian Lohr, Hamburg
- T9-2B** ELECTROPHYSIOLOGICAL PROPERTIES OF PROLIFERATING ASTROCYTES AFTER TRAUMATIC BRAIN INJURY
Stefanie Götz, Benedikt Grothe, Lars Kunz, Martinsried
- T9-3B** SEROTONIN REGULATION OF ASTROCYTE CELL NUMBER AND MORPHOLOGY IN RAPHE NUCLEI
Melin Hasan, Mary Newland, Natalia Alenina, Valentina Mosienko, Exeter, UK
- T9-4B** GAP JUNCTION UNCOUPLING AND CYTOSKELETAL CHANGES IN ASTROCYTES OCCUR INDEPENDENT OF NEUROINFLAMMATION DURING EARLY EPILEPTOGENESIS
Lukas Henning, Julia Müller, Zhou Wu, M. T. Heneka, Peter Bedner, Christian Steinhäuser, Bonn
- T9-5B** EXOSOMAL RELEASE OF ASTROGLIAL VIMENTIN: IMPLICATIONS ON THE NEURONAL GROWTH-PROMOTING PROPERTIES OF CLOSTRIDIAL C3 TRANSFERASE?
Markus Höltje, Andrej Adolf, Rohrbeck Astrid, Agnieszka Münster-Wandowski, Malin Johansson, Hans-Georg Kuhn, Marcel Alexander Kopp, Benedikt Brommer, Jan Markus Schwab, Gudrun Ahnert-Hilger, Berlin
- T9-6B** HIF-1 α IS STABLE AND ACTIVE IN ASTROCYTES UNDER PHYSIOXIA
Sherif Idriss, Silje Zimek, Katia Monsorno, Olaf Joehren, Lübeck

Friday

- T9-1C** NEUROIMMUNOLOGICAL FUNCTION OF OSTEO-PONTININ ACTIVATION OF ASTROCYTES IN STAB WOUND MOUSE BRAIN AND LPS STIMULATED PRIMARY CULTURE
Hiroko Ikeshima-Kataoka, Motoko Furukawa, Sayaka Inui, Yutaka Matsui, Toshimitsu Uede, Masato Yasui, Tokyo, Japan
- T9-2C** SYNAPTIC PROTEIN TURNOVER INSIDE AND OUTSIDE THE ADULT *DROSOPHILA* PHOTORECEPTORS
Eugene (Jennifer) Jin, Eugenia Patsouri, Sarah Green, Friederike Elisabeth Kohrs, Peter Robin Hiesinger, Berlin



- T9-3C** ESSENTIAL CONTRIBUTION OF NBCE1 IN MODULATION OF ASTROCYTIC METABOLISM BY NEURONAL SIGNALS
Susanne Köhler, Ulrike Winkler, Marit Sicker, Johannes Hirrlinger, Leipzig
- T9-4C** DENDRITIC ATP RELEASE EVOKES CALCIUM SIGNALING IN OLFACTORY BULB ASTROCYTES
Kristina Losse, Damian Droste, Janina Popp, Antonia Beiersdorfer, Christian Lohr, Hamburg
- T9-5C** ASTROCYTES AND OLIGODENDROCYTES IN THE THALAMUS JOINTLY MAINTAIN SYNAPTIC ACTIVITY BY SUPPLYING METABOLITES
Camille Philippot, Stephanie Griemsmann, Ronald Jabs, Helmut Kettenmann, Christian Steinhäuser, Bonn
- T9-6C** IMMUNOHISTOCHEMICAL AND FUNCTIONAL ANALYSIS OF P2X₇ RECEPTORS IN MICROGLIA OF THE MOUSE OLFACTORY BULB
Natalie Clara-Maria Rotermund, Judith Seliger, Niklas Hormanns, Annette Nicke, Christian Lohr, Hamburg

Saturday

- T9-1D** NG2 GLIA-SPECIFIC GENE KNOCKOUT AS A TOOL TO UNDERSTAND THE IMPACT OF NEURON-GLIA SYNAPTIC SIGNALING
Aline Timmermann, Anne Boehlen, Magdalena Skubal, Andras Bilkei-Gorzo, Andreas Zimmer, Ronald Jabs, Frank Kirchhoff, Gerald Seifert, Christian Steinhäuser, Bonn
- T9-2D** INVESTIGATING GLIA-NEURON PROTEIN INTERACTIONS IN PURIFIED NEURONAL CULTURES USING BONCAT AND SILAC METABOLIC LABELLING
Paul Turko, Juliane Schiweck, Keenan Groberman, Cristina Kroon, Britta Eickholt, Imre Vida, Berlin
- T9-3D** MAPPING GLUTAMATE RECEPTORS ON NG2 CELLS WITH 2P GLUTAMATE UNCAGING
Natascha Vana, Wenjing Sun, Shane McMahon, Susanne Schoch, Dirk Dietrich, Bonn
- T9-4D** METABOLIC HETEROGENEITY OF ASTROCYTES: INSIGHTS FROM NANOSENSOR IMAGING IN THE BRAIN
Ulrike Winkler, Susanne Köhler, Johannes Hirrlinger, Leipzig
- T9-5D** CHARACTERIZATION OF ASTROCYTIC CALCIUM SIGNALS FROM INTENSITY BASED FLUORESCENCE INDICATORS
Andre Zeug, Volodymyr Cherkas, Gebhard Stopper, Franziska E. Müller, Evgeni Ponimaskin, Hannover
- T9-6D** MECHANISMS AND CONSEQUENCES OF SODIUM SIGNALS IN ASTROCYTES OF THE MOUSE NEO-CORTEX
Daniel Ziemens, Franziska Oschmann, Niklas J. Gerkau, Christine R. Rose, Düsseldorf

T10: Aging and developmental disorders

Wednesday

- T10-1A** CREATINE TRANSPORTER DISORDER: NEW INSIGHTS INTO EPILEPTIC PHENOTYPE AND DIAGNOSTIC BIOMARKERS
Laura Baroncelli, Francesco Cacciante, Leonardo Lupori, Raffaele Mazziotti, Elena Putignano, Tommaso Pizzorusso, Pisa, Italy
- T10-2A** EXCESSIVE GENERATION OF NMDA RECEPTOR-DEPENDENT EARLY NETWORK OSCILLATIONS IN A HUMAN STEM CELL-DERIVED MODEL OF AUTISM
Katharina Behr, Philippe Valmaggia, Ravi Jagasia, Josef Bischofberger, Basel, Switzerland
- T10-3A** MODULATION OF THE HYALURONAN-BASED EXTRACELLULAR MATRIX IN MOUSE MODELS OF EPILEPSY
Armand Blondiaux, Shaobo Jia, Renato Frischknecht, Alexander Dityatev, Eckart D. Gundelfinger, Constanze I. Seidenbecher, Magdeburg
- T10-4A** INTRANASAL OXYTOCIN ENHANCES PERCEPTUAL MECHANISMS FOR VOICE-IDENTITY RECOGNITION
Kamila Borowiak, Katharina von Kriegstein, Dresden

Thursday

- T10-1B** IMPACT OF CALORIC RESTRICTION ON THE *IN VIVO* CORTICAL FUNCTION IN AGED MICE
Nicole Fröhlich, Nithi Asavapanumas, Chommanad Lerdkrai, Elizabeta Zirdum, Olga Garaschuk, Tübingen
- T10-2B** NOVEL MUTATIONS IN THE ASPARAGINE SYNTHETASE GENE (ASNS) ASSOCIATED WITH MICROCEPHALY
Johannes Hirrlinger, Dorit Schleinitz, Ruth Stassart, Katrin Hoffmann, Peter Kovacs, Leipzig
- T10-3B** LONG-TERM STUDIES IN MICE ASSESSING DELAYED EFFECTS OF LOW AND MODERATE RADIATION DOSES
Sabine M. Hölter, Marie-Claire Ung, Lillian Garrett, Claudia Dalke, Sarah Kunze, Daniel Pawliczek, Elizabeth A. Ainsbury, Jochen Graw, Neuherberg
- T10-4B** THE ROLE OF THE METABOTROPIC GLUTAMATE RECEPTOR 5 IN THE PATHOPHYSIOLOGY AND THERAPY OF GENERALIZED DYSTONIA IN THE DTSZ MODEL
Stefanie Perl, Franziska Richter, Angelika Richter, Leipzig
- T10-5B** THE ROLE OF CHOLINERGIC INTERNEURONS IN DYSTONIA: OPTOGENETIC STIMULATIONS IN DYT1 KNOCK-IN MICE REVEAL AN ENDOPHENOTYPE BUT NO OVERT DYSTONIC SYMPTOMS
Franziska Richter, Anne Bauer, Stefanie Perl, Anja Schulz, Angelika Richter, Leipzig



Friday

- T10-1C** THE ROLE OF CBP IN NEURODEVELOPMENT AND MENTAL RETARDATION
Melanie Schoof, Michael Launspach, Dörthe Holdhof, Malte Hellwig, Lynhda Nguyen, Beat Lutz, Ulrich Schüller, Hamburg
- T10-2C** GENETIC VARIATION OF IL-6 EXPRESSION MODULATES AGE-RELATED MEMORY DECLINE
Björn Hendrik Schott, Lea Knopf, Hartmut Schütze, Constanze I. Seidenbecher, Emrah Düzel, Anni Richter, Magdeburg
- T10-3C** NEUROPATHOLOGICAL FINDINGS IN CATTLE WITH HISTOLOGICALLY SUSPECTED BOVINE SPONGIFORM ENCEPHALOPATHY IN NIGERIA
James Clinton Shawulu, Joseph Olajide Hambolu, Samuel Adeniyi Ojo, James Olukayode Olopade, Anne Balkema-Buschmann, Reiner Ulrich, Martin Hermann Groschup, Gwagwalada-Abuja, Nigeria
- T10-4C** MODELING CHANNELOPATHIES: FROM ION CURRENTS TO FIRING BEHAVIOR
Lukas Sonnenberg, Yuanyuan Liu, Holger Lerche, Jan Benda, Tübingen
- T10-5C** DECREASED AUDITORY NERVE POPULATION ACTIVITY IN AGED GERBILS
Friederike Steenken, Rainer Beutelmann, Henning Oetjen, Georg M. Klump, Christine Köppl, Oldenburg

Saturday

- T10-1D** EFFECTS OF AMPHETAMINE AND ECSTASY IN MICE LACKING THE POSTSYNAPTIC SCAFFOLDING PROTEIN SHANK1: LINK TO CATECHOLAMINE AND INDOLAMINE SYSTEMS?
Özge Sungur, Tobias M. Redecker, Elena Andres, Wiebke Dürichen, Rainer K.W. Schwarting, Adriana del Rey, Markus Wöhr, Marburg
- T10-2D** CELLULAR AND MOLECULAR CAUSES OF NORMAL MOTOR AGING IN *DROSOPHILA*
Jessica Thiem, Jean-Yves Roignant, Susanne Gerber, Christos Consoulas, Carsten Duch, Mainz
- T10-3D** NEURAL AND HEART RATE VARIABILITY AND THEIR RELATION TO COGNITIVE PERFORMANCE IN YOUNG AND OLD ADULTS
Diana Toscano Tejeida, Kristina Miloserdov, Iris Steinmann, Carsten Schmidt-Samoa, Annekathrin Schacht, Melanie Wilke, Göttingen
- T10-4D** UNDERSTANDING NOISE-INDUCED HEARING LOSS USING THE EAR OF THE DESERT LOCUST
Ben Warren, Leicester, UK
- T10-5D** THE USE OF BIOSENSORS IN STUDYING AGEING
Alexander Wirth, Andre Zeug, Franziska Müller, Evgeni Ponimaskin, Hannover

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

Wednesday

- T11-1A** MIRNA-EXPRESSION PROFILING IN MIDBRAIN OF PARKINSON'S DISEASE PATIENTS
Lucas A. Caldi Gomes, Anna-Elisa Roser, Gaurav Jain, André Fischer, Paul Lingor, Göttingen
- T11-2A** QUANTITATIVE IMAGING OF SPREADING-DEPRESSION ASSOCIATED ROS PRODUCTION
Marc Ackermann, Katharina Dietrich, Michael Müller, Göttingen
- T11-3A** INTRACEREBROVENTRICULAR ADMINISTRATION OF HISTIDINE REDUCES KAINIC ACID INDUCED CONVULSIVE SEIZURES IN MICE
Serdar Alpdogan, Felix Neumaier, Jürgen Hescheler, Toni Schneider, Cologne
- T11-4A** ABNORMAL AMYLOID BETA ACCUMULATION LEADS TO NEURONAL LOSS AND ALTERATIONS IN THE PROCESS OF ADULT HIPPOCAMPAL NEUROGENESIS
Sanila Amber, Fatima Javed Mirza, Deebe Hassan, Saadia Zahid, Islamabad, Pakistan
- T11-5A** PHARMACOLOGICAL AND GENETIC INHIBITION OF ADAM10 REDUCE BRAIN DAMAGE AFTER EXPERIMENTAL TRAUMATIC BRAIN INJURY
Dominik Appel, Regina Hummel, Larissa Dangel, Maryam Treiber, Johanna Merz, Martin Weidemeier, Christina Gözl, Mirko H.H. Schmidt, Kristina Endres, Michael K.E. Schäfer, Mainz
- T11-6A** COMPLEXOME PROFILING OF THE MITOCHONDRIAL RESPIRATORY CHAIN – MECHANISTIC INSIGHTS INTO THE REGULATION OF ENERGY METABOLISM IN NEURODEGENERATIVE DISEASES
Susanne Arnold, Nijmegen, The Netherlands
- T11-7A** COPPER, ZINC AND HSPGS INFLUENCE TRANS-DIMERIZATION OF THE AMYLOID PRECURSOR PROTEIN FAMILY MEMBERS
Alexander August, Nadine Schmidt, Johannes Klingler, Frederik Baumkötter, Jessica Klement, Carolyn Vargas, Klemens Wild, Sandro Keller, Stefan Kins, Kaiserslautern
- T11-8A** FE65 AND FE65L1 HAVE DISTINCT FUNCTIONS IN SYNAPTIC PLASTICITY
Vanessa Augustin, Paul Strecker, Susann Ludewig, Elisa Kraechan, Marcel Daas, Martin Korte, Jonathan Stephan, Stefan Kins, Kaiserslautern
- T11-9A** AP-2 PREVENTS AMYLOIDOGENIC PROCESSING OF APP VIA ENDOCYTOSIS-INDEPENDENT REGULATION OF BACE1 TRAFFICKING IN NEURONS
Sujoy Bera, Elena Calleja Barca, Albert Negrete, Julia Racho, Christoph Wittich, Nina Ellrich, Soraia Martins, James Adjaye, Natalia L. Kononenko, Cologne



- T11-10A** NANOSCALE ANALYSIS OF CYTOSKELETAL ALTERATIONS DURING ACUTE AXONAL DEGENERATION IN PRIMARY NEURON CULTURES
Arndt Lucas Biller, Elisabeth Barski, Elisa D'Este, Mathias Bähr, Paul Lingor, Jan-Christoph Koch, Göttingen
- T11-11A** IN VIVO IMAGING AND TRANSCRIPTOME ANALYSIS OF ASTROCYTES IN AN ALZHEIMER'S DISEASE MOUSE MODEL
Nelli Blank, Lech Kaczmarczyk, Stefanie Herresthal, Walker S. Jackson, Joachim L. Schultze, Gabor C. Petzold, Bonn
- T11-12A** TAU BLOCKS AMYLOID- β DEPENDENT NEURONAL HYPERACTIVITY IN VIVO
Marc Aurel Busche, Susanne Wegmann, Simon Dujardin, Caitlin Commins, Julia Schiantarelli, Tarun V. Kamath, Naomi Klickstein, George Carlson, Israel Nelken, Bradley T. Hyman, London, UK
- T11-13A** THE NMDA ANTAGONIST MEMANTINE ATTENUATES THE OKADAIC ACID INDUCED SHORT-TERM SPATIAL MEMORY IMPAIRMENT AND HIPPOCAMPAL CELL LOSS IN RATS
Mariam Chighladze, Manana Dashniani, Khatuna Rusadze, Tbilisi, Georgia
- T11-14A** NEDDYLATION-DEPENDENT PROTEIN DEGRADATION AS A NEXUS BETWEEN NEURONAL INSULIN SIGNALING, AMYLOIDOSIS AND METABOLIC SYNDROME
Alessandro Dario Confettura, Guilherme Monteiro Gomes, PingAn Yuanxiang, Andreas Hentschel, Robert Ahrends, Michael Kreutz, Magdeburg
- T11-15A** IDENTIFICATION OF SIGNALING MECHANISMS REGULATING MITOCHONDRIA-ENDOPLASMIC RETICULUM CONTACT SITES
Renata Couto, Ira Milosevic, Nuno Raimundo, Göttingen
- T11-16A** SMALL CONDUCTANCE CALCIUM-ACTIVATED (SK3) POTASSIUM CHANNEL OVEREXPRESSION IN NIGROSTRIATAL SYSTEM OF MICE
Elaine Del Bel, Sabine Martin, Marcio Lazzarini, Miso Mitkovski, Luis Pardo, Walter Stuhmer, Ribeirao Preto, Brazil

Thursday

- T11-1B** MICROSTRUCTURAL ANALYSIS OF ENDO- AND PERINEURIAL CELLS IN HUMAN NEUROMA
Patrick Dömer, Bettina Kewitz, Christian Heinen, Thomas Kretschmer, Ulrike Janssen-Bienhold, Oldenburg
- T11-2B** TRIMETHYLtin-INDUCED NEURODEGENERATION IS ASSOCIATED WITH GRADUAL UP-REGULATION OF ECTO-5' NUCLEOTIDASE ON ACTIVATED MICROGLIA
Milorad Dragic, Nataša Mitrovic, Nadežda Nedeljkovic, Ivana Grkovic, Belgrade, Serbia Montenegro

- T11-3B** ARBUTIN PROMOTES FUNCTIONAL RECOVERY FOLLOWING LYSOLECITHIN-INDUCED DEMYELINATION IN RAT OPTIC CHIASM
Forough Ebrahimitabar, Fatemeh Ebrahimitabar, Atena Nazari, Mahdi Pouramir, Manuchehr Ashrafpour, Fereshteh Pourabdolhossein, Babol, Iran
- T11-4B** APP GENE FAMILY MEMBERS AS SYNAPTIC ADHESION MOLECULES
Simone Eggert, Sandra Schilling, Jonathan Stephan, Mathieu Meleux, Marius Zimmermann, Alexander August, Martin Korte, Edward H. Koo, Ulrike C. Müller, Stefan Kins, Kaiserslautern
- T11-5B** IMPACT OF VOLUNTARY RUNNING AND ENVIRONMENTAL ENRICHMENT ON LEARNING AND MEMORY PERFORMANCE IN APP/PS1 MICE
Thomas Endres, Monique Klausch, Georgia-Ioanna Kartalou, Elke Edelmann, Kurt Gottmann, Volkmar Lessmann, Magdeburg
- T11-6B** STIMULATION OF MGLUR1/5 IMPROVES THE DEFECTIVE INTERNALIZATION OF AMPA RECEPTORS IN NPC1 MUTANT MOUSE
Xiao Feng, Rostock
- T11-7B** REDOX HOMEOSTASIS MODULATES AXONAL MICROTUBULE DYNAMICS: EFFECTS ON MICROTUBULE-DEPENDENT TRANSPORT AND TAU-MICROTUBULE INTERACTION
Christian Gach, Benedikt Niewidok, Nancy Monteiro Abreu, Daniel Villar Romero, Lena Schünemann, Jacqueline Becker, Maïke Schober, Anna-Sophie Schwarze, Roland Brandt, Osnabrück
- T11-8B** NANOBODY-BASED SENSOR FOR DETECTING α -SYNUCLEIN-TRANSMISSION IN PARKINSON'S DISEASE MODELS
Christoph Gerdes, Natalia Waal, Hannes Verberg, Nora Wender, Buket Basmanav, Stefan Becker, Silvio Rizzoli, Sebastian Kügler, Felipe Opazo, Göttingen
- T11-9B** HEREDITARY SPASTIC PARAPLEGIA IN DANIO RERIO
Bart Geurten, Gudrun Kracht, Wiebke Möbius, Torben Ruhwedel, Hauke Werner, Ralf Heinrich, Roland Dosch, Göttingen
- T11-10B** COMBINATION OF DIFFERENT APPROACHES FOR THE CHARACTERIZATION OF A RODENT ALZHEIMER'S DISEASE MODEL
Barbara Hinteregger, Tobias Madl, Joerg Neddens, Birgit Hutter-Paier, Robert Wronski, Graz, Austria
- T11-11B** DEEP BRAIN STIMULATION IN THE INFERIOR COLLICULUS INDUCES ANXIOLYTIC EFFECT AND IMPROVES HALOPERIDOL-INDUCED CATALEPSY IN RATS
Hannah Ihme, Rainer K. W. Schwarting, Liana Melo-Thomas, Marburg



- T11-12B** THE ROLE OF 5-HT₇-RECEPTOR SIGNALLING IN NEURODEGENERATIVE DISEASES
Kathrin Jahreis, Josephine Labus, Evgeni Ponimaskin, Hannover
- T11-13B** MODIFICATION OF THE SPREADING OF β -SYNUCLEIN PATHOLOGY IN VIVO
Karina Joppe, Lars Tatenhorst, Anna-Elisa Roser, Stefan Becker, Mathias Bähr, Paul Lingor, Göttingen
- T11-14B** RESCUE OF DENDRITIC SPINE PATHOLOGY IN THE HIPPOCAMPUS OF APP/PS1 MICE
Georgia-Ioanna Kartalou, Thomas Endres, Volkmar Lessmann, Kurt Gottmann, Magdeburg
- T11-15B** EARLY CHANGES IN HIPPOCAMPAL NETWORK OSCILLATIONS AND PARVALBUMIN PROTEIN EXPRESSION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE
Jochen Kuhse, Jan-Oliver Hollnagel, Oliver Kann, Joachim Kirsch, Eva Kiss, Heidelberg
- T11-16B** DISRUPTION IN THE HIPPOCAMPAL NETWORK FUNCTION IN INDUCIBLE FMR1 PREMUTATION MICE
Ufuk Emre Kul, Guersel Caliskan, Renate Hukema, Rob Willemsen, Monica Santos Santos, Oliver Stork, Magdeburg

Friday

- T11-1C** CORTICAL AND SUBCORTICAL VOLUMETRY IN PATIENTS WITH PARKINSON'S DISEASE AND COGNITIVE IMPAIRMENT
Martin Kunz, Martin Gorges, Hans-Jürgen Huppertz, Inga Liepelt-Scarfone, Alexander Storch, Richard Dodel, Rüdiger Hilker-Roggendorf, Daniela Berg, Elke Kalbe, Hans-Peter Müller, Simon Baudrexel, Jan Kassubek, Ulm
- T11-2C** IMPAIRED ORGANELLE TRANSPORT IN A NEURONAL CELL MODEL DERIVED FROM NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS
Maik Liedtke, Franziska Peter, Christin Völkner, Michael Rabenstein, Moritz J. Frech, Rostock
- T11-3C** THE NMDA RECEPTOR ANTAGONIST KETAMINE TRANSIENTLY REDUCES THALAMOCORTICAL SPINDLE AND SLOW OSCILLATIONS IN A RODENT MODEL OF NON-REM SLEEP
Ali Mahdavi, Didier Pinault, Stefan Rotter, Yi Qin, Marine Bertschy, Damaris Cornec, Strasbourg, France
- T11-4C** MISPERCEPTIONS AND PERFORMANCE FLUCTUATIONS AND THEIR RELATION TO RESTING STATE FUNCTIONAL CONNECTIVITY IN PARKINSON PATIENTS
Kristina Miloserdov, Carsten Schmidt-Samoa, Kathleen Williams, Christiane Anne Weinrich, Kathrin Bürk, Claudia Trenkwalder, Mathias Bähr, Melanie Wilke, Göttingen
- T11-5C** OPTOGENETIC STIMULATION INHIBITS SEIZURE GENERATION IN A MOUSE MODEL OF MESIAL TEMPORAL LOBE EPILEPSY
Enya Paschen, Philipp Janz, Katharina Heining, Diego Vieira, Dr. Ute Häussler, Antje Kiliass, Prof. Dr. Ulrich Eger, Prof. Dr. Carola Haas, Freiburg

- T11-6C** APOLIPOPROTEIN D-MEDIATED REGULATION OF LYSOSOMAL MEMBRANE INTEGRITY PRESERVE LYSOSOMAL FUNCTION AND PROMOTES CELL SURVIVAL IN NIEMANN-PICK TYPE A DISEASE
Raquel Pascua-Maestro, María D. Ganfornina, María D. Ledesma, Diego Sanchez, Valladolid, Spain
- T11-7C** REPLICATIVE REPROGRAMMING IN THE CONTEXT OF PHYSIOLOGICAL CNS AGING AND AGE-RELATED NEURODEGENERATION
Diane Penndorf, Alessandro Ori, Ivonne Heinze, Joanna Kirkpatrick, Otto W. Witte, Alexandra Kretz, Jena
- T11-8C** SCRNAMEQ ANALYSIS OF BRAIN ORGANOIDS TO STUDY MOLECULAR MECHANISM OF LEIGH SYNDROME
Tancredi Massimo Pentimalli, Agnieszka Rybak-Wolf, Nikos Karaikos, Gizem Inak, Alessandro Prigione, Nikolaus Rajewsky, Rome, Italy
- T11-9C** MITOCHONDRIAL AND LYSOSOMAL DYSFUNCTION HAVE OPPOSITE EFFECTS ON LIPID BIOSYNTHESIS
Leonardo Gabriel Pereyra, Nuno Raimundo, Göttingen
- T11-10C** AXONAL CHANGES UPON TOXIN-INDUCED MYELIN REMODELING
Friederike Pfeiffer, Petra Fallier-Becker, Tübingen
- T11-11C** GABAERGIC SYNAPTIC INPUT TO CEREBELLAR PURKINJE CELLS IS AFFECTED IN A NIEMANN-PICK TYPE C1 MOUSE MODEL
Michael Rabenstein, Christin Völkner, Maik Liedtke, Arndt Rolfs, Moritz J. Frech, Rostock
- T11-12C** SPECIFIC MUTATIONS IN PRESENILIN 1 HAVE A DIFFERENTIAL ROLE ON MITOCHONDRIAL PHENOTYPE AND FUNCTION
Liliana Rojas-Charry, Laura Heikaus, Harmut Schlueter, Christian Hagel, Markus Glatzel, Diego Sepulveda-Falla, Hamburg
- T11-13C** COMBINATION OF SESAMIN AND ALPHA-MANGOSTIN ATTENUATES HYDROGEN PEROXIDE-INDUCED NEURORODEGENERATION
Waralee Ruankham, Wilasinee Suwanjang, Virapong Prachayasittikul, Supaluk Prachayasittikul, Kamonrat Phopin, Nakorn Pathom, Thailand
- T11-14C** ALTERATIONS OF NEUROGENESIS IN DENTATE GYRUS PRECEDE DEVELOPMENT OF ALZHEIMER'S DISEASE-LIKE PATHOLOGY IN OXYS RATS
Ekaterina Rudnitskaya, Tatiana Kozlova, Alena Burnyasheva, Nataliya Kolosova, Natalya Stefanova, Novosibirsk, Russia
- T11-15C** EPIGENETIC PROFILING IN EXPERIMENTAL MODELS ENTAILING MITOCHONDRIAL AND NON-MITOCHONDRIAL TOXINS - IMPLICATIONS FOR MOVEMENT DISORDERS
Ranganayaki Sathyanarayanan, Srinivas Bharath MM, Bangalore, India



T11-16C ASTROCYTE – T-LYMPHOCYTE COMMUNICATION UNDER NEUROINFLAMMATORY CONDITIONS

Samantha Schmaul, Julian Loeffel, Dirk Luchtman, Stefan Bittner, Mainz

Saturday

T11-1D LINKING COGNITION TO AMYLOID- β BURDEN IN THE BRAIN OF A NON-HUMAN PRIMATE (*MICROCEBUS MURINUS*)

Daniel Schmidtke, Elke Zimmermann, Stéphanie G. Trouche, Pascaline Fontès, Jean- Michel Verdier, Nadine Mestre-Francés, Hannover

T11-2D EFFECT OF NOVEL ACETYLCHOLINESTERASE INHIBITORS 3-NITRO-6-AMINO-SUBSTITUTED MIDAZO[1,2-B]PYRIDAZINE DERIVATIVE COMPOUNDS ON MITOCHONDRIAL PHYSIOLOGY

Rakesh Kumar Sharma, Manisha Singh, Sridhar Pulavarthi, Sabbasani Rajasekhara, Ravi Shankar Akundi, New Delhi, India

T11-3D BASELINE NEURONAL-ACTIVITY DEPENDENCE OF $A\beta$ -INDUCED DYSFUNCTION

Manuel Simon, Benedikt Zott, Arthur Konnerth, Munich

T11-4D INCREASE OF NEURONAL ACTIVITY BY 4-AMINOPYRIDINE *IN VIVO*, IMPROVES SENSORY-MOTOR DYSFUNCTION IN A MOUSE MODEL OF SMA

Christian Marc Simon, John G. Pagiazitis, Emily V. Fletcher, Beatriz Blanco-Redondo, George Z. Mentis, Leipzig

T11-5D ABERRANT NITRIC OXIDE AND REDOX SIGNALLING INDUCES GLYCATION ACTIVITY RESULTING IN ENHANCED NEURONAL DYSFUNCTION IN NEURODEGENERATION

Joern Steinert, Julie Bourgognon, Jereme Spiers, Leicester, UK

T11-6D THE NEUROVASCULAR UNIT IN ALZHEIMER'S DISEASE

Stephanie Lauren Taylor, Gabor Petzold, Bonn

T11-7D TWO-PHOTON GLUTAMATE IMAGING SUGGESTS MECHANISM FOR AMYLOID- β -DEPENDENT NEURONAL DYSFUNCTION

Felix Gabriel Unger, Benedikt Zott, Hsing-Jung Chen, Arthur Konnerth, Munich

T11-8D EVALUATION OF POTENTIAL PHARMACOLOGICAL CHAPERONES IN A NEURONAL CELL MODEL DERIVED FROM NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS

Christin Völkner, Franziska Peter, Maik Liedtke, Michael Rabenstein, Moritz J. Frech, Rostock

T11-9D CYTOSKELETAL ALTERATIONS CONTRIBUTING TO SYNAPTO-AXONAL DYSFUNCTION IN PARKINSON'S DISEASE

Carmina Carelia Warth Perez Arias, Lucas Caldi Gomes, Kim-Ann Saal, Christof Lenz, Henning Urlaub, Silvio Rizzoli, Paul Lingor, Göttingen

- T11-10D** EFFECTS OF CANNABIDIOL ON DIABETES OUTCOMES AND CHRONIC CEREBRAL HYPOPERFUSION COMORBIDITIES IN MIDDLE-AGED RATS
Rúbia Maria Weffort de Oliveira, Amanda Santiago, Marco Aurelio Mori, Humberto Milani, Francisco Silveira Guimarães, Maringá, Brazil
- T11-11D** ENDOCYTIC DEFECTS IMPAIR LYSOSOMAL AND MITOCHONDRIAL FUNCTION
Katarzyna Wieceiorek, King Faisal Yambire, Lorena Fernández Mosquera, Ángela Sánchez Guerrero, Ira Milosevic, Nuno Raimundo, Göttingen
- T11-12D** ROLE OF THE SUBTHALAMIC NUCLEUS IN IMPULSE CONTROL
Zifeng Xia, Franziska Richter, Frank W. Ohl, Kentaroh Takagaki, Magdeburg
- T11-13D** LYSOSOMAL AND MITOCHONDRIAL CROSSTALK: A CASE FOR NEURODEGENERATION IN LSDS?
King Faisal Yambire, Ira Milosevic, Nuno Raimundo, Göttingen
- T11-14D** VULNERABILITY OF HIGHLY ACTIVE BRAIN REGIONS IN ALZHEIMER'S DISEASE
Benedikt Zott, Arthur Konnerth, Munich
- T11-15D** NEUROINFLAMMATION IN A MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS WITH FUS GENE MUTATION AND EFFECTS OF STANDARD AND NEW THERAPIES
Diana Ivanovna Babaevskaia, Johannes de Munter, Alexander Trofimov, Joao Costa-Nunes, Dmitry Pavlov, Ekaterina Veniaminova, Margarita Oplatchikova, Anna Gorlova, Klaus-Peter Lesch, Erik Wolters, Daniel Anthony, Tatyana Strelakova, Moscow, Russia
- T11-16D** α -SYNUCLEIN AGGREGATION MECHANISMS & THE ROLE OF LYSOSOMAL CATHEPSINS IN PARKINSON'S DISEASE
Josina Bunk, Alice Drobny, Susy Prieto Huarcaya, Friederike Zunke

T12: Neuroimmunology, inflammation and neuroprotection

Wednesday

- T12-1A** DISTINCT CARBOHYDRATE CONTENT IS RESPONSIBLE FOR DIFFERENCES IN ENZYMATIC AND ADHESIVE PROPERTIES OF EN/CD73 IN RAT CORTICAL ASTROCYTE CULTURES WHEN EXPOSED TO FACTORS COMMONLY UP-REGULATED IN STATES OF BRAIN INJURY, INFLAMMATION OR DEGENERATION
Marija Adzic, Nadezda Nedeljkovic, Belgrade, Serbia Montenegro



- T12-2A** PITUITARY CUES REGULATE THE DEVELOPMENT OF PERMEABLE NEURO-VASCULAR INTERFACES
Savani Anbalagan, Ludmila Gordon, Janna Blechman, Ryota L. Matsuoka, Preethi Rajamannar, Einav Wircer, Jakob Biran, Adrianna Reuveny, Dena Leshkowitz, Didier Y.R. Stainier, Gil Levkowitz, Rehovot, Israel
- T12-3A** IN-VIVO ELECTROCORTICOGRAPHY RECORDINGS IN AWAKE MICE AFTER STROKE AS A TOOL FOR ASSESSING EARLY DISRUPTION OF CORTICAL CONNECTIVITY
Jonatan Mathis Biskamp, Tobias Ewert, Christian Gerloff, Tim Magnus, Hamburg
- T12-4A** INTRANASAL ADMINISTRATION OF MESENCHYMAL STEM CELL-DERIVED EXOSOMES LOADED WITH PHOSPHATASE AND TENSIN HOMOLOG SMALL INTERFERING RNA ENABLES FUNCTIONAL RECOVERY IN RATS AFTER COMPLETE SPINAL CORD INJURY
Shaowei Guo, Nisim Perets, Oshra Betzer, Shahar Ben-Shaul, Anton Sheinin, Izhak Michaelevski, Rachela Popovtzer, Daniel Offen, Shulamit Levenberg, Haifa, Israel

Thursday

- T12-1B** EPO-INDUCED NEUROPROTECTION: CRUCIAL ROLE FOR ORTHOLOGUES OF THE ORPHAN CYTOKINE RECEPTOR CRLF3
Nina Hahn, Göttingen
- T12-2B** MANIPULATING MICROGLIA TO ENHANCE ANTI-VIRAL ACTIVITY IN THE CNS – IMPLICATIONS FOR MULTIPLE SCLEROSIS AND VIRAL ENCEPHALITIS
Lorna Hayden, Tiia Semenoff, Julia Edgar, Marieke Pinggen, Xiaohong Shi, Christopher Linington, Glasgow, UK
- T12-3B** NMDAR DEPENDENT AND INDEPENDENT PLASTICITY IN A MODEL OF ANTI-NMDAR ENCEPHALITIS
Timo Kirschstein, Roman Blome, Willi Bach, Xiati Guli, Christian Bien, Rüdiger Köhling, Rostock
- T12-4B** ANCIENT FUNCTIONS OF “ERYTHROPOIETIN-LIKE” NEUROPROTECTIVE SIGNALING IN INSECTS: RECEPTORS, TRANSDUCTION PATHWAYS AND ANTI-APOPTOTIC EFFECTS
Debbara Yasemin Knorr, Nina Hahn, Bitia Massih, Franziska Schmitt, Nicola Schwedhelm-Domeyer, Stephanie Pauls, Ralf Heinrich, Göttingen
- T12-5B** MICROGLIA-RELATED INCREASE IN NTPDASE1 EXPRESSION DURING EAE
Danijela Laketa, Marija Jakovljevic, Iva Bozic, Ivana Bjelobaba, Danijela Savic, Sanja Pekovic, Nadezda Nedeljkovic, Irena Lavrnja, Belgrade, Serbia Montenegro

Friday

- T12-1C** IDENTIFICATION AND CHARACTERIZATION OF NOVEL AUTOANTIGENS OF AUTOIMMUNE NEUROPATHIES
Christian P. Moritz, Oda Stoevesandt, Yannick Tholance, Evelyne Federspiel, Karine Ferraud, Martin Jung, Carole Rosier, Mike Taussig, Jean-Philippe Camdessanché, Jean-Christophe Antoine, Saint-Etienne/Lyon, France
- T12-2C** ANTI-FGFR3 ANTIBODY: A BIOMARKER OF SENSORY NEURONOPATHIES OR AN ACTIVE PLAYER OF NEURON DEGENERATION?
Yara Nasser, Christian Moritz, Evelyne Reynaud-Federspiel, Jean Philippe Camdessanche, Jean Christophe Antoine, Nadia Boutahar, Saint Etienne, France
- T12-3C** COMPLEX REGULATION OF ECTO-5'-NUCLEOTIDASE/CD73 DURING NEUROINFLAMMATION: UNDERLYING MECHANISM LEADING TO ALTERED ADENOSINE GENERATION
Nadezda Nedeljkovic, Danijela Laketa, Irena Lavrnja, Marija Adzic, Belgrade, Serbia Montenegro
- T12-4C** CEFTRIAXONE PRETREATMENT MODULATES BRAIN ENERGY METABOLISM AFTER FOCAL PERMANENT ISCHEMIA
Yasmine Nonose, Andressa Wigner Brochier, Jussemara Souza da Silva, Rodrigo Vieira Apel, Roberto Farina Almeida, Fernanda Urruth Fontella, Diogo Onofre Gomes Souza, Adriano Martimbianco de Assis, Porto Alegre, Brazil
- T12-5C** EFFECT OF FINGOLIMOD ON NEURONAL ARCHITECTURE AND ACTIVITY
Abhisarika Patnaik, Maria Fezzari, Eleonora Spiombi, Nicoletta Landsberger, Martin Korte, Marta Zagrebelsky, Braunschweig

Saturday

- T12-1D** DIFFERENTIAL INTERACTION PATTERNS OF ANTISERA TO THE ORAL CAVITY BACTERIA *PORPHYROMONAS GINGIVALIS* AND *STREPTOCOCCUS MUTANS* ON A HUMAN FIRST TRIMESTER FETAL BRAIN MULTIPROTEIN ARRAY
Bernhard Reuss, Göttingen
- T12-2D** HERV-K IS A LIGAND FOR TLR8 AND MEDIATES GLIOBLASTOMA INVASIVENESS
Christine Römer, Manvendra Singh, Alice Buonfiglioli, Omar Dzaye, Seija Lehnardt, Zsuzsanna Izsvák, Berlin
- T12-3D** FERRITIN IN PRIMARY MURINE MICROGLIA
Melanie Schürz, Karin Oberascher, Nikolaus Bresgen, Hubert H. Kerschbaum, Salzburg, Austria
- T12-4D** LGI1 ANTIBODIES FROM PATIENTS WITH AUTOIMMUNE ENCEPHALITIS ALTER KV1.1 AND AMPA RECEPTORS CHANGING SYNAPTIC EXCITABILITY, PLASTICITY AND MEMORY
Josefine Sell, Mar Petit-Pedrol, Holger Haselmann, Mihai Ceanga, Jesús Planagumà, Francesco Mannara, Marija Radosevic, Marianna Spatola, Josep Dalmau, Christian Geis, Jena



T13: Cognitive, emotional, behavioral state disorders and addiction

Wednesday

- T13-1A** PERSISTENT INCREASE IN VENTRAL HIPPOCAMPAL LONG-TERM POTENTIATION BY JUVENILE STRESS: A ROLE FOR ASTROCYTIC GLUTAMINE SYNTHETASE
Anne Albrecht, Sebastian Ivens, Gürsel Caliskan, Uwe Heinemann, Oliver Stork, Magdeburg
- T13-2A** NEUROPEPTIDE S RECEPTOR POLYMORPHISM (I107N) FACILITATES FEAR EXTINCTION IN SEX- AND SALIENCE-DEPENDENT MANNER
Xabier Bengoetxea, Jasmin Remmes, Lena Goedecke, Peter Blaesse, Hans-Christian Pape, Kay Jüngling, Münster
- T13-3A** PHARMACOLOGICAL AND NON-INVASIVE ELECTRO-STIMULATION APPROACHES TO ENHANCE LEARNING IN RATS OVEREXPRESSING THE DOPAMINE TRANSPORTER
Nadine Bernhardt, Maïke Kristin Lieser, Bettina Habelt, Henriette Edemann-Callesen, Christine Winter, Dresden
- T13-4A** FUNCTIONAL ANALYSIS OF A TRIPLET DELETION IN THE GENE ENCODING THE SODIUM GLUCOSE TRANSPORTER 3, A POTENTIAL RISK FACTOR FOR ADHD
Frank Döring, Nadine Schäfer, Maximilian Friedrich, Morten Egevang Jørgensen, Sina Kollert, Hermann Koepsell, Erhard Wischmeyer, Klaus-Peter Lesch, Dietmar Geiger, Würzburg
- T13-5A** EVALUATION OF THE THERAPEUTIC EFFECT OF TWEEN 80 MODIFIED CHITOSAN NANOCAPSULES LOADED WITH THYMOQUINONE IN A RESERPINE-INDUCED MODEL OF DEPRESSION IN WISTAR RATS
Amena Sayed El-Feky, Heba Mohamed Fahmy, Taiseer Mohamed Abd El-Daim, Amara Abdelkrem Abd Rabo, Amira Bahaa El-Din Mostafa, Eslam Tarek Mostafa, Yasser Ashry Khadrawy, Cairo, Egypt
- T13-6A** FMRP MODULATES ACTIVITY-DEPENDENT SPINE PLASTICITY BY BINDING COFILIN1 MRNA AND REGULATING LOCALIZATION AND LOCAL TRANSLATION
Jonas Feuge, Franziska Scharkowski, Martin Korte, Kristin Michaelsen-Preusse, Braunschweig

Thursday

- T13-1B** THE EFFECT OF DEEP-BRAIN STIMULATION OF THE MEDIAL FOREBRAIN BUNDLE ON SLEEP IN THE FSL RAT MODEL OF DEPRESSION
Wilf John Jago Gardner, Laura Durieux, Fanny Fuchs, Chantal Mathis, Volker A. Coenen, Máté Döbrössy, Lucas Lecourtier, Freiburg
- T13-2B** A FUNCTIONAL ROLE FOR THE NEUROPEPTIDE-S RECEPTOR POLYMORPHISM NPSR1 I107N IN FEAR AND ANXIETY
Lena Goedecke, Jasmin Remmes, Xabier Bengoetxea, Sion Park, Hans-Christian Pape, Kay Jüngling, Münster

- T13-3B** BLOCKADE OF ENDOGENOUS OPIOIDS ENHANCES THREAT LEARNING BY SOCIAL OBSERVATION
Jan Haaker, Jonatan Yi, Predrag Petrovic, Andreas Olsson, Hamburg
- T13-4B** 5-HTT DEFICIENT MICE AFTER EXPERIENCING PRE-NATAL STRESS: GENE EXPRESSION STUDY FOCUSING ON GENES RELATED TO THE VASOPRESSIN AND OXYTOCIN BRAIN SYSTEMS
Catharina Sophia Hamann, Karla-Gerlinde Schraut, Gabriela Ortega, Lisa Seeberger, Klaus-Peter Lesch, Angelika Schmitt-Böhner, Würzburg
- T13-5B** CONTRIBUTION OF CRF AND 5-HT IN THE ANTERO-DORSAL BNST TO PHASIC AND SUSTAINED FEAR IN FREELY BEHAVING MICE
Margarita Hessel, Thomas Seidenbecher, Münster
- T13-6B** METHYLPHENIDATE (MPH) PRODUCES CONDITIONED PLACE PREFERENCE (CPP) IN MARMOSET MONKEYS AND CANNABIDIOL EXPOSURE DURING EXTINCTION DO NOT INHIBIT THE REINSTATEMENT OF MPH-INDUCED CPP
Adel Kashafi, Renata B. Duarte, Fernando M. Jesus, Abbas Haghparast, Carlos Tomaz, Brasilia, Brazil
- T13-7B** PROTEASOMAL DEGRADATION OF KCa2.2 CHANNELS IS INVOLVED IN EMERGENCE OF ACUTE EPILEPTIFORM ACTIVITY
Rüdiger Köhling, Steffen Müller, Xiati Guli, Victor Sudmann, Timo Kirschstein, Rostock

Friday

- T13-1C** SPATIAL MEMORY IMPAIRMENTS FOLLOWING IMMUNOTOXIC LESION OF GABAERGIC NEURONS OF THE BASAL FOREBRAIN
Lali Kruashvili, Tbilisi, Georgia
- T13-2C** THE RECOGNITION MEMORY IN MICE: STANDARDIZATION OF BEHAVIOURAL TESTS AND APPLICATION OF THE METHOD TO STUDY EFFECTS OF A MYCOTHERAPY SUBSTANCE
Veralice Lanaia, Paola Rossi, Erlangen
- T13-3C** IMPACT OF THE ASM/CERAMIDE SYSTEM ON HIPPOCAMPAL NEURONAL EXCITABILITY
Chih-hung Lin, Fang Zheng, Maria J. Valero, Johannes Kornhuber, Christian Alzheimer, Erlangen
- T13-4C** IMMEDIATE AND PERSISTING EFFECT OF TOLUENE CHRONIC EXPOSURE IN ADULT AND ADOLESCENT RATS: THE STRUCTURE OF THE HIPPOCAMPUS AND LEARNING AND MEMORY
Nino Pochkhidze, Mzia Zhania, Manana Dashniani, Nadezhda Japaridze, Nino Chkhikvishvili, Lia Gelazonia, Tbilisi, Georgia
- T13-5C** THE CHARACTERISATION OF ULTRASONIC COMMUNICATION IN RATS LACKING BRAIN SEROTONIN
Agnieszka Potasiewicz, Agnieszka Nikiforuk, Joanna Golebiowska, Malgorzata Holuj, Natalia Alenina, Michael Bader, Piotr Popik, Crakow, Poland



- T13-6C** EFFECTS OF AN ACUTE DECREASE OF CENTRAL SEROTONIN ON DECISION MAKING, IMPULSIVITY AND SOCIAL ABILITIES OF A NOVEL LINE OF RATS WITH INDUCIBLE SEROTONIN DEPLETION IN THE BRAIN
Marion Rivalan, Natalia Alenina, Michael Bader, York Winter, Lucille Alonso, Belrin
- T13-7C** SIGN- VERSUS GOAL-TRACKING BEHAVIOR IN HAPLO-INSUFFICIENT CACNA1C RATS
Nivethini Sangarapillai, Markus Woehr, Rainer K. W. Schwarting, Marburg

Saturday

- T13-1D** RESTING STATE FMRI BASED TARGET SELECTION FOR PERSONALIZED BRAIN STIMULATION TEMPORARILY ALTERS THE DEFAULT MODE NETWORK IN HEALTHY SUBJECTS
Aditya Singh, Tracy Erwin-Grabner, Grant Sutcliffe, Andrea Antal, Walter Paulus, Roberto Goya-Maldonado, Göttingen
- T13-2D** COCAINE PREFERENCE IN *DROSOPHILA MELANOGASTER*
Raquel Suárez-Grimalt, David Oswald, Berlin
- T13-3D** PSYCHOPHYSIOLOGICAL AND EPIGENETIC MARKERS OF FEAR GENERALIZATION IN ANXIOUS AND NON-ANXIOUS DEPRESSION
Catherina Wurst, Carolin Leistner, Felix Nitzschke, Saskia Stonawski, Martin Herrmann, Paul Pauli, Jürgen Deckert, Andreas Menke, Würzburg
- T13-4D** INVOLVEMENT OF D1/D2 DOPAMINE RECEPTORS WITHIN THE NUCLEUS ACCUMBENS AND VENTRAL TEGMENTAL AREA IN THE DEVELOPMENT OF SENSITIZATION TO ANTINOCICEPTIVE EFFECT OF MORPHINE¹
Leila Zarepour, Tehran, Iran
- T13-5D** HUMAN STEM CELL-BASED MODEL OF ALCOHOL USE DISORDERS
Annika Zink, Gizem Inak, Pawel Lisowski, Erich Wanker, Josef Priller, Alessandro Prigione, Berlin
- T13-6D** BRAIN-COMPUTER INTERFACE (BCI) BASED COMMUNICATION WITH THE COMPLETELY PARALYSED
Niels Birbaumer, Andres Jaramillo Gonzalez, Ujwal Chaudhary, Tübingen

T14: Vision: invertebrates

Wednesday

- T14-1A** FEATURE DETECTION AND ACTION SELECTION IN NEURONAL CIRCUITS FOR ESCAPE AND LANDING IN *DROSOPHILA*
Jan Marek Ache, Shigehiro Namiki, Catherine R. von Reyn, Gwyneth M. Card, Ashburn, USA

- T14-2A** NEURONAL PROCESSING OF POLARIZED LIGHT PRESENTED FROM VENTRAL DIRECTION IN THE BRAIN OF THE DESERT LOCUST
Marius Johannes Beck, Vanessa Althaus, Uwe Homberg, Uta Pegel, Marburg
- T14-3A** TETRODE RECORDINGS FROM VISUAL NEURONS IN FLYING MONARCH BUTTERFLIES
M. Jerome Beetz, Martin Strube-Bloss, Basil el Jundi, Würzburg
- T14-4A** COURTING AND WALKING IN THE DARK - SENSORY DEPRESSION SHAPES BEHAVIOUR
Kristina Corthals, Miriam Berger, Bart R.H. Geurten, Göttingen
- T14-5A** THE USE OF SPECTRAL CUES FOR ORIENTATION IN THE MONARCH BUTTERFLY *DANAUS PLEXIPPUS*
Myriam Franzke, David Dreyer, Eric Warrant, Basil el Jundi, Würzburg

Thursday

- T14-1B** CALCIUM IMAGING IN TETHERED BEHAVING HONEYBEES
Martina Held, Hannah Haberkern, Claire Deo, Luke Lavis, Vivek Jayaraman, Keram Pfeiffer, Würzburg
- T14-2B** GABAERGIC AND GLUTAMATERGIC INHIBITION SHAPE VISUAL MOTION PROCESSING IN *DROSOPHILA*
Miriam Henning, Prof. Dr. Marion Silies, Mainz
- T14-3B** ORGANIZATION OF THE LATERAL COMPLEX IN THE BRAIN OF THE DESERT LOCUST *SCHISTOCERCA GREGARIA* – SINGLE-CELL ANALYSES AND NEUROPIIL STRUCTURE
Ronja Hensgen, Stefanie Jahn, Kim Schneider, Uwe Homberg, Marburg
- T14-4B** INTRACELLULAR RECORDINGS FROM A TIME-COMPENSATED SUN-COMPASS IN MONARCH BUTTERFLIES (*DANAUS PLEXIPPUS*)
Tu Anh Nguyen Thi, Basil el Jundi, Würzburg

Friday

- T14-1C** OPTIC FLOW SUPPORTS THE REPRESENTATION OF HEADING DIRECTION IN THE DESERT LOCUST CENTRAL COMPLEX
Uta Pegel, Ronny Rosner, Keram Pfeiffer, Uwe Homberg, Cleveland, USA
- T14-2C** DYNAMIC PROPERTIES OF CENTRAL COMPLEX NEURONS IN THE BUMBLEBEE
Keram Pfeiffer, Lisa Rother, Würzburg
- T14-3C** NATURAL STIMULI FOR MICE
Yongrong Qiu, Zhijian Zhao, Magdalena Kautzky, Frank Schaeffel, Katharina Rifai, Siegfried Wahl, Laura Busse, Thomas Euler, Tübingen



- T14-4C** A NEURON TYPE WITH VARIABLE RECEPTIVE FIELD PROPERTIES IS REQUIRED FOR ROBUST MOTION PROCESSING
Luis Giordano Ramos Traslosheros Lopez, Marion Silies, Mainz

Saturday

- T14-1D** MODALITY-SPECIFIC CIRCUITS IN THE FLY VISUAL SYSTEM
Gizem Sancer, Emil Kind, Juliane Uhlhorn, Thomas Mathejczyk, Mathias F. Wernet, Berlin
- T14-2D** PARALLEL SPATIAL CHANNELS IN HAWKMOTH VISION?
Anna Stöckl, Keram Pfeiffer, Würzburg
- T14-3D** PREFERRED POLARIZATION ANGLE OF NEURONS AT THE INPUT STAGE OF THE LOCUST CENTRAL COMPLEX
Naomi Takahashi, Frederick Zittrell, Uwe Homberg, Marburg
- T14-4D** RECEPTIVE-FIELD TUNING TO CELESTIAL POLARIZATION PATTERNS IS TOPOGRAPHICALLY ORGANIZED IN THE LOCUST CENTRAL COMPLEX
Frederick Zittrell, Keram Pfeiffer, Uwe Homberg, Marburg

T15: Vision: retina and subcortical pathways

Wednesday

- T15-1A** A NOVEL TYPE OF VISUAL RESPONSES IN THE RAT SUPERIOR COLLICULUS NEURONS IS ABLE TO TRACK SLOW CHANGES IN THE ILLUMINATION LEVELS
Gytis Baranauskas, Kaunas, Lithuania
- T15-2A** MOUSE DLGN RECEIVES FUNCTIONAL INPUT FROM A DIVERSE POPULATION OF RETINAL GANGLION CELLS WITH LIMITED CONVERGENCE
Yannik Bauer, Miroslav Roman-Roson, Ann H. Kotkat, Philipp Berens, Thomas Euler, Laura Busse, Munich
- T15-3A** VISUAL RESPONSE PROPERTIES OF MOUSE TRN ARE CONSISTENT WITH ITS POTENTIAL ROLE FOR FEED-BACK-MEDIATED SURROUND SUPPRESSION
Gregory Born, Martin A. Spacek, Chu Lan Lao, Laura Busse, Martinsried
- T15-4A** EXPRESSION OF SOX2 IN THE VISUAL SYSTEM OF FISH
Laura deOliveira-Mello, Juan Manuel Lara Pradas, Almudena Velasco Arranz, Rosário Arévalo Arévalo, Andreas F. Mack, Salamanca, Spain

Thursday

- T15-1B** SIGNAL TRANSMISSION AT INVAGINATING CONE PHOTORECEPTOR SYNAPTIC CONTACTS FOLLOWING DELETION OF THE PRESYNAPTIC CYTOMATRIX PROTEIN BASSOON IN MOUSE RETINA
Andreas Feigenspan, Norbert Babai, Kaspar Gierke, Hanna Regus-Leidig, Johann Helmut Brandstätter, Erlangen
- T15-2B** FUNCTIONAL BINOCULAR CONVERGENCE IN THE RETINOGENICULATE PATHWAY
Martin Hans Peter Fernholz, Simon Weiler, Joel Bauer, Juliane Jäpel, Volker Scheuss, Mark Hübener, Tobias Bonhoeffer, Tobias Rose, Martinsried
- T15-3B** ADAPTATION IN MOUSE RODS AND CONES IN VIVO: AN ELECTRORETINOGRAPHIC STUDY USING SILENT SUBSTITUTION STIMULI
Anneka Joachimsthaler, Jan Kremers, Erlangen
- T15-4B** COMBINING TWO PHOTON MICROSCOPY AND CMOS MEA TO UNCOVER THE MECHANISM OF ABERRANT ACTIVITY IN BLIND RETINA
Meng-Jung Lee, Prerna Srivastava, Luke Rogerson, Philipp Berens, Thomas Euler, Timm Schubert, Günther Zeck, Reutlingen
- T15-5B** CHROMATIC PROCESSING AT THE MOUSE PHOTORECEPTOR SYNAPSE
Maria Magdalini Korympidou, Deniz Dalkara, Thomas Euler, Timm Schubert, Katrin Franke, Tübingen

Friday

- T15-1C** NATURAL STIMULI REVEAL A SPECTRUM OF SPATIAL ENCODING ACROSS THE OUTPUT CHANNELS OF THE RETINA
Dimokratis Karamanlis, Tim Gollisch, Göttingen
- T15-2C** SPHERICAL STIMULUS ARENA REVEALS PRECISE DEPENDENCE OF OPTOKINETIC RESPONSE GAIN ON STIMULUS LOCATION ACROSS ENTIRE VISUAL FIELD OF LARVAL ZEBRAFISH
Rebecca Meier, Florian A. Dehmelt, Julian Hinz, Clara A. Simacek, Takeshi Yoshimatsu, Kun Wang, Väinö Haikala, Dierk Reiff, Tom Baden, Aristides B. Arrenberg, Tübingen
- T15-3C** TOWARDS SPATIO-TEMPORAL OPTOGENETIC THRESHOLD MAPS IN BLIND RETINAS
Miriam Reh, Meng-Jung Lee, Martin Kriebel, Günther Zeck, Reutlingen
- T15-4C** IN VIVO EXCITOTOXIC INSULT TO THE MOUSE RETINA CAUSES RETINAL GANGLION CELL DEGENERATION, OPTIC NERVE INJURY AND VASCULAR DAMAGE
Annabelle Schlüter, Bahar Aksan, Eva Bindewald, Daniela Mauceri, Heidelberg



- T15-5C** BINOCULAR PROCESSING AND RECEPTIVE FIELDS OF MOTION-SENSITIVE NEURONS IN THE ZEBRAFISH PRETECTUM AND TECTUM
Kun Wang, Julian Hinz, Väinö Haikala, Dierk F. Reiff, Aristides B. Arrenberg, Tübingen

Saturday

- T15-1D** CHROMATIC PROCESSING IN MOUSE RETINAL GANGLION CELLS
Kludia Szatko, Thomas Euler, Katrin Franke, Tübingen
- T15-2D** AN INTRINSIC ELECTRORETINOGRAM RESPONSE IN ISOLATED MOUSE RETINA
Motoharu Takao, Yumi Fukuda, Takeshi Morita, Hadano, Japan
- T15-3D** SPONTANEOUS OSCILLATORY NETWORKS IN THE OUTER AND INNER *rd10* RETINA
Prerna Srivastava, Luke E. Rogerson, Meng-Jung Lee, Deniz Dalkara, Günther Zeck, Philipp Berens, Thomas Euler, Timm Schubert, Tübingen
- T15-4D** FAST AXIAL IMAGING OF GLUTAMATE DYNAMICS IN THE MOUSE INNER PLEXIFORM LAYER
Zhijian Zhao, Dario Protti, Katrin Franke, Luke Rogerson, Deniz Dalkara, Timm Schubert, Thomas Euler, Tübingen
- T15-5D** A RETINAL ORIGIN OF NYSTAGMUS IN *nyx*^{-/-} MICE
Maj-Britt Hölzel, Beerend H. J. Winkelman, Marcus H. Howlett, Coen Joling, Gobinda Pangen, Hiraki Sakuta, Masaharu Noda, Huib J. Simonsz, Maureen A. McCall, Chris de Zeeuw, Maarten Kamermans, Amsterdam, The Netherlands

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

Wednesday

- T16-1A** SPACE ODDITY: OBSERVATION OF VISUAL MMN IN MICE VIA *IN VIVO* 2-P CA IMAGING
Elisabeta Balla, Ivo Vanzetta, Bjoern M. Kampa, Aachen
- T16-2A** FROM STRUCTURE TO FUNCTION: STABILITY AND PLASTICITY IN MOUSE VISUAL CORTEX
Joel Bauer, Simon Weiler, Mark Hübener, Tobias Bonhoeffer, Tobias Rose, Martinsried
- T16-3A** A VIRTUAL SPATIAL NAVIGATION TASK FOR MULTI-SENSORY DISCRIMINATION
Alexander Bexter, Christina Nothbaum, Florent Haiss, Bjoern M. Kampa, Aachen

- T16-4A** POSTNATAL DEVELOPMENT OF ELECTROPHYSIOLOGICAL PROPERTIES IN LAYER 2/3 AND LAYER 5 PYRAMIDAL NEURONS IN THE PRIMARY VISUAL CORTEX
Natalja Ciganok, Claas Halfmann, Thomas Rüländ, Björn Kampa, Aachen
- T16-5A** BINOCULAR INTEGRATION AND MATCHING OF NEURONAL RESPONSES IN THE PRIMARY VISUAL CORTEX OF PSD-95 KNOCKOUT AND WILDTYPE MICE
Susanne Dehmel, Kanishka Waghmare, Michael Weick, Kalina Makowiecki, Christina Stoldt, Lisa Stamme, Xiaojie Huang, Man Ho Wong, Oliver M. Schlüter, Siegrid Löwel, Göttingen

Thursday

- T16-1B** EVOKING AND TRACKING ZEBRAFISH EYE MOVEMENT IN MULTIPLE LARVAE WITH ZEBEYETRACK, AN OPEN-SOURCE APPLICATION
Florian Alexander Dehmelt, Adam von Daranyi, Claire Leyden, Aristides B. Arrenberg, Tübingen
- T16-2B** ORIENTATION SELECTIVITY IN CORTICAL NEURONS EX-VIVO FROM ACUTE, TANGENTIAL SLICES OF MOUSE PRIMARY VISUAL CORTEX
Jonas Franz, Ricarco M. Merino, Manuel Schottdorf, Julian Vogel, Andreas Neef, Walter Stühmer, Fred Wolf, Göttingen
- T16-3B** PHASE-COUPPLING IN THE SUPERIOR COLLICULUS OF THE FELINE BRAIN
Zsófia Giricz, András Puszta, Diána Nyujtó, Ákos Pertich, Viktória Balikó, Nándor Görög, Balázs Bodosi, Attila Nagy, Szeged, Hungary
- T16-4B** MAPPING OVERHEAD BINOCULAR FIELD ON IDENTIFIED VISUAL CORTICAL NEURONS IN RATS
Takashi Handa, Kay-Michael Voit, Alexandr Klioutchnikov, Verena Pawlak, Damian J. Wallace, Jason N. D. Kerr, Bonn
- T16-5B** PATHWAY-SPECIFIC OPTOGENETIC INHIBITION REVEALS THAT PREFRONTAL AREA FEF HAS A DIRECT INFLUENCE ON THE ATTENTIONAL MODULATION OF FIRING RATES IN VISUAL AREA MT IN THE NON-HUMAN PRIMATE
J. Hüer, P. Saxena, M. G. Fortuna, H. Guo, L. T. Schiller, A. Gail, J. Gruber, E. Gruber-Dujardin, H. Scherberger, J. Staiger, S. Treue, Göttingen

Friday

- T16-1C** RECRUITMENT ORDERS UNDERLYING BINOCULAR COORDINATION OF EYE POSITION AND VELOCITY IN THE LARVAL ZEBRAFISH HINDBRAIN
Claire Leyden, Christian Brysch, Konstantin Willeke, Aristides B. Arrenberg, Tübingen



- T16-2C** ELECTROPHYSIOLOGICAL PROPERTIES OF SUPERIOR COLLICULUS NEURONS: HIGH RESOLUTION RECORDINGS
Diána Nyujtó, Zsófia Giricz, András Puszta, Ákos Pertich, Nándor Görög, Viktória Balikó, Balázs Bodosi, Attila Nagy, Szeged, Hungary
- T16-3C** ACTIVE NAVIGATION INCREASES RELIABILITY OF NEURONAL RESPONSES IN PRIMARY VISUAL CORTEX
Magdalena Robacha, Thomas Rüländ, Gerion Nabbefeld, Alexander Bexter, Lyuba Zehl, Björn M. Kampa, Aachen
- T16-4C** EYE MOVEMENTS MINIMIZE OVERHEAD BLIND AREA IN FREELY MOVING RATS DURING BOTH EXPLORATORY AND STIMULUS-TRIGGERED BEHAVIOR
Federica Bianca Rosselli, Kay M. Voit, Damian J. Wallace, Jürgen Sawinski, David S. Greenberg, Jason N. D. Kerr, Bonn
- T16-5C** A UNIFYING MODEL EXPLAINING PERCEPTUAL STABILITY AND MOTION ILLUSIONS UNDER TO FIXATIONAL EYE MOVEMENTS
Felix Schrader, Thomas Wachtler, Martinsried

Saturday

- T16-1D** INTEGRATED CIRCUIT ANALYSIS OF LAYER 2/3 PRINCIPAL CELLS IN MOUSE VISUAL CORTEX
Simon Weiler, Drago Guggiana Nilo, Mark Hübener, Tobias Bonhoeffer, Tobias Rose, Volker Scheuss, Martinsried
- T16-2D** ORIENTATION DISCRIMINATION IN MICE EXAMINED WITH A NOVEL FLEXIBLE TOUCHSCREEN CHAMBER REVEALS CARDINAL PREFERENCE OVER OBLIQUE ORIENTATIONS
Christopher Wiesbrock, Stephanie Eichhorn, Jenice R. M. Linde, Björn M. Kampa, Aachen
- T16-3D** CHARACTERIZATION OF RECEPTIVE FIELDS IN PRIMATE EXTRA-STRIATE AREA MSTD
Benedict Wild, Amr Maamoun, Stefan Treue, Göttingen
- T16-4D** PROJECTIONS OF THE HYPERPALLIUM IN THE BARN OWL (*TYTO ALBA PRATINCOLA*)
Marcus Joseph Wirth, Hermann Wagner, Aachen
- T16-5D** OCULAR DOMINANCE PLASTICITY AND VISUAL PROPERTIES OF PSD-93/-95 DOUBLE-KNOCKOUT MICE
Rashad Yusifov, Leon Hosang, Hendrik Heiser, Oliver Schlüter, Siegrid Löwel, Göttingen

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

Wednesday

- T17-1A** PHYSIOLOGICAL CHARACTERIZATION OF TWO FAST RED-SHIFTED CHANNELRHODOPSIN VARIANTS IN THE MOUSE AUDITORY SYSTEM
Burak Bali, David Lopez de la Morena, Antoine Huet, Vladan Rankovic, Tobias Moser, Göttingen
- T17-2A** UNRAVELING POTENTIAL ROLE OF THE VISUAL SCAFFOLDING PROTEIN INAD IN HEARING
Narges Bodaghabadi, Martin C. Göpfert, Göttingen
- T17-3A** LOSS OF INNER HAIR CELL RIBBON SYNAPSES AND AUDITORY NERVE FIBER REGRESSION IN *Cldn14*^{-/-} MICE
Maïke Claußen, Hans Gerd Nothwang, Oldenburg
- T17-4A** COCHLEA-SPECIFIC DELETION OF *CA_v1.3* CALCIUM CHANNELS BEFORE BIRTH EXCLUDES CAUSATIVE ROLE OF THE EFFERENT FEEDBACK SYSTEM FOR IHC IMMATURITY IN SYSTEMIC *CA_v1.3*^{-/-} MICE AND UNRAVELS PITFALLS OF CONDITIONAL MOUSE MODELS
Stephanie Eckrich, Dietmar Hecker, Katharina Sorg, Kerstin Blum, Kerstin Fischer, Stefan Münkner, Gentiana Wenzel, Bernhard Schick, Jutta Engel, Homburg

Thursday

- T17-1B** CHARACTERIZATION OF SENSORY HETEROGENEITY AMONG P-TYPE ELECTRORECEPTORS IN THE WEAKLY-ELECTRIC FISH *A. LEPTORHYNCHUS*
Tim Hladnik, Jan Benda, Jan Grewe, Tübingen
- T17-2B** ULTRAFAST OPTOGENETIC STIMULATION OF THE AUDITORY PATHWAY BY TARGETING-OPTIMIZED CHRONOS
Antoine Huet, Daniel Keppeler, David Lopez de la Morena, Vladan Rankovic, Tobias Moser, Göttingen
- T17-3B** TOWARDS OPTOGENETIC COCHLEA IMPLANTS IN A NON-HUMAN PRIMATE, THE COMMON MARMOSET
Marcus Jeschke, Antoine Huet, Burak Bali, Alexander Meyer, Amirouche Sadoun, Lukasz Jablonski, Vladan Rankovic, Tobias Moser, Göttingen
- T17-4B** *DROSOPHILA* THERMOSENSATION IS MODULATED BY A MECHANO-TRP-CHANNEL
Robert Kossen, Andrea Adden, Diego Giraldo, Martin C. Göpfert, Bart R. H. Geurten, Göttingen

Friday

- T17-1C** NOISE-INDUCED DAMAGE OF INNER HAIR CELL SYNAPSES
Mattia Nova, Ursula Stalman, Philippe Jean, Tobias Moser, Nicola Strenzke, Tina Pangrsic, Göttingen



- T17-2C** THE COMPLEXITY OF ELECTRIC SOCIAL FLOWS OF FREELY BEHAVING WEAKLY ELECTRIC FISH TRACKED IN THEIR NATURAL NEOTROPICAL HABITATS
Till Raab, Juan Felipe Sehuanes, Jan Benda, Tübingen
- T17-3C** INTERAURAL TIME DIFFERENCE SENSITIVITY AT HIGHER PULSE RATES IN AN EARLY DEAFENED AUDITORY SYSTEM
Nicole Rosskothén-Kuhl, Alexa N. Buck, Jan W. Schnupp, Freiburg

Saturday

- T17-1D** SENSORY FLOW IN ELECTROLOCATION: CHARACTERIZING THE RESPONSES OF ELECTRORECEPTORS TO MOVING GRATINGS
Carolin Sachgau, Jan Benda, Jan Grewe, Tübingen
- T17-2D** RETREAT SITE QUALITY OUTWEIGHS COMPROMISED SENSORY PERCEPTION IN THE WEAKLY ELECTRIC FISH *APTERONOTUS LEPTORHYNCHUS*
Juan Felipe Sehuanes, Till Raab, Jorge A. Molina, Jan Benda, Tübingen
- T17-3D** EXPLORING THE NEURAL BASIS OF PATTERN RECOGNITION IN THE CRICKET BRAIN
Xinyang Zhang, Berthold Hedwig, Cambridge, UK

T18: Auditory system: subcortical and cortical processing

Wednesday

- T18-1A** COMPLEX SOUND PROCESSING BY MULTI-PEAKED NEURONS IN MOUSE AUDITORY BRAIN CENTERS
Alexander Grigorievich Akimov, Marina Alexandrovna Egorova, Guenter Ehret, St. Petersburg, Russia
- T18-2A** OPTOGENETIC STIMULATION OF THE VENTRAL TEGMENTAL AREA AFFECTS EARLY INTRACOLUMNAR AND LATE CORTICO-CORTICAL TONE-EVOKED PROCESSING IN GERBIL PRIMARY AUDITORY CORTEX
Michael G. K. Brunk, Katrina E Deane, Martin Kisse, Mathias Deliano, Michael T. Lippert, Frank W. Ohl, Max F. K. Happel, Magdeburg
- T18-3A** EEG NEUROFEEDBACK: EMPHASIS ON SOURCE ACTIVITY FROM AUDITORY CORTEX IN PATIENTS WITH CHRONIC TINNITUS
Manuel Czornik, Azim Malekshahi, Herbert Bauer, Jürgen Dax, Christoph Braun, Niels Birbaumer, Tübingen

- T18-4A** TONE-EVOKED CURRENT SOURCE DENSITY PATTERNS BETWEEN THE AWAKE AND ANESTHETIZED AUDITORY CORTEX OF MONGOLIAN GERBILS INDICATES DIFFERENTIAL RECRUITMENT OF INHIBITORY MICROCIRCUITRY
Katrina E. Deane, Michael G. K. Brunk, Marina M. Zempeltzi, Frank W. Ohl, Max F. K. Happel, Magdeburg
- T18-5A** IMPROVED SPECTRAL RESOLUTION OF OPTOGENETIC VS ELECTRIC STIMULATION OF THE AUDITORY NERVE
Alexander Dieter, Marcus Jeschke, Tobias Moser, Göttingen
- T18-6A** COMPENSATORY ACTIVITY IN THE AUDITORY MID-BRAIN AFTER ACOUSTIC TRAUMA INDICATES HIDDEN HEARING LOSS
Eva B. S. Dunkel, Natascha Hofmann, Manuela Nowotny, Bernhard H. Gaese, Frankfurt/Main
- T18-7A** RETRACTED
- T18-8A** ASSEMBLY OF AUDITORY CIRCUITS IN THE ABSENCE OF NEUROTRANSMISSION
Lena Ebbers, Christoph Körber, Hannes Maier, Marc August Willaredt, Heiner Hartwich, Hans Gerd Nothwang, Oldenburg
- T18-9A** RECOVERY FROM ADAPTATION IN MOUSE AUDITORY MIDBRAIN NEURONS: FREQUENCY EFFECTS OF DEVIANT TONES IN TONE SEQUENCES
Marina Alexandrovna Egorova, Alexander Grigorievich Akimov, Gleb Dmitrievich Khorunzii, Guenter Ehret, St. Petersburg, Russia
- T18-10A** POPULATION RESPONSES TO SINGLE AND COMPETING STIMULI IN THE BARN OWL'S AUDITORY SPACE MAP
Roland Ferger, Michael V. Beckert, Keanu Shadron, Brian J. Fischer, José L. Peña, New York, USA
- T18-11A** PROCESSING OF FAST TEMPORAL MODULATIONS IN BAT AUDITORY CORTEX MATCHES COMMUNICATION CALL SPECIFIC SOUND FEATURES
Uwe Firzlaff, Stephen Hörpel, Freising
- T18-12A** THE MODULATORY EFFECT OF PENTOBARBITAL IN THE AUDITORY BRAINSTEM: EVIDENCE AGAINST GABAERGIC SYNAPSES IN THE LATERAL SUPERIOR OLIVE
Jonas Martin Fisch, Ayse Maraslioglu, Eckhard Friauf, Kaiserslautern
- T18-13A** NEURONAL CODING OF NATURAL DISTRESS SEQUENCES IN THE INFERIOR COLLICULUS
Eugenia González Palomares, Francisco García-Rosales, Manfred Kössl, Julio C. Hechavarría, Frankfurt/Main

Thursday

- T18-1B** EFFECTS OF LOW-LEVEL ACTIVATION OF PARVALBUMIN-POSITIVE INTERNEURONS ON CORTICAL PROCESSING IN MOUSE A1
Tina Gothner, Pedro J. Gonçalves, Maneesh Sahani, Jennifer F. Linden, K. Jannis Hildebrandt, Oldenburg



- T18-2B** EVENT-RELATED EEG CORRELATES OF THE PROCESSING OF A METRICAL BEAT: IN SEARCH FOR COMPONENTS OF ENTRAINMENT AND PREDICTION
Manon Grube, Tamer Ajaj, Benjamin Blankertz, Kai Alter, Århus, Denmark
- T18-3B** LOCALIZATION OF SOUND SOURCE APPROACHING AND RECEDING IN CASE OF HIGH-FREQUENCY HEARING LOSS MODELING IN HUMANS
Alisa Petrovna Gvozdeva, Elena Alexandrovna Ogorodnikova, Irina Germanovna Andreeva, Saint-Petersburg, Russia
- T18-4B** REDUCED SOUND-EVOKED AND RESTING-STATE BOLD FMRI CONNECTIVITY IN TINNITUS
Benedikt Hofmeier, Stephan Wolpert, Ebrahim Saad Aldamer, Moritz Walter, John Thiericke, Christoph Braun, Dennis Zelle, Lukas Rüttiger, Uwe Klose, Marlies Knipper, Tübingen
- T18-5B** AUDITORY ILLUSION IN OWLS PREDICTED BY A PROBABILISTIC MODEL OF RIVAL NEURON POPULATIONS
Lutz Kettler, Freising
- T18-6B** ROLE OF PERIPHERAL BDNF FOR AUDITORY PERCEPTUAL LEARNING?
Marlies Knipper, Philipp Eckert, Marie Manthey, Lucas Matt, Philine Marchetta, Wibke Singer, Michael Walter, Peter Ruth, Thomas Schimmang, Peter Pilz, Lukas Rüttiger, Tübingen
- T18-7B** STRAIN AS A RISK FACTOR FOR TINNITUS AND NOISE-INDUCED HEARING LOSS IN RATS
Lisa Koch, Bernhard H. Gaese, Manuela Nowotny, Frankfurt/Main
- T18-8B** CELLULAR NEUROENERGETICS IN THE LATERAL SUPERIOR OLIVE
Lars Kunz, Sonja Broesel, Rebecca Hessmer, Benedikt Grothe, Martinsried
- T18-9B** PROPERTIES OF ENDBULB OF HELD SYNAPTIC TRANSMISSION IN THE MONGOLIAN GERBIL
Thomas Künzel, Kerstin Doerenkamp, Stefanie Kurth, Charlene Gillet, Aachen
- T18-10B** AUDITORY BRAINSTEM RESPONSES ORIGINATING FROM AXONAL TERMINAL ZONES IN THE AUDITORY BRAINSTEM OF THE BARN OWL
Paula T. Kuokkanen, Anna Kraemer, Nadine Thiele, Richard Kempter, Christine Köppl, Catherine E. Carr, Berlin
- T18-11B** NEURONAL ENCODING OF BEHAVIORALLY RELEVANT SOUND SOURCE LOCATIONS IN PRIMARY AUDITORY CORTEX
Diana Inês Lopes Amaro, Michael Pecka, Martinsried
- T18-12B** LOCALIZATION OF AP-2 δ EXPRESSION IN THE CHICKEN EMBRYO
Harald Luksch, Carina Schaub, Markus Moser, Benjamin Schusser, Freising

Friday

- T18-1C** STATE DEPENDENCE OF STIMULUS ADAPTATION IN THE AUDITORY CORTEX OF MONGOLIAN GERBILS
Jing Ma, Michael G. K. Brunk, Marina Zempeltzi, Katrina E. Deane, Max F. K. Happel, Reinhard König, Matthias Deliano, Magdeburg
- T18-2C** A REAL-TIME EEG SOURCE ACTIVITY FROM AUDITORY CORTEX IN PATIENTS WITH CHRONIC TINNITUS
Azim Malekshahi, Manuel Czornik, Herbert Bauer, Jürgen Dax, Christoph Braun, Niels Birbaumer, Tübingen
- T18-3C** BASIC RESPONSE PROPERTIES IN THE AUDITORY CORTEX AND THE FRONTAL AUDITORY FIELD OF THE FRUIT-EATING BAT *CAROLLIA PERSPICILLATA*
Adrian Mannel, Francisco Garcia-Rosales, Julio Hechavarría, Frankfurt/Main
- T18-4C** TRANSCRIPTIONAL PROFILING OF AUDITORY BRAINSTEM NUCLEI IN DEVELOPING MICE
Ayse Maraslioglu, Kathrin Kattler, Domenico Del Turco, Eckhard Friauf, Kaiserslautern
- T18-5C** COMPARISON OF SINGLE CELL SPIKE RATE AND TIMING IN THE BRAINSTEM IN RESPONSE TO COCHLEAR IMPLANT AND ACOUSTIC STIMULATION
Michaela Alisa Müller, Barbara Beiderbeck, Benedikt Grothe, Michael Pecka, Martinsried
- T18-6C** DEVELOPMENT OF SPECIFIC FUNCTIONAL AXON AND MYELIN MORPHOLOGY IN AUDITORY BRAINSTEM CIRCUITS
Alisha L. Nabel, Hilde Wohlfrom, Olga Alexandrova, Michael Pecka, Benedikt Grothe, Martinsried
- T18-7C** ACCELERATED RECOVERY OF ABR HEARING THRESHOLDS AFTER MILD ACOUSTIC TRAUMA IN *CA_v1.3-DCRD^{HA/HA}* MICE
Fahmi Nasri Abuqtheileh, Kerstin Blum, Jutta Engel, Simone Kurt, Homburg
- T18-8C** UROCORTIN 3 AT THE CALYX OF HELD INCREASES EXCITATORY POSTSYNAPTIC CURRENTS IN THE LATERAL MNTB
Sara Pagella, Conny Kopp-Scheinflug, Martinsried
- T18-9C** NEURAL CORRELATES OF VISUO-AUDITORY SENSORY RECALIBRATION
Hame Park, Christoph Kayser, Bielefeld
- T18-10C** CORTICAL ACTIVATION PATTERNS IN ELECTRIC AUDITORY MIDBRAIN STIMULATION
Gunnar Lennart Quass, Andrej Kral, Hannover
- T18-11C** LAMINAR ACTIVITY IN THE AUDITORY CORTEX OF VOCALIZING BATS
Dennis Röhrig, Francisco García-Rosales, Manfred Kössl, Julio C. Hechavarría, Frankfurt/Main



- T18-12C** THE INFLUENCE OF HEARING IMPAIRMENT ON THE MCGURK ILLUSION
Stephanie Rosemann, Marie Dewenter, Dakota Smith, Christiane M. Thiel, Oldenburg

Saturday

- T18-1D** CENTRAL GAIN IS REDUCED WITH TINNITUS BUT REMAINS UNALTERED WITH HYPERACUSIS IN NOISE-EXPOSED RATS
Lukas Rüttiger, Dorit Möhrle, Benedikt Hofmeier, Marlies Knipper, Tübingen
- T18-2D** TWO-PORE POTASSIUM CHANNELS IN AUDITORY PROCESSING
Mahshid Helia Saber, Christoph Körber, Heidelberg
- T18-3D** MORE INPUT = MORE INFORMATION? ACOUSTIC SIGNAL PROCESSING IN A SMALL NETWORK
Jan Scherberich, Manuela Nowotny, Frankfurt/Main
- T18-4D** ELECTROPHYSIOLOGICAL CORRELATES OF SELECTIVE AUDITORY SPATIAL ATTENTION: EFFECTS OF SEX AND MENSTRUAL CYCLE
Michael-Christian Schlüter, Stephan Getzmann, Jörg Lewald, Bochum
- T18-5D** AUDITORY ADAPTATION TO HIGH-FREQUENCY MATING CALLS IN ENEOPTERINE CRICKETS
Stefan Schöneich, Tony Robillard, Hannah M. ter Hofstede, Leipzig
- T18-6D** ROLE OF INSULAR CORTEX IN HYPERACUSIS IN RAT
Ali Shahbazi, Mino Karimi, Farinaz Nasirinejad, Shohreh Jalaei, Helnaz Mokrian, Saeid Farahani, Tehran, Iran
- T18-7D** MICE LACKING THE EXTRACELLULAR MATRIX PROTEIN BREVICAN SHOW IMPAIRED TEMPORAL PROCESSING IN THE INFERIOR COLLICULUS
Mira Türknetz, Jutta Engel, Simone Kurt, Homburg
- T18-8D** NEUROPHYSIOLOGICAL EVIDENCE FOR THE STOCHASTIC RESONANCE MODEL OF TINNITUS DEVELOPMENT
Konstantin Tziridis, Evelyn Hammele, Patrick Krauss, Achim Schilling, Sönke Ahlf, Holger Schulze, Erlangen
- T18-9D** A MODEL SYSTEM TO INVESTIGATE SENSORY GATING DURING SLEEP
Philipp van Kronenberg, Linus Milinski, Livia de Hoz, Berlin
- T18-10D** CATHODIC-LEADING AND ANODIC-LEADING INTRACORTICAL MICROSTIMULATION DIFFERENTIALLY ACTIVATES THE AUDITORY CORTEX
Mathias B. Voigt, Andrej Kral, Hannover
- T18-11D** DETECTION LEARNING OF OPTOGENETIC AND ELECTRICAL STIMULATION IN THE AUDITORY CORTEX OF MONGOLIAN GERBILS
Theresa Christiane Sofia Weidner, Nabila Alam, Martin Deckert, Gonzalo Arias Gil, Armin Dadgar, Frank W. Ohl, Kentaroh Takagaki, Michael T. Lippert, Magdeburg

- T18-12D** LAYER-SPECIFIC ENTRAINMENT TO ACOUSTIC SEQUENCES IN THE AUDITORY CORTEX
Kristin Lisa Weineck, Mira Röhm, Francisco Garcia-Rosales, Julio Hechavarría, Frankfurt/Main

T19: Chemical senses: olfaction, taste, others

Wednesday

- T19-1A** PERCEPTION AND REPRESENTATION OF TEMPORALLY STRUCTURED ODOR STIMULI IN THE MOUSE OLFACTORY BULB
Tobias Ackels, Andrew Erskine, Debanjan Dasgupta, Izumi Fukunaga, Alina Christina Marin, Andreas T. Schaefer, London, UK
- T19-2A** BROADLY OVERLAPPING, BUT DISTINCTLY DIFFERENT EXPRESSION DOMAINS FOR V1R-RELATED ZEBRAFISH ORA GENES
Shahzad Bozorg Nia, Daniel Kowatschew, Sigrun I. Korsching, Cologne
- T19-3A** THE EXPRESSION PATTERN OF TWO "SENSORY NEURON MEMBRANE PROTEINS" EMPHASIZES DIFFERENT ROLES OF THE CD36-RELATED PROTEINS IN THE OLFACTORY SYSTEM OF MOTHS
Sina Cassau, Stefanie Blankenburg, Jürgen Krieger, Halle (Saale)
- T19-4A** LONG-TERM DIETARY EXPERIENCE OF *DROSOPHILA* RESULTS IN STRUCTURAL MODIFICATION IN MUSHROOM BODY-RELATED DOPAMINERGIC NEURONS
Büsra Coban, Haiko Poppinga, Thomas D. Riemensperger, Andre Fiala, Göttingen
- T19-5A** FUNCTIONAL AND MORPHOLOGICAL DIVERSITY OF PROJECTION NEURONS IN THE OLFACTORY BULB OF LARVAL *XENOPUS LAEVIS*
Daniela Daume, Thomas Offner, Thomas Hassenklöver, Sara J. Hawkins, Lukas Weiss, Ivan Manzini, Gießen
- T19-6A** INVESTIGATION OF CALCIUM-MEDIATED SIGNALING IN DIFFERENT COMPARTMENTS OF MOUSE VOMERONASAL SENSORY NEURONS
Rudolf Degen, Marc Spehr, Aachen
- T19-7A** EXPERIENCE-DEPENDENT PLASTICITY OF AN AVERSIVE OLFACTORY CIRCUIT IN *DROSOPHILA MELANOGASTER*
Benjamin Fabian, Veit Grabe, Rolf Beutel, Bill Hansson, Silke Sachse, Jena
- T19-8A** IN SEARCH FOR PHEROMONE RECEPTORS IN THE DESERT LOCUST *SCHISTOCERCA GREGARIA*
Joerg Fleischer, Pablo Pregitzer, René-Sebastian Lemke, Xingcong Jiang, Ewald Grosse-Wilde, Heinz Breer, Jürgen Krieger, Halle (Saale)



Thursday

- T19-1B** IS THE OLFACTORY CODE COMBINATORIAL OR MULTIDIMENSIONAL?
C. Giovanni Galizia, Konstanz
- T19-2B** DOSE-DEPENDENT MODULATION OF OLFACTORY TRANSDUCTION IN MICE
Kira Gerhold, Marc Spehr, Aachen
- T19-3B** ALARM PHEROMONE MODULATES ODOR RESPONSES IN THE ANTENNAL LOBE OF THE EUROPEAN HONEY-BEE (*APIS MELLIFERA*)
R. Keating Godfrey, Jean-Marc Devaud, Martin Strube-Bloss, Tucson, USA
- T19-4B** ACTIVE OLFACTORY SENSING IN THE AMERICAN COCKROACH, *PERIPLANETA AMERICANA*
Antoine Hoffmann, Jahn Nitschke, Giovanni Galizia, Einat Couzin-Fuchs, Konstanz
- T19-5B** STEROID BINDING PROTEINS IN THE HUMAN VOMERONASAL ORGAN
Gustav Jirikowski, Martin Voß, Veronika M. Gebhart, Jena
- T19-6B** LARGE SCALE EVOLUTIONARY ANALYSIS OF TAAR OLFACTORY RECEPTORS IN THE AQUATIC LINEAGE
Sigrun I. Korsching, Milan Dieris, Cologne
- T19-7B** DYNAMIC REPRESENTATIONS OF CATEGORIES IN THE MOUSE OLFACTORY BULB
Elena Kudryavitskaya, Eran Marom, David Pash, Adi Mizrahi, Jerusalem, Israel

Friday

- T19-1C** DUAL-COLOR IMAGING FOR ISOLATING OLFACTORY BULB OUTPUT STREAMS IN MICE
Kim Chi Le, Daniela Brunert, Markus Rothermel, Aachen
- T19-2C** EXPRESSION OF SNMP1 AND CANDIDATE PHEROMONE RECEPTORS IN PALPS OF THE MOUTHPARTS FROM THE DESERT LOCUST *SCHISTOCERCA GREGARIA*
René-Sebastian Lemke, Pablo Pregitzer, Xingcong Jiang, Heinz Breer, Jürgen Krieger, Jörg Fleischer, Halle (Saale)
- T19-3C** PROBING HONEY BEES' OLFACTORY REPERTOIRE: A NEW APPROACH TOWARD OR DEORPHANIZATION
Julia Mariette, Thierry Louis, Amélie Noël, Virginie Larcher, Thomas Chertemps, Nicolas Montagné, Emmanuelle Jacquin-Joly, Frédéric Marion-Poll, Jean Christophe Sandoz, Gif-sur-Yvette, France
- T19-4C** CALCIUM IN KENYON CELL SOMATA AS A PLAUSIBLE SUBSTRATE FOR AN OLFACTORY SENSORY MEMORY IN *DROSOPHILA*
Alja Lüdke, Georg Raiser, Johannes Nehrkorn, Andreas V. M. Herz, C. Giovanni Galizia, Paul Szyszka, Konstanz

- T19-5C** BEETLES POSSESS THREE PRIMARY OLFACTORY PROCESSING CENTERS
Laura Mähn, Florian Matyschik, Björn Trebels, Martin Kollmann, Stefan Dippel, Joachim Schachtner, Marburg
- T19-6C** PHYSIOLOGICAL ANALYSIS OF OSCILLATORY MICRO-CIRCUITS IN THE MOUSE ACCESSORY OLFACTORY BULB
Sebastian Tobias Malinowski, Julia Mohrhardt, Chryssanthi Tsitoura, Yoram Ben-Shaul, Marc Spehr, Aachen
- T19-7C** AON TOP-DOWN PROJECTIONS MODULATE OLFACTORY BULB OUTPUT ACTIVITY IN THE MOUSE
Renata Medinaceli Quintela, Lutz Wallhorn, Jennifer Bauer, Markus Rothermel, Aachen
- T19-8C** FUNCTIONAL CHARACTERIZATION OF ODOR-DRIVEN MODULATION OF OLFACTORY PERCEPTION BY BASAL FOREBRAIN NUCLEI
Monika Müller, Inna Schwarz, Irina Pavlova, Manuel Mittag, Martin Schwarz, Martin Fuhrmann, Bonn

Saturday

- T19-1D** VOLUMETRIC CALCIUM IMAGING OF TASTE PROCESSING IN THE *DROSOPHILA* BRAIN
Daniel Münch, Carlos Ribeiro, Lisbon, Portugal
- T19-2D** PHEROMONE TRANSDUCTION AND THE ROLE OF THE OLFACTORY RECEPTOR CO-RECEPTOR ORCO IN THE HAWKMOTH *MANDUCA SEXTA*
Monika Stengl, Petra Gawalek, Katrin Schröder, Pavel Tyutyayev, Kassel
- T19-3D** FUZZY TOPOLOGY FOR ZEBRAFISH V2R-LIKE OLFACTORY RECEPTORS: DISTINCTLY DIFFERENT, IF BROADLY OVERLAPPING SPATIAL EXPRESSION ZONES
Adnan Shahzad Syed, Gaurav Ahuja, Vera Reichel, Daniel Kowatschew, Sigrun Korsching, Cologne
- T19-4D** ELECTROPHYSIOLOGICAL EXAMINATION OF NEURONS DURING TASTE REACTIVITY TEST IN THE NUCLEUS ACCUMBENS AND MEDIAL ORBITOFONTAL CORTEX OF THE RAT
Istvan Szabo, Edina Hormay, Bettina Laszlo, Zoltan Karadi, Pecs, Hungary
- T19-5D** LINKING CRYPT NEURONS TO INNATE ATTRACTIVE BEHAVIOR
Manish Tomar, Gaurav Ahuja, Maik Behrens, Riqui Liu, Wolfgang Meyerhof, Sigrun Korsching, Cologne
- T19-6D** ACTIVITY DEPENDENT ADULT NEUROGENESIS IN THE MUSHROOM BODIES OF THE RED FLOUR BEETLE, *TRIBOLIUM CASTANEUM*
Björn Trebels, Stefan Dippel, Magdalina Schaaf, Karthi Balakrishnan, Stefan Schütz, Ernst A. Wimmer, Joachim Schachtner, Marburg



- T19-7D** THE "HANGRY" FLY LARVA: INTERNAL STATE MODULATES NETWORK PROCESSING AND SWITCHES OLFACTORY PREFERENCE IN *DROSOPHILA* LARVAE
Katrin Vogt, Matthew Berck, Luis Hernandez-Nunez, Guangwei Si, Aravinthan D. T. Samuel, Cambridge, USA
- T19-8D** THE SENSE OF SMELL ON THE TRANSITION FROM WATER TO LAND: ODOR PROCESSING IN THE DEVELOPING AMPHIBIAN
Lukas Weiss, Paola Segoviano Arias, Sara Joy Hawkins, Katarina Dittrich, Thomas Offner, Thomas Hassenklöver, Ivan Manzini, Giessen

T20: Somatosensation: touch, temperature, proprioception, nociception

Wednesday

- T20-1A** ABDOMINAL SENSING OF SUBSTRATE VIBRATIONS IN LOCUSTS (*SCHISTOCERCA GREGARIA*)
Joscha Arne Alt, Reinhard Lakes-Harlan, Gießen
- T20-2A** NEURONAL MECHANISMS UNDERLYING SPARSE CODING OF PASSIVE TOUCH – A COMBINED *IN VIVO* AND *IN VITRO* STUDY
Claudia Barz, Pierre-Marie Garderes, Dan Ganea, Sven Reischauer, Dirk Feldmeyer, Florent Haiss, Jülich
- T20-3A** SENSORY PROFILES, PAIN CHARACTERISTICS AND MICRO-RNAs AS DISTINGUISHING FACTORS IN COMPLEX REGIONAL PAIN SYNDROME (CPRS) AND FRACTURE CONTROL PATIENTS
Christopher Dietz, Maike Müller, Lisa Karch, Ann-Kristin Reinhold, Bernhard Schwab, Claudia Sommer, Violeta Dimova, Frank Birklein, Heike L. Rittner, Würzburg
- T20-4A** SUBGROUPS OF FEMORAL CHORDOTONAL ORGAN NEURONS DIFFERENTIALLY AFFECT LEG MOVEMENTS AND COORDINATION IN *DROSOPHILA MELANOGASTER*
Alexander S. Chockley, Sara Ratican, Ansgar Büschges, Till Bockemühl, Cologne

Thursday

- T20-1B** CHARACTERIZATION OF CAMPANIFORM SENSILLA ON THE LEGS OF *DROSOPHILA MELANOGASTER*
Gesa F. Dinges, Alexander Blanke, Sasha N. Zill, Ansgar Büschges, Till Bockemühl, Cologne
- T20-2B** TOUCH-INDUCED AFFORDANCES, SPATIAL COORDINATION OF LIMBS AND THE DEFINITION OF PERSONAL SPACE IN INSECTS
Volker Dürr, Malte Schilling, Bielefeld

- T20-3B** CORRELATIVE LIGHT AND ELECTRON MICROSCOPY (CLEM) FOR INVESTIGATING KERATINOCYTE-NERVE FIBER CONTACT ZONES IN HUMAN SKIN
Christoph Erbacher, Philine Dinkel, Alexandra Gentschev, Sebastian Britz, Christian Stigloher, Nurcan Üçeyler, Würzburg

Friday

- T20-1C** WISDOM OF THE CROWD VS. POWER OF THE FEW AN ELECTROPHYSIOLOGICAL ASSESSMENT OF THE IMPACT OF INDIVIDUAL NEURONS ON LOCAL NETWORKS
Beate Knauer, Maik C. Stüttgen, Mainz
- T20-2C** CROSS-MODAL ADAPTATION IN A DESCENDING INTERNEURON OF THE INDIAN STICK INSECT *CARAUSIUS MOROSUS*
Gaetan Lepreux, Stephan Suichi Haupt, Volker Dürr, Bielefeld
- T20-3C** REPEATED STIMULATION CAUSES HYPERPOLARIZATION AND INCREASED SPIKE COUNTS IN LEECH TOUCH CELLS
Sonja Meiser, Go Ashida, Birte Groos, Jutta Kretzberg, Oldenburg

Saturday

- T20-1D** INFLUENCE OF COOLING ON C-FIBRES ACTIVATION TO RECTANGULAR AND SINUSOIDAL ELECTRICAL STIMULATION
Julius Pakalniskis, Martin Schmelz, Richard W. Carr, Mannheim
- T20-2D** CENTRAL AMYGDALA MODULATES NOCICEPTION: OPTOGENETIC MANIPULATION OF NETWORK DYNAMICS
Pinelopi Pliota, Isabel Wank, Sylvia Badurek, Klaus Kraitsy, Joanna Kaczanowska, Silke Kreitz, Andreas Hess, Wulf Haubensak, Vienna, Austria
- T20-3D** THE CORTICAL SIGNATURE OF ACUTE PAIN IN RODENT THALAMUS AND SOMATOSENSORY SYSTEM
Jiaojiao Zhang, Simon Ponsel, Evgueni Ianovskii, Jurij Brankack, Andreas Draguhn, Heidelberg

T21: Motor systems

Wednesday

- T21-1A** STUDYING CHANGES OF WALKING DIRECTION AND KINEMATIC PARAMETERS IN RESPONSE TO UNILATERAL TACTILE STIMULI IN THE STICK INSECT *CARAUSIUS MOROSUS*
Volker Berendes, Florian Paul Schmidt, Florian Hofmann, Volker Dürr, Bielefeld



- T21-2A** FUNCTIONAL HETEROGENEITY OF NEURONS WITHIN A MIDBRAIN NUCLEUS DRIVING LOCOMOTION IN ADULT ZEBRAFISH
Eva M. Berg, Abdeljabbar El Manira, Stockholm, Sweden
- T21-3A** STATIC STABILITY IS A GOOD PREDICTOR OF INTERLEG COORDINATION DURING WALKING IN *DROSOPHILA*
Till Bockemühl, Nicholas S. Szczecinski, Alexander S. Chockley, Ansgar Büschges, Cologne
- T21-4A** MULTIMODAL OBJECT RECOGNITION IN THE PRIMATE BRAIN DURING A DELAYED-GRASP TASK
Daniela Buchwald, Hans Scherberger, Göttingen
- T21-5A** LOAD FEEDBACK IN THE STICK INSECT IS CHANNLED TOWARDS LEG MOTOR NEURON SPECIFICITY BY MEANS OF SYNAPTIC INHIBITION
Ansgar Büschges, Victoria Schuckel, Stephan Dodt, Nicole Jüngermann, Jacqueline Kasemir, Angelina Ruthe, Matthias Gruhn, Joachim Schmidt, Cologne
- T21-6A** CHARACTERIZATION OF RESTING STATE ACTIVITY IN MACAQUE MOTOR CORTEX
Paulina Anna Dabrowska, Nicole Voges, Michael von Papen, Alexa Riehle, Thomas Brochier, Sonja Grün, Jülich
- T21-7A** ORTHOGONAL POPULATION DYNAMICS AND FUNCTIONAL CONNECTIVITY IN THE MACAQUE FRONTO-PARIETAL GRASPING NETWORK
Benjamin Dann, Hans Scherberger, Göttingen
- T21-8A** TYRAMINE ACTION ON MOTONEURON EXCITABILITY AND ADAPTABLE TYRAMINE/OCTOPAMINE RATIOS ADJUST *DROSOPHILA* LOCOMOTION TO NUTRITIONAL STATE
Carsten Duch, Natalie Schuetzler, Chantal Girwert, Isabell Huegeli, Stefanie Ryglewski, Mainz
- T21-9A** A CELL-TYPE SPECIFIC DRIVER LINE LIBRARY TARGETING MOTONEURONS AND INTERNEURONS IN THE WING NEUROPILOF OF THE VENTRAL NERVE CORD OF *DROSOPHILA MELANOGASTER*
Erica Ehrhardt, Sam Whitehead, Shigehiro Namiki, Igor Siwanowicz, Hideo Otsuna, David Stern, Michael Dickinson, Kei Ito, Jim Truman, Itai Cohen, Wyatt Korff, Gwyneth M. Card, Cologne
- T21-10A** ENRICHED ENVIRONMENT ACCELERATES ACTION POTENTIALS
Abdelmoneim Eshra, Petra Hirrlinger, Stefan Hallermann, Leipzig

Thursday

- T21-1B** POSTERIOR PARIETAL CORTEX REFLECTS A FORWARD MODEL DRIVING SENSORIMOTOR CONTROL IN A MOTOR REFERENCE FRAME DURING BCI LEARNING
Enrico Ferrea, Pierre Morel, Alexander Gail, Göttingen

- T21-2B** OBJECT LOCATION AND SIZE INFLUENCE PARIETAL AND PREMOTOR REFERENCE FRAMES DURING OBJECT-ORIENTED REACH PLANNING
Ole Fortmann, Bahareh Taghizadeh, Alexander Gail, Göttingen
- T21-3B** PROCESSING OF LOAD SIGNALS IN THE LEG MUSCLE CONTROL SYSTEM OF INSECTS
Corinna Gebehart, Joachim Schmidt, Ansgar Büschges, Cologne
- T21-4B** SLOPE-DEPENDENT MODULATION OF MUSCLE CO-CONTRACTION IN FREELY WALKING STICK INSECTS (*CARAUSIUS MOROSUS*)
Yannick Günzel, Chris J. Dallmann, Josef Schmitz, Volker Dürr, Bielefeld
- T21-5B** OPTOGENETIC INHIBITION OF PREMOTOR CORTEX PROJECTIONS TO PARIETAL REACH REGION MODIFIES RULE-BASED SENSORIMOTOR TRANSFORMATION IN NON-HUMAN PRIMATES
Hao Guo, Michal Fortuna, Janina Hueer, Jens Gruber, Stefan Treue, Hansjoerg Scherberger, Alexander Gail, Göttingen
- T21-6B** PARALLEL CORTICO-CEREBELLAR PATHWAYS THROUGH A PRETECTAL CEREBELLAR RELAY NUCLEUS IN BIRDS
Cristian Gutierrez-Ibanez, Douglas R. Wylie, Edmonton, Canada
- T21-7B** THE ROLE OF CHORDOTONAL ORGANS FOR LOCAL PATTERN-GENERATING ACTIVITY OF A LEG STUMP DURING WALKING IN *DROSOPHILA*
Moritz Hausteine, Ansgar Büschges, Till Bockemühl, Cologne
- T21-8B** SURVIVAL OF THE ANUCLEATED GIANT MAUTHNER AXON IS REQUIRED FOR HIGH-PERFORMANCE ESCAPE RESPONSES
Alexander Hecker, Wolfram Schulze, Jakob Oster, Stefan Schuster, Bayreuth
- T21-9B** COMPREHENSIVE DISYNAPTIC MOSSY FIBRE PATHWAYS FROM SENSORY AND MOTOR-RELATED REGIONS OF THE CEREBRAL CORTEX TO THE CEREBELLUM
Julia Henschke, Janelle M. P. Pakan, Magdeburg

Friday

- T21-1C** DUETS IN THE WILD: INTER-INDIVIDUALLY COORDINATED MOTOR CONTROL ENABLES COOPERATIVE BEHAVIOR
Susanne Hoffmann, Lisa Trost, Cornelia Voigt, Stefan Leitner, Alena Lemazina, Hannes Sagunsky, Markus Abels, Sandra Kollmansperger, Andries Ter Maat, Manfred Gahr, Seewiesen



- T21-2C** GLYCINE TRANSPORTER 2-DEFICIENT MICE SHOW AN ALTERED DEVELOPMENT OF THE ULTRASONIC VOCALIZATION-ASSOCIATED BREATHING
Sven Hülsmann, Yoshihiko Oke, Guillaume Mesuret, A. Tobias Latal, Michal G. Fortuna, Marcus Niebet, Johannes Hirrlinger, Julia Fischer, Kurt Hammerschmidt, Göttingen
- T21-3C** CONSTRUCTION PRINCIPLES OF MINIATURIZED NEURAL CIRCUITS ON THE EXAMPLE OF THE FLIGHT MOTOR NETWORK FOR ASYNCHRONOUS FLIGHT
Silvan Hürkey, Carsten Duch, Mainz
- T21-4C** ANATOMICAL AND PHYSIOLOGICAL SPECIALIZATIONS FOR HIGH SPIKE TIME PRECISION IN *DROSOPHILA* FLIGHT STEERING MOTONEURONS
Nina Kramer, Dario Music, Carsten Duch, Mainz
- T21-5C** PLATFORM-INDUCED VERTICAL VESTIBULAR OCULAR REFLEX IN HUMANS
Dieter F. Kutz, Florian P. Kolb, Stefan Glasauer, Hans Straka, Chemnitz
- T21-6C** THE NEURAL BASIS OF AMPLITUDE ADJUSTMENTS DURING VOCAL INTERACTIONS
Alena Lemazina, Susanne Hoffmann, Lisa Trost, Manfred Gahr, Seewiesen
- T21-7C** IS COMMON INHIBITOR ACTION MEDIATED BY A DUAL CONTROL VIA FAST SYNAPTIC TRANSMISSION AND NEUROMODULATION?
Sander Liessem, Reinhard Predel, Ansgar Büschges, Cologne
- T21-8C** THE TEMPORAL DYNAMICS OF ACTION-EFFECT PREDICTION: AN EEG STUDY
Elisabeth Lindner, Álvaro Darriba, Qing Yang, Alexander Jones, Florian Waszak, Andrea Desantis, Göttingen
- T21-9C** THE AIMED LIMB MOVEMENTS OF A HEMIMETABOLOUS INSECT ARE COMPENSATED FOR ALLOMETRIC WING GROWTH
Tom Matheson, Alexandra J. Patel, Leicester, UK
- T21-10C** MOTOR PHENOTYPE AND COGNITIVE TESTING OF PCLO KNOCKOUT (PCLOGT/GT) RATS MEASURED IN AN OPERATOR-INDEPENDENT MOTOR ANALYSIS SYSTEM (OPTIMAN) CONNECTED WITH AN OPERANT TOUCHSCREEN CHAMBER
Humaira Munawar, Marion Rivalan, Katharina Stumpfenhorst, Christian Jung, Claus Reimertz, Craig Garner, York Winter, Berlin

Saturday

- T21-1D** RETRACTED
- T21-2D** ENCODING OF MOVEMENT FORCE IN THE FRONTO-PARIETAL REACH NETWORK IN PRIMATES
Julia Wanda Nowak, Pierre Morel, Alexander Gail, Göttingen

- T21-3D** INHIBITION OF HSP90 INCREASES INDIVIDUAL VARIABILITY OF BEHAVIOUR IN THE DESERT LOCUST
Swidbert Roger Ott, Tom Matheson, Ben Cooper, Leicester, UK
- T21-4D** MOTION HACKING: A METHOD FOR INTERFERENCE WITH NEURAL CONTROL OF WALKING, BASED ON EXTERNAL MUSCLE STIMULATION IN STICK INSECTS
Dai Owaki, Volker Dürr, Josef Schmitz, Sendai, Japan
- T21-5D** OPTICAL INACTIVATION OF LEG PROPRIOCEPTORS IN THE STICK INSECT *CARAUSIUS MOROSUS*
Burak Özbagci, Anna Haberkorn, Ansgar Büschges, Matthias Gruhn, Cologne
- T21-6D** FEMALE ZEBRA FINCHES USE THEIR SONG CONTROL SYSTEM FOR CALL-BASED COMMUNICATION
Lisa Trost, Andries Ter Maat, Manfred Gahr, Seewiesen
- T21-7D** SPATIAL AVERAGING AND INFERENCE OF DECISION TIME IN GO-BEFORE-YOU-KNOW TASKS DEPENDS ON MOTOR CONTROL DEMANDS AND MOVEMENT TIME CONSTRAINTS
Philipp Ulbrich, Alexander Gail, Göttingen
- T21-8D** LEG COORDINATION AND GAIT CHOICE IN POLY-PEDAL LOCOMOTION – NUMERICAL MODELS AND EXPERIMENTS
Tom Weihmann, Cologne
- T21-9D** MOTOR SKILL LEARNING AND EXECUTION IN A DISTRIBUTED BRAIN NETWORK
Steffen Benjamin Eggert Wolff, Ashesh Dhawale, Raymond Ko, Bence Ölveczky, Cambridge, USA

T22: Homeostatic and neuroendocrine systems, stress response

Wednesday

- T22-1A** ENERGY METABOLISM IN HONEY BEES IS AFFECTED BY THE NEONICOTINOID THIAMETHOXAM
Sonja Dähn, Prof. Dr. Uli Müller, Saarbrücken
- T22-2A** INFLAMMATORY STRESS-INDUCED C-FOS EXPRESSION IN THE NESFATIN-1 NEURONS IN THE SUPRAOPTIC NUCLEUS
Gulcin Ekizceli, Kiyemet Zulal Halk, Ilker M. Kafa, Zehra Minbay, Ozhan Eyigor, Bursa, Turkey
- T22-3A** NESFATIN-1 NEURONS EXPRESS GLUCOCORTICOID RECEPTORS IN THE PRAEVENSTRICULAR AND ARCUATE NUCLEI OF THE HYPOTHALAMUS
Ozhan Eyigor, Gulcin Ekizceli, Zehra Minbay, Bursa, Turkey



Thursday

- T22-1B** ELECTROPHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERIZATION OF PVN NEURONS IN MICE
Debora Fuscà, Andreas Klein, Peter Kloppenburg, Cologne
- T22-2B** NEUROANATOMICAL MAPPING OF HYPOTHALAMIC CORE AREAS INVOLVED IN THE REGULATION OF SPONTANEOUS DAILY TORPOR IN THE DJUNGARIAN HAMSTER (*PHODOPUS SUNGORUS*)
Elena Haugg, Victoria Diedrich, Annika Herwig, Ulm
- T22-3B** DO CENTRAL STRESS RESPONSES CONTRIBUTE TO INNER HAIR CELL SYNAPTOPATHY?
Philine Marchetta, Philipp Exert, Marie Manthey, Lukas Rüttiger, Wibke Singer, Marlies Knipper, Tübingen

Friday

- T22-1C** THE IMPACT OF LIPID HOMEOSTASIS ON GLUCOSE TRANSPORT IN NEUROBLASTOMA CELLS
Janine Mett, Uli Müller, Saarbrücken
- T22-2C** NESFATIN-1 NEURONS EXPRESS c -FOS FOLLOWING RESTRAINT OR FORCED SWIMMING STRESS
Zehra Minbay, Gulcin Ekizceli, Kiymet Zulal Halk, Ozhan Eyigor, Bursa, Turkey

Saturday

- T22-1D** AMINO ACID DEPENDENT REGULATION OF NEURONAL ENERGY METABOLISM
Sandra Muehlenbacher, Uli Müller, Saarbrücken
- T22-2D** EARLY LIFE GROWTH RETARDATION IN TPH2^{-/-} DEFICIENT RATS
Polina Peeva, Daniel Beis, Mihail Todiras, Elena Popova, Michael Bader, Natalia Alenina, Berlin
- T22-3D** IMMUNE RESPONSE AND BEHAVIOR MODULATION IN *DROSOPHILA MELANOGASTER*
Thomas Dieter Riemensperger, Fabienne Reh, Kei Ito, Cologne

T23: Neural networks and rhythm generators

Wednesday

- T23-1A** COMPUTATIONAL MODELLING OF THE FIRING PROPERTIES OF MORPHOLOGICALLY DISTINCT TYPES OF HIPPOCAMPAL PYRAMIDAL NEURONS
Matthias Klumpp, Beate Throm, Andreas Draguhn, Martin Both, Heidelberg

- T23-2A** NON-CANONICAL AXON MORPHOLOGIES GATE INFORMATION FLOW IN NEURONAL ENSEMBLES
Christian Thome, Martin Kaiser, Matthias Klumpp, Paul Pfeiffer, Andreas Draguhn, Maren Engelhardt, Martin Both, Heidelberg
- T23-3A** AGE- AND NMDAR-DEPENDENT EFFECTS OF HYPOXIA-ISCHEMIA ON HIPPOCAMPAL FUNCTION IN VITRO
Dimitri Heffer, Paul Grube, Alycia Lee, Dragos Inta, Peter Gass, Andreas Draguhn, Martin Both, Heidelberg
- T23-4A** GLUTAMATE ATTENUATES AND NMDA ENHANCES SYNCHRONIZATION OF SPONTANEOUS LOCUS COERULEUS NETWORK BURSTING IN NEWBORN RAT BRAIN SLICES
Klaus Ballanyi, Vladimir Rancic, Bijal Rawal, Edmonton Canada
- T23-5A** RETRACTED
- T23-6A** A GENETICALLY ENCODED SYSTEM FOR MODIFICATION OF NEURONAL NETWORK ACTIVITY PATTERNS IN VIVO AT CELLULAR RESOLUTION
Sidney Cambridge, Firat Terzi, Johannes Knabbe, Heidelberg
- T23-7A** IMPACT OF PHYSICAL ACTIVITY ON BDNF-SIGNALING IN THE BRAIN
Ina Eiffler, Jens Schepers, Matthias Voigt, Oliver von Bohlen und Halbach, Greifswald
- T23-8A** EFFECTS OF MILD METABOLIC STRESS ON ENSEMBLE FORMATION OF PYRAMIDAL CELLS DURING HIPPOCAMPAL GAMMA OSCILLATIONS
Shehabeldin Elzoheiry, Jan-Oliver Hollnagel, Andrea Lewen, Oliver Kann, Heidelberg
- T23-9A** INTERSECTIONAL SUBPOPULATIONS OF THE DORSAL RAPHE NUCLEUS MODULATE SLEEP-WAKE BEHAVIOR
Mary Gazea, Lukas Oesch, Carolina Gutierrez Herrera, Antoine R. Adamantidis, Bern, Switzerland
- T23-10A** LAMINAR-RESTRICTED OPTOGENETIC MANIPULATION IN THE MOUSE MOTOR CORTEX FOR DECOMPOSITION OF THE LOCAL FIELD POTENTIALS
Andreas J. Genewsky, Anton Sirota, Martinsried
- T23-11A** THE SINGING-CPG IN CRICKETS SHOWS A MODULAR ORGANISATION ALONG THE ABDOMINAL GANGLIA
Berthold Hedwig, Pedro Jacob, Chu-Cheng Lin, Cambridge, UK

Thursday

- T23-1B** ABNORMAL ENTORHINAL CONTROL OF DEVELOPING PREFRONTAL-HIPPOCAMPAL CIRCUITS IN A MOUSE MODEL OF MENTAL ILLNESS
Marilena Hnida, Xiaxia Xu, Ileana Hanganu-Opatz, Hamburg



- T23-2B** MIDBRAIN DOPAMINERGIC NEURONS' RESPONSE TO ELECTRICAL STIMULATION OF THE LDTG ACROSS ALTERNATING BRAIN STATES OF URETHANE ANAESTHETIZED RAT
Gabriela Izowit, Tomasz Blasiak, Magdalena Walczak, Cracow, Poland
- T23-3B** PHASE DEPENDENT AFFERENT INFLUENCE ON A SIMPLE RHYTHMIC BEHAVIOUR
Reinhard Lakes-Harlan, Alberto Licon-Backenköhler, Ann-Sophie Sturzbecher, Giessen
- T23-4B** CO-MODULATION EFFECT OF TWO ANTAGONISTIC NEUROMODULATORS ON RHYTHMIC MOTOR ACTIVITY
Nils Laudenberg, Felix Clotten, Carmen Smarandache-Wellmann, Cologne
- T23-5B** THE DISTRIBUTION OF INPUTS FROM SEVERAL BRAIN AREAS INTO THE TELEOST MAUTHNER CELL
Kathrin Leupolz, Peter Machnik, Wolfram Schulze, Stefan Schuster, Bayreuth
- T23-6B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF HUMAN DOPAMINERGIC NEURONS DERIVED FROM LUHMES CELLS
Dominik Loser, Timm Danker, Clemens Möller, Marcel Leist, Udo Kraushaar, Sigmaringen
- T23-7B** RECORDINGS IN AN INTEGRATING CENTRAL NEURON PROVIDE A QUICK WAY FOR ACHIEVING APPROPRIATE ANAESTHETIC USE IN FISH
Peter Machnik, Elisabeth Schirmer, Laura Glück, Stefan Schuster, Bayreuth
- T23-8B** INTERSEGMENTAL CPG COUPLING IN THE DEAFFERENTED WALKING SYSTEM OF THE STICK INSECT
Charalampos Mantziaris, Till Bockemühl, Ansgar Büschges, Cologne
- T23-9B** INTRACORTICAL COMPENSATORY MECHANISMS FOR WEAKENED THALAMIC INPUT IN THE MISLAMINATED SOMATOSENSORY CORTEX OF THE REELER MUTANT
Anouk J. M. Meeuwissen, Julien Guy, Martin Möck, Jochen F. Staiger, Göttingen
- T23-10B** INFRASLOW OSCILLATIONS IN THE MOUSE ACCESSORY OLFACTORY BULB
Julia Mohrhardt, Chryssanthi Tsitoura, Rudolf Degen, Minghong Ma, Marc Spehr, Aachen

Friday

- T23-1C** ESILCARBAZEPINE EFFECTS ON HIPPOCAMPAL SHARP WAVE-RIPPLES IN A MOUSE MODEL OF KCNQ2-RELATED ENCEPHALOPATHY
Laura Monni, Pawel Fidzinski, Matthias Wawra, Marti Holtkamp, Berlin
- T23-2C** A CELLULAR BASIS FOR CROSS-FREQUENCY COUPLING?
Andreas Neef, Fred Wolf, Ricardo Martins Merino, Göttingen

- T23-3C** HOW VERSATILE BEHAVIORS ARE FLEXIBLY SUPPORTED BY LOCAL CIRCUITS: DISSECTING *DROSOPHILA*'S WING MOTOR CIRCUIT
Nelson Christian Niemeyer, Jan-Hendrik Schleimer, Silvan Huerkey, Carsten Duch, Susanne Schreiber, Berlin
- T23-4C** REWARD RATE DURING UPPER ALPHA NEUROFEEDBACK AFFECTS LEARNING OF UPPER ALPHA MODULATION
Mareike Nödler, Sjoerd Meijer, Mücahit Tasci, Lena Geiss, Marinus Breteler, Nijmegen, The Netherlands
- T23-5C** SEARCHING FOR NEURAL CORRELATES THAT CONTROL SLEEP WAKE-CYCLES IN THE CIRCADIAN CLOCK OF THE MADEIRA COCKROACH
Jenny A. Plath, Pablo Rojas, Julia Gestrich, HongYing Wei, Martin E. Garcia, Bharath Ananthasubramaniam, Hanspeter Herzog, Kassel
- T23-6C** CHANGES IN HIPPOCAMPAL NETWORK OSCILLATIONS AND SINGLE CELL PROPERTIES OF GAD65 KO MICE-A MODEL OF REDUCED GABAERGIC SYNTHESIS
Evangelia Pollali, Gürsel Çaliskan, Thomas Munsch, Volkmar Lessmann, Oliver Stork, Magdeburg
- T23-7C** NETWORK-SPECIFIC SYNCHRONIZATION OF DELTA OSCILLATIONS GATES SLEEP REGULATION IN *DROSOPHILA*
Davide Raccuglia, Sheng Huang, Anatoli Ender, Desiree Laber, Agustin Liotta, Stephan J. Sigrist, Jörg R. P. Geiger, David Oswald, Berlin
- T23-8C** RAPID DEPTH PERCEPTION IN HUNTING ARCHERFISH
Caroline Petra Reinell, Stefan Schuster, Bayreuth
- T23-9C** MULTISCALE ANALYSIS OF NEURONAL ACTIVITY OF THE CIRCADIAN CLOCK OF THE MADEIRA COCKROACH
Pedro Pablo Rojas, Julia Gestrich, Jenny A. Plath, HongYing Wei, Martin E. Garcia, Bharath Ananthasubramaniam, Monika Stengl, Hanspeter Herzog, Kassel
- T23-10C** LEARNING CENTRAL PATTERN GENERATOR MODELS FOR THE GENERATION OF RHYTHMIC ACTIVITY
Alessandro Salatiello, Martin A. Giese, Tübingen
- T23-11C** CONNECTOMICS OF THE RAT BRAINSTEM
Oliver Schmitt, Peter Eipert, Sebastian Schwanke, Julia Beier, Rostock

Saturday

- T23-1D** NEUROMODULATION OF CIRCUIT OUTPUT VARIABILITY AND COMPONENT VARIABILITY
Anna C. Schneider, Dirk Bucher, Farzan Nadim, Newark, USA
- T23-2D** AN ANALYSIS OF CULTURED HIPPOCAMPAL NEURON ACTIVITY IN RELATION TO THE CIRCADIAN RHYTHM
Sinem Meleknur Sertel, Silvio O. Rizzoli, Göttingen



- T23-3D** ABNORMAL HIPPOCAMPAL INNERVATION OF DEVELOPING PREFRONTAL CORTEX IN A GENETIC-ENVIRONMENTAL MOUSE MODEL OF MENTAL ILLNESS
Lingzhen Song, Xixia Xu, Peggy Putthoff, Ileana L. Hanganu-Opatz, Hamburg
- T23-4D** GRADIENTS IN THE CEREBELLAR CORTEX ENABLE FOURIER-LIKE TRANSFORMATION AND IMPROVE STORING CAPACITY
Isabelle Straub, Laurens Witter, Miriam Hoidis, Abdelmoneim Eshra, Niklas Byczkowicz, Sebastian Maaß, Igor Delvendahl, Kevin Drogans, Elise Savier, Ingo Bechmann, Jens Eilers, Martin Krüger, Philippe Isope, Stefan Hallermann, Leipzig
- T23-5D** CIRCADIAN CLOCK CONNECTIONS TO SPECIFIC LAYERS OF LAMINA AND MEDULLA IN THE COCKROACH *RHYPAROBIA MADERAE*
Thordis Arnold, Sebastian Korek, Azar Massah, David Eschstruth, Monika Stengl, Kassel
- T23-6D** NUCLEUS INCERTUS IS A PONTINE THETA OSCILLATOR – ELECTROPHYSIOLOGICAL *IN VIVO* STUDIES ON URETHANE ANAESTHETISED RAT
Aleksandra Trenk, Magdalena Walczak, Tomasz Blasiak, Crakow, Poland
- T23-7D** IMPACT OF NETWORK ARCHITECTURE ON STIMULUS REPRESENTATIONS *IN VITRO*
Szabina Tudja, Samora Okujeni, Ulrich Egert, Freiburg
- T23-8D** COMPLEX BURSTS OF ACTION POTENTIALS IN DOPAMINERGIC NEURONS IN RESPONSE TO CHOLINERGIC AGONISTS ADMINISTRATION – *IN VIVO* ELECTROPHYSIOLOGICAL AND PHARMACOLOGICAL STUDIES ON NR1DATCreERT2 MICE
Magdalena Walczak, Lukasz Szumiec, Jan Rodriguez Parkitna, Tomasz Blasiak, Cracow, Poland
- T23-9D** E/I RATIO IS MAINTAINED CONSTANT IN NEOCORTICAL CULTURED NETWORKS DESPITE VARIATION OF THE GABAERGIC NEURONS PROPORTION
Wenxi Xing, Ana D. de Lima, Thomas Voigt, Magdeburg
- T23-10D** ABNORMAL CA1 ACTIVITY CAUSES DECREASED NEONATAL PREFRONTAL-HIPPOCAMPAL COUPLING IN A GENE-ENVIRONMENT MODEL OF NEUROPSYCHIATRIC DISORDERS
Xixia Xu, Lingzhen Song, Ileana L. Hanganu-Opatz, Hamburg

T24: Attention, motivation, emotion and cognition

Wednesday

- T24-1A** AGGRESSION FORGES INTER-INDIVIDUAL BEHAVIOURAL DIFFERENCES IN CRICKETS
Julia Sophie Balsam, Paul Anthony Stevenson, Leipzig

- T24-2A** HABITUATION TO APPETITIVE 50-kHz USVs IN THE PLAYBACK PARADIGM IN RATS
Annuska Berz, Chi-Hsin Chen, Markus Wöhr, Rainer K. W. Schwarting, Marburg
- T24-3A** HOW HUMANS SELECT AND USE RELIABLE LAND-MARKS FOR NAVIGATION
Norbert Boeddeker, Luisa Beckmann, Simon Jetzschke, Christoph Kayser, Bielefeld
- T24-4A** TRACES OF NEGATIVELY VALENCED OBJECTS IN A LATERAL ENTORHINAL CORTEX - AMYGDALA MICROCIRCUIT
Vincent Boehm, Pinelopi Pliota, Klaus Kraitsy, Joanna Kaczanowska, Wulf Haubensak, Vienna, Austria
- T24-5A** INFLUENCES OF AGGRESSION ON LEARNING IN CRICKETS
Kim Julia Borstel, Paul Anthony Stevenson, Leipzig
- T24-6A** ATTRIBUTING SUCCESS TO ONESELF VERSUS ANOTHER: DISSOCIATING NEURAL CORRELATES OF PRIDE AND GRATITUDE
Ke Ding, Dian Anggraini, Klaus Wunderlich, Munich
- T24-7A** DEVELOPMENTAL PECULIARITIES OF PERCEPTION OF SPEECH EMOTIONAL PROSODY IN SCHOOL-CHILDREN WITH HIGH MATH ABILITIES
Elena Dmitrieva, Victor Gelman, St. Petersburg, Russia
- T24-8A** LOW FREQUENCY OSCILLATORY BURSTS IN THE MACAQUE PREFRONTAL CORTEX PREDICT SPONTANEOUS TRANSITIONS IN THE CONTENT OF CONSCIOUSNESS
Abhilash Dwarakanath, Vishal Kapoor, Leonid Fedorov, Shervin Safavi, Joachim Werner, Nicho Hatsopoulos, Nikos Logothetis, Theofanis Panagiotaropoulos, Tübingen
- T24-9A** VISUALIZING BDNF TRANSCRIPT USAGE DURING SOUND-INDUCED MEMORY LINKED PLASTICITY
Philipp Eckert, Lucas Matt, Rama Panford-Walsh, Hyun-Soon Geisler, Anne E. Bausch, Marie Manthey, Nicolas I.C. Müller, Csaba Harasztosi, Karin Rohbock, Peter Ruth, Eckhard Friauf, Thomas Ott, Ulrike Zimmermann, Lukas Rüttiger, Thomas Schimmang, Marlies Knipper, Wibke Singer, Tübingen

Thursday

- T24-1B** CHARACTERIZATION OF C57BL/6J AND TWO TRANSGENIC MOUSE LINES IN A NOVEL BEHAVIORAL PARADIGM FOR SOCIAL FEAR CONDITIONING
Nadine Faesel, Malgorzata Kolodziejczyk, Suemeyra Aksit, Michael Koch, Markus Fendt, Magdeburg
- T24-2B** ENRICHED ENVIRONMENT RESTORES BEHAVIORAL DEFICITS INDUCED BY BDNF HAPLOINSUFFICIENCY
Markus Fendt, Mahmoud Harb, Justina Jagusch, Thomas Endres, Volkmar Lessmann, Magdeburg



- T24-3B** SPONTANEOUS ALPHA OSCILLATIONS REFLECT THE EFFORT TO COMPENSATE AN INDIVIDUAL BIAS IN TEMPORAL PERCEPTION
Laetitia Grabot, Christoph Kayser, Bielefeld
- T24-4B** DIFFERENTIAL CONTROL OF FEAR AND REWARD BEHAVIOR IN BNST CIRCUITS
Wulf Haubensak, Nadia Kaouane, Sibel Ada, Marlene Hausleitner, Vienna, Austria
- T24-5B** ANTIDEPRESSANT ACTION OF SUGAR TREATMENT IS DEPENDENT ON OCTOPAMINERGIC SIGNALLING TO THE SEROTONERGIC SYSTEM IN *DROSOPHILA MELANOGASTER*
Tim Hermanns, Burkhard Poeck, Roland Strauss, Mainz
- T24-6B** CORTICO-LIMBIC INTERACTIONS IN EMOTIONAL BEHAVIOR
Dominic Kargl, Joanna Kaczanowska, Jelena Zinnanti, Peter Opriessnig, Wulf Haubensak, Vienna, Austria
- T24-7B** EXPECTATION AND MULTISENSORY INTEGRATION DURING PERCEPTUAL DECISIONS
Stephanie J. Kayser, Christoph Kayser, Bielefeld
- T24-8B** INVESTIGATION AND MODELLING OF MONKEY AND HUMAN CHOICE BEHAVIOR IN A TRANSPARENT COORDINATION GAME
Sebastian Moeller, Anton M. Unakafov, Alexander Gail, Stefan Treue, Fred Wolf, Igor Kagan, Göttingen
- T24-9B** DISCONNECTION OF PREFRONTAL CORTEX AND VENTRAL TEGMENTAL AREA ALTERS EFFORT-RELATED RESPONDING IN RATS
Alexandra Münster, Wolfgang Hauber, Stuttgart

Friday

- T24-1C** RETRACTED
- T24-2C** SPECIFICITY OF PAIN AND FEAR ENCODING IN NEURONAL ENSEMBLES OF THE PRELIMBIC MPFC
Manfred Josef Oswald, Sebastian Quiroga, Rohini Kuner, Heidelberg
- T24-3C** NEURAL CORRELATES OF MUSHROOM BODY OUTPUT NEURONS MEASURED DURING FLIGHT OF A HARNESSED HONEY BEE ON A QUAD COPTER
Benjamin Hans Paffhausen, Julian Petrasch, Tim Landgraf, Randolph Menzel, Berlin
- T24-4C** DYNAMICS OF PREFRONTAL CORTICAL NEURAL ENSEMBLES DURING FEEDING BEHAVIOURS IN FREELY BEHAVING MICE
Anne Petzold, Tatiana Korotkova, Cologne

- T24-5C** NEUROARCHITECTURE OF PEPTIDERGIC SYSTEMS AND DOPAMINERGIC AFFERENTS IN THE MOUSE CENTRAL AMYGDALA
Mirjam Richard, Angelika Schmitt-Böhrer, Philip Tovote, Esther Asan, Würzburg
- T24-6C** SOCIAL DEFEAT STRESS KILLS INSECTS VIA A NITRIC-OXIDE/SEROTONIN-DEPENDENT MECHANISM
Jan Rillich, Paul A. Stevenson, Leipzig
- T24-7C** HOW MULTIPLE MOTIVES AFFECT THE COMPUTATION OF SOCIAL DECISIONS IN THE HUMAN BRAIN
Anne Christin Saulin, Ulrike Horn, Martin Lotze, Jochen Kaiser, Grit Hein, Würzburg
- T24-8C** MICE DON'T TUNE IN: SURPRISE DETERMINES AUDITORY SALIENCY, NOT SELECTIVE ATTENTION
Karsten Schulze, Inga Rauser, K. Jannis Hildebrandt, Oldenburg
- T24-9C** LATERAL PREFRONTAL REGION 8Av/45 ENCODES THE BEHAVIORAL RELEVANCE OF STIMULUS COLORS
Philipp Schwedhelm, Stefan Treue, Göttingen
- T24-10C** ROLE OF CORTICAL AREAS DURING PRE-STIMULUS TIME WINDOW IN PRESENCE OF EMOTIONAL FACES AND WORDS AS DISTRACTORS: A QUANTITATIVE EEG STUDY
Tanaya Batabyal, Suriya Prakash Muthukrishnan, Ratna Sharma, Prashant Tayade, Simran Kaur, New Delhi, India

Saturday

- T24-1D** FRUIT FLIES INTEGRATE REWARD HISTORY INTO FORAGING DECISIONS
Sophie Elisabeth Seidenbecher, Duda Kvitsiani, Aarhus, Denmark
- T24-2D** A COMPREHENSIVE ANATOMICAL MAP OF THE PERIPHERAL OCTOPAMINERGIC/TYRAMINERGIC SYSTEM OF *DROSOPHILA MELANOGASTER*
Mareike Selcho, Dennis Pauls, Felix Frantzmann, Christine Blechschmidt, Basil el Jundi, Würzburg
- T24-3D** BEHAVIORAL AND AUTONOMIC DEFENSIVE RESPONSES MEDIATED BY PERIAQUEDUCTAL GRAY CIRCUITS
Jérémy Signoret-Genest, Nina Scheffler, Yavé Lozano, Philip Tovote, Würzburg
- T24-4D** INVOLVEMENT OF RAT MEDIAL PREFRONTAL CORTEX IN REWARD AND PUNISHMENT TRADE-OFF DURING PERCEPTUAL CHOICE
Vanya Valkanova Stoilova, Maik Stüttgen, Mainz
- T24-5D** SINGLE NEURON AND POPULATION DYNAMICS IN RODENT PREFRONTAL CORTEX DURING TIME REPRODUCTION
Kay Thurley, David Bunk, Josephine Henke, Martinsried



- T24-6D** EXOGENOUS ATTENTION IMPROVES TEMPORAL RESOLUTION IN THE AUDITORY SYSTEMS OF HUMANS AND MICE: PERCEPTUAL EFFECTS AND UNDERLYING NEURAL MECHANISMS
Simge Türe, Basak Günel, Tina Gothner, Christiane M. Thiel, K. Jannis Hildebrandt, Oldenburg
- T24-7D** APPLYING UNSUPERVISED MACHINE LEARNING TO STUDY THE LATERAL HYPOTHALAMIC CIRCUITRY UNDERLYING MOTIVATED BEHAVIOUR IN FREELY MOVING MICE
Hanna Elin van den Munkhof, Tatiana Korotkova, Cologne
- T24-8D** A RAT MODEL OF REWARD CONDITIONING USING OPTOGENETIC VTA STIMULATION
Vivekanandhan Viswanathan, Frank W. Ohl, Markus Fendt, Michael Thomas Lippert, Magdeburg
- T24-9D** CHARACTERIZATION OF A MOUSE MODEL WITH A CENTRAL KNOCKOUT OF BDNF
Matthias Wilhelm Voigt, Ina Eiffler, Oliver von Bohlen und Halbach, Greifswald

T25: Learning and memory

Wednesday

- T25-1A** DIFFERENTIAL FUNCTIONAL INNERVATION AND CORELEASE FROM MIDBRAIN DOPAMINERGIC NEURONS IN AMYGDALA SUBREGIONS
Ayla Aksoy-Aksel, Anna Seewald, Andrea Gall, Johannes Ungermann, Francesco Ferraguti, Ingrid Ehrlich, Tübingen
- T25-2A** BEHAVIORAL ANALYSIS OF CONDITIONAL KNOCKOUT MICE FOR A PRESYNAPTIC ACTIVE ZONE PROTEIN BASSOON IN EXCITATORY, INHIBITORY AND DOPAMINERGIC NERVE TERMINALS
Anil Annamneedi, Gürsel Caliskan, Eike Budinger, Anna Fejtova, Wolfgang Tischmeyer, Oliver Stork, Eckart D. Gundelfinger, Magdeburg
- T25-3A** LEARNING AND MEMORY CAPACITIES IN CLASSICAL AND OPERANT CONDITIONING TASKS UNDERLIES INDIVIDUALITY IN THE COCKROACH *PERIPLANETA AMERICANA*
Cansu Arican, Janice Bulk, Nina Deisig, Martin Paul Nawrot, Cologne
- T25-4A** AN AUTOMATED TOUCH SCREEN TEST BATTERY MEASURING COGNITIVE DECLINE IN MICE: MINIMAL EXPERIMENTER INTERVENTION AND NO FOOD RESTRICTION
Dalia Morsi Attalla, Katharina Stumpfenhorst, York Winter, Berlin
- T25-5A** CONCEPT NEURONS IN THE HUMAN MEDIAL TEMPORAL LOBE REFLECT RELATIONAL PROCESSING
Marcel Bausch, Johannes Niediek, Thomas P. Reber, Sina Mackay, Jan Boström, Christian E. Elger, Florian Mormann, Bonn

- T25-6A** FEAR GENERALIZATION IN A DIFFERENTIAL MOUSE FEAR CONDITIONING PARADIGM: ROLE OF GENDER, SHOCK INTENSITY AND NEUROPEPTIDE S (NPS) RECEPTOR DEFICIENCY
Jorge R. Bergado-Acosta, Virginia Prameswari, Markus Fendt, Magdeburg
- T25-7A** AUGMENTED VENTRAL HIPPOCAMPAL NETWORK OSCILLATIONS IN MOUSE STRAINS WITH ELEVATED ANXIETY AND IMPAIRED FEAR EXTINCTION
Gürsel Caliskan, Oliver Stork, Magdeburg
- T25-8A** TIME TO LEARN: CHANGING THE VALENCE OF AN ODOR WITH EXPERIENCE
Florencia Campetella, Roman Huber, Martin Klappenbach, Fernando Locatelli, Bill Hansson, Markus Knaden, Silke Sachse, Jena
- T25-9A** LIFE HISTORY OF NAVIGATIONAL EXPLORATION AND SOCIAL COMMUNICATION IN HONEYBEES
Xiuxian Chen, Ryuichi Okada, Stefan Walter, Midori Sakura, Yuan Xing, Randolph Menzel, Berlin
- T25-10A** CALCIUM IMAGING OF PUTATIVE ENGRAM CELLS IN *DROSOPHILA*
Benjamin Escribano, Dominique Siegenthaler, Jan Pielage, Kaiserslautern
- T25-11A** CIRCUIT RULES OF COMPULSIVE BEHAVIOUR IN *DROSOPHILA*
Johannes Felsenberg, Paola Cognigni, Sai Parepalli, Scott Waddell, Oxford, UK
- T25-12A** SPATIAL AND IMAGE SELECTIVITY OF HIPPOCAMPAL NEURONS IN VIRTUAL REALITY MAZES
Dustin Fetterhoff, Christian Leibold, Martinsried
- T25-13A** *IN VIVO* RECORDINGS REVEAL THE ENCODING OF A CONDITIONED BEHAVIOURAL CHOICE IN AN IDENTIFIED NEURON
Sabine Feyl, Wolfram Schulze, Stefan Schuster, Bayreuth
- T25-14A** ASSOCIATIVE OLFATORY LEARNING IN *DROSOPHILA* INDUCES DE-CORRELATION OF CALCIUM ACTIVITY IN AXONAL γ -LOBE KENYON CELL BOUTONS
André Fiala, Florian Bilz, Bart Geurten, Göttingen

Thursday

- T25-1B** INDIVIDUAL CONSISTENCY IN THE LEARNING PERFORMANCE OF HONEYBEES
Valerie Finke, David Baracchi, Martin Giurfa, Ricarda Scheiner, Aurore Avarguès-Weber, Würzburg
- T25-2B** COMPASS SYSTEMS DURING ANT LEARNING WALKS: THE EARTH'S MAGNETIC FIELD IS THE GEOSTABLE REFERENCE SYSTEM FOR TAKING SNAPSHOTS IN *CATAGLYPHIS*
Pauline Nikola Fleischmann, Robin Grob, Valentin Leander Müller, Rüdiger Wehner, Wolfgang Rössler, Würzburg



- T25-3B** ASSOCIATIVE REMAPPING OF ODOR REPRESENTATIONS BY INHIBITORY NETWORK PLASTICITY
Thomas Frank, Nila Moenig, Chie Satou, Shin-ichi Higashijima, Rainer Friedrich, Basel, Switzerland
- T25-4B** TO BE IN THE RIGHT PLACE AT THE RIGHT TIME: *DROSOPHILA* LEARNING IN THE HEAT MAZE
Felix Frantzmam, Dennis Pauls, Würzburg
- T25-5B** NEURAL CORRELATES OF DECISION MAKING IN BUMBLE BEES IN A LABORATORY ENVIRONMENT
Inga Fuchs, Benjamin H. Paffhausen, Randolph Menzel, Berlin
- T25-6B** THE SYNAPTO-NUCLEAR MESSENGER JACOB ALTERS NUCLEOLAR DYNAMICS TO FACILITATE PROTEIN SYNTHESIS IN PLASTICITY
Camilla Fusi, Anna Karpova, Christina Spilker, Daniela C. Dieterich, Michael R. Kreutz, Magdeburg
- T25-7B** LOCAL AMYGDALA NETWORK COMPETITION AND COOPERATION IN LONG-TERM MEMORY
Ki Ann Goosens, Yee Fun Lee, Seh Hong Lim, Samiksha Shah, Abby Rudolph, New York, USA
- T25-8B** CHARACTERIZATION OF CONNECTIVITY IN SYNAPTIC COMPLEXES OF THE MUSHROOM-BODY CALYX IN THE HONEYBEE *APIS MELLIFERA*
Claudia Groh, Annekathrin Lindenberg, Christian Stigloher, Wolfgang Rössler, Würzburg
- T25-9B** NEUROPEPTIDES IN *CATAGLYPHIS* DESERT ANTS AND THEIR ROLE AS POTENTIAL MODULATORS OF BEHAVIOR
Jens Habenstein, Franziska Schmitt, Emad Amini, Markus Thamm, Reinhard Predel, Christian Wegener, Susanne Neupert, Wolfgang Rössler, Würzburg
- T25-10B** IMAGING ODOUR REPRESENTATIONS AND LEARNING-INDUCED PLASTICITY AT MUSHROOM BODY OUTPUT NEURON POSTSYNAPSES
Clare Hancock, André Fiala, Göttingen
- T25-11B** PAVLOVIAN-INSTRUMENTAL TRANSFER IS SENSITIVE TO OUTCOME DEVALUATION AND MOTIVATIONAL SHIFTS
Wolfgang Hauber, Susanne Sommer, Alexandra Münster, Stuttgart
- T25-12B** SIGNAL INTEGRATION OF DOPAMINERGIC NEURONS IN *D. MELANOGASTER*
Michael-Marcel Heim, Davide Raccuglia, David Oswald, Berlin
- T25-13B** FUNCTIONAL CONNECTIVITY ANALYSIS OF THE NUCLEUS REUNIENS OF THE THALAMUS UPON REMOTE FEAR MEMORY ATTENUATION
Hendrik Heiser, Bianca A. Silva, Nana Sato, Johannes Gräff, Lausanne, Switzerland
- T25-14B** GENETICALLY-ENCODED DIFFERENCES IN CORTICAL DOPAMINE AFFECT PHASIC DOPAMINE RELEASE IN NUCLEUS ACCUMBENS AND MODULATE THE EFFECT OF CUE SALIENCE ON ASSOCIATIVE LEARNING
Anna Huber, Nebojsa Jovanovic, Lydia Oikonomidis, Elizabeth M. Tunbridge, Mark E. Walton, Oxford, UK

Friday

- T25-1C** OLFACTORY LEARNING IN *DROSOPHILA* LARVA CAN BE ACCOUNTED FOR BY PLASTICITY OF THE SYNAPSES BETWEEN KENYON CELLS AND MUSHROOM BODY OUTPUT NEURONS
Anna-Maria Jürgensen, Michael Schleyer, Bertram Gerber, Martin Paul Nawrot, Cologne
- T25-2C** LEARNING OF NOVEL SEMANTIC RELATIONSHIPS BY SUDDEN COMPREHENSION IS ASSOCIATED WITH A HIPPOCAMPUS-INDEPENDENT NETWORK
Jasmin M. Kizilirmak, Björn H. Schott, Hannes Thuerich, Kristian Folta-Schoofs, Alan Richardson-Klavehn, Hildesheim
- T25-3C** LONG-TERM MEMORY IMPROVEMENT BY NOVELTY EXPOSURE
Jana C. Köhler, Markus Fendt, Volkmar Lessmann, Thomas Endres, Magdeburg
- T25-4C** PLASTICITY OF THE START DECISIONS OF HUNTING ARCHERFISH
Martin Krause, Wolfram Schulze, Stefan Schuster, Bayreuth
- T25-5C** ROLE OF THE PARIETAL CORTEX ON THE OF RETRIEVAL OF AUDITORY FEAR MEMORY AT AMBIGUOUS ENVIRONMENT
Sukwon Lee, Bitna Joo, Ja Wook Koo, Daegu, Korea (South)
- T25-6C** SYNAPTIC GABA_A RECEPTOR COMPOSITION IN YOUNG ADULT-BORN GRANULE CELLS DIFFERS FROM MATURE HIPPOCAMPAL GRANULE CELLS
Meredith E. Lodge, Jan M. Schulz, Josef Bischofberger, Basel, Switzerland
- T25-7C** SLEEP IMPROVES PREDICTIVE PROCESSING OF SPATIO-TEMPORAL SEQUENCES
Nicolas D. Lutz, Ines Wolf, Stefanie Hübner, Jan Born, Karsten Rauss, Tübingen
- T25-8C** REWARD SIGNALING IN A RECURRENT CIRCUIT OF DOPAMINERGIC NEURONS AND KENYON CELLS IN THE *DROSOPHILA* LARVA
Radostina Lyutova, Maximilian Pfeuffer, Dennis Segebarth, Jens Habenstein, Astrid Rohwedder, Felix Frantzmann, Mareike Selchow, Christian Wegener, Andreas S. Thum, Dennis Pauls, Würzburg
- T25-9C** MEMORY ENHANCEMENT BY FERULIC ACID ESTER ACROSS SPECIES
Birgit Michels, Hanna Zwaka, Ruth Bartels, Oleh Lushchak, Katrin Franke, Thomas Endres, Thilo Kähne, Volkmar Leßmann, Alexander Dityatev, Ludger Wessjohann, Bertram Gerber, Magdeburg
- T25-10C** BRAIN ELECTROENCEPHALOGRAPHIC MODULES SEGREGATION AS BIOMARKER OF LEARNING
Francesca Miraglia, Fabrizio Vecchio, Paola Maria Rossini, Rome, Italy



- T25-11C** PERFORMANCE-DEPENDENT REGULATION OF THE EXTRACELLULAR MATRIX IN AUDITORY CORTEX AND HIPPOCAMPUS DURING LEARNING AND LONG-TERM MEMORY FORMATION
Hartmut Niekisch, Julia Steinhardt, Julia Berghäuser, Jana Kasper, Erika Kaschinski, Sara Bertazzoni, Judith Weber, Jeet Singh, Jessica Mitlöchner, Renato Frischknecht, Max F. K. Happel, Magdeburg
- T25-12C** BEHAVIOURAL CHARACTERISTICS OF AVERSIVE COLOUR LEARNING IN HONEYBEES
Morgane Nouvian, C. Giovanni Galizia, Konstanz
- T25-13C** LEARNING RELATIVE VALUE IN *DROSOPHILA*
Emmanuel Perisse, Pedro F. Jacob, Luis D. Suarez, Scott Waddell, Montpellier, France
- T25-14C** A DEPLETION OF DIETARY PHYTOESTROGEN IN THE ADULT C57BL/6 MICE AFFECTS CONTEXTUAL FEAR AND HIPPOCAMPAL PLASTICITY
Syed Ahsan Raza, Gürsel Çaliskan, Oliver Stork, Magdeburg

Saturday

- T25-1D** CHARACTERIZATION OF AN OPTOGENETICALLY ACTIVATED DOPAMINERGIC REWARD SIGNAL
Michael Schleyer, Alice Weiglein, Juliane Thöner, Anne Voigt, Timo Saumweber, Bertram Gerber, Magdeburg
- T25-2D** NEURONAL PROCESSING OF MULTIMODAL REWARD ASSOCIATIONS IN THE HONEYBEE
Fabian Schmalz, Wolfgang Rössler, Martin Strube-Bloss, Würzburg
- T25-3D** ENHANCED FEEDFORWARD INHIBITION IN THE HIPPOCAMPUS OF A DOWN SYNDROME MOUSE MODEL
Jan Michael Schulz, Josef Bischofberger, Basel, Switzerland
- T25-4D** A DEEP LEARNING STRATEGY FOR AUTOMATIC SEGMENTATION OF FLUORESCENT LABELS IN BRAIN SECTIONS
Dennis Segebarth, Matthias Griebel, Alexander Dürr, Cora Rüdert von Collenberg, Corinna Martin, Lucas B. Comeras, Dominik Fiedler, Anupam Sah, Nikolai Stein, Rohini Gupta, Manju Sasi, Ramon O. Tasan, Maren Lange, Nicolas Singewald, Hans-Christian Pape, Michael Sendtner, Christoph Flath, Robert Blum, Würzburg
- T25-5D** NOVEL TOOL TO MANIPULATE PUTATIVE *DROSOPHILA* ENGRAM CELLS
Dominique Siegenthaler, Benjamin Escribano, Vanessa Bräuler, Jan Pielage, Kaiserslautern
- T25-6D** PROTEIN EXPRESSION AND PHOSPHORYLATION DURING CONSOLIDATION OF RELIEF LEARNING IN RATS
Elaheh Soleimanpour, Jorge R. Bergado Acosta, Peter Landgraf, Dana Mayer, Evelyn Dankert, Daniela C. Dieterich, Markus Fendt, Magdeburg

- T25-7D** APPETITIVE AND AVERSIVE LEARNING OF AMINO ACIDS IN LARVAL *DROSOPHILA*
Naoko Toshima, Michael Schleyer, Bertram Gerber, Magdeburg
- T25-8D** LATER THAN EXPECTED: THETA-ALPHA-GAMMA COUPLING AND PHASE-AMPLITUDE SHIFT IN MEMORY-BASED TEMPORAL EXPECTATION
Vincent van de Ven, Oana Iosif, Fren Smulders, Peter de Weerd, Maastricht, The Netherlands
- T25-9D** LEARNING PROCESSES AND BRAIN CONNECTIVITY IN A COGNITIVE-MOTOR TASK IN NEURODEGENERATION: EVIDENCE FROM EEG NETWORK ANALYSIS
Fabrizio Vecchio, Francesca Miraglia, Davide Quaranta, Giordano Lacidogna, Camillo Marra, Paolo Maria Rossini, Rome, Italy
- T25-10D** DISTRACTING A *DROSOPHILA* — HOW DO FRUIT FLIES “REMEMBER” TO VISUALLY ORIENT?
Anjana Venkataraman, Mainz
- T25-11D** THE FORMATION OF AVERSIVE OLFACTORY MEMORIES IN *DROSOPHILA* LARVAE IS REGULATED THROUGH INSULIN SIGNALLING IN THE MUSHROOM BODIES
Annekathrin Widmann, Nazli Güllü, Melanie Eschment, Kathrin Böppe, Göttingen
- T25-12D** AUDITORY FEAR CONDITIONING IN SEROTONIN TRANSPORTER KNOCKOUT RATS: DIFFERENTIAL EFFECTS ON OVERT BEHAVIOR AND ULTRASONIC VOCALIZATIONS
Maria Willadsen, Tina Meller, Maja Paaschburg, Rainer Schwarting, Judith R. Homberg, Markus Wöhr, Marburg
- T25-13D** AMYGDALA INTERCALATED NEURONS FORM AN INTERCONNECTED AND FUNCTIONALLY HETEROGENEOUS NETWORK
Martin Zeller, Olena Bukalo, Kenta Hagihara, Ayla Aksoy-Aksel, Andrea Gall, Andrew Holmes, Andreas Lüthi, Ingrid Ehrlich, Tübingen
- T25-14D** REPRESENTATION OF STIMULUS-, TASK-, AND CHOICE-RELATED INFORMATION IN RODENT AUDITORY CORTEX REVEALED BY CHRONIC CURRENT-SOURCE DENSITY RECORDINGS
Marina M. Zempeltzi, Martin Kisse, Shivam Maurya, Sümeyra Aksit, Lars T. Boenke, Michael G. K. Brunk, Frank W. Ohl, Matthias Deliano, Max F. K. Happel, Magdeburg

T26: Computational neuroscience

Wednesday

- T26-1A** NEURONAL MECHANISMS OF EVIDENCE ACCUMULATION AND PERCEPTUAL DECISION MAKING IN THE LARVAL ZEBRAFISH
Armin Bahl, Florian Engert, Cambridge, USA



- T26-2A** ACTIVITY-INDUCED CHANGES IN ION CONCENTRATIONS SWITCH CELLULAR AND NETWORK DYNAMICS
Mahraz Behbood, Susana Andrea Contreras, Jan-Hendrik Schleimer, Susanne Schreiber, Berlin
- T26-3A** MODELLING ACTIN DYNAMICS IN DENDRITIC SPINES
Mayte Bonilla-Quintana, Christian Tetzlaff, Michael Fauth, Florentin Wörgötter, Göttingen
- T26-4A** ACTIVITY PATTERNS IN A MATHEMATICAL MODEL OF A GAP-JUNCTION COUPLED NETWORK OF HETEROGENEOUS NEURONS
Hans Albert Braun, Aubin Tchaptchet, Marburg
- T26-5A** SELF-ORGANIZED REACTIVATIONS MAINTAIN AND STRENGTHEN MEMORIES DESPITE SYNAPTIC TURNOVER
Michael Fauth, Mark van Rossum, Göttingen
- T26-6A** NON-RANDOM CONNECTIVITY OF NETWORKS SUBJECT TO HOMEOSTATIC STRUCTURAL PLASTICITY
Júlia V. Gallinaro, Stefan Rotter, Freiburg

Thursday

- T26-1B** SHORT-TERM ITD (INTERAURAL TIME DIFFERENCE) ESTIMATION OF NATURAL SOUND STIMULI VIA EFFECTIVE MODELS OF BINAURAL BRAINSTEM NUCLEI
Sebastian Groß, Christian Leibold, Martinsried
- T26-2B** REPRODUCIBLE NEURAL NETWORK SIMULATIONS: MODEL VALIDATION ON THE LEVEL OF NETWORK ACTIVITY DATA
Robin Gutzen, Michael von Papen, Guido Trenscher, Pietro Quaglio, Sonja Grün, Michael Denker, Jülich
- T26-3B** MAPPING CELL TYPES IN THE REPTILIAN BRAIN WITH SINGLE-CELL TRANSCRIPTOMICS
David Hain, Tatiana Gallego-Flores, Maria Antonietta Tosches, Gilles Laurent, Frankfurt/Main
- T26-4B** NEURAL MODEL FOR THE VISUAL RECOGNITION OF AGENCY AND SOCIAL INTERACTION
Mohammad Hovaidi-Ardestani, Nitin Saini, Martin Giese, Tübingen
- T26-5B** BRAINTRAWLER: A WEB-BASED FRAMEWORK FOR ITERATIVE EXPLORATION OF BIG BRAIN NETWORK DATA
Joanna Kaczanowska, Florian Ganglberger, Wulf Haubensak, Katja Bühler, Vienna, Austria

Friday

- T26-1C** STABILIZATION OF HEBBIAN CELL ASSEMBLIES BY SYNAPTIC CONSOLIDATION
Jannik Luboeinski, Christian Tetzlaff, Göttingen
- T26-2C** SPARSE CODING PREDICTS OPTIC FLOW SPECIFICITIES OF ZEBRAFISH PRETECTAL NEURONS
Hanspeter A. Mallot, Gerrit Ecke, Fabian Mikulasch, Sebastian Buijns, Thede Witschel, Aristides B. Arrenberg, Tübingen

- T26-3C** A FUNCTIONAL NETWORK MODEL OF THE NEO-CORTEX CAN REPRODUCE SPIKING DYNAMICS IN MONKEY MOTOR CORTEX DURING DELAYED REACH MOVEMENTS
Martin Paul Nawrot, Thomas Rost, Alexa Riehle, Sacha J. van Albada, Vahid Rostami, Cologne
- T26-4C** DATA DRIVEN EXPLORATION OF MOUSE BEHAVIOR IN THE GO/NO-GO TASK
Lukasz Piszczek, Manuel Pasieka, Andreea Constantinescu, Wulf Haubensak, Vienna, Austria
- T26-5C** SYNAPTIC CONTRIBUTIONS TO INFORMATION PROCESSING OF NATURAL SOUNDS IN THE VNLL
Michael Rebhan, Linda Fischer, Felix Felmy, Christian Leibold, Munich

Saturday

- T26-1D** TEMPERATURE-INDUCED HEART ARRHYTHMIAS - A MATHEMATICAL MODELING PERSPECTIVE
Pia Rose, Jan-Hendrik Schleimer, Susanne Schreiber, Berlin
- T26-2D** FULL RESCUE OF AN INACTIVE OLFACTORY RECEPTOR MUTANT BY ELIMINATION OF AN ALLOSTERIC LIGAND-GATING SITE
Kanika Sharma, Sabine Balfanz, Arnd Baumann, Sigrun Korsching, Cologne
- T26-3D** SWAN: A TOOL TO TRACK SINGLE UNITS ACROSS CONSECUTIVE ELECTROPHYSIOLOGICAL RECORDINGS
Shashwat Sridhar, Alper Yegenoglu, Nicole Voges, Thomas Brochier, Alexa Riehle, Sonja Grün, Michael Denker, Jülich
- T26-4D** A PRACTICAL GUIDE FOR USING POISSON GLMS ON THE BASIS OF SIMULATION STUDIES FOR PREDICTING NEURAL SPIKING ACTIVITY
Valentina A. Unakafova, Alexander Gail, Göttingen
- T26-5D** A MULTI-COMPARTMENT MODEL BASED ON EXPRESSION PATTERNS OF STRUCTURAL AND ION CHANNEL PROTEINS IN A MULTIMODAL CELL TYPE OF THE AVIAN OPTIC TECTUM
Stefan Weigel, Thomas Künzel, Katharina Lischka, Harald Luksch, Freising

T27: Techniques and demonstrations

Wednesday

- T27-1A** INFLUENCE OF THE INDIVIDUAL FACTORS ON EFFECTIVENESS OF α -tACS: TASK DIFFICULTY
Gamze Altas, Oldenburg



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Program at a glance

Tuesday	Time	Wednesday, 20	Thursday, 21	Friday, 22	Saturday, 23
	08:00 - 09:00		Registration	Registration	Registration
	09:00 - 10:00		Award Lectures	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
Satellites	11:00 - 12:00		Symposia II S7 - S12	Symposia IV S19 - S24	Lunch Break
	12:00 - 13:00	Opening Lecture			Florey Lecture
	13:00 - 14:00	Posters A odd numbers Posters A even numbers	Assembly NWG	Lunch Break	Posters D odd numbers Posters D even numbers
6 th Schram Foundation Symposium	14:00 - 15:00		Symposia III S13 - S18	Symposia V S25 - S30	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		Buffet	Buffet	
	18:00 - 19:00	Buffet	Buffet	Buffet	
	19:00 - 20:00	Zülich Lecture	Hertie Lecture	Schram Lecture	
	20:00 - 21:00				
	21:00 - 22:00				

12th FENS Forum of Neuroscience

11-15 July 2020 | Glasgow, UK

Organised by the Federation of European Neuroscience Societies (FENS)

Hosted by The British Neuroscience Association (BNA)



SAVE THE DATE

Call for symposium and technical workshop proposals

25 March 2019 - 20 May 2019

The Programme Committee will establish the scientific programme for the FENS Forum 2020 on the basis of proposals from scientists from all over the world and all areas of neuroscience research.

For instructions and guidelines for symposium and technical workshops proposals, please visit www.fens.org/2020 or contact forum2020@fens.org.

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*According to Rough Guide readers in 2017.

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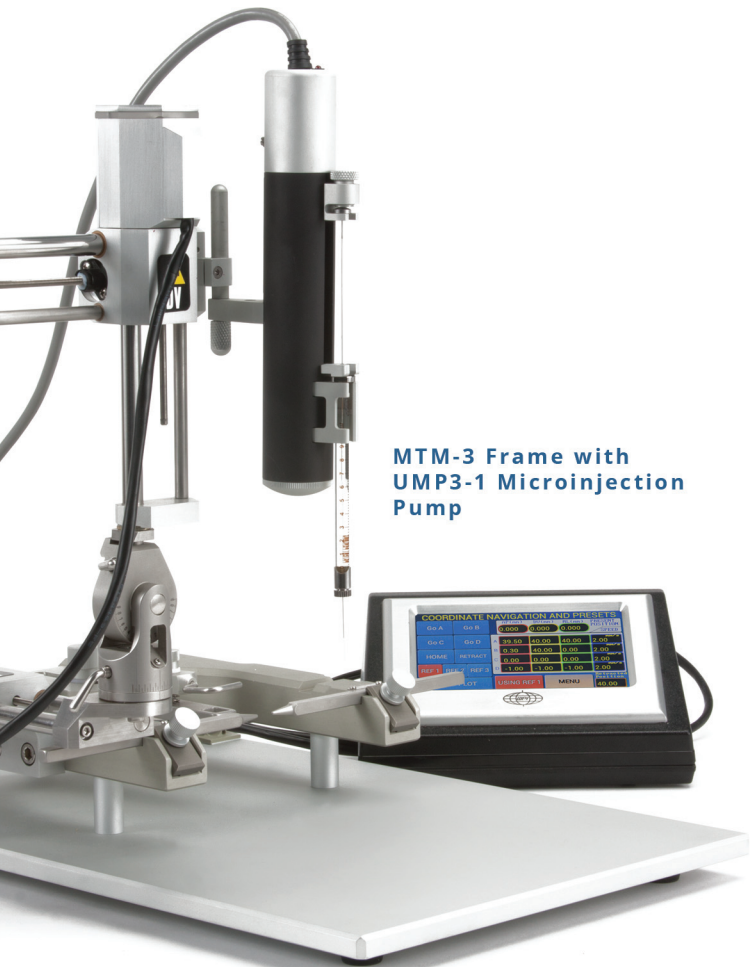
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