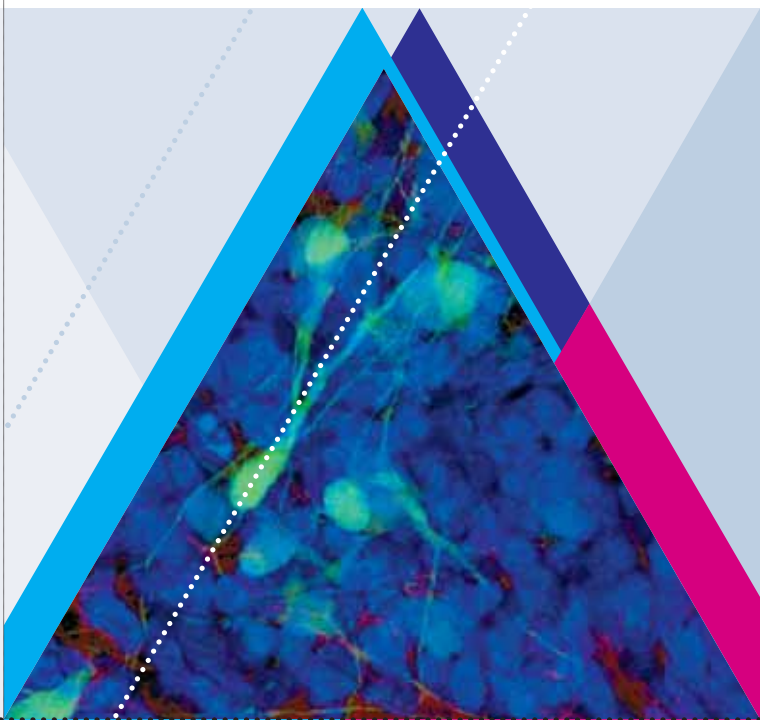


Program

Seventh Göttingen Meeting  
of the German Neuroscience Society



2007

Seventh Göttingen Meeting of the  
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Program

March 29 – April 1, 2007



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# Program

7<sup>th</sup> GÖTTINGEN MEETING OF THE GERMAN  
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31<sup>th</sup> GÖTTINGEN NEUROBIOLOGY  
CONFERENCE

March 29 - April 1, 2007

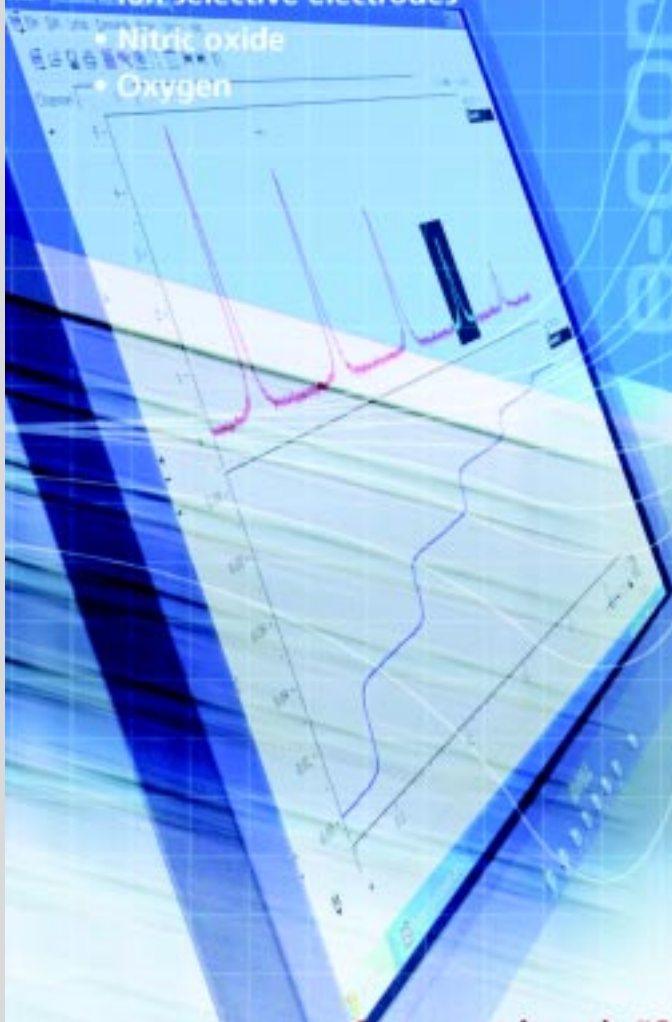


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## Welcome Address

It is a great pleasure for us to welcome you to the 7<sup>th</sup> Göttingen Meeting of the German Neuroscience Society. The first Neurobiology Conference in Göttingen was held in 1973 at the Max-Planck-Institute of Biophysical Chemistry initiated and organized by the late Otto Creutzfeldt (1927 – 1992) and Ernst Florey (1927 – 1997). Our meeting in 2007 is thus also the 31<sup>st</sup> Göttingen Neurobiology Conference.

The German Neuroscience Society was founded in 1993 and since 1998 took an active part in the scientific organization of this conference that covers all aspects of invertebrate and vertebrate neuroscience from experimental to theoretical neuroscience and from basic to applied research. Its comparative neurobiological and broad methodological spectrum makes this conference unique and attracts a great number of participants from other countries. A further strength of this conference constantly increasing over the years has been the fundamental contribution by young researchers, presenting their data and discussing these in front of a broad audience. We have received over 900 posters, of which many are first-authored by the younger delegates - a special welcome to them. To house the increasing numbers of posters it became necessary to introduce a third poster session which also led to a slightly changed meeting schedule.

Kerstin Kriegelstein together with her team is responsible for the local organization, to continue the local tradition and to ensure the future success of this extraordinary series of conferences, together with the German Neuroscience Society.

Upon its call for symposia, the German Neuroscience Society, received 35 proposals. Most of these were of excellent standard and, because of lack of conference time and space, it was again difficult for the Program Committee to scale down the number of accepted proposals to 24. All effort was taken to cover a broad spectrum of neuroscience activities and to spot recent developments in the field. Seven invited plenary lectures presented by highly renowned scientists will highlight progress in individual fields of neuroscience. For the first time one of them is the Zülch-Lecture. In addition two lectures will be given by two young neuroscientists who have been awarded one of the two scientific prizes of the German Neuroscience Society: The T.I.L.L. Photonics price for excellent achievements in

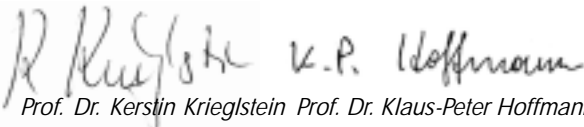
developing novel techniques in neuroscience and the "Schilling-Forschungspreis der Neurowissenschaftlichen Gesellschaft" that is granted by the Schilling Foundation. We would like to take the opportunity to sincerely thank institutions for their generous support. The program is flanked by three satellite symposia.

As introduced with the last meeting we no longer provide an abstract book. We provide abstracts on CD but still hand out a program booklet. This abstracts CD is a supplement to Neuroforum and thus citable. Furthermore, we provide an itinerary planner on the meeting web site (<http://www.neuro.uni-goettingen.de/>) to allow delegates to create individual timetables guiding them through the sessions. Please note that the time schedule of the meeting has changed to accommodate additional posters.

In line with the agreement with the Forum of the European Neuroscience Societies there will be no meeting in Göttingen in 2008. Instead a FENS meeting will be held in Geneva from July 12 through 16, 2008, organized by the Swiss Neuroscience Society. We hope that you will support this conference as much as the last FENS Forum in Vienna, by organizing symposia or satellite symposia, or by submitting posters.

We wish to thank all companies that supported the conference, the University of Göttingen for providing the conference rooms, the German Federal Ministry of Education and Research (BMBF) for travel grants to young researchers from Israel, and in particular the Deutsche Forschungsgemeinschaft whose generous support enabled us to invite a considerable number of international scientists. Warm thanks go to the student volunteers who helped to organize this conference in many ways and make this conference enjoyable for all of us.

We wish you a stimulating and scientifically rewarding conference and a pleasant stay in Göttingen.



*Prof. Dr. Kerstin Kriegelstein Prof. Dr. Klaus-Peter Hoffmann*



## Acknowledgement

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

Deutsche Forschungsgemeinschaft (DFG)

Bereich Humanmedizin  
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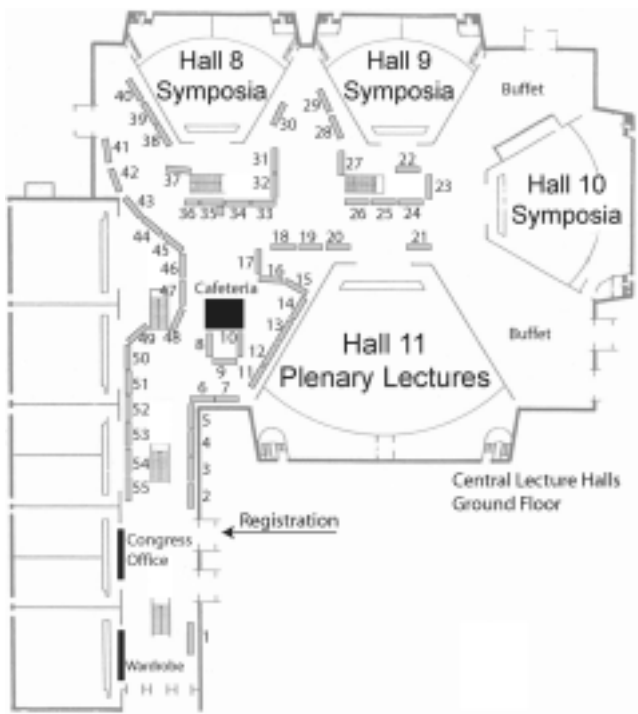
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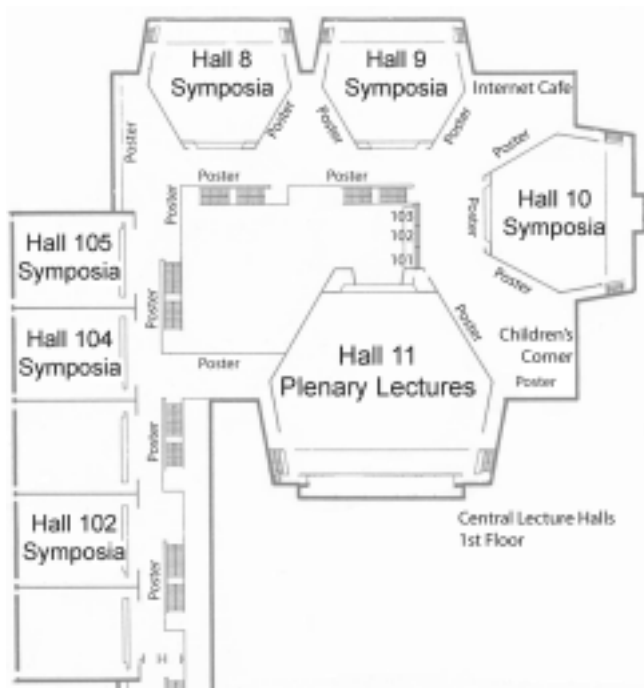


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## Awards

### **TILL Photonics Technology Award of the German Neuroscience Society 2007**

This prize is awarded by the German Neuroscience Society for outstanding contributions to the development of new technologies in the field of brain research. The prize money is donated by the company TILL Photonics GmbH in Gräfelfing.

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

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

#### **TILL Photonics GmbH**

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### **Schilling-Research Award of the German Neuroscience Society 2007**

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

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

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Both prize winners will present their work in a lecture on Friday, March 30, between 15:00 and 16:00 h.

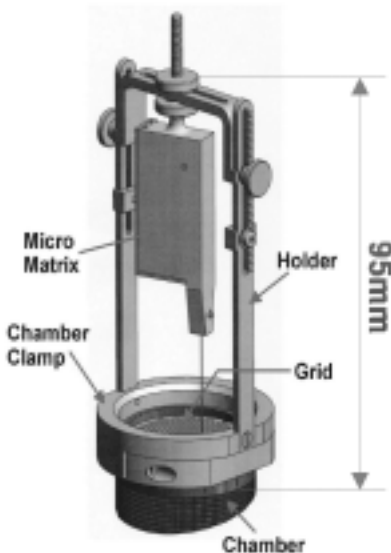


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 Schindler, Jens (Kaiserslautern, Germany)  
 Schmid, Michael (Tübingen, Germany)  
 Szulc, Michal Jozef (Poznan, Poland)  
 Weislogel, Jan-Marek (Heidelberg, Germany)  
 Wittlinger, Matthias (Ulm, Germany)  
 Wurm, Antje (Leipzig, Germany)  
 Wuttke, Thomas, Volkmar (Ulm, Germany)  
 Wylie, Christi Jane (Cleveland, USA)  
 Yamagata, Nobuhiro (Berlin, Germany)







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## Travel Grants for young Investigators from Israel

The following young scientists from Israel received a travel grant of up to 2.000 Euro to attend the Göttingen Neurobiology Conference 2007. The stipends were awarded within the framework of the governmental health research program in various fields of medical research. This framework is a cooperation of the German Federal Ministry of Education and Research (BMBF) and the Israeli Ministry of Science, Culture and Sport (MOST).

Dan Bar-Yehuda  
Pavel Cherkas  
Zohar Fridman  
Ram Gal  
Meron Gurkiewicz  
Keren Haroush  
Lior Libman  
Abed Mansour  
Anat Marom Frydman  
Einat Ofek  
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 Erwin Neher  
 Klaus Pawelzik  
 Werner J. Schmidt  
 Hermann Wagner  
 Herbert Zimmermann

### Local Organization

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Bereich Humanmedizin der Universität Göttingen

Abteilung Neuroanatomie

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37075 Göttingen

Tel.: +49 551 397052 /-55, Fax: +49 551 3914016

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Ivo Chao

Karen Fricke

Helmut Gerlach

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Gabriele Rübiger

Bernhard Reuss

Michael Rickmann

Eleni Roussa

Tanja Vogel

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Geschäftsstelle der Neurowissenschaftlichen Gesellschaft e.V.

Meino Alexandra Gibson/Annika Buchheister

Max Delbrück Center for Molecular Medicine (MDC)

Robert-Rössle-Str. 10

13092 Berlin

Tel.: +49 30 9406 3336, Fax: +49 30 9406 3819

eMail: gibson@mdc-berlin.de

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## General Information

### Venue

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

### Conference Office

During the meeting the conference office is open from Wednesday, March 28, to Saturday, March 31, from 8 a.m. to 9 p.m. and on Sunday, April 1, from 8 a.m. to 1 p.m.

Phone: 0551/39-9595

Fax: 0551/39-9596

eMail: [nbc@uni-goettingen.de](mailto:nbc@uni-goettingen.de)

### Exhibition

The exhibition is open from Thursday, March 29 to Saturday, March 31, 2007 from 9 a.m. to 7 p.m.

### Public Transportation and Travel

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

### Registration

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

EUR 130	(members of the German or the Austrian Neuroscience Society)
EUR 170	(non-members)
EUR 90	(student members of the German or the Austrian Neuroscience Society)
EUR 110	(student non-members)

Students must show a copy of their student identity card.

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The registration fee includes:

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- congress bag
- abstract CD
- program booklet
- evening reception with food and drinks at the meeting site on Thursday, Friday and Saturday
- coffee breaks

On Saturday night, all participants have free access to the Göttingen Neurobiology Disco Party, which starts from 9 p.m. in the foyer of the Mensa. Drinks will be available at moderate prices.

### Lunch

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

### Children´s Corner

There will be a supervised playground for children. We would appreciate if you specify your demand in advance.

### Internet Access

As a special service we offer an 'Internet Café' to provide free Internet access for all participants of the meeting.

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- your username
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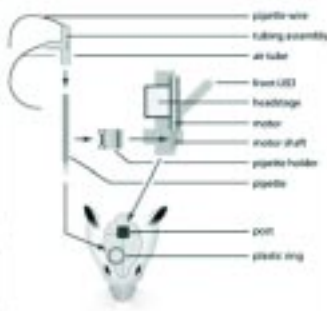


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## Poster presentations

Each poster will hang for one day. Posters with poster numbers containing A will hang on Thursday, posters with poster numbers containing B will hang on Friday, and posters with poster numbers containing C will hang on Saturday.

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 one hour (explanation of poster numbers see p. 106).

### ***Posters with numbers containing A***

Thursday, March 29, 2007

(hanging of posters: before 12:45)

12:45 - 13:45 odd serial numbers (e.g. T29-1A)

13:45 - 14:45 even serial numbers (e.g. T29-2A)

16:00 - 17:00 odd serial numbers (e.g. T29-1A)

17:00 - 18:00 even serial numbers (e.g. T29-2A)

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

### ***Posters with numbers containing B***

Friday, March 30, 2007

(hanging of posters: before 13:00)

13:00 - 14:00 odd serial numbers (e.g. T29-1B)

14:00 - 15:00 even serial numbers (e.g. T29-2B)

16:00 - 17:00 odd serial numbers (e.g. T29-1B)

17:00 - 18:00 even serial numbers (e.g. T29-2B)

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

### ***Posters with numbers containing C***

Saturday, March 31, 2007

(hanging of posters: before 13:00)

13:00 - 15:00 odd serial numbers (e.g. T29-1C)

14:00 - 15:00 even serial numbers (e.g. T29-2C)

16:00 - 17:00 odd numbers (e.g. T29-1C)

17:00 - 18:00 even numbers (e.g. T29-2C)

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



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• S<sup>3</sup>IX

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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 planer (<http://www.neuro.uni-goettingen.de>) or with the authors' index in this program booklet.

The size of the poster is 1 x 1 m. Please use pins not tape to hang your posters.

### **Projection**

The standard equipment in all lecture rooms is one PowerPoint projector as well as one overhead, but there are not two. We therefore have to ask you to present your talk without double projection. Furthermore, we must point out that only one tape recorder for all lecture rooms is available. In any case, if you have special requirements regarding projection, please let us know by March 1, 2007 at the latest (contact Dr. Ivo Chao, eMail:[nbc@uni-goettingen.de](mailto:nbc@uni-goettingen.de)). All such requests will be collected up to that date, after which you will be informed about what are possible options.

### **Language**

The official language of this meeting is English.

### **Hotels**

The travel agency responsible for hotel reservation is the Deutsche Reisebüro Berlin (Annemarie van der Hoff, DER Deutsches Reisebüro GmbH & Co. OHG, Ritterstr. 3, 10969 Berlin, Tel.: +49 30 302 5002, Fax: +49 30 301 9768, eMail: [annemarie.vanderhoff@der.de](mailto:annemarie.vanderhoff@der.de)).

### **Insurance**

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

### **Electricity Supply**

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## Map of Göttingen





## Scientific Program

### Wednesday, March 28, 2007

- 14:00 - 18:15 Satellite Symposium I, Hall 8  
**Neurotropic viruses**  
*Chair: Bernd Heimrich and Martin Schwemmler, Freiburg*
- 15:00 - 18:00 Satellite Symposium II, Hall 9  
**Ion transport in the brain and beyond: from function to genes**  
*Chair: Eleni Roussa, Göttingen*
- 14:00 - 19:00 Satellite Symposium III, Hall 10  
**Neural stem cells and neuronal specification**  
*Chair: Tanja Vogel and Andreas Wodarz, Göttingen*

### Thursday, March 29, 2007

- 9:00 - 12:00 **Symposia I (S1 - S6)**  
 9:00 - 12:00 Symposium 1, Hall 9  
**Gene silencing by RNA interference in models of de- and regeneration**  
*Chair: Paul Lingor and Nicole Déglon, Göttingen and Orsay (FR)*
- 9:00 - 12:00 Symposium 2, Hall 105  
**Experience-induced plasticity in the olfactory pathway: From single neurons to neural odor representation**  
*Chair: Jean-Christophe Sandoz and C. Giovanni Galizia, Toulouse (FR) and Konstanz*
- 9:00 - 12:00 Symposium 3, Hall 10  
**Neuronal dendrites: Synaptic function, plasticity and information processing**  
*Chair: Knut Holthoff and Arthur Konnerth, München*



- 9:00 - 12:00 Symposium 4, Hall 8  
**Structure and function of the vertebrate retina**  
*Chair: Oliver Biehlmaier and Stephan C. F. Neuhauss, Zurich (CH)*
- 9:00 - 12:00 Symposium 5, Hall 104  
**Cannabinoids and the nervous system: Different views on multiple actions**  
*Chair: Dirk Czesnik, Göttingen*
- 9:00 - 12:00 Symposium 6, Hall 102  
**The cortical nerve impulse**  
*Chair: Fred Wolf and Maxim Volgushev, Göttingen and Bochum*
- 12:00 – 12:45 **Lunch Break**
- 12:45 - 14:45 **Poster Session I: Posters A**  
 12:45 - 13:45 Odd serial numbers  
 13:45 - 14:45 Even serial numbers
- 14:45 - 15:00 **Opening Ceremony, Hall 11**
- 15:00 - 16:00 **Plenary Lecture, Hall 11**  
*Chair: Kerstin Kriegelstein, Göttingen*  
 Christof Niehrs, Heidelberg  
**Casein kinase 1 gamma couples Wnt receptor activation to cytoplasmic signal transduction**
- 16:00 - 18:00 **Poster Session II: Posters A**  
 16:00 - 17:00 Odd serial numbers  
 17:00 - 18:00 Even serial numbers
- 18:00 - 19:00 **Plenary Lecture, Hall 11 (K.J. Zülch Lecture)**  
*Chair: Mathias Bähr, Göttingen*  
 Hans Lassmann, Vienna (AT)  
**Success and failure of translational research: The example of multiple sclerosis**
- 19:00 - 20:00 **Cold Buffet In the Foyer**



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- 20:00 - 21:00 **Plenary Lecture, Hall 11**  
*Chair: Brigitte Rockstroh, Konstanz*  
 Niels Birbaumer, Tübingen  
**Breaking the silence: Brain-computer-interface research and paralysis**

## Friday, March 30, 2007

- 9:00 - 12:00 **Symposia II (S 7 - S 12)**  
 9:00 - 12:00 Symposium 7, Hall 10  
**Molecular aspects of synapse function and dysfunction in the mammalian brain**  
*Chair: Matthias Kneussel, Hans-Jürgen Kreienkamp, and Stefan Kindler, Hamburg*
- 9:00 - 12:00 Symposium 8, Hall 105  
**Olfactory development: Common principles and differences across phyla**  
*Chair: Joachim Schachtner and Wolfgang Rössler, Marburg and Würzburg*
- 9:00 - 12:00 Symposium 9, Hall 102  
**Recent advances in the use of cell penetrating peptides**  
*Chair: Gunnar P.H. Dietz, Göttingen*
- 9:00 - 12:00 Symposium 10, Hall 8  
**Generating rhythmic movement: From microcircuits to complex motor programs**  
*Chair: Ansgar Büschges and Hans-Joachim Pflüger, Köln and Berlin*
- 9:00 - 12:00 Symposium 11, Hall 104  
**Brain tumors**  
*Chair: Rainer Glass and Michael Synowitz, Berlin*
- 9:00 - 12:00 Symposium 12, Hall 9  
**Computational models of vision**  
*Chair: Laurenz Wiskott and Gustavo Deco, Berlin and Barcelona (ES)*



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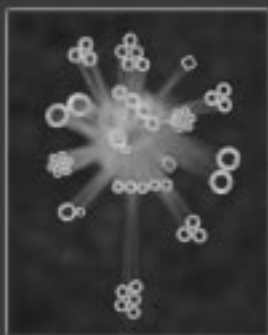
- 12:00 - 13:00 Lunch Break**
- 13:00 - 15:00 Poster Session III: Posters B**  
 13:00 - 14:00 Odd serial numbers  
 14:00 - 15:00 Even serial numbers
- 15:00 - 16:00 Awarding and Lectures, Hall 11**  
*Chair: Andreas Faissner, Bochum*  
 Thomas Misgeld, Martinsried  
 (Schilling Research Award Lecture)  
**In vivo imaging of axon development and degeneration**
- Chair: Christine Rose, Düsseldorf*  
 Werner Goebel, Zürich (CH)  
 (TILL photonics Prize Lecture)  
**Imaging cellular network dynamics in three dimensions using fast 3D laser scanning**
- 16:00 - 18:00 Poster Session IV: Posters B**  
 16:00 - 17:00 Odd serial numbers  
 17:00 - 18:00 Even serial numbers
- 18:00 - 19:00 Cold Buffet in the Foyer**
- 19:00 - 20:00 Plenary Lecture, Hall 11 (Roger Eckert Lecture)**  
*Chair: Erwin Neher, Göttingen*  
 Rodolfo Llinas, New York (USA)  
**Intrinsic electrical properties of neurons: Their role in global brain function**

## Saturday, March 31, 2007

- 9:00 - 12:00 Symposia III (S 13 - S 18)**  
 9:00 - 12:00 Symposium 13, Hall 104  
**Functional role of nucleotide signaling in the nervous system**  
*Chair: Peter Illies and Herbert Zimmermann, Leipzig and Frankfurt/M.*
- 9:00 - 12:00 Symposium 14, Hall 9  
**Cell Intrinsic mechanisms in the regulation of neural development**  
*Chair: Dorothea Schulte and Dieter Engelkamp, Frankfurt/M.*

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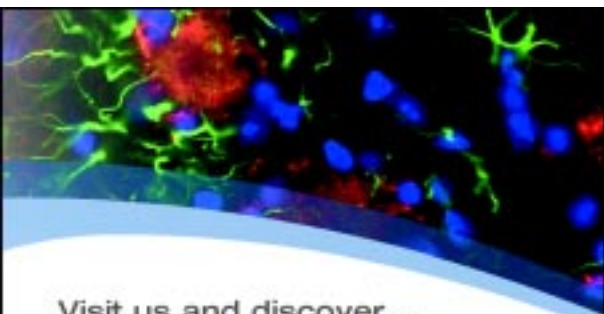


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- 9:00 - 12:00 Symposium 15, Hall 105  
**Microglia: Role in neurodegeneration and repair**  
*Chair: Harald Neumann and Marco Prinz, Bonn and Göttingen*
- 9:00 - 12:00 Symposium 16, Hall 10  
**Active sensing: How nervous systems explore the external world**  
*Chair: Martin Göpfert and Harald Luksch, Köln and Aachen*
- 9:00 - 12:00 Symposium 17, Hall 102  
**Genetics and molecular mechanisms of Parkinson's disease**  
*Chair: Marius Ueffing and Thomas Gasser, München-Neuherberg and Tübingen*
- 9:00 - 12:00 Symposium 18, Hall 8  
**Compositionality: Neuronal basis of complex behavior**  
*Chair: Theo Geisel and Moshe Abeles, Göttingen and Ramat Gan (IL)*
- 12:00 - 13:00 **Annual General Assembly of the Neurowissenschaftliche Gesellschaft (NWG) (Hall 11)**
- 13:00 - 15:00 **Poster Session V: Posters C**  
 13:00 - 14:00 Odd serial numbers  
 14:00 - 15:00 Even serial numbers
- 15:00 - 16:00 **Plenary Lecture, Hall 11 (Ernst Florey Lecture)**  
*Chair: Uwe Homberg, Marburg*  
 Gilles Laurent, Pasadena (USA)  
**Pattern learning and recognition: Lessons from small olfactory systems**
- 16:00 - 18:00 **Poster Session VI: Posters C**  
 16:00 - 17:00 Odd serial numbers  
 17:00 - 18:00 Even serial numbers



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18:00 – 19:00 **Cold Buffet in the Foyer**

19:00 - 20:00 **Plenary Lecture, Hall 11 (Otto Creutzfeldt Lecture)**  
*Chair: Klaus-Peter Hoffmann, Bochum*  
*Uwe Heinemann, Berlin*  
**Cellular mechanisms of memory consolidation in the hippocampal formation**

21:00 **Neuro-Disco-Night**

### Sunday, April 1, 2007

- 9:00 - 12:00 **Symposia IV (S 19 - S 24)**  
 9:00 - 12:00 Symposium 19, Hall 105  
**Spatial cognition: From rodents to humans**  
*Chair: Hanspeter A. Mallot and Johannes Thiele, Tübingen*
- 9:00 - 12:00 Symposium 20, Hall 104  
**The Drosophila NMJ: Unravelling principal mechanisms of synapse formation, function and plasticity**  
*Chair: Andreas Prokop and Stephan Sigrist, Manchester (UK) and Göttingen*
- 9:00 - 12:00 Symposium 21, Hall 10  
**Glia development: Molecular control of specification, migration, differentiation and myelination of oligodendrocytes and Schwann cells**  
*Chair: Michael Wegner, Erlangen*
- 9:00 - 12:00 Symposium 22, Hall 9  
**Real-time voltage-sensitive dye imaging of cortical network activities across sensory modalities**  
*Chair: Dirk Jancke and Hartwig Spors, Bochum and Heidelberg*



- 9:00 - 12:00 Symposium 23, Hall 102  
**Synchronization of circadian and neuronal oscillators**  
*Chair: Monika Stengl, Marburg*
- 9:00 - 12:00 Symposium 24, Hall 8  
**Do we know what the early visual system computes?**  
*Chair: Matthias Bethge and Christoph Kayser, Tübingen*
- 12:00 - 13:00 **Plenary Lecture, Hall 11**  
*Chair: Hermann Wagner, Aachen*  
Benedikt Grothe, München  
**New concepts in sound localization - inhibition matters**
- 13:00 **Departure**



# Neurowissenschaftliche Gesellschaft e.V.

## **Ziele**

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

## **Neuroforum**

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

## **Methodenkurse**

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

## **Rund-Mails und Stellenmarkt**

Einmal monatlich werden an alle Mitglieder mit eMail-Zugang Rund-eMails mit Informationen zu Drittmitteln, Stipendien, Stellenanzeigen u.a. verschickt.

## **Homepage**

Die Homepage informiert über Kongresse, bietet Links zu Institutionen, Förderinstitutionen, neurowissenschaftlichen Zeitschriften, informiert über Bezugsquellen und Produkte und die Aktivitäten der Gesellschaft (<http://nwg.glia.mdc-berlin.de>).

## **Kongresse**

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

## **Stipendien**

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

## **Förderpreise**

Die Gesellschaft vergibt zweijährlich den mit 2.500 Euro dotierten TILL Photonics Technologie-Preis sowie den mit 20.000 Euro dotierten Schilling-Forschungspreis.

## **Freier Zugang zu EJM online**

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

## **Lehrerfortbildung**

Bundesweit werden mit finanzieller Unterstützung der Hertie-Stiftung Fortbildungsveranstaltungen für Lehrer der gymnasialen Oberstufe zu neurowissenschaftlichen Themen angeboten.

## **Slots für das SFN-Meeting**

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

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

## **Mitgliedschaft**

Mitglied der Gesellschaft kann werden, wer auf einem Gebiet der Neurowissenschaften oder in verwandten Fächern tätig ist. Das Aufnahmegesuch ist mit der Befürwortung von zwei Mitgliedern der Gesellschaft an die Geschäftsstelle zu richten, über die Aufnahme entscheidet der Vorstand. Der Mitgliedsbeitrag für Studenten beträgt 25 Euro, für Vollmitglieder 50 Euro pro Jahr.

## Geschäftsstelle

Neurowissenschaftliche  
Gesellschaft e.V.

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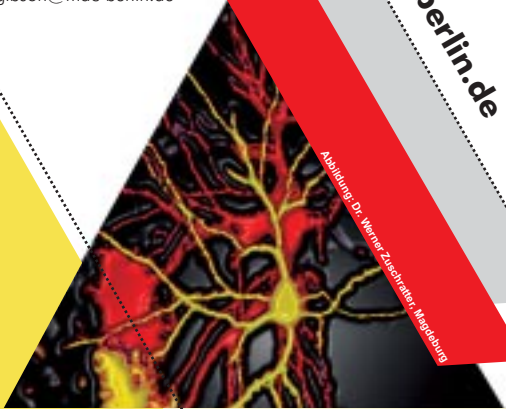


Abbildung: Dr. Werner Züschrater, Magdeburg

## Sektionssprecher

*Computational Neuroscience:*

Klaus Pawelzik

*Entwicklung/Neurogenetik:*

Sigrun Korsching

*Klinische Neuwissen-*

*Schaften:*

Hans-Peter Hartung

*Molekulare Neurobiologie:*

Hans Werner Müller

*Neuropharmakologie/*

*-toxikologie:*

Werner J. Schmidt

*Systemneurobiologie:*

Hermann Wagner

*Zelluläre Neurobiologie:*

Arthur Konnerth

*Kognitive Neurowissen-*

*schaften:*

Niels Birbaumer

*Verhaltensneuwissen-*

*schaften:*

Uwe Homberg

## Vorstand der Amtsperiode 2005-2007

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Klaus-Peter Hoffmann

*Vizepräsident:*

Mathias Bähr

*Schatzmeister:*

Andreas Draguhn

*Generalsekretär:*

Helmut Kettenman



## Plenary Lectures

**Christof Niehrs**, Heidelberg

Casein kinase 1 gamma couples Wnt receptor activation to cytoplasmic signal transduction (P1)

*Thursday, March 29, 2007, 15:00 – 16:00, Hall 11*

**Hans Lassmann**, Vienna (AT) (K. J. Zülch Lecture)

Success and failure of translational research: The example of multiple sclerosis (P2)

*Thursday, March 29, 2007, 18:00 – 19:00, Hall 11*

**Niels Birbaumer**, Tübingen

Breaking the silence and move your paralysed limb: Brain-Computer-Interfaces (BCI) (P3)

*Thursday, March 29, 2007, 20:00 – 21:00, Hall 11*

**Thomas Misgeld**, München (Schilling Prize Lecture)

*In vivo* imaging of axon development and degeneration (P4)

**Werner Goebel**, Zürich (CH) (TILL photonics Prize Lecture)

Imaging cellular network dynamics in three dimensions using fast 3D laser scanning (P5)

*Friday, March 30, 2007, 15:00 – 16:00, Hall 11*

**Rodolfo Llinas**, New York (USA) (Roger Eckert Lecture)

Intrinsic electrical properties of neurons: Their role in global brain function (P6)

*Friday, March 30, 2007, 19:00 – 20:00, Hall 11*

**Gilles Laurent**, Pasadena (USA) (Ernst Florey Lecture)

Pattern learning and recognition: Lessons from small olfactory systems (P7)

*Saturday, March 31, 2007, 15:00 – 16:00, Hall 11*

**Uwe Heinemann**, Berlin (Otto Creutzfeldt Lecture)

Cellular mechanisms of memory consolidation in the hippocampal formation (P8)

*Saturday, March 31, 2007, 19:00 – 20:00, Hall 11*

**Benedikt Grothe**, München

New concepts in sound localization – Inhibition matters (P9)

*Sunday, April 1, 2007, 12:00 – 13:00, Hall 11*



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## Introductory Remarks to Satellite Symposium 1

### Neurotropic viruses

*Bernd Heimrich and Martin Schwemmle, Freiburg*

Neurotropic viruses have attracted increasing attention not only because some of them cause severe human diseases, but also because they serve as model agents to study virus-induced disorders of the central nervous system.

In this symposium we will cover clinical aspects of human neurotropic viruses and efforts to establish animal models to identify the molecular determinants of invasiveness and neurotropism that are central for the understanding of virus-induced pathogenesis in the central nervous system. Furthermore, studies will be presented that illustrate the possibilities to study basic neuronal functions by using genetically manipulated neurotropic viruses. In addition, animal and ex-vivo models will be discussed that allow the study of neuronal plasticity and death. (Sat1)

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17:30 Daniel Gonzalez-Dunia, Romain Volmer, Elsa Suberbielle, André Garenne, Christine Prat and Gwendal Le Masson, Toulouse (FR) and Bordeaux (FR)

***Use of electrophysiology and proteomics to assess the bases of Borna disease virus interference with neuronal plasticity*** (Sat1-8)

18:00 Markus Rothermel, Nils Damann, Nicole Schöbel, Thomas C. Mettenleiter, Hanns Hatt and Christian H. Wetzel, Bochum and Insel Riems

***Bad virus – good guy. Usability of pseudorabies viruses as “live-cell” tracers in the trigeminal system*** (Sat1-9)

## Satellite Symposium 1

Wednesday, March 28, 2007

14:00 – 18:15, Hall 8

Chair: Bernd Heimrich and Martin Schwemmle, Freiburg

14:00 **Opening remarks** (Sat1-1)

14:10 Thomas Mertens, Ulm

**Neurotropic viruses – a serious problem for patients, clinicians and virologists**

(Sat1-2)

14:40 Jürgen Schneider-Schaulies, Sabine Schubert, Katrin Singethan, Paul W. Duprex and Bert K. Rima, Würzburg and Belfast (UK)

**Brain infections by measles virus: human disease and mouse model** (Sat1-3)

15:10 Christian W. Mandl, Vienna (AT)

**Molecular aspects of the life cycle of the flavivirus tick-borne encephalitis virus**

(Sat1-4)

15:40 Christian Sauder, Steven Rubin, Tahir Malik, Candie Wolbert, Paul Duprex and Kathryn Carbone, Bethesda (USA) and Belfast (UK)

**Dissecting determinants of mumps virus neurovirulence** (Sat1-5)

16:10 **Coffee Break**

16:30 Karl-Klaus Conzelmann, Stefan Finke, Ian Wickersham, Edward M. Callaway, Yvonne Klingen and Krzysztof Brzózka, München and La Jolla (USA)

**Recombinant rabies viruses as a tool to study neurobiology** (Sat1-6)

17:00 Martin Schwemmle, Heike Fischer, Daniel Mayer, Sonja Schmid and Bernd Heimrich, Freiburg

**Rat strain specific differences in dentate granule cell death after neonate Borna disease virus infection in vivo and in vitro** (Sat1-7)



## Introductory Remarks to Satellite Symposium 2

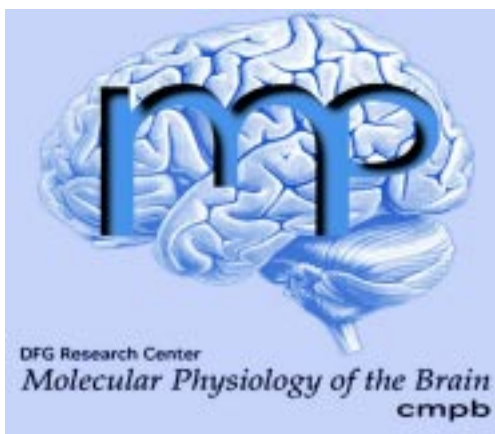
# Ion transport in the brain and beyond: From function to genes

*Eleni Roussa, Göttingen*

Ionic and pH homeostasis are prerequisites for normal cerebral activity. Electrical signaling in neurons is based on the coordinated parallel or sequential action of ion pumps, carriers and channels and is associated with rapid pH shifts. In the post-genomic era, molecular insights have complemented early biophysical studies and revealed new additions to the list of physiological functions of key molecules in the brain and beyond.

This symposium attends to highlight important recent findings on key players for ionic homeostasis and pH regulation in the brain from a functional and molecular viewpoint. In this context, developmental, physiological and pathophysiological aspects will be addressed. (Sat2)

*Sponsored by*





## Satellite Symposium 2

Wednesday, March 28, 2007  
15:00 - 18:00, Hall 9

Chair: Eleni Roussa, Göttingen

15:00 **Opening remarks** (Sat2-1)

15:05 Seth L. Alper, Boston (USA)  
**Extraneuronal pathophysiology of K-Cl cotransport** (Sat2-2)

15:35 Claudio Rivera, Helsinki (FI)  
**On the mechanisms of developmental up-regulation of KCC2** (Sat2-3)

16:05 Akos Kulik, Freiburg  
**Compartment-dependent colocalization of G-protein-coupled inwardly rectifying K<sup>+</sup> channels and GABA<sub>B</sub> receptors in hippocampal pyramidal cells** (Sat2-4)

16:35 **Coffee Break**

17:00 Joachim W. Deitmer, Kaiserslautern  
**Cytosolic Ca<sup>2+</sup> oscillations and store-operated Ca<sup>2+</sup> entry in astrocytes and neurons** (Sat2-5)

17:30 Sebastian Schuchmann, Berlin  
**Developmental changes in CO<sub>2</sub> sensitivity and brain pH regulation: Effects on neuronal excitability** (Sat2-6)



## Introductory remarks to Satellite Symposium 3

# Neural stem cells and neuronal specification

*Tanja Vogel and Andreas Wodarz, Göttingen*

Neural stem cells are considered to have a high therapeutical potential for treatment of neurodegenerative diseases. But so far their actual application to patients is only limited, since it is a prerequisite to understand first the basis of stem cell biology. Great efforts are undertaken to explore the biochemical functions of stem cells, whose extraordinary potential is apparently mediated through a complicated network of multiple factors. Not only the identification of participating proteins of such networks but also their functional interaction is a major task in today's investigation of stem cell biology.

This symposium will give insight into fundamental findings regarding key processes of neural stem cell behaviour. We will focus on neural stem cells that have been isolated from different sources like the retina and forebrain, as well as neural crest derived cells implicated in the development of the peripheral and autonomic nervous systems. We will discuss recent results unraveling e.g. the dependence of neural stem cells on signals of different growth and transcription factors for survival and differentiation. Furthermore we will highlight the involvement of extracellular matrix proteins for the functioning of stem cells and their implication in neuronal repair. The investigation of CNS stem cell implication into tumor formation, recurrence and progression will bring together basic and clinical research. (Sat3)

## Satellite Symposium 3

Wednesday, March 28, 2007

14.00 - 19.00, Hall 10

Chair: Tanja Vogel and Andreas Wodarz, Göttingen

14.00 *Tanja Vogel and Andreas Wodarz, Göttingen*  
**Opening Remarks** (Sat3-1)

14.05 Melitta Schachner, Hamburg  
**Cell adhesion molecules, stem cells and neural repair** (Sat3-2)

14.50 Hermann Rohrer, Frankfurt/M.  
**Development of autonomic neurons: Extrinsic signals and transcriptional control** (Sat3-3)

15.35 Lukas Sommer, Zurich (CH)  
**Mechanisms regulating proliferation and fate decisions in neural stem cells** (Sat3-4)

16.20 **Coffee Break**

16.45 Yvan Arsenijevic, Lausanne (CH)  
**Different roles for Bmi1 in the control of neural stem cell competence** (Sat3-5)

17.30 Suzana Atanasoski, Basel (CH)  
**Ski in neural development and repair** (Sat3-6)

18.15 Bjorn Scheffler, Anthony T. Yachnis, Shanshan Wang, Daniel J. Silver, Tong Zheng, Timothy M. Shepherd, A. Katrin Goetz, David Pincus, Oliver Brüstle and Dennis A. Steindler, Bonn and Gainesville, FL (USA)  
**On the origin of brain tumors - critical evaluation of the neuroplastic stem cell premise** (Sat3-7)



## Introductory Remarks to Symposium 1

# Gene silencing by RNA interference in models of de- and regeneration

*Paul Lingor and Nicole Déglon, Göttingen and Orsay (FR)*

The symposium is intended to give an overview on the implementation of RNA interference in the context of neurode- and -regeneration. An introductory talk will summarize the discovery and the principles of RNA interference. The following contributions will give examples of *in vitro* and *in vivo* implementation of the technique in models of neurodegenerative diseases and regenerative paradigms. The use of viral vectors and different transfection techniques will be highlighted as well as the utilization of animal models including nematodes, rodents and primates. (S1)

*Sponsored by DFG Forschungszentrum Molekularphysiologie des Gehirns (ZMPG), INVITROGEN GmbH and QIAGEN GmbH*

## Symposium 1

Thursday, March 29, 2007  
9.00 – 12.00, Lecture Hall 9

Chair: Paul Lingor and Nicole Déglon,  
Göttingen and Orsay (FR)

- 9:00 **Opening remarks** (S1-1)
- 9:00 Tom Tuschl, New York (USA):  
***Mechanisms of small-RNA-mediated gene regulation in mammals*** (S1-2)
- 9:25 Ann Logan and Martin Berry, Birmingham (UK)  
***Disinhibition of regenerating retinal ganglion cells by gene silencing*** (S1-3)
- 9:50 Paul Lingor, Veronique Planchamp, Uwe Michel, Lars Tönges, Sebastian Kügler and Mathias Bähr, Göttingen  
***Targeting apoptosis and regeneration of CNS neurons by RNAi in vivo and in vitro*** (S1-4)
- 10:15 **Coffee Break**
- 10:45 Nicole Déglon, Orsay (FR)  
***Lentiviral-mediated silencing of mutated and endogenous wild-type huntingtin in rodent models of Huntington's disease*** (Sat1-5)
- 11:10 Cedric Raoul, Lausanne (CH)  
***Lentiviral vector and adeno-associated vector-based therapy for motoneuron disease through RNA interference*** (Sat1-6)
- 11:35 Stefan Eimer, Göttingen  
***Conserved genetic interactions in membrane trafficking identified by synthetic lethality analysis*** (Sat1-7)



## Introductory Remarks to Symposium 2

# Experience-induced plasticity in the olfactory pathway: From single neurons to neural odor representation

*Jean-Christophe Sandoz and C. Giovanni Galizia, Toulouse (FR) and Konstanz*

Olfaction plays a major role in the organization of feeding, mating or social behaviours in most animal species. Some behaviours involve genetically predetermined odour signals that rely on highly-specialized olfactory sub-systems. But most behaviours rely on complex olfactory signals that are permanently changing, and survival often depends on the ability to learn to associate the relevant odours with their positive or negative outcome. How the general olfactory system copes with this problem is the subject of the symposium. In recent years, the development of optical imaging techniques has allowed, together with electrophysiology, molecular genetics and behaviour, to progress significantly in our understanding of olfactory processing and neural odour representation in model systems like mice, drosophila and honeybees. Based on this knowledge, research has increasingly turned to the question of the olfactory system's plasticity. Thus, several studies have pointed out remarkable changes taking place after olfactory experience within the olfactory bulb of vertebrates or the antennal lobe of insects, modifying primary olfactory centers both anatomically and in their odour-evoked activity. However, a crucial question remains concerning the interpretation of such changes: do they reflect an olfactory memory engraving, being by-products of storage mechanisms, or are they related to modifications of local computations, modulating for instance the neural representation of learned odours making them more discernible from other stimuli? The symposium will bring together key neuroscientists in this quickly-evolving research field, who use electrophysiological and optical imaging methods both on single neurons and on whole neuronal networks, in the search for experience-induced changes in the structure and/or activity of olfactory centers. Presentations from scientists working on vertebrate and invertebrate models will provide cross-phyla exchanges on the commonalities and/or differences between models of olfactory plasticity. (S2)

## Symposium 2

Thursday, March 29, 2007

9:00 – 12:00, Hall 105

Chair: Jean-Christophe Sandoz and C. Giovanni Galizia,  
Toulouse (FR) and Konstanz

- 9:00 **Opening remarks** (S2-1)
- 9:05 Ronald L. Davis, Houston, Texas (USA)  
**Visualizing olfactory memories in *Drosophila* by optical imaging** (S2-2)
- 9:25 Paul Szyszka, Ryuichi Okada, Alexander Galkin and  
Randolf Menzel, Konstanz, Sapporo (JP) and Berlin  
**Olfactory learning effects measured in  
the honeybee mushroom bodies** (S2-3)
- 9:45 Pierre-Marie Lledo, Paris (FR)  
**Integrating new neurons into adult  
olfactory system** (S2-4)
- 10:05 Thomas Knöpfel, Wako-shi, Saitama (JP)  
**Synaptic plasticity in the olfactory bulb** (S2-5)
- 10:25 **Coffee Break**
- 10:40 Andre Fiala, Würzburg  
**Visualization of odour and reinforcer re-  
presentations in the *Drosophila* brain: an  
imaging approach towards olfactory me-  
mory traces** (S2-6)
- 11:00 Silke Sachse, Andreas Keller, Ryuichi Okada,  
Nobuaki Tanaka, Kei Ito and Leslie B. Vosshall,  
Jena, New York (USA) and Tokyo (JP)  
**Carbon dioxide mediates specific synaptic and  
behavioral adaptation in *Drosophila*** (S2-7)
- 11:20 Jean-Christophe Sandoz, Edith Roussel, Vanina  
Vergoz and Martin Giurfa, Toulouse (FR)  
**Plasticity of odour-evoked activity in the  
honeybee antennal lobe: coupled aversive  
conditioning and calcium imaging** (S2-8)
- 11:40 Giovanni Galizia, Roberto F. Galan and Philipp  
Peele, Konstanz, Pittsburgh (USA) and Berlin  
**Learning in the insect antennal lobe: how  
much plasticity can bees bear?** (S2-9)



## Introductory Remarks to Symposium 3

# Neuronal dendrites: Synaptic function, plasticity and information processing

*Knut Holthoff and Arthur Konnerth, München*

During the last decade the active properties of mammalian dendrites have become an important scientific focus. Active conductances in dendrites of pyramidal neurons can shape the integration of synaptic signals and are even capable to induce regenerative events. Besides sodium-based action potentials, which can propagate throughout the dendritic tree, neocortical pyramidal neurons can also sustain dendritic spikes that are spatially restricted. We want to highlight newly discovered functions of the dendritic tree of neurons for the integration of synaptic signals and its involvement in synaptic plasticity and signal integration. (S3)



## Symposium 3

Thursday, March 29, 2007

9:00 – 12:00, Hall 10

Chair: Knut Holthoff and Arthur Konnerth, München

9:00 **Opening remarks** (S3-1)

9:05 Jackie Schiller, Haifa (IL)

**Plasticity compartments in basal dendrites of neocortical pyramidal neurons** (S3-2)

9:45 Guy Major, Alon Polsky, Jackie Schiller, Winfried Denk and David Tank, Cardiff (UK), Haifa (IL), Heidelberg and Princeton (USA)

**Spatio-temporally graded NMDA Spike/Plateau potentials in basal dendrites of neocortical pyramidal neurons** (S3-3)

10:25 **Coffee Break**

10:40 Nace L. Golding, Paul J. Mathews and Luisa L. Scott, Austin (USA)

**Dendritic and axonal properties for high-frequency temporal coding in auditory neurons** (S3-4)

11:20 Knut Holthoff, Yury Kovalchuk and Arthur Konnerth, München

**Bidirectional single-shock synaptic plasticity in cortical neurons induced by dendritic spikes** (S3-5)



## Introductory Remarks to Symposium 4

# Structure and function of the vertebrate retina

*Oliver Biehlmaier and Stephan C. F. Neuhauss, Zurich (CH)*

After the seminal work by Ramon y Cajal at the end of the 19th and especially since the late sixties of the last century our understanding of the retina as an approachable part of the brain (Dowling JE, 1987) has largely improved. Many cell types and a lot of pathways have been described in many different species and thus contributed to our impressive amount of information on the retina. One of the big advantages of the retina is its accessibility as a peripheral part of the CNS where complex structures and circuits can be studied. However, many details on synaptic structure and function of specific cell populations of the vertebrate retina, like photoreceptors, bipolar cells, or ganglion cells still remain unsolved. Recent research has fostered our understanding of retinal structure and function to a large extent. The symposium will start by a talk by Helmut Brandstätter and coworkers who will provide new insights into the structure and function of the very first synapse in the visual system: the photoreceptor ribbon synapse. The following talks will then tackle the signal transmission and especially the feedback mechanism between photoreceptors and horizontal cells. Maarten Kamermans and colleagues will explain the complex negative feedback mechanism from horizontal cells to cones which is influenced by glutamate-gated channels, and Andreas Feigenspan and colleagues will focus on the ionic basis of horizontal cell function. Next, Silke Haverkamp and her colleagues will introduce us to new morphological types of bipolar cells in the mouse retina and their synaptic plasticity, thus providing us with new information about one of the largest cell populations in the retina. New functional insights into dendritic processing in the direction-selective circuitry of the retina will then be given by Susanne Hausselt and colleagues. Finally, Oliver Biehlmaier and coworkers will provide new data on retinal structure and function found in the zebrafish by genetic means. (S4)

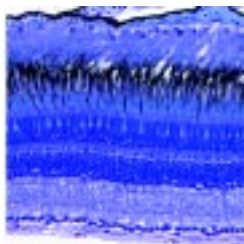
## Symposium 4

Thursday, March 29, 2007

9:00 – 12:00, Hall 8

Chair: Oliver Biehlmaier and  
Stephan C. F. Neuhauss, Zürich (CH)

- 9:00 Johann Brandstätter, Hanna Regus-Leidig, Dana Specht and Susanne tom Dieck, Erlangen  
***Dissecting the structure and function of retinal ribbon synapses*** (S4-1)
- 9:25 Maarten Kamermans, Amsterdam (NL)  
***Inhibition in the outer retina: mechanism and function*** (S4-2)
- 9:50 Andreas Feigenspan and Reto Weiler, Oldenburg  
***The ionic basis of horizontal cell function*** (S4-3)
- 10:15 ***Coffee Break***
- 10:45 Silke Haverkamp, Frankfurt/M.  
***Bipolar cells of the mouse retina: Types and functions*** (S4-4)
- 11:10 Susanne E. Hausselt, Thomas Euler, Peter B. Detwiler and Winfried Denk, Heidelberg and Seattle (USA)  
***Dendritic processing in the direction-selective circuitry of the retina*** (S4-5)
- 11:35 Oliver Biehlmaier, Zürich (CH)  
***Genetic approach to study structure and function of the zebrafish retina*** (S4-6)



Adult  
zebrafish  
retina



## ***Introductory Remarks to Symposium 5***

# **Cannabinoids and the nervous system: Different views on multiple actions**

*Dirk Czesnik, Göttingen*

The derivatives of *Cannabis sativa* have been used medicinally and recreationally for thousands of years. Over the last two decades our knowledge of the chemistry and physiology of endocannabinoids increased enormously. As the endocannabinergic system is one of the most abundant neuromodulation system its effects on the functionality of the nervous system are inspiring manifold. Endocannabinoids are able to influence cognition, memory, perception and motor activity, to mention only a few of its effects. Though there are several molecular mechanisms described in many brain regions the connection to the systemphysiological effects are at large not clear. The goal of this symposium is to summarize important recent findings concerning both molecular effects and their systemic consequences in physiological, pathophysiological and pharmaceutical aspects. It will be most interesting to compare and discuss results obtained using different functional subsystem of the nervous system in different animal models. (S5)

## **Symposium 5**

Thursday, March 29, 2007

9:00 – 12:00, Hall 104

Chair: Dirk Czesnik, Göttingen

- 9:00 **Opening remarks:**  
*Ivan Manzini, Dirk Czesnik (S5-1)*
- 9:05 Stephen Yazulla and Shih-fang Fan, Stony Brook (USA)  
***Endocannabinoid retrograde modulation of retinal photoreceptors (S5-2)***
- 9:30 Abdel El Manira, Stockholm (SE)  
***Endocannabinoid-mediated short- and long-term plasticity of the spinal circuitry (S5-3)***
- 9:55 Dirk Czesnik, Ivan Manzini and Detlev Schild, Göttingen  
***Cannabinoid action in the olfactory system of *Xenopus laevis* tadpoles (S5-4)***
- 10:15 **Coffee Break**
- 10:45 Vincenzo Di Marzo, Pozzuoli (IT)  
***Endocannabinoid control of energy balance: Food Intake and beyond (S5-5)***
- 11:10 Carsten T. Wotjak, München  
***The Yin and Yang of endocannabinoid action in fear and anxiety (S5-6)***
- 11:35 Maulik Durgeshbhai Jhaveri, Nottingham (UK)  
***Cannabinoids in neuropathic and inflammatory pain (S5-7)***



## Introductory Remarks to Symposium 6

# The cortical nerve impulse

*Fred Wolf and Maxim Volgushev, Göttingen and Bochum*

Recent progress in cortical physiology and theoretical neuroscience calls for a reevaluation of our view of cortical action potentials (APs). This symposium will bring together scientists addressing the functional role of APs using combinations of advanced theoretical and experimental approaches to present recent research achievements on the biophysics, cellular physiology and computational role of AP generation in cortical cells and networks.

Action potentials are electrical pulses that are actively generated by neurons and can propagate unattenuated along axons for distances up to the meter range. Therefore it is traditionally assumed that the primary purpose of APs is to enable long distance communication among neurons. AP generation, however, also provides a highly nonlinear operation that fundamentally expands the information processing capabilities of neuronal networks. Because APs are relatively expensive in terms of metabolic cost, one expects substantial evolutionary pressure to use APs sparsely and in a computationally optimal fashion. Recently, it was discovered that apparently minor modifications of the AP generating mechanism of a neuron can qualitatively change the nature of neuronal encoding. In particular, computational analyses showed, that conventional Hodgkin-Huxley type AP initiation mechanisms impose severe constraints on the encoding capabilities of neural networks, especially when rapidly changing stimuli need to be processed. These theoretical results are complemented by novel neurophysiological data on biophysical mechanisms of AP initiation, precise spatial localisation of the AP initiation zone, the interplay of different neuronal compartments in AP encoding, adaptation of neuronal encoding, and on the impact of individual APs on behavioral reactions of the animal. (S6)

## Symposium 6

Thursday, March 29, 2007

9:00 – 12:00, Hall 102

Chair: Fred Wolf and Maxim Volgushev,  
Göttingen and Bochum

- 9:00 Michael Brecht, Berlin  
***Reverse physiology of action potentials in the vibrissal system*** (S6-1)
- 9:25 Carl van Vreeswijk, Paris (FR)  
***An analytically tractable model of a spatially extended spiking neuron*** (S6-2)
- 9:50 Michael Hausser and Jesper Sjöström, London (UK)  
***A dendritic switch for synaptic plasticity in neocortical pyramidal cells*** (S6-3)
- 10:15 ***Coffee Break***
- 10:45 Kenneth D. Miller, Michael P. Stryker and Tatyana Sharpee, New York (USA) and San Francisco (USA)  
***Adaptation of coding to input statistics in V1*** (S6-4)
- 11:10 Ilya A. Fleidervish, Rehovot (IL)  
***Axonal sodium channels control excitability of cortical pyramidal neurons*** (S6-5)
- 11:35 Maxim Volgushev, Pavel Balaban, Marina Chistiakova, Aleksey Malyshev, Stanislav Volgushev and Fred Wolf, Bochum, Moscow (RUS) and Göttingen  
***Unique features of action potential initiation in neocortical neurons*** (S6-6)



## Introductory Remarks to Symposium 7

# Molecular aspects of synapse function and dysfunction in the mammalian brain

*Matthias Kneussel, Hans-Jürgen Kreienkamp and Stefan Kindler, Hamburg*

The aim of the symposium is to discuss various aspects of synaptic function and dysfunction in the mammalian central nervous system. Mutation in genes encoding synaptic proteins are associated with a wide range of human disease ranging from epilepsy to mental retardation and autism. The trafficking of molecular components toward the pre- and postsynaptic compartment, as well as the function of protein complexes at the axo-dendritic contact site are in focus of the proposed topics. Eckart D. Gundelfinger (Leibniz Institute of Neurobiology, Magdeburg) will discuss aspects of presynaptic active zone formation and function, including mouse models addressing the role of the cytomatrix proteins bassoon and piccolo. Michael Frotscher (University of Freiburg, Medical School) will continue with new data on synaptopodin, an actin-binding protein thought to participate in morphological adaptations of dynamic spine structures underlying the regulation of synaptic strength. A particular challenge for neuronal cells is to provide fast protein turnover at synaptic sites. Carlo Sala (CNR Institute for Neuroscience, Milano) will describe how modifications in spine number and morphology are regulated by synaptic activity through specific control of the translation of dendritically localized mRNAs. Stefan Kindler (University of Hamburg, Medical School) will discuss the aspect of dendritic mRNA transport, which is required for local protein synthesis at distal dendrites. This will be complemented by Matthias Kneussel (Center for Molecular Neurobiology Hamburg) who will present data about motor protein-driven transport complexes underlying anterograde and retrograde transport of neurotransmitter receptors toward and from postsynaptic sites. The symposium will be concluded by consequences of neuronal dysfunction analysed with mouse mutants of K-Cl cotransporters, which regulate different aspects of chloride concentrations in neurons. Thomas J. Jentsch (Leibniz Institut für Molekulare Pharmakologie und Max Delbrück Zentrum Berlin) will illustrate how K-Cl proteins underlie the regulation of synaptic inhibition. (S7)



## Symposium 7

Friday, March 30, 2007

9:00 – 12:00, Hall 10

Chair: Matthias Kneussel, Hans-Jürgen Kreienkamp  
and Stefan Kindler, Hamburg

- 9:00 **Opening remarks** (S7-1)
- 9:05 Eckart D. Gundelfinger, Magdeburg  
**Molecular assembly of the active zone**  
(S7-2)
- 9:30 Michael Frotscher, Freiburg  
**Role for the spine apparatus organelle in synaptic plasticity** (S7-3)
- 9:55 Carlo Sala, Milano (IT)  
**Activity and translational dependent regulation of spines morphology** (S7-4)
- 10:20 **Coffee Break**
- 10:45 Stefan Kindler, Hamburg  
**Dendritic mRNA transport: Cis-elements, trans-factors and motor proteins** (S7-5)
- 11:10 Matthias Kneussel, Hamburg  
**Neuronal cotransport of glycine receptor and the scaffold protein gephyrin** (S7-6)
- 11:35 Thomas J. Jentsch, Berlin  
**KCl cotransport, cytoplasmic chloride and GABA response: insight from KO animals** (S7-7)



## Introductory Remarks to Symposium 8

# Olfactory development: Common principles and differences across phyla

*Joachim Schachtner and Wolfgang Rössler, Marburg and Würzburg*

The primary integration centers for olfactory information in the brain of vertebrates (olfactory bulb) and insects (antennal lobe) not only share their principal morphological organization into so called olfactory glomeruli, but also a number of basic physiological properties with respect to information processing. Glomeruli represent functional units for odor processing containing thousands of synapses between olfactory receptor neurons (ORNs) from the olfactory epithelium / antenna and neurons of the olfactory bulb / antennal lobe. Each glomerulus receives input from ORNs expressing particular odorant receptors. Odors are finally encoded by activation patterns of defined sets of glomeruli, resulting in a spatial odor map and a chemotopic representation of odor information in the brain.

Despite great efforts of many groups working with various animal models over the years, it is still not clear how these odor maps form during development, how the neuronal network in and between the glomeruli is established. Comparative approaches on the formation of chemotopic maps in olfactory systems are not only important for understanding general principles in the wiring of brains, but also become more and more of public interest as the importance of olfaction for ecosystems and human health and wellness emerges. In this symposium we compare knowledge on the ontogeny of the olfactory bulb and the antennal lobe from four important model systems for olfactory development - mouse, zebrafish, fruitfly and sphinx moth. Four representative speakers, well known in their fields will give state of the art insights into olfactory system development in the four animal models. The organizers will add an introduction and a conclusion to underline similarities and obvious differences obtained from the different systems. Leslie Tolbert will summarize recent work in the sphinx moth on problems of receptor-axon sorting and glomerular targeting. Gregory Jefferis will discuss the logic of wiringspecificity in the *Drosophila* antennal lobe and compares this with other insects and vertebrates. Jörg

## Symposium 8

Friday, March 30, 2007  
9:00 – 12:00, Hall 105

Chair: Joachim Schachtner and Wolfgang Rössler,  
Marburg and Würzburg

9:00 **Opening Remarks** (S8-1)

9:10 Leslie P. Tolbert, Lynne A. Oland, Nicholas J. Gibson, Mark R. Higgins and Alan Nighorn, Tucson (USA)

**Molecular basis of bidirectional neuron-glia signaling in the developing olfactory system of the moth *Manduca sexta*** (S8-2)

9:45 Gregory S. X. E. Jefferis, Cambridge (UK)  
**How the fly's brain knows what the fly's nose knows** (S8-3)

10:20 **Coffee Break**

10:40 Jörg Strotmann, Olga Levai, Sidonie Conzelmann, Karin Schwarzenbacher, Jörg Fleischer and Heinz Breer, Stuttgart

**Brain targeting and glomerulus formation of olfactory neuron populations in mouse** (S8-4)

11:15 Sigrun I. Korsching, Köln  
**Developmental control of zebrafish olfactory receptor gene repertoires and odor responses** (S8-5)

11:50 **Concluding Remarks** (S8-6)

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Strotmann will give latest insights on developmental expression patterns of odorant receptors and projection patterns of ORN axons in the mouse olfactory bulb. Sigrun Korsching will highlight recent work on the expression of odorant receptors during development of the zebrafish olfactory pathway. (S8)



## Introductory Remarks on Symposium 9

# Recent advances in the use of cell penetrating peptides

*Gunnar P. H. Dietz, Göttingen*

Over the last 15 years, many publications described the use of peptide sequences that have been dubbed cell penetrating peptides (CPP), Trojan horse peptides, protein transduction domains, or membrane-translocating sequences. These mostly positively charged domains bring attached cargo across biological membranes. One of the reasons for the interest in CPP is their potential as delivery tools to enhance the pharmacodynamics of drugs otherwise poorly bioavailable. In particular, the neuroscientist aiming to deliver a protein or other compounds into the brain for analytical or therapeutic reasons is faced with the challenge that few drugs cross the blood-brain barrier. CPP are valuable tools to overcome the plasma membrane or the blood-brain barrier in basic research, and in relevant models of neural disease, and will hopefully help to increase the precious few treatments or even cures for people with diseases of the brain and nervous system. In this symposium, the most acclaimed pioneers and world leaders of the field will give an update on recent developments using cell penetrating peptides. Astrid Gräslund examines the structure, dynamics, interaction and function of cell penetrating peptides and their cargo, by high resolution NMR, EPR and optical spectroscopy including CD and fluorescence. Steven F. Dowdy heads the innovations on CPP derived from the HIV-Tat protein in cell cycle, cancer, and the mechanism of cell penetration. Alain Prochiantz leads the development of homeodomain-derived peptides as delivery tools and studies the physiological significance of homeoprotein transduction. Roland Brock will address the mechanism of uptake of cationic CPPs, cytotoxic effects, the interference with cellular signalling and the dependence of uptake on fluorescent reporter groups and on the peptide cargoes. (S)

*With generous support from the DFG Research Center for Molecular Physiology of the Brain (CMPB)*



## Symposium 9

Friday, March 30, 2007  
9:00 – 12:00, Hall 102

Chair: Gunnar P.H. Dietz, Göttingen

- 9:00 Roland Brock, Nijmegen (NL)  
***The import mechanism of cationic cell-penetrating peptides and its implications for the cellular delivery of inhibitors of signal transduction (S9-1)***
- 9:40 Astrid Gräslund, Stockholm (SE)  
***Biophysical studies of cell penetrating peptides (S9-2)***
- 10:20 **Coffee Break**
- 10:40 Steven Dowdy, La Jolla (USA)  
***PTD-DRBD mediated delivery of macromolecular siRNA therapeutics (S9-3)***
- 11:20 Alain Louis Prochiantz, Paris (FR)  
***A new signaling mechanism based on the presence of natural transduction domains (S9-4)***





## Introductory Remarks to Symposium 10

# Generating rhythmic movement: From microcircuits to complex motor programs

*Ansgar Büschges and Hans-Joachim Pflüger, Köln and Berlin*

A primary function of the central nervous system is the generation of motor programs, many of which are rhythmic, like breathing, chewing or locomotion. Recent results have unravelled new insights into the organization and operation of the microcircuits underlying the generation of rhythmic motor programs. Firstly, recent studies emphasize that a functional partitioning of neural networks generating rhythmic motor outputs exists. There is one level generating rhythmicity and another level generating the actual output pattern of the circuits. Further subdivisions are observed with respect to the functional organisation of the output stage. For example, the segmentation of a locomotor organ can form independent subunits that are coordinated in a flexible fashion to form complex motor outputs. The symposium will dwell on recent advances in the construction of central pattern generators and to what extent „microcircuits within the CNS“ can be used as „common building blocks“ of network operation and network formation. The symposium will start with basic new findings in the lamprey spinal cord (Cangiano). It will then place these findings in the light of new results on development (Simmers), coordination (Mentel) and neuromodulation (Pflüger, Stein) and the generation of targetted limb movements (Matheson) within neural networks generating rhythmic movements. (S10)

## Symposium 10

Friday, March 30, 2007

9:00 – 12:00, Hall 8

Chair: Ansgar Büschges and Hans-Joachim Pflüger,  
Köln and Berlin

- 9:00 **Opening remarks** (S10-1)
- 9:05 Lorenzo Cangiano, Pisa (IT)  
**Organization of central pattern  
generating networks in the lamprey  
spinal cord** (S10-2)
- 9:35 John Simmers, Aude Rauscent, Marie-Jeanne  
Cabirol-Pol, Didier Le Ray and Denis Combes,  
Bordeaux (FR)  
**From tail- to limb-based swimming:  
development of amphibian locomotory  
networks** (S10-3)
- 10:00 Tim Mentel, Köln  
**Coordination of different motoneuron  
pools in the lamprey spinal cord** (S10-4)
- 10:25 **Coffee Break**
- 10:45 Wolfgang Stein, Ulm  
**Motor pattern selection in the  
stomatogastric nervous system by nitric  
oxide** (S10-5)
- 11:10 Hans-Joachim Pflüger, Carsten Duch, Laurence  
Field, Berlin, Tempe (USA) and Christchurch  
(NZ)  
**Coupling between neuromodulatory  
pathways and microcircuits for loco-  
motor pattern generation in the locust  
central nervous system** (S10-6)
- 11:35 Tom Matheson, Volker Dürr, DaeEun Kim, Keri  
Page, Julia V. Stalleicken and Jure Zakotnik,  
Leicester (UK), Bielefeld and Cambridge (UK)  
**Generation of aimed limb movements in  
a locust** (S10-7)



## Introductory Remarks to Symposium 11

### Brain tumors

*Rainer Glass and Michael Synowitz, Berlin-Buch*

Glioma are rapidly expanding extensively vascularised CNS tumours, which secrete immunosuppressive factors. Glioma are thought to origin from transformed stem cells of the brain. However, untransformed neural stem cells mediate anti-tumourigenic effects against these tumours. We will give an overview on the diverse pro- and anti-tumourigenic interactions of glioma with their microenvironment in the brain and we indicate how these mechanisms may be exploited for future therapies. Peter Vajkoczy will show endothelial progenitor cell (EPC) recruitment from the bone marrow to gliomas, where EPCs induce neovascularisation. Using intravital fluorescence videomicroscopy he defines a multistep process, by which EPCs home and incorporate into "hot spots" within the tumor microvasculature. Michael Weller will demonstrate that glioma actively secrete the immunosuppressant cytokine transforming growth factor (TGF)-beta. Firstly, he will present the complex regulation of TGF-beta bioavailability and secondly he will introduce TGF-beta as a target for glioma therapy. Michael Synowitz will explain that glioma release a soluble factor that increases the metalloproteinase activity in microglial cells, which are amassed in the tumour. The glioma cells exploit this microglial proteinase activity to invade into the brain. Gaetano Finocchiaro will present new strategies for the therapeutic targeting of glioblastoma cells with cancer stem-like properties. Glioma stem cells are emerging as the main tumour-initiating and -maintaining entity in brain cancer. Current therapies target the bulk tumour mass and potentially fail to account for the different molecular and clinical properties of the glioma stem cells. Rainer Glass will introduce that neural stem cells are chemoattracted from the stem cell niches of the brain towards gliomas. On the site of pathology neural stem cells release a factor, which induces glioma cell death. By presenting the interplay of glioma with their microenvironment we intend to provide a more complete view on the mechanisms, which take place during neoplastic transformation of the central nervous system. (S11)

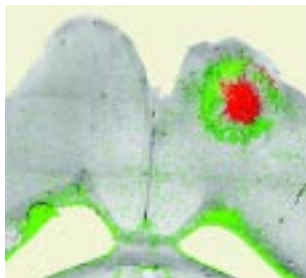


## Symposium 11

Friday, March 30, 2007  
9:00 – 12:00, Hall 104

Chair: Rainer Glass and Michael Synowitz, Berlin

- 9:00 **Opening remarks**  
*Michael Synowitz und Rainer Glass (S11-1)*
- 9:05 Peter Vajkoczy, Mannheim  
**Anti-angiogenic therapy of brain tumors**  
(S11-2)
- 9:35 Michael Weller, Tübingen  
**Targeting TGF- $\beta$  for the immunotherapy of glioblastoma** (S11-3)
- 10:05 Michael Synowitz, Rainer Glass, Kathrin Färber, Golo Kronenberg, Darko Markovic, Jürgen Schnermann, Nico van Rooijen and Helmut Kettenmann, Berlin, Bethesda, Maryland (USA) and Amsterdam (NL)  
**Microglia stimulate glioma invasion**  
(S11-4)
- 10:35 **Coffee Break**
- 11:00 Gaetano Finocchiaro, Milan (IT)  
**Therapeutic targeting of glioblastoma cells with cancer stem-like properties**  
(S11-5)
- 11:30 Rainer Glass, Joo-Hee Wälzlein, Michael Synowitz and Helmut Kettenmann, Berlin  
**Cell-intrinsic limitations of the neural precursor cell response to brain tumors**  
(S11-6)



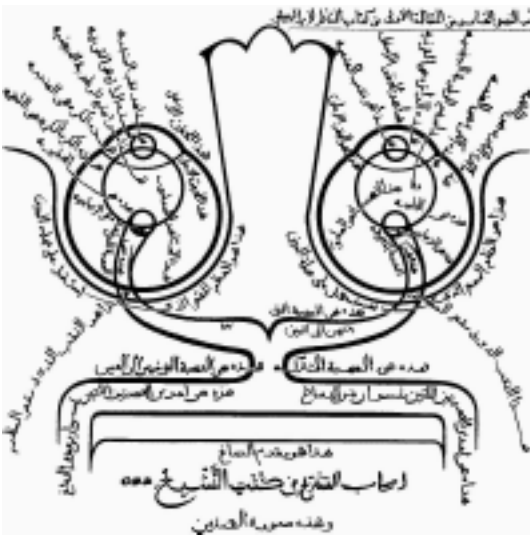


## Introductory Remarks to Symposium 12

# Computational models of vision

Laurenz Wiskott and Gustavo Deco, Berlin and Barcelona (ES)

The visual system is particularly attractive to theoreticians for several reasons: A large amount of experimental results are available to inspire and constrain the models, it is a sensory system and therefore the inputs are fairly well defined, it is sufficiently complex to offer a number of interesting research questions, it is so homogeneous that one can expect approaches based on only a few principles to have large explanatory power, and any progress being made in modelling biological vision is likely to foster progress in technical vision applications as well. However, despite the considerable effort and progress that theoreticians have made in modelling vision, very basic questions are still open and subject to controversial discussions: What are optimal visual features and how can they self-organize? How are visual invariances achieved? How is visual attention implemented and controlled? How are object classes being learned? This symposium focusses on a system level of visual processing from feature extraction to visual perception and brings together researchers with different perspectives and modelling approaches. (S12)



## Symposium 12

Friday, March 30, 2007

9:00 – 12:00, Hall 9

Chair: Laurenz Wiskott and Gustavo Deco,  
Berlin and Barcelona (ES)

9:00 **Opening remarks** (S12-1)

9:05 Laurenz Wiskott, Berlin

***Towards an analytical derivation of complex cell receptive field properties*** (S12-2)

9:30 Robert M. Shapley, New York (USA)

***Large scale models of the V1 cortical network*** (S12-3)

9:55 Fred Wolf, Göttingen

***Pinwheels – A structure without a function?*** (S12-4)

10:20 **Coffee Break**

10:45 Edmund Rolls, Oxford (UK)

***Models of invariant object recognition and global motion recognition in the ventral and dorsal visual systems*** (S12-5)

11:10 Gustavo Deco, Barcelona (ES)

***Competition and cooperation cortical mechanisms in visual cognition*** (S12-6)

11:35 Peter König, Osnabrück

***A model of the ventral visual system based on temporal stability and local memory*** (S12-7)



## Introductory Remarks to Symposium 13

# Functional role of nucleotide signaling in the nervous system

*Peter Illes and Herbert Zimmermann, Leipzig and Frankfurt/M.*

Signaling via extracellular nucleotides has been recognized as one of the most ubiquitous intercellular signaling mechanism in the nervous system. During the past decade, impressive progress has been made in the characterization of the molecular players involved and in the identification of essential functions initiated by nucleotides. Nucleotides may act as direct functional switches or also as mutual modulators or enhancers of additional signaling pathways. Both, neurons and glial cells carry receptors for nucleotides of which seven ionotropic (P2X) and eight metabotropic (P2Y) subtypes have been identified and characterized to date. Whereas P2X receptors respond to only ATP, P2Y receptors can be activated by ATP, ADP, UTP, UDP and nucleotide sugars. Agonist specificity varies between P2Y receptor subtypes. Recently, the orphan receptor GPR17 has been identified as a new dual uracil nucleotide/cysteinyl-leukotriene receptor. Extracellular nucleotides mediate or modulate fast signal transmission and cause short and long term changes in neural and glial functions. These include synaptic transmission, spreading of glial calcium waves, neuron-glia cross-talk and an array of trophic and proliferative actions that govern neural and glial development as well as regenerative processes. Bringing together leading experts from Germany, Great Britain and Italy, the symposium highlights essential functions of nucleotides such as quantal ATP release, initiation of synaptic plasticity, the cross-talk between glia and neurons and trophic actions such as the control of astrogliosis, differentiation, cell proliferation, and neuron survival. Most recently nucleotides have been assigned a role in the control of adult neurogenesis in the mammalian brain. All these data suggest that nucleotides are amongst the most versatile messengers in the brain. (S13)

## Symposium 13

*Saturday, March 31, 2007*

*9:00 – 12:00, Hall 104*

Chair: Peter Illes and Herbert Zimmermann,  
Leipzig and Frankfurt/M.

**9:00** *Opening remarks* (S13-1)

**9:05** Alexei Verkhratsky, Manchester (UK)  
**Quantal release of ATP in central synapses** (S13-2)

**9:35** Joachim W. Deitmer, Johannes Brockhaus and  
Diana Casel, Kaiserslautern  
***The role of ATP and its metabolites for synaptic plasticity in the cerebellum***  
(S13-3)

**10:05** Maria Pia Abbracchio, Milano (IT)  
***Glia-neuron cross-talk via ATP in the brain*** (S13-4)

**10:35** *Coffee Break*

**11:00** Heike Franke, Leipzig  
***Trophic actions of extracellular nucleotides on neurons and glial cells*** (S13-5)

**11:30** Herbert Zimmermann, David Langer, Santosh Kumar Mishra, Varsha Shukla, Kristine Gampe, Ivette Grimm, Jasmin Delic, Christof Schomerus, Horst-Werner Korf, Helmut Kettenmann and Norbert Braun, Frankfurt/M. and Berlin  
***Nucleotide signaling in adult neurogenesis*** (S13-6)



## Introductory Remarks to Symposium 14

# Cell Intrinsic mechanisms in the regulation of neural development

*Dorothea Schulte and Dieter Engelkamp, Frankfurt/M.*

During embryogenesis a pool of proliferating progenitor cells gives rise to all neural cell types of the central nervous system. Neural progenitor cells change continuously through development. Such progenitor cell changes are the basis of neural tube patterning and regionalization of the developing CNS, they regulate the balance between cell proliferation and cell cycle exit, cell fate decisions and cell migration. Cell intrinsic mechanisms include the differential expression of transcriptional regulators, components of the cell cycle machinery or signal transduction pathways. The idea for a symposium on "Cell intrinsic mechanisms in neural development" is to provide a platform to present and discuss recent advantages in the field. The speakers will address a representative cross section of related topics from the recent observation that cell cycle exit and cell fate determination are coupled to the genetic basis of circuit formation. Emphasis has been given to researchers, who approach these questions by using a broad range of different model organisms, from mouse and chicken to *Xenopus*, zebrafish and Medaka. Three of the talks will focus on the embryonic neural retina, a widely used model for the study of neural development: Jochen Wittbrodt (EMBL) uses Medaka fish to investigate the developmental mechanisms governing oculo-genesis; Muriel Perron (Université Paris XI) will report on the generation of GABA-ergic neurons in the retina and Dorothea Schulte (MPIH, Frankfurt) on the function of transcriptional co-factors in early eye development. Additional three talks will focus on the development of more posterior regions in the central nervous system: Johan Ericson (Karolinska Institute, Stockholm) will address the role of a transcriptional code in the specification of distinct neuronal subtypes in the ventral nervous system; Laure Bally-Cuif (GSF, München) uses zebrafish to investigate the molecular mechanisms underlying progenitor cell maintenance and cell type specification in the embryonic midbrain and Dieter Engelkamp (MPIH, Frankfurt) will report on the genetic programs that control progenitor cell migration at the rhombic lip. (S14)

## Symposium 14

Saturday, March 31, 2007  
9:00 - 12:00, Hall 9

Chair: Dorothea Schulte and Dieter Engelkamp,  
Frankfurt/M.

- 9:00 **Opening remarks** (S14-1)
- 9:05 Joachim Wittbrodt, Felix Loosli, Richard J. Adams and Martina Rembold, Heidelberg and Cambridge (UK)  
**Individual cell migration serves as the driving force for optic vesicle evagination** (S14-2)
- 9:30 Muriel Perron, Mélodie Robach, Morgane Locker, Yoichiro Aoki, Yonglong Chen and Tomas Pieler, Orsay (FR) and Göttingen  
**Ptf1a determines GABAergic neuronal cell fate in the retina** (S14-3)
- 9:55 Dorothea Schulte, Peer Heine, Zsuzsa Agoston and Keely Bumsted-O'Brien, Frankfurt/M. and Auckland (NZ)  
**Control of vertebrate visual system development by MEIS homeodomain proteins** (S14-4)
- 10:20 **Coffee Break**
- 10:45 Johan Ericson, Stockholm (SE)  
**Identification of intrinsic determinants of midbrain dopamine neurons** (S14-5)
- 11:10 Laure Bally-Cuif, Prisca Chapouton, Christian Stigloher, Christoph Leucht and Christina Lillesaar, Neuherberg  
**E(Spl) transcription factors and neurogenesis control in the zebrafish midbrain** (S14-6)
- 11:35 Dieter Engelkamp, Karsten Benzing and Andreas Schedl, Frankfurt and Nice (FR)  
**A novel approach to selectively target Pax6 expressing neurons** (S14-7)



## Introductory Remarks to Symposium 15

# Microglia: Role in neurodegeneration and repair

*Harald Neumann and Marco Prinz, Bonn and Göttingen*

Microglia activation is a common feature of most nervous system diseases including Alzheimer's disease, Parkinson's disease, traumatic or ischemic brain injury and multiple sclerosis. Recent new developments elucidated that microglia are bone marrow derived and are also replaced during adulthood. Innate immune receptors such as toll-like receptors (TLR) and triggering receptors expressed on myeloid cells (TREM) are now characterized as sensors for environmental changes. Furthermore, functional neurotransmitter receptors such as dopamine and noradrenaline receptors are expressed on microglia and sense local changes in the neurotransmitter levels.

The symposium will highlight the participation and molecular mechanism of microglia in neurodegeneration as well as neural regeneration. Microglial and macrophage-derived molecules such as osteopontin inhibit axonal outgrowth. Direct imaging of axonal spinal cord lesions allows the elucidation of the role of microglia in axonal degeneration and regeneration. Furthermore, it will be discussed whether resting microglia already show prominent activity and might permanently clear the normal brain tissue.

In summary, the symposium will highlight the emerging research of microglial function on neuronal survival and regeneration. (S15)



## Symposium 15

*Saturday, March 31, 2007*

*9:00 – 12:00, Hall 105*

Chair: Harald Neumann and Marco Prinz,  
Bonn and Göttingen

- 9:00 Ingo Bechmann, Frankfurt/M.  
***Turnover of bone marrow-derived microglia in the normal and diseased brain*** (S15-1)
- 9:25 Trevor Owens, Odense (DK)  
***Innate immunity in the inflamed or injured CNS*** (S15-2)
- 9:50 Helmut Kettenmann, Berlin  
***Communication pathways between microglial cells and neurons*** (S15-3)
- 10:15 ***Coffee Break***
- 10:45 Sebastian Jander, Düsseldorf  
***Effects of microglia and macrophages in brain lesions*** (S15-4)
- 11:10 Martin Kerschensteiner, München  
***Imaging neuro-immune interactions in the living nervous system*** (S15-5)
- 11:35 Gennadij Raivich, London (UK)  
***The active role of resting microglia*** (S15-6)



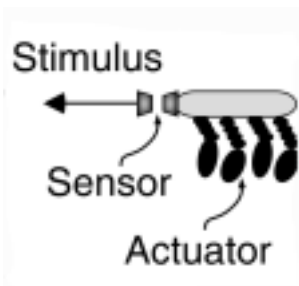
## Introductory Remarks to Symposium 16

# Active sensing: How nervous systems explore the external world

*Martin Göpfert and Harald Luksch, Köln and Aachen*

The conventional view of sensory systems as intricate, yet passive collectors of external information does not capture the full complexity of how sensation works. Sensation is active. It relies on the nervous system actively sampling the stimulus world. By directing behaviours such as eye movements, sniffing, or touching, the nervous system controls its sensory input, thereby exploring the stimulus environment and grabbing relevant information.

Active sensation relies on sensory-motor loops: sensory input shapes motor output to facilitate sensation. These loops can take place on various levels, ranging from molecular feedback between motor proteins and adjacent sensory transducer channels (Albert) to feedback between body-movements and visual flow (Egelhaaf). Active sensation can involve complex signalling pathways that control the responsiveness to external signals (Poulet), feedback loops for target selection (Luksch), and remote sensing such as electro- and echolocation (Schuller). By bringing together neuroscientists working on different systems, this symposium aims to explore the implications of active sensing on sensory processing, its investigation, and its fruitfulness for technical implementation (Koenig) by looking into the general constraints imposed by active sensation and the advantages it yields under natural stimulus conditions. (S16-1)



*Active sensor, as found in hearing: Stimulus forces are actively enhanced by the interplay between sensors (transducer channels) and associated actuators (molecular motors).*

## Symposium 16

Saturday, March 31, 2007

9:00 – 12:00, Hall 10

Chair: Martin Göpfert and Harald Luksch,  
Köln and Aachen

- 9:00 **Opening remarks** (S16-1)
- 9:05 Martin Egelhaaf, Roland Kern and Jens Lindemann, Bielefeld  
**Active vision: Strategies and neuronal mechanisms of spatial orientation in blowflies** (S16-2)
- 9:30 Jörg T. Albert and Martin C. Göpfert, Köln  
**Transducer-based auditory input-amplification in the *Drosophila* ear** (S16-3)
- 9:55 James Poulet, Lausanne (CH)  
**Sound processing in singing crickets** (S16-4)
- 10:20 **Coffee Break**
- 10:45 Gerd Schuller, Planegg-Martinsried  
**Neural mechanisms of audio-vocal control in bats: no echo without call** (S16-5)
- 11:10 Harald Luksch, Aachen  
**Feedback loops for target selection in the visual midbrain** (S16-6)
- 11:35 Peter König and Selim Onat, Osnabrück  
**Active sensing - Interaction of behavior and input in various modalities** (S16-7)



## Introductory Remarks to Symposium 17

# Genetics and molecular mechanisms of Parkinson's disease

*Marius Ueffing and Thomas Gasser, München-Neuherberg and Tübingen*

Parkinson's disease (PD) is the second most common neurodegenerative disorder affecting 1-2% of the population aged 65 and older. The presence of  $\alpha$ -synuclein-positive Lewy body pathology is traditionally used to distinguish Parkinson's disease from parkinsonism, for which a broader spectrum of neuropathologies, including tau-immunopositive neurofibrillary tangles and ubiquitin inclusions, might accompany nigral neuronal loss. Considerable advances made in defining the genetics, aetiology, pathogenesis and pathology of PD have resulted in novel hypotheses on how this disease develops on the molecular level and how neuronal cell death is executed. This symposium will present the current understanding of the genetic basis and molecular mechanisms involved in PD. It will have its main emphasis on genes and pathways associated with the disease and will further present experimental approaches as well as models to study it. (S17)

## Symposium 17

Saturday, March 31, 2007

9:00 – 12:00, Hall 102

Chair: Marius Ueffing and Thomas Gasser, München-Neuherberg and Tübingen

- 9:00 Thomas Gasser, Tübingen  
***Genetics of Parkinson's disease: an overview*** (S17-1)
- 9:25 Marius Ueffing, Christian Johannes Glöckner, Norbert Kinkl, Andrea Meixner, Annette Schumacher, Matthias Bauer and Thomas Meitinger, Neuherberg  
***Molecular characterization and functional analysis of LRRK2*** (S17-2)
- 9:50 Daniela Vogt-Weissenhorn, Neuherberg  
***Functional characterization of genes underlying Morbus Parkinson in mouse models*** (S17-3)
- 10:15 ***Coffee Break***
- 10:45 Philipp Kahle, Tübingen  
***Molecular mechanisms of synucleinopathies*** (S17-4)
- 11:10 Birgit Liss, Marburg  
***Molecular mechanisms of selective cell death in Parkinson's disease*** (S17-5)
- 11:35 Georg Auburger, Frankfurt/M.  
***PARK6: The role of mitochondria and kinases in Parkinson pathogenesis*** (S17-6)



## Introductory Remarks to Symposium 18

# Compositionality: Neuronal basis of complex behavior

*Theo Geisel and Moshe Abeles, Göttingen and Ramat Gan (IL)*

Compositionality may be manifested either by stringing components along time, such as in speech, or simultaneously, such as in understanding a visual scene. In motor behavior these two forms are found abundantly. Concatenating simpler strokes generates complex drawing motions. Picking up an object requires simultaneous coordination of three time evolving motions: the arm reaching, the hand orientation, and the finger shaping. Like in language, not all possible combinations are utilized. The rules, which stroke may be concatenated to which, constitute the syntax of action. Some speakers of the symposium take the point of view that there are neural mechanisms that are used to bind the elements of a composite movement to each other. These are referred to as the binding mechanisms. In voluntary movements, rather than planning and producing a limb motion anew for each individual movement, there is evidence to suggest that the system chooses from a limited repertoire of motor primitives. Several muscular co-activations (synergies) may be concatenated to generate simple units of movements. Several such strokes are concatenated to generate more complex shapes etc. While manipulating objects, the arm, the hand and the fingers are combined in a coordinated manner to perform a meaningful action.

In this symposium we present the current research on compositionality as a neuronal basis of complex behavior with contributions spanning the range of relevant disciplines. From the psychophysical level, via electrophysiology, to the level of network modeling and behavioral bio-robotics and prosthetics. The research on the motor system is contrasted with current research on the neurobiological basis of language. The aim of this symposium is to critically review the idea of compositionality as a universal principle on the basis of the latest findings in both fields of research. It is our hope that with this group of experts the comparison of experimental results and neurobiological models of language and motor behavior will contribute to a clarification of concepts and the development of research strategies.

(S18)

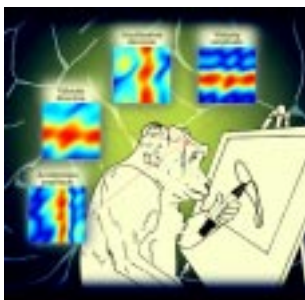
## Symposium 18

Saturday, March 31, 2007

9:00 – 12:00, Hall 8

Chair: Theo Geisel and Moshe Abeles,  
Göttingen and Ramat Gan (IL)

- 9:00 **Opening remarks** (S18-1)
- 9:10 Moshe Abeles, Ramat Gan (IL)  
***The compositional nature of drawing and neural coding*** (S18-2)
- 9:35 Mina Teicher, Ramat Gan (IL)  
***Syntactic rules governing the stringing of behavioral primitives*** (S18-3)
- 10:00 Thomas Wennekers, Plymouth (UK)  
***Language models based on hebbian cell assemblies*** (S18-4)
- 10:25 **Coffee Break**
- 10:45 Tamar Flash, Rehovot (IL)  
***On the compositionality of complex movements*** (S18-5)
- 11:10 Markus Diesmann, Wako City (JP)  
***A composition machine for complex movements*** (S18-6)
- 11:35 J. Michael Herrmann, Göttingen  
***Self-organization of behavioral primitives and concatenation rules*** (S18-7)





## Introductory Remarks to Symposium 19

# Spatial cognition: From rodents to humans

*Hanspeter A. Mallot and Johannes Thiele, Tübingen*

Spatial cognitive performance includes a wide variety of tasks that require memory and processing structures of different complexity. Examples include path integration (use egomotion information to return to a starting place), place recognition (landmarks, or local position information), and path planning (place adjacencies, cognitive map, regions). In recent years, the breakdown of spatial cognition into the mechanisms underlying these different tasks has paved the way for a better understanding of similarities and differences in animal and human spatial behaviour and spatial cognition. The symposium will give an overview of different mechanisms in spatial cognition and their implementation in different species. The perception of egomotion by visual, vestibular, or proprioceptive cues and their integration into a position estimate is among the most basic sources of information in spatial cognition. The symposium will discuss computational and neural mechanisms of the required updating process. Place recognition has to be based on sensory, often visual information that can be obtained when looking from a particular place. This notion is much more general than the familiar idea of a landmark, where places are recognized from well defined, nameable objects. Indeed, fMRI studies have recently revealed a difference between object recognition in general, and landmark definition, where landmarks haven been defined by their role in marking a decision place along a route. Other problems in place recognition include the question which cues are actually employed in recognizing a place and how these places are represented in the brain. The latter issue will be discussed in terms of hippocampal place fields of the rat. Wayfinding and planning of multistep routes in cluttered environments requires an explicit or declarative type of spatial memory that is usually called a 'cognitive map'. Surprisingly, clear evidence of route navigation and route planning in animals is rare. The simplest version of a cognitive map can be looked at as a network of place representations and motor programs effecting travel from one place to an adjacent one. Recent experiments with route planning in humans suggest that cognitive maps are organized in a hierarchical way, representing not only places but also regions at a higher, or coarser, level. (S19)



## Symposium 19

*Sunday, April 1, 2007*  
 9:00 – 12:00, Hall 105

Chair: Hanspeter A. Mallot and Johannes Thiele,  
 Tübingen

9:00 **Opening remarks** (S19-1)

9:05 Stefan Glasauer, Erich Schneider, Alexandra Stein, Anna Günther, Yuri P. Ivanenko and Thomas Brandt, München and Rome (IT)  
**Reproducing self-motion from memory** (S19-2)

9:30 Christian Hölscher, Coleraine (UK)  
**What do hippocampal place cells code?** (S19-3)

9:55 Gabriele Janzen, AH Nijmegen (NL)  
**Representation of objects and landmarks in the human brain** (S19-4)

10:20 **Coffee Break**

10:45 Hanspeter A. Mallot, Alexander Schnee, Johannes Thiele and Hansjürgen Dahmen, Tübingen  
**Rat navigation and wayfinding in virtual environments** (S19-5)

11:10 Jan Malte Wiener, Paris (FR)  
**Cognitive strategies and mechanisms in human path planning** (S19-6)

11:35 Thomas Wolbers, Jan Wiener, Hanspeter Mallot, Jack Loomis, Mary Hegarty and Christian Büchel, Santa Barbara (USA), Paris (FR), Tübingen and Hamburg  
**Update your environment: Characterizing the neural systems mediating path integration and spatial updating in humans** (S19-7)



## Introductory Remarks to Symposium 20

# The *Drosophila* NMJ: Unravelling principal mechanisms of synapse formation, function and plasticity

Andreas Prokop and Stephan Sigrist, Manchester (UK) and Göttingen

More than three decades ago, the neuromuscular junction (NMJ) of *Drosophila* has been introduced as a model system for neurogenetic research, and has since been used most successfully to investigate genes and mechanisms underlying synaptic development, function and plasticity, in several instances pioneering new areas of research. Mutant phenotypes of far more than 100 genes have since been documented for *Drosophila* NMJs, a number hardly achieved by any other synaptic model. Many of such insights have been and will be translated into vertebrate research, adding significantly to our general knowledge about synapses. The fact that the fly NMJ is glutamatergic, with glutamate receptors closely homologous to those of mammalian central synapses, further supports this statement.

The combination of two principal factors makes the *Drosophila* NMJ so efficient for neurogenetic research: First, the high resolution at which the *Drosophila* neuromuscular system has been structurally and functionally described *in situ* (i.e. within the whole organism), provides efficient and sensitive read-outs for genetic studies, including *in vivo* visualisation of protein dynamics, physiological and ultrastructural analyses. Second, capitalising on powerful genetics and tools available for *Drosophila*, gene functions can be uncovered in an unbiased way via high-throughput mutational screens. Subsequently, such gene functions can be investigated further in effective manners.

This symposium will provide an overview over the *Drosophila* NMJ as a neurogenetic model system. The individual presentations will inform about examples of ongoing *Drosophila* NMJ research on mechanisms underlying synaptogenesis, synapse structure, activity-dependent plasticity, and synaptic transmission. (S20)

## Symposium 20

Sunday, April 1, 2007  
9:00 – 12:00, Hall 104

Chair: Andreas Prokop and Stephan Sigrist,  
Manchester (UK) and Göttingen

- 9:00 Andreas Prokop, Manchester (UK)  
***Opening remarks: Quick guide to the Drosophila NMJ*** (S20-1)
- 9:10 Stephan J. Sigrist and Manfred Heckmann,  
Würzburg  
***Bruchpilot protein is needed for Ca<sup>2+</sup>-channel clustering and active zone formation to allow efficient synaptic transmitter release*** (S20-2)
- 9:30 Sean T. Sweeney and Laura Briggs, York (UK)  
***Sphingolipid regulation of synapse structure and function*** (S20-3)
- 09:55 Ulrich Thomas, André Bachmann, Oliver Kobler,  
Carolin Wichmann, Robert Kittel, Stephan S.  
Sigrist, Jimena Sierralta, Elisabeth Knust and  
Eckart D. Gundelfinger, Magdeburg, Düsseldorf,  
Göttingen and Santiago (CL)  
***Organization and dynamics of MAGUK based protein complexes at Drosophila larval neuromuscular junctions*** (S20-4)
- 10:20 ***Coffee Break***
- 10:45 Mani Ramaswami, Dublin (IE)  
***Fos, Jun and the transcriptional regulation of neuronal plasticity*** (S20-5)
- 11:10 Christoph M. Schuster and Jörn Steinert,  
Heidelberg  
***Mechanisms of experience-dependent potentiation of glutamatergic synapses*** (S20-6)
- 11:35 Peter Robin Hiesinger, Dallas (USA)  
***Unsaturated fatty acid regulation of synaptic transmission*** (S20-7)



## Introductory Remarks to Symposium 21

# **Glia development: Molecular control of specification, migration, differentiation and myelination of oligodendrocytes and Schwann cells**

*Michael Wegner, Erlangen*

Oligodendrocytes are the myelin forming cells of the CNS that are crucial for proper neuronal information propagation. Although oligodendrocytes belong to one of the most studied mammalian cells types, we still need a better understanding of how and where they are generated during development and, which cues are essential to generate functional myelinating cells of the nervous system. The symposium intends to summarize scientific efforts and achievements by bringing together researchers that will present their cell biological and molecular insights into the development of oligodendrocytes. The symposium will be opened by Martin Raff, who gives an (historical) overview on oligodendrocyte precursor cells (OPCs), summarizing 30 years of work, which will be the frame for the audience and for the following presentations. Bill Richardson will report on their findings that additional oligodendroglial lineages exist, which not only derive from different sources along the neuraxis but also at different time points. This raises the question which transcription factors control the generation of oligodendrocytes and Michael Wegner will provide evidence for the importance of Sox family proteins. However, the oligodendrocyte progenitor cells are located in an environment rich of extracellular matrix (ECM) molecules, and Alexander von Holst will report how tenascin family proteins and chondroitin sulfates influence their differentiation. Many ECM components signal via integrin receptors and Charles French-Constant will present data on the importance of integrin-mediated signaling cascades for the maturation of OPCs to a myelin forming oligodendrocyte. In order to become such a specified glial cell the OPCs as well as Schwann cells, the myelinating glia cells of the peripheral nervous system, depend on signals derived from the axon. Klaus-Achim Nave will elaborate on this intricate neuron-glia interaction including how neuregulins contribute to the control of myelination. All these facets of oligodendrocyte development need to be understood in detail, if we ever seriously want to cure diseases that are caused by a failure or loss of this fascinating glial cell. (S21)

## Symposium 21

*Sunday, April 1, 2007  
9:00 – 12:00, Hall 10*

Chair: Michael Wegner, Erlangen

- 9:00 Martin Raff, London (UK)  
***Oligodendrocyte precursor cells (OPCs):  
an historical perspective*** (S21-1)
- 9:25 William D. Richardson, N. Kessar, M. Fogarty, P. Iannarelli and K. Young, London (UK)  
***Multiple oligodendrocyte origins*** (S21-2)
- 9:50 Michael Wegner, Erlangen  
***Transcriptional control of  
oligodendrocyte development by Sox  
proteins*** (S21-3)
- 10:15 ***Coffee Break***
- 10:45 Alexander von Holst, Tim Czopka, Andreas Faissner, Bochum  
***Differential control of OPC differentia-  
tion by tenascins and chondroitin  
sulfates*** (S21-4)
- 11:10 Charles ffrench-Constant, Joana Camara and Jan Wang, Cambridge (UK)  
***The role of extracellular matrix in the  
regulation of oligodendrocyte deve-  
lopment and myelination*** (S21-5)
- 11:35 Klaus-Achim Nave, Göttingen  
***Axonal control of myelination*** (S21-6)



## Introductory Remarks to Symposium 22

# Real-time voltage-sensitive dye imaging of cortical network activities across sensory modalities

*Dirk Jancke and Hartwig Spors, Bochum and Heidelberg*

Information processing in the mammalian brain is distributed across cortical areas and occurs in milliseconds. In order to determine how the outside world is represented internally and how sensory representations evolve and interact over short time scales it is crucial to measure neuronal electrical activity simultaneously across populations with both high spatial and high temporal resolution. Voltage sensitive dyes (VSD) and new camera systems allow for these challenging measurements. VSD imaging permits sensitive monitoring of the changes in membrane potentials, both at sub- and supra-threshold level, over large areas of the cortex. Interactions via long-range horizontal cortical connections can be observed at millisecond temporal resolution and intra-cortical processing can be directly related to cortical anatomy. For example, VSD imaging revealed that spontaneous on-going cortical activity in primary visual cortex frequently forms extensive patterns that strongly correlate to the geometrical shape of orientation maps. Another study demonstrated how visual context affects the emergence of activity patterns that can directly be mapped to perception: a small spot, flashed briefly before a stationary bar stimulus gave rise to propagation of cortical activity similar in time and shape to real motion. In the olfactory system VSD imaging has demonstrated that both spatial and temporal response patterns carry information about odor stimuli at a population level. In somatosensory cortex, VSD imaging has been employed to investigate the influence of sensory deprivation on the development of functional responses. Sub-threshold activity spreads strongly into neighboring cortical columns with spared sensory input at the expense of spread into columns deprived of input. In this symposium recent technical advances and new results from measurements of neuronal population activity in cortical areas of different sensory modalities will be presented.

(S22)

## Symposium 22

*Sunday, April 1, 2007*

*9:00 – 12:00, Hall 9*

Chair: Dirk Jancke and Hartwig Spors,  
Bochum and Heidelberg

**9:00** *Opening remarks* (S22-1)

**9:05** Damian Haydon Wallace, Heidelberg  
***Voltage sensitive dye imaging in somatosensory cortex: Response characteristics, spread and plasticity*** (S22-2)

**9:30** Dirk Jancke, Frédéric Chavane and Amiram Grinvald, Bochum and Rehovot (IL)  
***Population dynamics in cat early visual cortex evoked by local motion*** (S22-3)

**9:55** Frédéric Chavane, Alexandre Reynaud, Arjan Boonman, Frédéric Barthélémy and Guillaume Masson, Marseille (FR)  
***Input-output transformation in the visuo-oculomotor loop: Comparison of real-time optical imaging recordings in V1 to ocular following responses*** (S22-4)

**10:20** *Coffee Break*

**10:45** Hartwig Spors, Heidelberg  
***Dynamics of odor representations*** (S22-5)

**11:10** Eyal Seidemann, Austin (USA)  
***Optimal decoding of correlated neural population responses in the primate visual cortex*** (S22-6)

**11:35** Amiram Grinvald and David B. Omer, Rehovot (IL)  
***The dynamics of evoked and ongoing activity in the behaving monkey*** (S22-7)



## Introductory Remarks to Symposium 23

# Synchronization of circadian and neuronal oscillators

*Monika Stengl, Marburg*

A network of circadian oscillators controls the timing of neuronal circuits in brains. While knowledge about the molecular composition of the circadian clock in the nucleus is accumulating, little is known about the neuronal network of the circadian pacemakers and their mechanisms of synchronization. Recent evidence indicates strong connections between circadian and ultradian rhythms such as gamma frequency oscillations, which are thought to underlie higher brain functions. Elucidating these connections between intercellular as well as intracellular oscillations at different time scales from milliseconds to hours will be crucial for the understanding of circadian oscillators as well as for the understanding of higher brain functions. In this symposium W.J. Schwartz and J.H. Meijer will present new findings about mechanisms of synchronization of circadian oscillators within and between the bilaterally symmetric suprachiasmatic nucleus (SCN), the circadian pacemaker center of mammals. Both will examine with different methods the dissociation/synchronization between molecular, neuronal, and behavioural rhythms in mammals. Achim Kramer and Hans-Peter Herzog will focus on theoretical models of intracellular and intercellular synchronization of the mammalian circadian clock. C. Helfrich-Förster and T. Reischig analyze the synchronization of oscillators within the accessory medulla (AMe), the insect clock, and between AMe neurons and midbrain oscillators. Monika Stengl studies the connections between circadian scale and gamma frequency scale oscillations in neurons of the insect circadian clock. Thus, from genes to neurons and behavior this symposium will focus on the function of circadian synchronization signals which appear to orchestrate the timing of neuronal circuits and physiological processes in stable phase relationships not only on the scale of hours but also on the millisecond scale. (S23)



## Symposium 23

Sunday, April 1, 2007  
9:00 – 12:00, Hall 102

Chair: Monika Stengl, Marburg

- 9:00 William Joseph Schwartz, Worcester (USA)  
***Reconfiguring cellular ensembles within the suprachiasmatic nucleus*** (S23-1)
- 9:25 Johanna H. Meijer, Leiden (NL)  
***Light-induced desynchronization of neuronal populations within the mammalian SCN*** (S23-2)
- 9:50 Charlotte Helfrich-Förster, Regensburg  
***Synchronization and internal desynchronization between groups of circadian pacemaker neurons in the fruit fly *Drosophila melanogaster**** (S23-3)
- 10:15 ***Coffee Break***
- 10:45 Thomas Reischig, Göttingen  
***The circadian pacemaker network in the cockroach *Leucophaea maderae**** (S23-4)
- 11:10 Monika Stengl, Nils-Lasse Schneider and Nico Funk, Marburg  
***The neuropeptide pigment-dispersing factor affects circadian and ultradian rhythms in the circadian system of the cockroach *Leucophaea maderae**** (S23-5)
- 11:35 Hans-Peter Herzog and Achim Kramer, Berlin  
***Modelling synchronization and phase resetting of SCN neurons*** (S23-6)



## Introductory Remarks to Symposium 24

# Do we know what the early visual system computes?

*Matthias Bethge and Christoph Kayser, Tübingen*

Decades of research provided much data and insights into the mechanisms of the early visual system. Currently, however, there is great controversy on whether these findings can provide us with a thorough functional understanding of what the early visual system does, or formulated differently, of what it computes. At the Society for Neuroscience meeting 2005 in Washington, a symposium was held on the question "Do we know what the early visual system does", which was accompanied by a widely regarded publication in the *Journal of Neuroscience*. Yet, that discussion was rather specialized as it predominantly addressed the question of how well neural responses in retina, LGN, and cortex can be predicted from noise stimuli, but did not emphasize the question of whether we understand what the function of these early visual areas is. Here we will concentrate on this neuro-computational aspect of vision. Experts from neurobiology, psychophysics and computational neuroscience will present studies which approach this question from different viewpoints and promote a critical discussion of whether we actually understand what early areas contribute to the processing and perception of visual information. (S24)

## Symposium 24

*Sunday, April 1, 2007  
9:00 – 12:00, Hall 8*

Chair: Matthias Bethge and Christoph Kayser, Tübingen

9:00 ***Opening remarks*** (S24-1)

9:05 Jonathan W. Pillow, London (UK)  
***Understanding retinal output with an encoding model of multi-neuron responses*** (S24-2)

9:30 Kilian Koepsell, Berkeley (USA)  
***The hidden clock in LGN — Is phase coding employed in early vision?*** (S24-3)

10:00 Nicholas Lesica, Martinsried  
***The role of contrast adaptation in the coding of natural visual stimuli*** (S24-4)

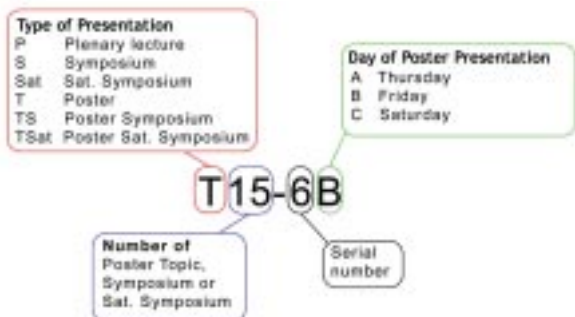
10:30 ***Coffee Break***

11:00 Li Zhaoping, London (UK)  
***A saliency map in the primary visual cortex for bottom up visual selection - theory and experiments*** (S24-5)

11:30 Bruce Henning, Oxford (UK)  
***Masking by mach bands*** (S24-6)



## Explanation of Poster Numbers



There are two poster sessions on Thursday, on Friday and on Saturday each. There is no poster session on Sunday.

Poster with poster numbers ending with an A are displayed on Thursday, poster with a poster number ending with a B are displayed on Friday, posters with a poster number ending with a C are displayed on Saturday.

Each poster session is divided into two parts: odd and even serial numbers. In the first session of a day posters with odd serial numbers will be discussed. In the second hour 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 hour and in the second hour of the same session posters with even serial numbers will be discussed once more.

### Examples

#### TS19-1C

TS = poster to a symposium

19 = the symposium is No. 19

1 = serial number (odd number, i.e. first hours of each session)

C = indicates the day, i.e. Saturday

This means: poster **TS19-1C** is a poster belonging to symposium 19 and is presented on Saturday, March 31, 13:00 - 14:00 and 16:00 - 17:00 h in poster area TS to TSat.

#### T21-2B

T = poster to a poster topic

21 = the poster topic is No. 21, i.e. Sensory Systems: Other

2 = serial number (even number, i.e. second hours of each session)

B = indicates the day, i.e. Friday.

This means: poster **T21-2B** is a poster belonging to the topic "Sensory Systems: Other" and is presented on Friday, March 30, 14:00 - 15:00 h and 17:00 - 18:00 h in the poster area 21

## Poster Topics

Poster Topic	Thurs- day	Fri- day	Satur- day
Satellite Symposium I	TSAT1-1A – TSAT1-2A		
Symposia S1 – S6	TS1-1A – TS6-1A		
Symposia S7 – S12		TS7-1B – TS12-7B	
Symposia S13 – S24			TS14-1C – TS24-4C
T1: Development I: Neural stem cells/neurogenesis	T1-1A – T1-10A	T1-1B – T1-10B	T1-1C – T1-9C
T2: Development II: Migration and path finding	T2-1A – T2-6A	T2-1B – T2-6B	T2-1C – T2-5C
T3: Development III: Regeneration	T3-1A – T3-7A	T3-1B – T3-7B	T3-1C – T3-7C
T4: Development IV: Cell cycle and cell death	T4-1A – T4-3A	T4-1B – T4-2B	T4-1C – T4-2C
T5: Neurogenetics	T5-1A – T5-4A	T5-1B – T5-4B	T5-1C – T5-3C
T6: Synapses	T6-1A – T6-11A	T6-1B – T6-11B	T6-1C – T6-11C
T7: Signal transduction cascades	T7-1A – T7-5A	T7-1B – T7-5B	T7-1C – T7-4C
T8: Neurotransmitters	T8-1A – T8-5A	T8-1B – T8-5B	T8-1C – T8-5C
T9: Neuropeptides and neuromodulation	T9-1A – T9-4A	T9-1B – T9-4B	T9-1C – T9-3C
T10: Receptors	T10-1A – T10-4A	T10-1B – T10-4B	T10-1C – T10-4C

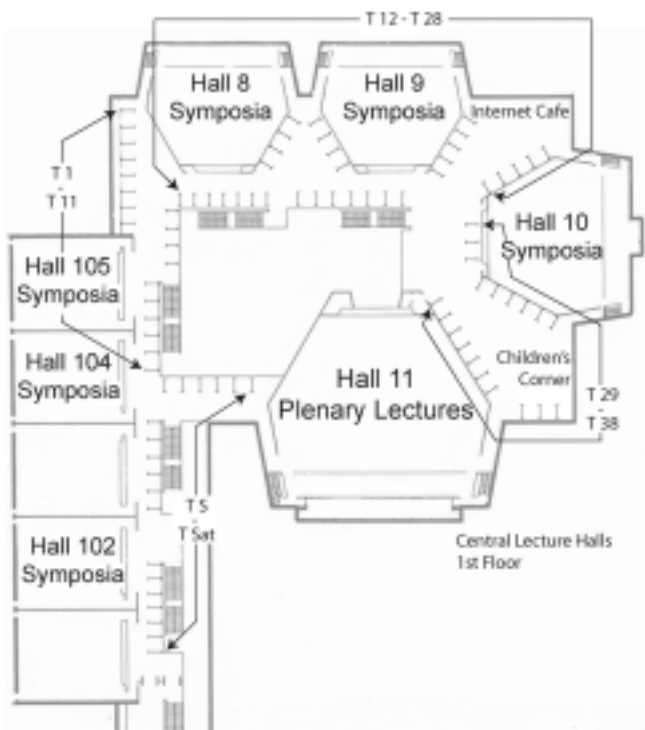


<b>Poster Topic</b>	<b>Thurs- day</b>	<b>Fri- day</b>	<b>Satur- day</b>
T11: Ion channels	T11-1A – T11-12A	T11-1B – T11-12B	T11-1C – T11-11C
T12: Glia	T12-1A – T12-11A	T12-1B – T12-10B	T12-1C – T12-10C
T13: Plasticity	T13-1A – T13-9A	T13-1B – T13-9B	T13-1C – T13-8C
T14: Visual system I: Invertebrates	T14-1A – T14-9A	T14-1B – T14-9B	T14-1C – T14-8C
T15: Visual system II: Retinal circuits	T15-1A – T15-5A	T15-1B – T15-5B	T15-1C – T15-5C
T16: Visual system III: Central processing	T16-1A – T16-10A	T16-1B – T16-9B	T16-1C – T16-9C
T17: Visual system IV: Visual perception	T17-1A – T17-9A	T17-1B – T17-9B	T17-1C – T17-8C
T18: Auditory system I: Invertebrates	T18-1A – T18-7A	T18-1B – T18-6B	T18-1C – T18-6C
T19: Auditory system II: Vertebrates	T19-1A – T19-15A	T19-1B – T19-14B	T19-1C – T19-14C
T20: Chemosensory Systems	T20-1A – T20-10A	T20-1B – T20-10B	T20-1C – T20-9C
T21: Sensory systems: Other	T21-1A – T21-12A	T21-1B – T21-11B	T21-1C – T21-11C
T22: Motor systems I: Pattern generation	T22-1A – T22-5A	T22-1B – T22-4B	T22-1C – T22-4C
T23: Motor systems II: ZNS	T23-1A – T23-4A	T23-1B – T23-4B	T23-1C – T23-4C
T24: Motor systems III: Muscle physiology	T24-1A – T24-2A		
T25: Homeostasis		T25-1B – T25-2B	

Poster Topic	Thurs- day	Fri- day	Satur- day
T26: Neuroendocrine systems			T26-1C – T26-2C
T25: Learning and memory I: LTP, LTD	T27-1A – T27-6A	T27-1B – T27-6B	T27-1C – T27-5C
T28: Learning and memory II: Cognitive learning and memory systems	T28-1A – T28-12A	T28-1B – T28-11B	T28-1C – T28-11C
T29: Learning and memory III: Invertebrates	T29-1A – T29-8A	T29-1B – T29-7B	T29-1C – T29-7C
T30: Human and brain imaging	T30-1A – T30-6A	T30-1B – T30-6B	T30-1C – T30-6C
T31: Limbic system, motivation, emotion	T31-1A – T31-4A	T31-1B – T31-4B	T31-1C – T21-3C
T32: Attention	T32-1A – T32-3A	T32-1B – T32-3B	T32-1C – T32-3C
T33: Neuropsychology and psychophysics	T33-1A – T33-2A	T33-1B – T33-2B	T33-1C
T34: Neuropharmacology	T34-1A – T34-5A	T34-1B – T34-5B	T34-1C – T34-4C
T35: Disorders of the nervous system	T35-1A – T35-23A	T35-1B – T35-22B	T35-1C – T35-22C
T36: Neuroimmunology	T36-1A – T36-3A	T36-1B – T36-3B	T36-1C – T36-3C
T37: Computational neuroscience	T37-1A – T37-13A	T37-1B – T37-12B	T37-1C – T37-12C
T38: Techniques and demonstrations	T38-1A – T38-6A	T38-1B – T38-6B	T38-1C – T38-5C



## Floor Plan Posters 1<sup>st</sup> Floor



All poster boards are located on the first floor. No posters are displayed on the ground floor.



## Posters to Symposia

### Thursday

#### Sat1: Neurotropic viruses

- TSAT1-1A** THE ROLE OF MYELIN IN THEILER'S VIRUS PERSISTENCE IN THE CENTRAL NERVOUS SYSTEM OF MOUSE  
*J.P. Roussarie, C. Ruffié and M. Brahic, Paris (FR)*
- TSAT1-2A** RAPID ONSET OF SIMIAN NEUROAIDS IS ASSOCIATED WITH DISRUPTION OF EXCITATORY AMINO ACID TRANSPORTERS  
*E. Koutsilier, F. Meisner, E. Neuen-Jacob, S. Sopper, D. Vosswinkel and C. Scheller, Würzburg, Düsseldorf and Göttingen*

#### S1: Gene silencing by RNA interference in models of de- and regeneration

- TS1-1A** REDUCTION IN TYROSINE HYDROXYLASE POSITIVE CELLS IN SNPC IS ACHIEVED UPON GLUTATHIONE DEPLETION: IMPLICATION IN PD  
*M. Garrido, U. Michel, Z. Shevtsova, U. Schöll, M. Bähr and S. Kügler, Göttingen*
- TS1-2A** GRANULOCYTE-COLONY STIMULATING FACTOR (G-CSF) AS A NEUROPROTECTIVE THERAPY IN MODELS OF PARKINSON'S DISEASE  
*K. Meuer, T. Frank, C. Pfitzer, P. Teismann, C. Krüger, B. Göricke, R. Laage, P. Lingor, JCM. Schlachetzki, GPH. Dietz, D. Weber, B. Fergner, A. Bach, JB. Schulz, M. Bähr, A. Schneider and JH. Weishaupt, Göttingen and Heidelberg*
- TS1-3A** TRANSFERRIN-ASSOCIATED LIPOPLEXES FOR SIRNA DELIVERY IN CULTURED NEURONS AND BRAIN TISSUE  
*C. Culmsee, AL. Cardoso, S. Simoes, N. Plesnila, M. de Lima and E. Wagner, München and Coimbra (PT)*

#### S2: Experience-induced plasticity in the olfactory pathway: From single neurons to neural odor representation

- TS2-1A**  $\beta$ -ARRESTIN2 MEDIATED INTERNALIZATION OF MAMMALIAN ODORANT RECEPTORS  
*EM. Neuhaus, A. Mashukova, M. Spehr and H. Hatt, Bochum*
- TS2-2A** THE VIRTUAL ANTENNAL LOBE: ENCODING ODORANT MOLECULAR STRUCTURE AND PREDICTING SCENT USING COMPUTATIONAL PRINCIPLES OF INSECT OLFACTION  
*M. Schmucker and G. Schneider, Frankfurt/M.*
- TS2-3A** TRANSITION FROM SEA TO LAND: ADAPTATIONS OF THE CENTRAL OLFACTORY PATHWAY IN THE TERRESTRIAL GIANT ROBBER CRAB  
*S. Harzsch, M. Stensmayr and B. Hansson, Jena*



- TS2-4A** *DELPHINIUM NORHEGNI* AGAINST STRYCHNIN INDUCED SEIZURES IN MICE  
*ML. Raza and SU. Simjee, Karachi (PK)*

### **S3: Neuronal dendrites: Synaptic function, plasticity and information processing**

- TS3-1A** DETAILED PASSIVE CABLE MODELS OF HIPPOCAMPAL GRANULE CELLS OBTAINED WITH TWO-PHOTON MICROSCOPY  
*C. Schmidt-Hieber, P. Jonas and J. Bischofberger, Freiburg*
- TS3-2A** POSSIBILITY OF PERIPHERAL NERVE LESION RELATED TO THE TRANSIENT NITRIC OXIDE MOBILIZATION. THE NEUROHISTOCHEMICAL STUDY IN RABBIT  
*M. Lackova, A. Schreiberova, D. Kolesar, N. Lukacova and J. Marsala, Kosice (SK)*
- TS3-3A** MOBILE ENDOGENOUS CALCIUM BUFFERS PROMOTE THE IMPACT OF SPINE NECK GEOMETRY ON SPINO-DENDRITIC CROSS-TALK  
*H. Schmidt and J. Eilers, Leipzig*
- TS3-4A** PROTRACTED SYNAPTOGENESIS AFTER ACTIVITY-DEPENDENT SPINOGENESIS IN HIPPOCAMPAL NEURONS  
*UV. Nägerl, G. Köstinger, JC. Anderson, KAC. Martin and T. Bonhoeffer, München and Zürich (CH)*
- TS3-5A** RHOSAP, A NOVEL PROTEIN OF VESICLE CYCLING AT THE PSD  
*J. Dahl, J. Bockmann and TM. Boeckers, Ulm*
- TS3-6A** CHARACTERIZATION OF SERSAP3: A RAP-GAP CONTAINING PROTEIN OF POSTSYNAPTIC DENSITIES (PSDS)  
*A. Dolnik, J. Bockmann, TV. Wuttke, H. Lerche and TM. Böckers, Ulm*
- TS3-7A** CHARACTERIZATION OF *DROSOPHILA* PROSAP (DPROSAP) AND ITS POSSIBLE CONNECTION TO WNT SIGNALING PATHWAYS  
*AM. Grabrucker, U. Thomas, A. Schmitt, S. Glaschick, ED. Gundelfinger, U. Nienhaus and TM. Böckers, Ulm and Magdeburg*
- TS3-8A** INFLUENCE OF ABI-1 ON DENDRITOGENESIS AND SYNAPTIC MORPHOLOGY OF HIPPOCAMPAL NEURONS  
*S. Johannsen, C. Proepper and TM. Boeckers, Ulm*
- TS3-9A** MORPHOLOGICAL AND QUANTITATIVE STUDY OF NERVE CELLS IN THE ANTERIOR VENTRAL NUCLEUS OF THE HUMAN THALAMUS  
*MM. Sabubeh, SM. Bani Hani and MS. AL-Haidari, Nablus (Palestinian Authority), Irbid (JO) and Baghdad (IQ)*

- TS3-10A** DIFFERENT DENSITY OF THE GABA<sub>B1</sub> SUBUNIT IN SUBCELLULAR COMPARTMENTS OF CCK- AND PV-CONTAINING HIPPOCAMPAL INTERNEURONS  
*A. Gross, R. Shigemoto, M. Frotscher, I. Vida and A. Kulik, Freiburg and Okazaki (JP)*

## S4: Structure and function of the vertebrate retina

- TS4-1A** A MODEL FOR SPONTANEOUS, PROPAGATING WAVES IN THE DEVELOPING VERTEBRATE RETINA  
*MH. Hennig, Edinburgh (UK)*
- TS4-2A** THE DEVELOPING PHOTORECEPTOR RIBBON  
*H. Regus-Leidig, D. Specht, S. tom Dieck and JH. Brandstätter, Frankfurt/M.*
- TS4-3A** MOLECULAR ASPECTS OF CYTOMATRIX DYNAMICS AT THE PHOTORECEPTOR RIBBON SYNAPSE  
*D. Specht, S. tom Dieck, H. Regus-Leidig and JH. Brandstätter, Frankfurt/M. and Erlangen*
- TS4-4A** OFF MIDGET BIPOLAR CELLS OF THE PRIMATE RETINA EXPRESS AMPA RECEPTORS  
*C. Puller, S. Haverkamp and U. Grünert, Frankfurt/Main and Melbourne (AU)*
- TS4-5A** ALTERED RETINAL CONE OPSIN EXPRESSION IN POSTNATALLY HYPOTHYROID PAX8-DEFICIENT MICE  
*A. Glaschke, M. Glösmann and L. Peichl, Frankfurt/M.*
- TS4-6A** POSTSYNAPTIC EXPRESSION OF A PUTATIVE L-TYPE CALCIUM CHANNEL AT PHOTORECEPTOR RIBBON SYNAPSES IN THE MOUSE RETINA  
*S. tom Dieck, D. Specht, H. Regus-Leidig and JH. Brandstätter, Frankfurt/M. and Erlangen*
- TS4-7A** CONE PHOTORECEPTORS AND ULTRAVIOLET VISION IN THE FLOWER BAT GLOSSOPHAGA SORICINA (MICROCHIROPTERA, PHYLLOSTOMIDAE)  
*B. Müller, L. Peichl, Y. Winter, O. von Helversen and M. Glösmann, Frankfurt/M., Bielefeld and Erlangen*
- TS4-8A** GLYCOGEN PHOSPHORYLASE IMMUNOREACTIVE AMACRINE CELLS IN THE MACAQUE MONKEY RETINA  
*S. Haverkamp, S. Majumdar and H. Wässle, Frankfurt/M.*
- TS4-9A** INDIVIDUAL VARIATION IN ROD ABSORBANCE SPECTRA CORRELATED WITH OPSIN GENE POLYMORPHISM IN SAND GOBY (*POMATOSCHISTUS MINUTUS*)  
*MJ. Jokela-Määttä, A. Vartio, L. Paulin and K. Donner, Helsinki (FI)*
- TS4-10A** MÜLLER CELL GLIOSIS IN RESPONSE TO LIGHT-EVOKED PHOTORECEPTOR APOPTOSIS  
*T. Pannicke, A. Wurm, I. Iandiev, A. Reichenbach, P. Wiedemann and A. Bringmann, Leipzig*



- TS4-11A** ALTERATIONS IN MÜLLER GLIA CELL PHYSIOLOGY IN A PORCINE MODEL OF RETINAL DETACHMENT  
*A. Wurm, T. Pannicke, I. Iandiev, A. Reichenbach, P. Wiedemann, S. Uhlmann and A. Bringmann, Leipzig*
- TS4-12A** TWO FACES OF CALCIUM ACTIVATION AFTER OPTIC NERVE TRAUMA: LIFE OR DEATH OF RETINAL GANGLION CELLS IN VIVO DEPENDS ON CALCIUM DYNAMICS  
*S. Prilloff, I. Noblejas, V. Chedhomme and BA. Sabel, Magdeburg*
- TS4-13A** WAVELENGTH DISCRIMINATION IN GOLDFISH: INHIBITORY MECHANISMS IN THE RETINA  
*C. Albrecht, B. Weirich and C. Mora-Ferrer, Mainz*
- TS4-14A** EFFECT OF GLYCINE- AND GABA<sub>A</sub>-RECEPTOR BLOCKADE ON GOLDFISH FLICKER PERCEPTION  
*B. Benkner and C. Mora-Ferrer, Mainz*
- TS4-15A** RETINAL EXPRESSION AND INTEGRATION OF THE USH1G PROTEIN SANS IN THE USH PROTEIN INTERACTOM  
*N. Overlack, T. Märker, E. van Wijk, B. Reidel, T. Goldmann, R. Roepman, H. Kremer and U. Wolftrum, Mainz and Nijmegen (NL)*
- TS4-16A** THE PHARMACOLOGICAL PROFILE OF THE CONTRAST-DEPENDENT OPTOMOTOR RESPONSE IN GOLDFISH  
*RB. Schmidt-Hoffmann and C. Mora-Ferrer, Mainz*
- TS4-17A** GOLDFISH FULL-FIELD MOTION PERCEPTION IS ELIMINATED AFTER BLOCKADE OF THE ROD ON-CHANNEL UNDER SCOTOPIC ILLUMINATION CONDITIONS AND IMPAIRED UNDER MESOPIC ILLUMINATION CONDITIONS  
*VM. Vergin and C. Mora-Ferrer, Mainz*
- TS4-18A** APPLICATION OF ATR-FTIR MICROSPECTROSCOPY TO THE INVESTIGATION OF THE PHOTOTRANS-DUCTION PROCESS  
*S. Massaro, T. Zlateva, L. Quaroni and V. Torre, Mogliano Veneto (Treviso) (IT) and Trieste (IT)*
- TS4-19A** EXPRESSION OF ERG1 POTASSIUM CHANNELS IN HORIZONTAL CELL BODIES BUT NOT AXON TERMINALS OF THE MOUSE RETINA  
*A. Feigenspan and R. Weiler, Oldenburg*
- TS4-20A** LOCALIZATION OF CONNEXIN57 IN DENDRO-DENDRITIC AND AXO-AXONAL GAP JUNCTIONS OF MOUSE HORIZONTAL CELLS  
*K. Schultz, U. Janssen-Bienhold, P. Dirks, J. Shelley, G. Hilgen, S. Hombach, K. Willecke and R. Weiler, Oldenburg and Bonn*
- TS4-21A** ROD AND CONE CONTRIBUTIONS TO HORIZONTAL CELL RESPONSES IN THE MOUSE RETINA  
*J. Shelley, T. Schubert, K. Dedek, M. Seeliger and R. Weiler, Oldenburg and Tübingen*
- TS4-22A** TURTLE RETINAL GANGLION CELLS ENCODE STIMULUS SPEED, DIRECTION AND ACCELERATION  
*A. Thiel, M. Greschner, J. Ammermüller and J. Kretzberg, Oldenburg*

- TS4-23A** RETINAL GENE EXPRESSION IN MICE AND CHICKS WITH VISUAL EXPERIENCE THAT INDUCES REFRACTIVE ERRORS  
*R. Schippert, C. Brand, M. Feldkaemper and F. Schaeffel, Tübingen*
- TS4-24A** VISUAL PIGMENT REGENERATION MECHANISMS IN THE ZEBRAFISH  
*VC. Fleisch, H. Schoenthaler, J. von Lintig and S. Neuhaus, Zürich (CH), Vienna (AT) and Freiburg*
- TS4-25A** ZEBRAFISH MODEL FOR HUMAN USHER SYNDROME SHOWS LIGHT ADAPTATION DEFECTS AND RETINAL DEGENERATION  
*C. Hodel, SCF. Neuhaus and O. Biehlmaier, Zürich (CH)*
- TS4-26A** GLUTAMATE TRANSPORT IN THE ZEBRAFISH RETINA  
*A. Lesslauer and SCF. Neuhaus, Zürich (CH)*
- TS4-27A** THE ZEBRAFISH MUTANT NOIR IS A MODEL FOR INNER RETINAL DYSTROPHIES  
*CM. Maurer, HB. Schönthaler, Y. Makhankov and SCF. Neuhaus, Zürich (CH) and Vienna (AT)*

## S5: Cannabinoids and the nervous system: different views on multiple actions

- TS5-1A** THE ABNORMAL-CANNABIDIOL-SENSITIVE RECEPTOR AND EXCITOTOXIC NEURONAL DAMAGE IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES  
*S. Kreutz, M. Koch, HW. Korf and F. Dehghani, Frankfurt/M.*

## S6: The cortical nerve impulse

- TS6-1A** MEMBRANE RESONANCE SHAPES THE PATTERN OF SPONTANEOUS FIRING IN THE ENTORHINAL CORTEX  
*TA. Engel, S. Schreiber, L. Schimansky-Geier, AVM. Herz and I. Erchova, Berlin*

## S7: Molecular aspects of synapse function and dysfunction in the mammalian brain

### Friday

- TS7-1B** ATTENUATED EFFECTS OF CARBAMAZEPINE AND PHENYTOIN ON CA1 NEURONS IN CHRONIC EXPERIMENTAL EPILEPSY  
*C. Schaub, M. Uebachs and H. Beck, Bonn*
- TS7-2B** GLUTAMINE SYNTHETASE BECOMES PARTIALLY INHIBITED BY THE NITRATION OF TYROSINE RESIDUES AFTER REPEATED PTZ-INDUCED SEIZURES  
*HJ. Bidmon, B. Görg, N. Palomero-Gallgher, A. Schleicher, EJ. Speckmann and K. Zilles, Düsseldorf and Münster*
- TS7-3B** CHARACTERIZATION OF A NOVEL SYNAPTIC VESICLE PROTEIN IDENTIFIED BY A PROTEOMIC APPROACH  
*W. Volkmandt, J. Burré, T. Beckhaus, H. Schägger, M. Karas and H. Zimmermann, Frankfurt/M.*



- TS7-4B** MABP1 DEFICIENCY SUGGESTS A ROLE FOR ACTIN IN VESICLE FISSION  
*N. Glyvuk, Y. Tsytsyura, C. Thiel, J. Wienands and J. Klingauf, Göttingen*
- TS7-5B** HIERARCHICAL ABILITY OF SNAP-25 HOMOLOGUES TO SUPPORT NEURONAL FUNCTION  
*ID. Martinez and JB. Sorensen, Göttingen*
- TS7-6B** ADENOVIRAL EXPRESSION OF MULTIPLE PROTEINS OF INTEREST TO STUDY EXOCYTOSIS IN CHROMAFFIN CELLS  
*R. Mohrmann and J. Soerensen, Göttingen*
- TS7-7B** DISRUPTION OF CLATHRIN-MEDIATED ENDOCYTOSIS IN HIPPOCAMPAL SYNAPSES CAUSES A SHIFT TO A BULK ENDOCYTOTIC MODE OF MEMBRANE RETRIEVAL, BUT NOT TO KISS AND RUN  
*Y. Tsytsyura, N. Glyvuk, M. Krikunova, N. Jung, V. Haucke and J. Klingauf, Göttingen and Berlin*
- TS7-8B** DENDRITIC MRNA TRANSPORT: CIS-ELEMENTS, TRANS-FACTORS AND MOTOR PROTEINS  
*S. Kindler, M. Rehbein and KH. Zivraj, Hamburg*
- TS7-9B** THE VOLTAGE-GATED CALCIUM CHANNEL IS THE CALCIUM SENSOR PROTEIN OF SECRETION  
*D. Atlas and I. Lerner, Jerusalem (IL)*
- TS7-10B** TRPC CHANNEL-MEDIATED SIGNALING IN CEREBELLAR PURKINJE CELLS  
*J. Hartmann, E. Dragicevic, R. Blum, M. Freichel, A. Dietrich, L. Birnbaumer, V. Flockerzi and A. Konnerth, München, Homburg, Marburg and Research Triangle Park (USA)*
- TS7-11B** OVEREXPRESSION OF INDIVIDUAL GAMMA-PROTECADHERINS IN TRANSGENIC MOUSE MODELS  
*M. Frank, M. Ebert and R. Kemler, Marburg and Freiburg*
- TS7-12B** UBMUNC13-2 ENHANCES VESICLES RECRUITMENT IN A CALMODULIN DEPENDENT MANNER  
*A. Mezer, D. Zikich, M. Gutman, N. Esther, R. Melamed, H. Junge, N. Brose and U. Ashery, Tel Aviv (IL) and Göttingen*

## **S8: Olfactory development: Common principles and differences across Phyla**

- TS8-1B** A NOVEL OLFACTORY RECEPTOR GENE FAMILY IN TELEOST FISH  
*LR. Saraiva and SI. Korsching, Köln*
- TS8-2B** ODOR TUNING CURVES FOR ZEBRAFISH OLFACTORY RECEPTOR NEURONS IN VIVO  
*C. Potting, L. Saraiva and SI. Korsching, Köln*
- TS8-3B** FUNCTIONAL CHARACTERISATION OF AN UNIVERSAL OLFACTORY RECEPTOR CLASS C PROMOTER  
*YY. Kwan, Köln*
- TS8-4B** SEMAPHORIN-1A AND DSCAM CONTROL SYNAPTIC SPECIFICITY IN DROSOPHILA OLFACTORY SYSTEM DEVELOPMENT  
*T. Hummel, Münster*

- TS8-5B** PUPAL STAGING AND METAMORPHIC DEVELOPMENT OF THE ANTENNAL LOBES OF THE RED FLOUR BEETLE *TRIBOLIUM CASTANEUM*  
*S. Dippel, D. Dreyer, W. Huetteroth and J. Schachtner, Marburg*
- TS8-6B** THE *TRIBOLIUM* BRAIN: 3D RECONSTRUCTION AND IMMUNOCYTOCHEMICAL MAPPING DURING METAMORPHOSIS AND IN THE ADULT  
*D. Dreyer, S. Dippel, W. Huetteroth and J. Schachtner, Marburg*
- TS8-7B** 3D RECONSTRUCTION OF *MANDUCA SEXTA* ADULT BRAIN AND OF BRAINS DURING METAMORPHIC DEVELOPMENT  
*B. el Jundi, W. Huetteroth and J. Schachtner, Marburg*
- TS8-8B** TIME COURSE OF NO DEPENDENT CGMP REGULATION AND ITS INFLUENCE ON ANTENNAL LOBE NEUROPIIL DEVELOPMENT IN THE SPHINX MOTH *MANDUCA SEXTA*  
*W. Huetteroth, S. Utz and J. Schachtner, Marburg*
- TS8-9B** PROMOTOR-MOTIFS GOVERNING THE SPATIAL EXPRESSION PATTERN OF OLFACTORY RECEPTORS  
*YQ. Zhang, H. Breer and J. Strotmann, Stuttgart*
- TS8-10B** PSYCHOPHYSICAL EVIDENCES OF THE CROSS-MODAL INTERACTION OF HUMAN FACES AND OF SMELLING GENDER SPECIFIC SEX HORMON-LIKE SUBSTANCES  
*Z. Zsadányi-Nagy and G. Kovács, Szeged (HU) and Budapest (HU)*
- TS8-11B** SHORT RANGE DETECTION AND NEURAL REPRESENTATION OF NESTMATE RECOGNITION CUES IN THE ANT *CAMPONOTUS FLORIDANUS*  
*AS. Brandstätter and C.J. Kleineidam, Würzburg*
- TS8-12B** CASTE-SPECIFIC DIFFERENCES IN SYNAPTIC DEVELOPMENT WITHIN OLFACTORY NEUROPILS OF THE FEMALE HONEYBEE BRAIN  
*C. Groh and W. Rössler, Würzburg*
- TS8-13B** PLASTICITY OF SYNAPTIC MICROCIRCUITS IN THE MUSHROOM-BODY CALYX OF THE HONEYBEE BRAIN  
*T. Münz, C. Groh and W. Rössler, Würzburg*
- TS8-14B** NEUROMODULATION AND SYNAPTIC PLASTICITY WITHIN OLFACTORY CENTERS IN THE BRAIN OF THE CARPENTER ANT, *CAMPONOTUS FLORIDANUS*  
*C. Ziegler, NK. Starke, C. Zube, S. Kirschner and W. Rössler, Würzburg*
- TS8-15B** ORGANIZATION OF GLOMERULI AND OLFACTORY PROCESSING OF TRAIL PHEROMONE IN THE ANT, *CAMPONOTUS FLORIDANUS*  
*C. Zube, S. Kirschner, J. Neef, C. Kleineidam and W. Rössler, Würzburg*
- TS8-16B** NEUROANATOMICAL SUB-CASTES IN LEAF-CUTTING ANTS: DIFFERENCES IN ANTENNAL LOBE DESIGN CORRELATE WITH OLFACTORY GUIDED BEHAVIOR  
*LS. Kuebler, C. Kelber, W. Roessler and C.J. Kleineidam, Würzburg*



## S9: Recent advances in the use of cell penetrating peptides

- TS9-1B** APPLICATION OF TAT-HSP70 IN THE MPTP-MOUSE MODEL FOR PARKINSON'S DISEASE  
*F. Nagel, B. Falkenburger, S. Kowsky, C. Pöppel-meyer, JB. Schulz, M. Bähr and GPH. Dietz, Göttingen*

## S10: Generating rhythmic movement: From microcircuits to complex motor programs

- TS10-1B** SEVOFLURANE BUT NOT NITROUS OXIDE ENHANCES PRESYNAPTIC IA-INHIBITION IN HUMANS  
*JH. Baars, M. Benzke, F. von Dincklage and B. Rehberg, Berlin*
- TS10-2B** GAMMA-RANGE CORTICO-MUSCULAR COHERENCE DURING DYNAMIC FORCE OUTPUT  
*W. Omlor, A. Andrykiewicz, L. Patino, MC. Hepp-Reymond and R. Kristeva, Freiburg and Zurich (CH)*
- TS10-3B** CHANGES IN AIMED LIMB MOVEMENTS DURING GROWTH AND DEVELOPMENT IN AN INSECT  
*A. Patel and T. Matheson, Leicester (UK)*
- TS10-4B** ACETYLCHOLINE RATHER THAN OCTOPAMINE ACTIVATES THE LOCUST FLIGHT CPG  
*E. Buhl, K. Schildberger and PA. Stevenson, Leipzig*

## S11: Brain tumors

- TS11-1B** ERUCYLPHOSPHOHOMOCHOLINE-INDUCED CELL DEATH IN HUMAN GLIOMA CELLS: ROLE OF REACTIVE OXYGEN SPECIES  
*W. Kugler, K. Linnemannstons, L. Veenman, M. Gavish and M. Lakomek, Göttingen and Haifa (IL)*

## S12: Computational models of vision

- TS12-1B** CORRESPONDENCE BASED OBJECT RECOGNITION WITH NETWORKS OF CORTICAL COLUMNS  
*P. Wolfrum and C. von der Malsburg, Frankfurt/M.*
- TS12-2B** CENTRINS, GATEKEEPERS FOR THE LIGHT-DEPENDENT TRANSLOCATION OF TRANSDUCIN THROUGH THE CONNECTING CILIUM OF THE PHOTORECEPTOR CELL, REGULATED VIA CALCIUM AND PHOSPHORYLATION  
*A. Giessl, S. Rausch, P. Trojan, MC. Thissen, D. Wünschig, S. Klumpp, A. Pulvermueller and U. Wolfrum, Mainz, Berlin and Münster*
- TS12-3B** THE NEURAL PROCESSING OF NATURAL STEREOSCOPIC IMAGES. AN EEG STUDY  
*B. Bernhardt, S. Onat, SK. Nagel, HP. Frey and P. König, Montreal (CA) and Osnabrück*
- TS12-4B** OVERT ATTENTION DURING FREE VIEWING OF NATURAL STEREOSCOPIC IMAGES  
*L. Jansen, S. Onat and P. König, Osnabrück*



- TS12-5B** ASSESSING STEREO MATCHING ALGORITHMS USING GROUND-TRUTH DISPARITY MAPS OF NATURAL SCENES  
*R. Martin, JM. Steger, K. Lingemann, A. Nüchter, J. Hertzberg and P. König, Osnabrück*
- TS12-6B** INTEGRATION OF DIFFERENT FEATURES IN GUIDING EYE-MOVEMENTS  
*F. Schumann, A. Acik, S. Onat and P. König, Osnabrück*
- TS12-7B** VISUAL GROUND SPEED CONTROL IN FREE-FLYING FRUIT FLIES  
*N. Rohrseitz, AD. Straw and SN. Fry, Zürich (CH) and Pasadena (USA)*

## S14: Cell intrinsic mechanisms in the regulation of neural development

### Saturday

- TS14-1C** PAX6-MEDIATED INDUCTION OF GLUTAMATERGIC NEURONS IN EMBRYONIC STEM CELL CULTURES  
*C. Keller, P. Koch, M. Hack, M. Goetz and O. Bruestle, Bonn and München*
- TS14-2C** A CONSERVED ROLE FOR THE RELATED PROTEIN MEIS2 DURING VERTEBRATE EYE DEVELOPMENT  
*P. Heine, KM. Bumsted-O'Brien, D. Engelkamp and D. Schulte, Frankfurt/M. and Auckland (NZ)*
- TS14-3C** EARLY PATTERNING ALONG THE DORSO-VENTRAL AXIS OF THE MIDBRAIN: TRANSCRIPTIONAL REGULATION OF EPHRINB1 EXPRESSION  
*Z. Agoston, A. Badde and D. Schulte, Frankfurt/M.*
- TS14-4C** DIVERGENT ROLES OF APOE2 AND VLDLR IN NEURONAL MIGRATION  
*I. Hack, S. Weinelt, B. Brunne, D. Junghans, S. Zhao and M. Frotscher, Freiburg*
- TS14-5C** ORTHOPEDIA HOMEODOMAIN PROTEIN IS ESSENTIAL FOR DIENCEPHALIC DOPAMINERGIC NEURON DEVELOPMENT  
*S. Ryu, J. Mahler, D. Acampora, J. Holzschuh, S. Erhardt, A. Simeone and W. Driever, Freiburg and Naples (IT)*
- TS14-6C** TRANSPORT OF HCN1 CHANNELS TO PRESYNAPTIC COMPARTMENTS: NOVEL PLASTICITY THAT MAY CONTRIBUTE TO ESTABLISHMENT OF CONNECTIVITY IN DEVELOPING HIPPOCAMPUS  
*RA. Bender, O. Kretz, H. Beck, M. Frotscher, TZ. Baram and T. Kirschstein, Hamburg, Freiburg, Bonn, Irvine (USA) and Rostock*
- TS14-7C** PRESENCE OF DOUBLE-STRAND BREAKS DURING RETINAL NEUROGENESIS  
*J. Baleriola and E. de la Rosa, Madrid (ES)*



## S15: Microglia: Role in neurodegeneration and repair

- TS15-1C** DIFFERENTIATION OF MOUSE EMBRYONIC STEM CELLS TO MICROGLIA  
*K. Kierdorf, O. Chechneva, I. Napoli and H. Neumann, Bonn and Rio de Janeiro (BR)*
- TS15-2C** LIPOTEICHOIC ACID-INDUCED LOSS OF CEREBELLAR GRANULE CELLS IN MIXED NEURONAL-GLIAL CULTURES IS PREVENTED BY MINOCYCLINE AND THE PHAGOCYTOSIS INHIBITOR, CYTOCHALASIN D  
*JJ. Neher and GC. Brown, Cambridge (UK)*
- TS15-3C** THE THERAPEUTIC TIME FRAME OF INTERLEUKIN-1 RECEPTOR ANTAGONIST AFTER NEURONAL DAMAGE IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES (OHSC)  
*C. Vogt, NP. Hailer and F. Dehghani, Frankfurt/M. and Uppsala (SE)*
- TS15-4C** NEURAL ELEMENTS TRANSFORM INTO CD11C+ DENDRITIC CELLS  
*I. Bechmann, J. Bunse, A. Zimmermann and C. Brandt, Frankfurt/M. and Berlin*
- TS15-5C** IN VIVO LASER SCANNING MICROSCOPY OF TRANSGENIC MICE EXPRESSING EGFP IN MICROGLIAL CELLS TO STUDY SPINAL CORD DISEASES  
*C. Neusch, H. Steffens, J. Hirrlinger and F. Kirchhoff, Göttingen and Leipzig*
- TS15-6C** ABERRANT MICROGLIAL ACTIVATION AND DEGENERATION IN RATS EXPRESSING A MUTANT CU/ZN SUPEROXIDE DISMUTASE GENE  
*WJ. Streit and SE. Fendrick, Gainesville (USA)*
- TS15-7C**  $\alpha$ -TOCOPHEROL-SUCCINATE INDUCES APOPTOSIS IN THE MICROGLIAL CELL LINE, BV-2, BUT NOT IN PRIMARY MICROGLIAL CELLS  
*B. Sacha, S. Zierler, S. Lehnardt, JR. Weber and HH. Kerschbaum, Salzburg (AT) and Berlin*
- TS15-8C** CYCLIC ADENOSINE 3',5'-MONOPHOSPHATE (CAMP) MEDIATES AMMONIA-INDUCED PROGRAMMED CELL DEATH IN THE MICROGLIAL CELL LINE, BV-2  
*N. Svoboda and HH. Kerschbaum, Salzburg (AT)*

## S16: Active sensing: How nervous systems explore the external world

- TS16-1C** BIOMECHANICAL CHARACTERISTICS OF AN ACTIVE TACTILE SENSOR  
*V. Dürr and JH. Dirks, Bielefeld*
- TS16-2C** ACTIVE VISION STRATEGY DURING FLIGHT IN *ERISTALIS TENAX*  
*BRH. Geurten, E. Braun, R. Kern and M. Egelhaaf, Bielefeld*
- TS16-3C** ON THE SEGREGATION OF OBJECT AND BACKGROUND BY A NEURON MOST SENSITIVE TO SMALL-FIELD MOTION  
*J. Heitwerth, R. Kern and M. Egelhaaf, Bielefeld*

- TS16-4C** OPTIC FLOW GENERATED BY ACTIVE SACCADIC FLIGHT STRATEGY OF BLOWFLIES  
*R. Kern, JP. Lindemann and M. Egelhaaf, Bielefeld*
- TS16-5C** ACTIVE TACTILE SAMPLING PATTERNS DURING INSECT WALKING AND CLIMBING  
*AF. Krause, C. Schütz and V. Dürr, Bielefeld*
- TS16-6C** SIMULATED BLOWFLY TANGENTIAL CELLS CONTROL VIRTUAL FLIGHT BEHAVIOUR  
*JP. Lindemann, R. Möller and M. Egelhaaf, Bielefeld*
- TS16-7C** THE IMPACT OF OPTOMOTOR STIMULATION ON THE PURSUIT SYSTEM OF MALE BLOWFLIES  
*C. Trischler, R. Kern and M. Egelhaaf, Bielefeld*
- TS16-8C** A SPARKING FISH THAT COUNTS – TRANSFORMATION OF A LATENCY CODE TO A RATE CODE IN WEAKLY ELECTRIC FISH  
*J. Engelmann, M. Metzner and J. Bacelo, Bonn and Gif-sur-Yvette (FR)*
- TS16-9C** OBJECT PERCEPTION IN ACTIVELY SENSING ELECTRIC FISH  
*G. von der Emde and S. Fetz, Bonn*
- TS16-10C** WHAT HOMING WASPS SEE  
*N. Boeddeker, W. Stürzl, J. Hemmi and J. Zeil, Canberra, ACT (AU)*
- TS16-11C** TRP-DEPENDENT MECHANICAL GATING OF AUDITORY TRANSDUCERS IN THE *DROSOPHILA* EAR  
*JT. Albert and MC. Göpfert, Köln*
- TS16-12C** CORRELATES OF MECHANICAL INPUT AMPLIFICATION IN THE ELECTRICAL OUTPUT OF THE *DROSOPHILA* EAR  
*T. Effertz and M. Goepfert, Köln*
- TS16-13C** REGULATION OF MECHANICAL INPUT AMPLIFICATION IN *DROSOPHILA* HEARING  
*M. Goepfert and P. Treskes, Köln*
- TS16-14C** ACTIVE TRANSDUCTION MODEL EXPLAINS THE PERFORMANCE OF THE *DROSOPHILA* EAR  
*B. Nadrowski and M. Goepfert, Köln*
- TS16-15C** SPATIAL AND TEMPORAL ACTIVITY CHARACTERISTICS IN PRIMARY AUDITORY CORTEX INVESTIGATED WITH CURRENT SOURCE DENSITY ANALYSIS UNDER PHARMACOLOGICAL MANIPULATION  
*MF. Happel, M. Jescke, M. Deliano and FW. Ohl, Magdeburg*
- TS16-16C** DISENTANGLING THE CONTRIBUTION OF INTRA-CORTICAL AND THALAMO-CORTICAL PROJECTIONS TO THE GENERATION OF SUBTHRESHOLD SPECTRAL RECEPTIVE FIELDS IN THE AUDITORY CORTEX  
*M. Jeschke, M. Deliano and FW. Ohl, Magdeburg*
- TS16-17C** EFFECTS OF IONTOPHORETICAL APPLICATION OF GABA AND GABAZINE REMOTE FROM THE APPLICATION SITE IN GERBIL PRIMARY AUDITORY CORTEX  
*C. Möller, S. Kurt, H. Scheich and H. Schulze, Magdeburg and Ulm*



- TS16-18C** REPRESENTATION OF TEXTURE INFORMATION IN THE BARREL CORTEX OF THE RAT  
*PM. Itskov, M. Vonheimendahl and ME. Diamond, Trieste (IT)*
- TS16-19C** THE FUNCTIONAL ARCHITECTURE OF THE SHARK'S DORSAL-OCTAVOLATERAL NUCLEUS: AN *IN-VITRO* STUDY  
*N. Rotem, E. Sestieri, D. Cohen, M. Paulin, H. Meiri and Y. Yarom, Eilat (IL), Ramat Gan (IL), Dunedin (NZ) and Jerusalem (IL)*

## **S17: Genetics and molecular mechanisms of Parkinson's disease**

- TS17-1C** THE BIOCHEMICAL CHARACTERIZATION OF NEUROMELANIN GRANULES FROM THE HUMAN SUBSTANTIA NIGRA  
*F. Tribl, T. Müller, E. Asan, T. Arzberger, HE. Meyer, M. Gerlach, P. Riederer and K. Marcus, Bochum, Würzburg and München*
- TS17-2C** THE *DROSOPHILA* HOMOLOG OF PARKINSON'S DISEASE ASSOCIATED LRRK ACTIVATES ERK SIGNALING AND REDUCES DOPAMIN IN THE FLY  
*A. Voigt, B. Falkenburger and JB. Schulz, Göttingen*
- TS17-3C** MOLECULAR MECHANISMS AND NEUROPROTECTION IN CELLULAR MODELS OF PARKINSON'S DISEASE  
*CP. Dohm, A. Esposito, J. Liman, JC. Reed, M. Bähr, F. Wouters and P. Kermer, Göttingen and La Jolla (USA)*
- TS17-4C** ABSENCE OF ALPHA-SYNUCLEIN FROM THE NERVOUS SYSTEM REDUCES AXONAL DEGENERATION  
*H. Siebert, PJ. Kahle, OM. Schlüter and W. Brück, Göttingen and Tübingen*
- TS17-5C** PROTEASOME INHIBITION FAILED TO ACT AS A NEW ANIMAL MODEL OF PARKINSON'S DISEASE IN WISTAR RATS, BUT LED TO CHANGES IN TYROSINE HYDROXYLASE CONTENTS OF OLFACTORY BULB AND ADRENAL MEDULLA  
*A. Hawlitschka, S. Haas, O. Schmitt and A. Wree, Rostock*
- TS17-6C** INFLUENCE OF SHORT-TERM DEEP BRAIN STIMULATION OF THE SUBTHALAMIC NUCLEUS ON HOMER1 GENE EXPRESSION IN RATS WITH UNILATERAL 6-HYDROXYDOPAMINE LESION  
*J. Henning, A. Rolfs, R. Benecke and U. Gimsa, Rostock*

## **S18: Compositionality: Neuronal basis of complex behavior**

- TS18-1C** A COMPOSITION MACHINE FOR COMPLEX MOVEMENTS  
*S. Schrader, A. Morrison and M. Diesmann, Freiburg and Tokyo (JP)*

- TS18-2C** SINGLE-CELL-RESOLUTION MAPS OF THE CEREBRAL METABOLISM IN THE RODENT CNS SHOW REGIONAL DIFFERENCES IN NEURONAL AND ASTROCYTIC CONTRIBUTION TO K<sup>+</sup> AND ENERGY METABOLISM.  
*H. Lison, E. Budinger, H. Scheich and J. Goldschmidt, Magdeburg*

## **S19: Spatial cognition: From rodents to humans**

- TS19-1C** UNSUPERVISED LEARNING OF PLACE CELLS AND HEAD DIRECTION CELLS WITH SLOW FEATURE ANALYSIS  
*M. Franzius, H. Sprekeler and L. Wiskott, Berlin*
- TS19-2C** HIPPOCAMPAL ACTIVATION IN THE ZEBRA FINCH DURING LEARNING AND RECALL OF A SPATIAL MEMORY TASK  
*U. Mayer, Y. Hardes, L. Hertel, S. Watanabe and HJ. Bischof, Bielefeld and Tokyo (JP)*
- TS19-3C** HIPPOCAMPAL CA3 SUBFIELD CELL DEGENERATION INDUCES SPATIAL COGNITION DYSFUNCTION IN KAINIC ACID MODEL OF EPILEPSY; CORRELATION OF ANATOMY AND BEHAVIOUR  
*M. Sajad, N. Srivastava, K. Seth and AK. Agrawal, Lucknow (IN)*
- TS19-4C** CODING OF INTERAURAL TIME SENSITIVITY OF CONCURRENT SOUNDS  
*I. Siveke, C. Leibold and B. Grothe, München and Berlin*
- TS19-5C** THE EFFECT OF EXPERIMENTAL NEOPLASTIC DISEASE IN RATS ON MOTOR AND SPATIAL BEHAVIOR  
*M. Szulc, M. Wieczorek, M. Medon, L. Luczak, A. Rybarczyk, M. Gorka, S. Michalak, W. Ambrosius, K. Osztynowicz and W. Kozubski, Poznan (PL)*
- TS19-6C** PSYCHOPHYSICS AND ELECTROPHYSIOLOGY IN VIRTUAL ENVIRONMENTS  
*HA. Mallot, A. Schnee, H. Dahmen, A. Fenton, E. Kelemen, HY. Kao and C. Hölscher, Tübingen, Brooklyn (USA) and Coleraine NI (UK)*
- TS19-7C** DO RATS USE OPTICAL FLOW FOR MOTION CONTROL ?  
*J. Thiele, Tübingen*

## **S20: The *Drosophila* NMJ: Unravelling principal mechanisms of synapse formation, function and plasticity**

- TS20-1C** THE SOC-1 PROTEIN MODULATES LEVAMISOLE AND GABA<sub>A</sub> RECEPTOR FUNCTIONS AT THE NMJ IN *C. ELEGANS*  
*T. Schedletzky, J. Liewald and A. Gottschalk, Frankfurt/ M.*
- TS20-2C** QUEST FOR THE ROLE OF IRM-PROTEINS IN NEUROMUSCULAR JUNCTIONS OF *DROSOPHILA MELANOGASTER*  
*K. Chaudhary, S. Schiller and KF. Fischbach, Freiburg*



- TS20-3C** *DROSOPHILA* SYNAPSES VIEWED AT THE LEVEL OF PROTEIN COMPLEXES: RECENT ADVANCES USING EM TOMOGRAPHY  
*B. Greiner, N. Delaney, N. Butcher, RM. Marshall and IA. Meinertzhagen, Halifax (CA) and Stanford (USA)*

## **S21: Glia development: Molecular control of specification, migration, differentiation and myelination of oligodendrocytes and Schwann cells**

- TS21-1C** CONTROL OF PERIPHERAL NERVE MYELINATION BY THE  $\beta$ -SECRETASE BACE1  
*AN. Garratt, M. Willem, P. Saftig, B. De Strooper, C. Birchmeier and C. Haass, Berlin, München, Kiel and Leuven (BE)*
- TS21-2C** CHONDROITIN SULPHATE GLYCOSAMINOGLYCANS ARE REQUIRED FOR THE DEVELOPMENT OF TELEENCEPHALIC NEURAL STEM/ PROGENITOR CELLS  
*S. Sirko, A. von Holst, A. Wizenmann, M. Götz and A. Faissner, Bochum and Neuherberg/München*
- TS21-3C** PPARDELTA AGONIST PROMOTES DIFFERENTIATION OF OLIGODENDROCYTES FROM OLIGOSPHERES  
*Al. Boullerne, P. Polak, S. Vujcic, A. Othman and DL. Feinstein, Chicago, Illinois (USA)*
- TS21-4C** IDENTIFICATION OF AN INTRINSIC INHIBITOR OF MYELINATING SCHWANN CELL DIFFERENTIATION  
*A. Heinen, T. Zimmermann and P. Küry, Düsseldorf*
- TS21-5C** DISTINCT FUNCTION OF NEUREGULIN-1 IN MYELINATION OF THE PERIPHERAL AND CENTRAL NERVOUS SYSTEM  
*BG. Brinkmann, MW. Sereda, A. Agarwal, M. Schwab, A. Garrat, C. Birchmeier and KA. Nave, Göttingen and Berlin*
- TS21-6C** PRENATAL GLUCOCORTICOID TREATMENT REDUCES MYELIN BASIC PROTEIN IN THE FETAL SHEEP BRAIN  
*I. Antonow-Schlorke, A. Helgert, T. Müller, H. Schubert, PW. Nathanielsz, OW. Witte and M. Schwab, Jena and San Antonio, Texas (USA)*
- TS21-7C** LINEAGE ANALYSIS OF OLIG2-POSITIVE CELLS IN THE ADULT BRAIN AFTER INJURY  
*L. Dimou, A. Buffo and M. Götz, München*

## **S23: Synchronization of circadian and neuronal oscillators**

- TS23-1C** SLOW SLEEP OSCILLATIONS: WHAT MAKES BIG WAVES IN THE EEG?  
*M. Mukovskiy, S. Chauvette, I. Timofeev and M. Volgushev, Bochum and Quebec (CA)*
- TS23-2C** THE NEUROARCHITECTURE OF A PUTATIVE CIRCADIAN PACEMAKER AREA IN THE SILVERFISH *LEPISMA SACCHARINA*  
*A. Dann and T. Reischig, Göttingen*

- TS23-3C** NEURONAL CONNECTIONS OF PUTATIVE CIRCADIAN PACEMAKER NEURONS IN THE ACCESSORY MEDULLA OF THE COCKROACH *LEUCOPHAEA MADERAE*  
*T. Reischig, Göttingen*
- TS23-4C** POSSIBLE INFLUENCES OF CIRCADIAN MELATONIN ON THE FUNCTION OF NEUROSECRETORY NEURONS, AND SEROTONIN-MODULATED BEHAVIOR IN CRAYFISH  
*AJ. Farca Luna, T. Reischig and R. Heinrich, Göttingen*
- TS23-5C** IMPROVED LEARNING AND ALTERED SLEEP PATTERNS IN SHARP-1 AND -2 DOUBLE-MUTANT MICE  
*M. Rossner, K. Radyushkin, PC. Baier, F. Kirchoff and KA. Nave, Göttingen*
- TS23-6C** UNSTABLE ATTRACTORS IN A SYSTEM OF PULSE-COUPLED OSCILLATORS WITH DELAY  
*EN. Subramanian, K. Efstathiou and H. Broer, Groningen (NL)*
- TS23-7C** 8-BR-CAMP MIMICKS THE EFFECTS OF PIGMENT-DISPERSING FACTOR ON THE ELECTRICAL ACTIVITY OF CIRCADIAN PACEMAKER CANDIDATES IN THE ACCESSORY MEDULLA OF THE COCKROACH *LEUCOPHAEA MADERAE*  
*NW. Funk, NL. Schneider and M. Stengl, Marburg and Oldenburg*
- TS23-8C** THE MOLECULAR BASIS OF THE CIRCADIAN CLOCK IN THE COCKROACH *LEUCOPHAEA MADERAE*  
*A. Werckenthin and M. Stengl, Marburg*
- TS23-9C** EXTRACELLULAR LONG-TERM RECORDINGS OF THE ISOLATED ACCESSORY MEDULLA, THE CIRCADIAN PACEMAKER CENTER OF THE COCKROACH *LEUCOPHAEA MADERAE* REVEAL ULTRADIAN AND HINT CIRCADIAN RHYTHMS  
*NL. Schneider and M. Stengl, Oldenburg and Marburg*
- TS23-10C** DEVELOPMENT OF LIGHT SENSITIVITY OF CLOCK GENES *PER1* AND *PER2* AND IMMEDIATE-EARLY GENE *C-FOS* WITHIN THE RAT SUPRACHIASMATIC NUCLEUS  
*K. Laurinová, R. El-Hennamy, M. Sládek, Z. Bendová and A. Sumová, Prague (CZ)*
- TS23-11C** ECTOPIC RELEASE OF PDF CAUSES INTERNAL DESYNCHRONISATION OF THE CIRCADIAN SYSTEM IN *SINE OCULIS*<sup>MEDUSA</sup> MUTANT FLIES  
*C. Wülbeck and C. Helfrich-Förster, Regensburg*
- TS23-12C** LIGHT AND TEMPERATURE SYNCHRONIZATIONS OF THE *DROSOPHILA* CIRCADIAN CLOCK  
*T. Yoshii, C. Wülbeck and C. Helfrich-Förster, Regensburg*

## **S24: Do we know what the early visual system computes?**

- TS24-1C** CONTRAST DEPENDENT SPATIAL INTEGRATION IN V1: BOLD, LFP, AND SPIKES  
*A. Thiele, D. Hunter, MA. Gieselmann and L. Sun, Newcastle upon Tyne (UK)*



- TS24-2C** IDENTIFYING TEMPORAL POPULATION CODES IN THE RETINA USING CANONICAL CORRELATION ANALYSIS  
*M. Bethge, JH. Macke, S. Gerwinn and G. Zeck, Tübingen and Martinsried*
- TS24-3C** BAYESIAN NEURAL SYSTEM IDENTIFICATION: ERROR BARS, RECEPTIVE FIELDS AND NEURAL COUPLINGS  
*S. Gerwinn, M. Seeger, G. Zeck and M. Bethge, Tuebingen and Martinsried*
- TS24-4C** THE FUNCTIONAL ROLE OF PATCHY CORTICAL CIRCUITS  
*RR. Rohrkemper Jr. and RJ. Douglas, Zurich (CH)*

# Saturday Night Disco Night



On Saturday, March 31, 2007 starting 9.00 p.m. the

Göttingen -Party

will take place in the Hörsaalgebäude at the entrance of the mensa.

Everyone is cordially invited. Participants of the meeting have free access. External guests are welcome (fee 3,-- €). Drinks are available at moderate prices.



## T1: Development I: Neural stem cells and neurogenesis

### Thursday

- T1-1A** GENE REGULATION OF TENASCIN C AND ITS ISOFORMS IN NEURAL STEM CELLS AND THE DEVELOPING MOUSE CENTRAL NERVOUS SYSTEM  
*U. Egbers, A. von Holst and A. Faissner, Bochum*
- T1-2A** AN INDUCTION GENE TRAP SCREEN FOR TENASCIN-C TARGET GENES IN NEURAL STEM CELLS  
*S. Moritz, S. Lehmann, A. Faissner and A. von Holst, Bochum*
- T1-3A** DEVELOPMENTAL EXPRESSION PATTERNS OF NMDA AND DELTA RECEPTORS IN DIFFERENTIATING EMBRYONIC STEM CELLS  
*E. Muth-Köhne and M. Hollmann, Bochum*
- T1-4A** SURVIVAL PROMOTING PEPTIDE (SPP) ALTERS THE NEUROTROPHIN EXPRESSION, RETARDS SOMATODENDRITIC DIFFERENTIATION BUT ENHANCES CELL MIGRATION  
*S. Wagh, C. Grote-Westrick, P. Landgraf, MR. Kreutz, HC. Pape and P. Wahle, Bochum, Magdeburg and Münster*
- T1-5A** NEURAL STEM CELLS FORM HUMAN EMBRYONIC STEM CELLS  
*P. Koch, T. Opitz, J. Steinbeck, J. Ladewig, J. Driehaus, A. Biegler, B. Seinfarz and O. Brüstle, Bonn*
- T1-6A** LINEAGE SELECTION OF DOUBLECORTIN-POSITIVE MIGRATORY HUMAN ES CELL-DERIVED NEUROBLASTS  
*J. Ladewig, P. Koch, B. Meiners, B. Seinfarz, S. Couillard-Despres, L. Aigner and O. Brüstle, Bonn and Regensburg*
- T1-7A** EMBRYONIC STEM CELL-DERIVED NEURONS DEVELOP FUNCTIONAL NEURONAL NETWORKS ON MICROELECTRODE ARRAYS  
*S. Illes, W. Fleischer, C. Bernreuther, M. Schachner, HP. Hartung, M. Siebler and M. Dihné, Düsseldorf and Hamburg*
- T1-8A** *IN VITRO* DIFFERENTIATION OF HUMAN UMBILICAL CORD BLOOD PROGENITOR CELLS  
*C. Ganser, A. Papazoglou, G. Lepski and G. Nikkhah, Freiburg*
- T1-9A** IMPAIRED NEUROGENESIS AND ASTROGLIAL GAP JUNCTION COUPLING IN BDV INFECTED DIFFERENTIATED P19 EMBRYONIC CARCINOMA CELLS  
*BM. Reuss and C. Köster-Patzlaff, Göttingen*
- T1-10A** EXPRESSION OF EPIGENETIC FACTORS IN MOUSE BRAIN DEVELOPMENT  
*T. Vogel, Göttingen*



## Friday

- T1-1B** CONTROL OF NEURONAL DIFFERENTIATION BY SATB GENES  
*MdC. de Juan, O. Britanova and V. Tarabiyin, Göttingen and Moscow (RU)*
- T1-2B** DEVELOPMENTAL DEFICITS IN CENTRAL AND PERIPHERAL MOUSE NERVOUS SYSTEM AFTER KNOCKOUT OF MEMBRANE FUSION PROTEINS  
*AJ. Kunwar, M. Rickmann, G. Fischer von Mollard and K. Krieglstein, Göttingen and Bielefeld*
- T1-3B** SIP1 REGULATES PROLIFERATION, DIFFERENTIATION, MATURATION AND MIGRATION IN THE EMBRYONIC MOUSE NEOCORTEX  
*A. Nityanandam, A. Miquelajauregui, E. Seuntjens, D. Huylebroeck and V. Tarabiyin, Göttingen and Leuven (BE)*
- T1-4B** INDUCTION AND SPECIFICATION OF SERTONERGIC NEURONS OF THE VENTRAL RHOMBENCEPHALON  
*N. Osterberg, E. Roussa and K. Krieglstein, Göttingen*
- T1-5B** EFFECT OF AGING ON HIPPOCAMPAL NEUROGENESIS IN THE CANINE BRAIN  
*A. Pekcec, VM. Stein, JP. Bankstahl, A. Tipold, W. Baumgärtner and H. Potschka, Hannover*
- T1-6B** INFLUENCE OF PHOSPHOINOSITIDE-3-KINASE GAMMA ON NEUROGENESIS IN ADULT DENTATE GYRUS  
*E. Chanina, C. König, M. Grün, OW. Witte, R. Wetzker and C. Redecker, Jena*
- T1-7B** LAYER-SPECIFIC EXPRESSION OF MULTIPLE (PROTO)-CADHERINS IN THE CEREBRAL CORTEX OF ADULT FERRET  
*K. K., M. Nürnberger and C. Redies, Jena*
- T1-8B** COMPARATIVE ANALYSIS OF THE CEREBELLAR SYSTEMS OF CHICKEN, MOUSE AND FERRET USING CADHERINS AS MOLECULAR MARKERS  
*F. Neudert, M. Nuernberger, K. K., J. Luo and C. Redies, Jena*
- T1-9B** REGIONAL EXPRESSION OF MULTIPLE (PROTO-)CADHERINS IN THE DEVELOPING CEREBRAL CORTEX OF THE FERRET  
*M. Nuernberger, K. K. and C. Redies, Jena*
- T1-10B** RADIATION INDUCED ALTERATION OF PROLIFERATIVE ACTIVITY IN THE FOREBRAIN OF EXPOSED MALE RATS AND THEIR OFFSPRING  
*S. Balentova, E. Racekova and E. Misurova, Kosice (SK)*

## Saturday

- T1-1C** THE EXPRESSION OF EMBRYONIC TAU PROTEIN ISOFORMS PERSIST DURING ADULT NEUROGENESIS IN THE HIPPOCAMPUS  
*T. Bullmann, R. de Silva, M. Holzer, H. Mori and T. Arendt, Leipzig, London (UK) and Osaka (JP)*

- T1-2C** STEM CELL TRANSPLANTATION IN RAT MODEL COGNITIVE DYSFUNCTION: NEUROBEHAVIORAL, NEUROCHEMICAL AND IMMUNOHISTOCHEMICAL ASSESSMENT  
*N. Srivastava, K. Seth and AK. Agrawal, Lucknow (IN)*
- T1-3C** PAX6-INSTRUCTED NEUROGENESIS FROM ASTROCYTES: MOLECULAR ANALYSIS OF PAX6 FUNCTION AND FUNCTIONAL FEATURES OF NEWBORN NEURONS  
*R. Blum, B. Berninger, A. Lepier, J. Ninkovic, H. Wohlfrom and M. Götz, München and GSF, Neuherberg*
- T1-4C** TRANSFORMING GROWTH FACTOR-BETA1 INHIBITS ADULT NEUROGENESIS  
*L. Aigner, FP. Wachs, B. Winner, S. Couillard-Despres, J. Winkler and U. Bogdahn, Regensburg*
- T1-5C** IMAGING OF NEUROGENESIS USING THE DOUBLECORTIN PROMOTER IN TRANSGENIC MICE  
*S. Couillard-Despres, B. Winner, U. Bogdahn, J. Winkler, J. Bischofberger and L. Aigner, Regensburg and Freiburg*
- T1-6C** BONE MARROW STROMAL CELLS INSTRUCT OLIGODENDROGENIC FATE DECISION ON ADULT NEURAL STEM CELLS  
*F.J. Rivera, S. Couillard-Despres, X. Pedre, S. Ploetz, M. Caioni, C. Lois, U. Bogdahn and L. Aigner, Regensburg and Cambridge (USA)*
- T1-7C** GLIOBLASTOMA-INITIATING CELLS: IDENTIFICATION BY STEM CELL PROPERTIES AND TUMORIGENITY BUT NOT CD133  
*D. Lemke, G. Tabatabai, K. Rauner, M. Tatagiba, N. Hopf, M. Weller and W. Wick, Tübingen and Stuttgart*
- T1-8C** BRAIN DEVELOPMENT IN THE MARBLED CRAYFISH: ANALYSING CELL PROLIFERATION AND NEURONAL EXPRESSION OF ENGRAILED  
*S. Sintoni, K. Fabritius-Vilpoux and S. Harzsch, Ulm*
- T1-9C** IS NATO3 A NOVEL REGULATOR OF FLOOR PLATE AND SPINAL CORD DEVELOPMENT?  
*AA. Mansour, E. Nissim-Eliraz, S. Zisman, T. Golan-Lev, O. Schatz, A. Klar and N. Ben-Arie, Jerusalem (IL)*

## T2: Development II: Migration and path finding

### Thursday

- T2-1A** PHENOTYPIC ANALYSIS OF SULF1 AND SULF2 DEFICIENT MICE  
*I. Kalus, M. Padva, R. d'Hooge and T. Dierks, Bielefeld, Göttingen and Leuven (BE)*
- T2-2A** IDENTIFICATION OF NOVEL INTRACELLULAR INTER-ACTION PARTNERS OF RPTPBETA/ZETA USING A BACTERIAL TWO-HYBRID SYSTEM  
*T. Sobik, A. Horvat-Bröcker, G. Zoidel, R. Dermietzel and A. Faissner, Bochum*



- T2-3A** COMPARISON OF EMBRYONIC ROSTRAL AND CAUDAL SEROTONIN NEURON GENE EXPRESSION PROFILES  
*C.J. Wylie, T. Hendricks, M. Goulding and E. Deneris, Cleveland OH (USA) and La Jolla CA (USA)*
- T2-4A** EARLY EXPERIENCE ALTERS HIPPOCAMPAL REELIN GENE EXPRESSION IN A GENDER-SPECIFIC MANNER  
*CM. Gross, A. Flubacher, A. Heyer, M. Scheller, I. Herpfer, M. Frotscher, K. Lieb and CA. Haas, Freiburg*
- T2-5A** AXON GUIDANCE IN THE DOPAMINERGIC SYSTEMS OF ZEBRAFISH  
*J. Schweitzer, S. Ryu, E. Kastenhuber and W. Driever, Freiburg*
- T2-6A** REELIN IS SECRETED BY THE CLASSICAL SECRETORY PATHWAY, BUT INDEPENDENT OF NEURONAL ACTIVITY  
*S. Tinnes, F. Armin, S. Zhao, M. Frotscher and CA. Haas, Freiburg*

### Friday

- T2-1B** OPPOSITE ROLES OF REELIN IN THE LAMINATION OF DENTATE GRANULE CELLS BY BINDING TO DIFFERENT RECEPTORS  
*S. Zhao, X. Chai, H. Bock, B. Brunne, E. Förster and M. Frotscher, Freiburg*
- T2-2B** NEURONAL CELL MIGRATION IN AN INSECT EMBRYO  
*S. Knipp and G. Bicker, Hannover*
- T2-3B** INFLUENCE OF NO/CGMP ON THE GROWTH OF PERIPHERAL PIONEER NEURONS IN THE GRASS-HOPPER  
*A. Pätschke and G. Bicker, Hannover*
- T2-4B** DEVELOPMENTAL STRATEGIES FOR THE ASSEMBLY OF CALLOSAL CONNECTIONS  
*P. Garcez, R. Lent, D. Uziel and J. Bolz, Jena and Rio de Janeiro (BR)*
- T2-5B** EXPRESSION OF ADAM10 DURING CHICKEN BRAIN DEVELOPMENT  
*J. Lin, C. Redies and J. Luo, Jena*
- T2-6B** EFFECTS OF SOLUBLE SEMAPHORIN GRADIENTS ON CORTICAL FIBERS  
*T. Rüdiger, D. Bagnard and J. Bolz, Jena and Strasbourg (FR)*

### Saturday

- T2-1C** EPHRINA5 IS INVOLVED IN THE REGULATION OF THE TANGENTIAL MIGRATION OF CORTICAL INTERNEURONS  
*G. Zimmer, P. P. Garcez, R. Niehage, F. Weth and J. Bolz, Jena and Rio de Janeiro (BR)*
- T2-2C** TEMPORAL EXPRESSION OF SEQUOIA DEFINES TARGET LAYER IDENTITY OF *DROSOPHILA* PHOTORECEPTOR CELLS  
*M. Petrovic and T. Hummel, Münster*

- T2-3C** AXONAL GUIDANCE AND CEREBELLAR LOBE FORMATION IN NRCAM-, CHL1-, AND NRCAM-CHL1 DOUBLE-DEFICIENT MICE  
*A. Heyden, F. Rathjen and D. Montag, Magdeburg and Berlin*
- T2-4C** THE HISTONE DEACETYLASE SIRT2 IN NEURITE OUTGROWTH AND AXON GUIDANCE  
*KV. Harting, R. Pandithage, B. Lüscher and B. Knöll, Tübingen and Aachen*
- T2-5C** ANALYSING THE ROLE OF SRF IN AXON GUIDANCE  
*C. Stritt and B. Knöll, Tübingen*

### T3: Development III: Regeneration

#### Thursday

- T3-1A** ELECTROSPINNING OF ORIENTED NANOFIBERS OF COLLAGEN/POLY- $\epsilon$ -CAPROLACTONE AS A MATRIX FOR CELL MIGRATION AND NEURITE OUTGROWTH IN NERVE REGENERATION  
*K. Klinkhammer, E. Schnell, S. Balzer, G. Brook, P. Dalton, D. Klee and J. Mey, Aachen*
- T3-2A** NERVE INJURY AND INFLAMMATORY CYTOKINES CAUSE NUCLEAR TRANSLOCATION OF RETINOID RECEPTORS  
*J. Mey, K. Schrage and N. Zhelyaznik, Aachen*
- T3-3A** PROMOTERS OF REGENERATION OF ENTORHINAL FIBERS IN MOUSE HIPPOCAMPAL SLICE CULTURES  
*B. Bonnici and J. Kapfhammer, Basel (CH)*
- T3-4A** DIFFERENTIAL PROMOTING EFFECTS OF *CLOSTRIDIUM BOTULINUM* C3 PROTEINS ON AXONAL PROCESS GROWTH AND ARBORIZATION OF VARIOUS NEURON POPULATIONS  
*M. Höltje, S. Djalali, F. Hofmann, G. Große, I. Just and G. Ahnert-Hilger, Berlin and Hannover*
- T3-5A** THE CYTOKINE/NEUROTROPHIN AXIS IN PERIPHERAL AXON OUTGROWTH  
*S. Hendrix, G. Golz and R. Nitsch, Berlin*
- T3-6A** EXPRESSION AND FUNCTION OF ERYTHROPOIETIN AND ITS RECEPTOR IN INVERTEBRATE NERVOUS SYSTEMS  
*D. Gocht, D. Sargin, S. Sperling, H. Ehrenreich and R. Heinrich, Göttingen*
- T3-7A** ADDITIVE EFFECTS OF CNTF AND RHO KINASE INHIBITION IN MODELS OF APOPTOSIS AND AXONAL REGENERATION OF RETINAL GANGLION CELLS *IN VITRO* AND *IN VIVO*  
*L. Tönges, P. Lingor, N. Pieper, C. Bermel and M. Bähr, Göttingen*

#### Friday

- T3-1B** INHIBITION OF CDK5 AND RHO KINASE (ROCK) RESULTS IN INCREASED NEURITE OUTGROWTH AND REGENERATION IN RETINAL GANGLION CELLS  
*CM. Bermel, L. Tönges, J. Weishaupt, M. Bähr and P. Lingor, Göttingen*



- T3-2B** DIFFERENTIAL ROLE OF C-JUN-N-TERMINAL KINASE ISOFORMS IN REGENERATION AND SURVIVAL OF PRIMARY DOPAMINERGIC NEURONS  
*AV. Planchamp, M. Bähr and P. Lingor, Göttingen*
- T3-3B** ASSESSMENT OF MOTOR FUNCTIONS AFTER SCIATIC NERVE INJURY IN MICE USING A SINGLE-FRAME MOTION ANALYSIS APPROACH  
*A. Irintchev, A. Fey and M. Schachner, Hamburg*
- T3-4B** IMPROVED FUNCTIONAL RECOVERY FROM FEMORAL NERVE INJURY IN MICE AFTER APPLICATION OF A NOVEL CYCLIC HNK-1 GLYCOMIMETIC  
*AJ. Mehanna, A. Irintchev and M. Schachner, Hamburg*
- T3-5B** FEMORAL NERVE REPAIR: IMPACTS OF LESION SEVERITY ON THE FUNCTIONAL OUTCOME IN MICE  
*E. Sivukhina, M. Schachner and A. Irintchev, Hamburg*
- T3-6B** NITRIC OXIDE REGULATES REGENERATION IN THE VENTRAL NERVE CORD OF LOCUST EMBRYOS  
*M. Stern and G. Bicker, Hannover*
- T3-7B** THE SYNTHETIC STEROID MIFEPRISTONE PROTECTS PURKINJE CELLS FROM DEVELOPMENTAL CELL DEATH  
*M. Schumacher, I. Dusart, C. Levenes, EE. Baulieu and A. Ghomari, Kremlin Bicetre (FR) and Paris (FR)*

### Saturday

- T3-1C** THE ROLE OF MICROTUBULES IN RETRACTION BULB FORMATION AND FAILURE OF AXONAL REGENERATION IN THE CNS  
*A. Ertürk and F. Bradke, Martinsried and München*
- T3-2C** FIBROBLAST IMPACT ON SCHWANN CELLS AND AXONAL GROWTH  
*L. Dreesmann, M. Lietz, M. Weimar and B. Schlosshauer, Reutlingen*
- T3-3C** TRANSPLANTATION OF MESENCEPHALIC HUMAN NEURAL PROGENITOR CELLS INTO THE CAUDATE PUTAMEN OF HEMIPARKINSONIAN RATS  
*SJP. Haas, M. Hovakimyan, O. Schmitt, B. Gerber, A. Wree and C. Andressen, Rostock*
- T3-4C** 3D SCAFFOLDS TO OPTIMIZE HUMAN NEURAL PROGENITOR CELL GROWTH AND DIFFERENTIATION  
*J. Schmich, S. Ortinau, EA. Miljan, J. Sinden and A. Rolfs, Rostock and Guildford (UK)*
- T3-5C** THE ROLE OF SERUM RESPONSE FACTOR IN AXONAL REGENERATION  
*S. Stern and B. Knöll, Tübingen*
- T3-6C** NEUROPROTECTIVE AND GROWTH PROMOTING EFFECTS OF A LENS INJURY ON RETINAL GANGLION CELLS ARE NOT MEDIATED BY ACTIVATED MACROPHAGES  
*D. Fischer, T. Hauk, J. Lee and R. Schwendener, Ulm and Zürich (CH)*
- T3-7C** CHARACTERIZATION OF LINA A NEW AXONAL REGENERATION PROMOTING FACTOR  
*J. Lee, T. Hauk, L. Nonnenmacher, TM. Böckers and D. Fischer, Ulm*

## T4: Development IV: Cell cycle and cell death

### Thursday

- T4-1A** BAG1 FUNCTION DEPENDS ON ITS SUBCELLULAR LOCALISATION  
*L. Faida, J. Liman, M. Bähr and P. Kermer, Göttingen*
- T4-2A** UNDERSTANDING OF INCLUSION BODY FORMATION AND CELL DEATH IN SPINOCEREBELLAR ATAXIA TYPE 3 (SCA3)  
*J. Liman, K. Sroka, CP. Dohm, M. Bähr and P. Kermer, Göttingen*
- T4-3A** TGF- $\beta$ 2 AND GDNF IN THE DEVELOPMENT OF THE MURINE NERVOUS SYSTEM: EVIDENCE FROM DOUBLE MUTANT MICE  
*B. Rahhal, S. Heermann, E. Roussa and K. Kriegstein, Göttingen*

### Friday

- T4-1B** TGF $\beta$ -1 AND ACTIVINA AS IMPORTANT FACTORS FOR ONTOGENETIC CELL DEATH  
*R. Schulz, T. Vogel and K. Kriegstein, Göttingen*
- T4-2B** ADVANCED GLYCATION ENDPRODUCTS TRIGGER CELL CYCLE RE-ENTRY IN ALZHEIMER'S DISEASE BRAIN  
*A. Schmidt, Y. Yang, K. Herrup and T. Arendt, Leipzig and Cleveland (USA)*

### Saturday

- T4-1C** ACTIVITY AND MECHANISMS OF NEURONAL NEO-CORTICAL APOPTOSIS OF PREMATURE FETUSES AND NEWBORNS SUFFERED FROM INTRAVENTRICULAR HEMORRHAGES  
*NK. Suhak and GY. Khulup, Minsk (BY)*
- T4-2C** DEVELOPMENT OF TENSION RECEPTORS OF THE MUSCULAR SYSTEM OF *LOCUSTA MIGRATORIA*  
*C. Marinc and U. Rose, Ulm*

## T5: Neurogenetics

### Thursday

- T5-1A** CHARACTERISATION OF A *NO-ON-TRANSIENTA* LIKE GENE IN THE CRICKET *GRYLLUS BIMACULATUS*, WITH FOCUS ON BEHAVIOURAL RELEVANCE  
*S. Knapinski, M. Hennig, H. Saumweber and B. Ronacher, Berlin*
- T5-2A** DYSKINESIA INDUCED CHANGES IN GENE EXPRESSION IN PARKINSON'S DISEASE.  
*S. Schuster, Biberach*
- T5-3A** INVESTIGATING PARKIN AND DJ-1  
*S. Deeg, Göttingen*



- T5-4A** ERBB4 FUNCTION IN NEURON-NEURON INTERACTIONS IN THE ADULT BRAIN  
*MN. Gummert, P. Soban, KA. Nave and MH. Schwab, Göttingen*

### Friday

- T5-1B** CORTICAL DEVELOPMENT AND MYELINATION IN THE ABSENCE SCHIZOPHRENIA SUSCEPTIBILITY GENE NEUREGULIN1  
*A. Agarwal, MH. Schwab, K. Radyushkin, S. Boretius, A. Garratt, C. Birchmeier, J. Frahm, H. Ehrenreich and KA. Nave, Göttingen and Berlin*
- T5-2B** NUCLEAR FACTOR I-A (NFI-A) ANTAGONIZES GLUCOCORTICOID INDUCTION OF NEURAL ADHESION MOLECULE L1 EXPRESSION  
*T. Tilling, T. Schneegans, U. Borgmeyer, M. Hentschke, RM. Gronostajski and M. Schachner, Hamburg and Buffalo, NY (USA)*
- T5-3B** ADAPTIVE CHANGES IN GENE EXPRESSION PATTERNS IN THE SOMATOSENSORY CORTEX AFTER DELETION OF EPHRINA5  
*C. Peuckert, J. Rapus and J. Bolz, Jena*
- T5-4B** INVESTIGATION OF RGS2 AND RGS13 GENE VARIANTS IN HUMAN PANIC DISORDER  
*C. Hohoff, A. Leygraf, P. Krakowitzky and J. Deckert, Münster and Würzburg*

### Saturday

- T5-1C** INVESTIGATION OF GENETIC VARIANTS IN THE RGS7-GENE IN PANIC DISORDER  
*A. Neumann, C. Hohoff, K. Domschke, P. Krakowitzky, M. Rothermundt and J. Deckert, Münster and Würzburg*
- T5-2C** MORRIS WATER MAZE NOVELTY-DEPENDENT GENE REGULATION IN MOUSE HIPPOCAMPUS  
*Sl. Haege, D. Galetzka, U. Zechner, T. Haaf, C. Hiemke and U. Schmitt, Mainz*
- T5-3C** FAMILIAL ACANTHOCYTOSIS WITH PAROXYSMAL EXERCITION-INDUCED DYSKINESIA AND EPILEPSY (FAPED)  
*Y. Weber, A. Storch, T. Wuttke, K. Brockmann, A. Pekrun, J. Kempfle, E. Kraft, B. Walter, F. Mottaghy, R. Roebeling, K. Tatsch, G. Grön, F. Lehmann-Horn and H. Lerche, Ulm, Dresden, Göttingen, Bremen, München and Berlin*

## T6: Synapses

### Thursday

- T6-1A** CIRCADIAN DEPENDENT SORTING OF VESICULAR GLUTAMATE TRANSPORTER (VGLUT 1) 1 MAY INVOLVE THE PLASMA MEMBRANE  
*M. Darna, SV. Yelamanchili1, G. Pendyala, U. Albrecht and G. Ahnert-Hilger, Berlin and Fribourg (CH)*



- T6-2A** KAINATE RECEPTORS MEDIATE THE SUPPRESSION OF EXCITATORY TRANSMISSION AT THE HIPPOCAMPAL AC SYNAPSE BY A PRESYNAPTIC, G-PROTEIN MEDIATED MECHANISM  
*B. Salmen, J. Breustedt, J. Winterer and D. Schmitz, Berlin*
- T6-3A** DIFFERENTIAL PROTEIN MAKE UP IN SYNAPTIC VESICLE SUBPOPULATIONS: A BIOCHEMICAL STUDY USING IMMUNOISOLATION  
*JF. Zander, I. Mitschke and G. Ahnert-Hilger, Berlin*
- T6-4A** DYNAMICS OF SYNAPTIC SIGNALLING BETWEEN GRADED POTENTIAL PRESYNAPTIC NEURONS AND A SPIKING NEURON IN THE FLY MOTION-VISION PATHWAY  
*U. Beckers, M. Egelhaaf and R. Kurtz, Bielefeld*
- T6-5A** INFLUENCE OF GLIAL-DERIVED MATRIX COMPONENTS ON ELECTROPHYSIOLOGICAL PROPERTIES OF HIPPOCAMPAL NEURONS  
*KS. Erkamp, AK. Vogt-Eisele, M. Pyka, CH. Wetzel, A. Faissner and H. Hatt, Bochum*
- T6-6A** ECM AND SYNAPTOGENESIS: MONITORING THE IMPACT OF EXTRACELLULAR MATRIX ON SYNAPSE FORMATION IN HIPPOCAMPAL NEURONS  
*M. Pyka, A. Vogt-Eisele, K. Erkamp, K. Seidenbecher, E. Gundelfinger, H. Hatt and A. Faissner, Bochum and Magdeburg*
- T6-7A** ANALYSIS OF  $\gamma$ -PROTOCOLADHERIN-DEFICIENT SYNAPSES IN NEOCORTICAL NEURONS  
*KN. Pielarski, M. Frank and K. Gottmann, Düsseldorf and Freiburg*
- T6-8A** FUNCTION OF N-CADHERIN IN DEVELOPMENTAL REGULATION OF PRESYNAPTIC VESICLE ACCUMULATIONS  
*A. Stan and K. Gottmann, Düsseldorf*
- T6-9A** PROTEINKINASE CK2-DEPENDENT SERINE PHOSPHORYLATION OF MUSK REGULATES ACETYLCHOLINE RECEPTOR AGGREGATION AT THE NEUROMUSCULAR JUNCTION  
*S. Hashemolhosseini, T. Cheusova, A. Khan and SW. Schubert, Erlangen*
- T6-10A** FUNCTIONAL CHARACTERIZATION OF TRANSPORTERS IN NATIVE SYNAPTIC VESICLES USING A NOVEL ELECTROPHYSIOLOGICAL TECHNOLOGY  
*U. Pehl, P. Obrdlik, C. Keipert, K. Diekert, C. Steensen, N. Böhm, W. Berger, R. Krause, W. Dörner, W. Volkmandt, M. Ruitenberg and B. Kelety, Frankfurt/M.*
- T6-11A** ROLE OF SYNAPTIC RIBBONS IN HAIR CELL SOUND CODING  
*D. Khimich, BN. Buran, E. Gundelfinger, C. Liberman and T. Moser, Göttingen, Boston (USA) and Magdeburg*



## Friday

- T6-1B** MORPHOGENIC SIGNALING IN NEURONS VIA 5-HT-RECEPTORS  
*F. Kobe, D. Hess, DW. Richter and E. Ponimaskin, Göttingen*
- T6-2B** INHIBITORY SYNAPTIC TRANSMISSION TO HYPOGLOSSAL MOTONEURONS IN GLYCINE TRANSPORTER 2 KNOCK OUT MICE  
*AT. Latal, V. Eulenburg, H. Betz and S. Hülsmann, Göttingen and Frankfurt/M.*
- T6-3B** THE NUMBER OF RIBBON SYNAPSES IN MOUSE INNER HAIR CELLS HAS A MAXIMUM IN THE TONOTOPIC REGION OF BEST HEARING AND SCALES WITH EXOCYTOSIS BUT NOT  $CA^{2+}$  CURRENT  
*AC. Meyer, A. Egner, Y. Yarin and T. Moser, Göttingen and Dresden*
- T6-4B** TEMPERATURE ENHANCES EXOCYTOSIS EFFICIENCY AT THE MOUSE INNER HAIR CELL RIBBON SYNAPSE  
*R. Nouvian and T. Moser, Göttingen*
- T6-5B** TRANSFORMING GROWTH FACTOR-BETA 2 (TGF-BETA2) IS REQUIRED FOR THE DEVELOPMENT OF FUNCTIONAL SYNAPSES  
*K. Heupel, V. Sargsyan, F. Varoqueaux, W. Zhang and K. Kriegstein, Göttingen*
- T6-6B** THE SIZE OF RELEASE QUANTA AT THE HAIR CELL RIBBON SYNAPSE  
*A. Neef, P. Pirih, D. Khimich, F. Wolf and T. Moser, Göttingen and Groningen (NL)*
- T6-7B** MATURATION OF RIBBON SYNAPSES IN HAIR CELLS IS DRIVEN BY THYROID HORMONE  
*GC. Sendin, A. Bulankina, D. Riedel and T. Moser, Göttingen*
- T6-8B** IMAGING OF MRNA IN DENDRITES: TRANSPORT AND INTERACTING FACTORS OF THE MRNA CODING FOR THE POSTSYNAPTIC SHANK1 PROTEIN  
*K. Falley, C. Sawallisch, M. Kneussel, D. Richter and HJ. Kreienkamp, Hamburg*
- T6-9B** REGULATION OF THE INTERACTION BETWEEN SHANK AND SHARPIN  
*GE. Kollmorgen, M. Mameza, D. Richter and HJ. Kreienkamp, Hamburg and Bethesda (USA)*
- T6-10B** TARGETED EXPRESSION OF FLUORESCENT PROTEINS IN LAYER 5B NEURONS REVEALS A STRONGLY DEPRESSING CORTICOTHALAMIC GIANT SYNAPSE IMPARTING LOW-PASS FILTERING OF CORTICAL INPUTS  
*A. Groh, V. Wimmer, B. Sakmann and T. Kuner, Heidelberg*
- T6-11B** EFFECTS OF GLUTAMINE IN CULTURED AND CA1 PYRAMIDAL CELLS  
*S. Kolbaev and A. Draguhn, Heidelberg*

## Saturday

- T6-1C** DEVELOPMENT OF THE NEURONAL MICROCIRCUITRY IN LAYER 4 OF RAT BARREL CORTEX  
*G. Radnikow, J. Lübke and D. Feldmeyer, Jülich*
- T6-2C** THE MORPHOLOGY OF EXCITATORY CENTRAL SYNAPSES: FROM STRUCTURE TO FUNCTION  
*A. Rollenhagen, K. Sätzler, A. Roth, P. Jonas, M. Frotscher, B. Sakmann and JHR. Lübke, Jülich, Londonderry (UK), London (UK), Freiburg and Heidelberg*
- T6-3C** MORPHOLOGY OF SPINY STELLATE CELLS IN EPHRINA5 DEFICIENT MICE  
*A. Güllmar, J. Rudolph and J. Bolz, Jena*
- T6-4C** DISRUPTION OF ACTIVIN RECEPTOR SIGNALING IN FOREBRAIN NEURONS ALTERS GABAERGIC NEUROTRANSMISSION IN A BEHAVIORALLY RELEVANT FASHION  
*F. Zheng, H. Adelsberger, M. Muller, S. Werner and C. Alzheimer, Kiel, München and Zürich (CH)*
- T6-5C** GABA SPILLOVER AND ASYNCHRONOUS RELEASE MEDIATE PERSISTENT INHIBITION IN THE DNLL  
*B. Saunier Rebori, B. Grothe, A. Klug and F. Felmy, München*
- T6-6C** THE PRESYNAPTIC CYTOMATRIX PROTEIN BASSOON INTERACTS WITH DLC1, A COMPONENT OF MOTOR COMPLEXES  
*F. Bischof, A. Fejtova, WD. Altmock, D. Davydova and ED. Gundelfinger, Magdeburg*
- T6-7C** SPECIALIZED SYNAPTIC CONTACTS IN THE POLARIZATION VISION PATHWAY OF THE LOCUST BRAIN  
*U. Traeger, R. Wagner, B. Bausenwein and U. Homberg, Marburg and Regensburg*
- T6-8C** PROTEIN RECRUITMENT AND DISAPPEARANCE DURING CONSTITUTIVE ENDOCYTOSIS IN PC12 CELLS  
*F. Felmy, Martinsried*
- T6-9C** SYNAPSIN, SAP47, BRUCHPILOT: FUNCTIONAL ANALYSIS OF PRESYNAPTIC PROTEINS IN *DROSOPHILA*  
*E. Buchner, E. Asan, D. Bucher, S. Diegelmann, N. Funk, V. Nieratschker, T. Nuwal, D. Wagh, S. Sigrist and T. Rasse, Würzburg and Göttingen*
- T6-10C** THE THALAMOCORTICAL SYNAPSE IN CAT VISUAL CORTEX  
*NM. da Costa and KAC. Martin, Zürich (CH)*
- T6-11C** IMAGING STRUCTURAL PLASTICITY OF HIPPOCAMPAL CA3-CA1 SYNAPSES  
*N. Becker, R. Fonseca, T. Bonhoeffer and UV. Nägerl, München*



## T7: Signal transduction cascades

### Thursday

- T7-1A** THE FIRST INTRAVESICULAR DOMAIN OF VESICULAR MONOAMINE TRANSPORTERS SERVES AS RECEPTOR-LIKE STRUCTURE IN G-PROTEIN MEDIATED REGULATION OF MONOAMINE STORAGE  
*C. Blex, I. Brunk, S. Rachakonda, S. Winter, M. Höltje, D. Walther and G. Ahnert-Hilger, Berlin*
- T7-2A** METABOLIC CHANGES IN THE BRAIN OF TRANSGENIC MICE EXPRESSING ACTIVATED RAS IN NEURONS USING MULTINUCLEAR NMR SPECTROSCOPY  
*S. Gottfried, C. Zwingmann, K. Kuteykin-Templyakov, D. Leibfritz and R. Heumann, Bochum and Bremen*
- T7-3A** IS RHEB A NEGATIVE REGULATOR OF THE RAS-RAF-MAPK-PATHWAY IN NEURONS?  
*S. Karassek and R. Heumann, Bochum*
- T7-4A** CHARACTERIZATION OF PUTATIVE INTRACELLULAR INTERACTORS OF THE CELL ADHESION PROTEINS RST AND KIRRE IN *D. MELANOGASTER*  
*R. Braun, J. Shi, S. Völker and KF. Fischbach, Freiburg*
- T7-5A** EVALUATION OF TGF- $\beta$  TARGET GENES IN PRIMARY CORTICAL AND HIPPOCAMPAL NEURONS  
*S. Ahrens, T. Vogel and K. Kriegelstein, Göttingen*

### Friday

- T7-1B** DETECTING ABSOLUTE CAMP LEVELS IN NEURONS: A NEW METHOD OF ANALYZING FLUORESCENCE RATIO MEASUREMENTS OF FRET BASED SENSORS  
*PS. Salonikidis, A. Zeug, F. Kobe and DW. Richter, Göttingen*
- T7-2B** TOLL-LIKE RECEPTOR 4 MEDIATES THE MICROGLIAL INFLAMMATORY RESPONSE TO THROMBIN-ASSOCIATED PROTEIN AGGREGATES  
*J. Scheffel, D. van Rossum, J. Weinstein, T. Möller, W. Brück, M. Prinz and UK. Hanisch, Göttingen and Seattle (USA)*
- T7-3B** DIFFERENTIAL ANALYSIS OF THE ERBB-SIGNALING NETWORK USING *SPLIT-TEV*  
*MC. Wehr, A. Botvinnik, KA. Nave and MJ. Rossner, Göttingen*
- T7-4B** GLUTAMATE-REGULATED SHUTTLING OF FOXO3A-GFP IN HIPPOCAMPAL NEURONS  
*O. Dick and H. Bading, Heidelberg*
- T7-5B** SIGNALLING PROPERTIES OF A HORMONAL SYSTEM THAT REGULATES VARIOUS BEHAVIOURS IN CAENORHABDITIS ELEGANS  
*T. Roeder and M. Seifert, Kiel and Freiburg*

### Saturday

- T7-1C** SUBCELLULAR LOCATION OF PHOSPHORYLATED SMADS IS DISORDERED IN ALZHEIMER'S DISEASE  
*U. Ueberham, E. Ueberham, H. Gruschka and T. Arendt, Leipzig*

- T7-2C** A POLYMORPHISM LINKED TO BIPOLAR AFFECTIVE DISORDER DOES NOT ALTER THE CRE ACTIVITY OF CONSTITUTIVELY ACTIVATED TRACE AMINE RECEPTOR 4  
*J. Reiners, M. Schmidt, J. Packer, L. Unger and W. Wernet, Ludwigshafen and Abbott Park (USA)*
- T7-3C** JACOB IS A CARGO FOR SYNAPSE-TO-NUCLEUS COMMUNICATION VIA THE CLASSICAL IMPORTIN PATHWAY  
*A. Karpova, I. Zdobnova, M. Mikhaylova, W. Zuschratter and MR. Kreutz, Magdeburg*
- T7-4C** CALNEURONS ARE A NOVEL SUBFAMILY OF NEURONAL CALCIUM SENSOR PROTEINS THAT MIGHT REGULATE INTRACELLULAR  $CA^{2+}$ -LEVELS VIA THE PHOSPHOLIPASE C-IP3 PATHWAY  
*M. Mikhaylova, T. Munsch, Y. Sharma, ED. Gundelfinger and MR. Kreutz, Magdeburg and Hyderabad (IN)*

## T8: Neurotransmitters

### Thursday

- T8-1A** ANCIENT NEUROARCHITECTURAL FEATURES OF THE BILATERIAN BRAIN  
*R. Loesel and C. Heuer, Aachen*
- T8-2A** PLASTICITY IN MOUSE CEREBELLAR CIRCUITS WITH SELECTIVELY MODIFIED GABA-A RECEPTORS  
*P. Wulff, DA. Anderson, Cl. De Zeeuw, M. Farrant, T. Goetz, L. Kelly, ER. Korpi, E. Leppa, AM. Linden, M. Renzi, M. Schonewille and W. Wisden, Aberdeen (UK), London (UK), Rotterdam (NL) and Helsinki (FI)*
- T8-3A** MODULATED MONOAMINE STORAGE IN  $G\alpha_{O2-1}$ -MICE ALTERS BEHAVIOURAL RESPONSES FOLLOWING COCAINE BUT NOT AMPHETAMINE TREATMENT  
*I. Brunk, C. Sanchis-Segura, C. Blex, J. Sternberg, S. Perreau-Lenz, H. Hörthnagl, R. Spanagel and G. Ahnert-Hilger, Berlin and Mannheim*
- T8-4A** BRAIN NOS ACTIVITY REGULATES THE MATING-RELATED BEHAVIORAL STATES OF GRASSHOPPERS  
*R. Heinrich, A. Wirmer and A. Weinrich, Göttingen*
- T8-5A** HIPPOCAMPAL DYSPLASIA AND ABERRATIONS IN CHOLINERGIC AND CATECHOLAMINERGIC NUCLEI AND THEIR HIPPOCAMPAL PROJECTIONS IN NCAM-DEFICIENT MICE: IMPLICATIONS FOR BEHAVIOR  
*Y. Tereshchenko, J. Brandewiede, F. Morellini, A. Dityatev, M. Schachner and A. Irintchev, Hamburg*

### Friday

- T8-1B** GABA-LIKE IMMUNOREACTIVITY IN THE CNS OF THE STICK INSECT *CARAUSIUS MOROSUS*  
*S. Marasigan, A. Büschges, T. Mentel and M. Gruhn, Köln*
- T8-2B** THE INFLUENCE OF ISCHEMIA/REPERFUSION ON NNOS-IMMUNOREACTIVITY AND NADPH-DIAPHORASE ACTIVITY IN DORSAL ROOT GANGLIA AND DORSAL HORNS OF DIFFERENT SPINAL CORD LUMBOSACRAL SEGMENTS IN RABBITS  
*A. Schreiberová, M. Lacková, D. Kolesár, N. Lukáčová and J. Maršala, Košice (SK)*



- T8-3B** ENRICHMENT OF THE GABAERGIC SUBNETWORK IN CORTICAL CULTURES STRONGLY PROMOTES HIGHER-ORDER ACTIVITY PATTERNS  
*T. Baltz, T. Munsch, AD. de Lima and T. Voigt, Magdeburg*
- T8-4B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF DIFFERENT CELL POPULATIONS IN EMBRYONIC NEOCORTICAL CULTURES  
*Y. Klyueva, S. Meis, A. de Lima, T. Voigt and T. Munsch, Magdeburg*
- T8-5B** ELECTRICAL RESPONSES OF ACINAR CELLS IN THE SALIVARY GLANDS OF PERIPLANETA AMERICANA TO DOPAMINE, SEROTONIN AND GABA  
*C. Rotte and B. Walz, Potsdam-Golm*

### Saturday

- T8-1C** GABAERGIC INNERVATION OF THE COCKROACH SALIVARY GLAND  
*J. Witte, W. Blenau, B. Walz and O. Baumann, Potsdam-Golm*
- T8-2C** INCREASED ACETYLCHOLINE RELEASE IN PREFRONTAL CORTEX OF MONKEY DURING A COGNITIVE TASK  
*A. Rauch, X. Zhang, G. Rainer and N. Logothetis, Tübingen*
- T8-3C** ORGANIZATION OF THE SEROTONERGIC SYSTEM IN THE BUCCAL REGION OF PULMONATE GASTROPODS, *LYMNAEA* AND *HELIX*  
*G. Balog and K. Elekes, Tihany (HU)*
- T8-4C** NICOTINIC ACETYLCHOLINE RECEPTORS IN THE HONEYBEE BRAIN: FROM MOLECULAR BIOLOGY TO PHYSIOLOGY.  
*V. Raymond Delpuch, G. Barbara, A. Jones, L. Garreau, S. Oliver, B. Grünwald, M. Giurfa, D. Sattelle and M. Gauthier, Toulouse (FR), Oxford (UK), and Berlin*
- T8-5C** FUNCTIONAL DISSECTION OF THE OCTOPAMINERGIC NEUROTRANSMITTER SYSTEM IN ETHANOL INDUCED BEHAVIOUR IN *DROSOPHILA MELANOGASTER*  
*S. Hampel and H. Scholz, Würzburg*

## T9: Neuropeptides and Neuromodulation

### Thursday

- T9-1A** EFFECTS OF SDF-1 $\alpha$  ON THE ELECTROPHYSIOLOGY OF RAT CORTEX CULTURE NETWORKS MEASURED WITH MULTIELECTRODE ARRAYS (MEA)  
*T. Wiegand, P. Küry and HW. Müller, Düsseldorf*
- T9-2A** THE NEUROPEPTIDE NAP PROVIDES NEUROPROTECTION AFTER OPTIC NERVE CRUSH AND RETINAL ISCHEMIA  
*C. Dimitriu, T. Jehle, S. Auer, R. Knoth, M. Vidal-Sanz, I. Gozes and WA. Lagrèze, Freiburg, Murcia (ES) and Tel Aviv (IL)*
- T9-3A** NEUROMODULATION: A MODULATED NEURAL REACTIVE MICROCIRCUIT AND A MODULATED BIOLUMINESCENCE  
*KA. Wiese, J. Pili and T. Fregin, Hamburg*

- T9-4A** ALLATOSTATIN IN THE OLFACTORY SYSTEM OF THE HONEY BEE  
*S. Kreissl, J. Stierle and C. Strasser, Konstanz*

### Friday

- T9-1B** DIADENOSINE POLYPHOSPHATE ANALOGUE CONTROLS POSTSYNAPTIC EXCITATION IN CA3/CA1 SYNAPSES VIA A NITRIC OXIDE (NO)-DEPENDENT MECHANISM  
*V. Tsintsadze, S. Melnik, M. Wright, J. Tanner, T. Tsintsadze, A. Miller and N. Lozovaya, Kyiv (UA), London (UK) and Kyiv (UK)*
- T9-2B** POSTSYNAPTIC MECHANISMS UNDERLYING RESPONSIVENESS OF AMYGDALOID NEURONS TO CHOLECYSTOKININ ARE MEDIATED BY A TRANSIENT RECEPTOR POTENTIAL-LIKE CURRENT  
*S. Meis, T. Munsch, L. Sosulina and HC. Pape, Magdeburg and Münster*
- T9-3B** CONTRACTION MEASUREMENTS IN BODY WALL MUSCLES OF DROSOPHILA LARVAE REVEAL DIFFERENCES IN MODULATORY EFFECTS OF OCTOPAMINE AND ITS PRECURSOR TYRAMINE  
*M. Wanischek and U. Rose, Ulm*
- T9-4B** CALCIUM IMAGING IN PRIMARY CELL CULTURE AND IN SITU SUGGESTS A DIFFERENTIAL TRANSMITTER-MEDIATED REGULATION OF CCAP NEURON SUBSETS IN *DROSOPHILA*  
*C. Wegener and M. Vömel, Marburg*

### Saturday

- T9-1C** TRI-PEPTIDE COMPLEXES AND SLEEP IN RABBITS  
*VM. Kovalzon, GN. Fesenko, SV. Koroleva and IP. Ashmarin, Moscow (RUS)*
- T9-2C** ACUTE SYSTEMIC GHRELIN ADMINISTRATION INDUCES ANXIOLYTIC BEHAVIOUR AND MEMORY ENHANCEMENT IN RATS  
*MJ. Szulc, PL. Mikolajczak, I. Okulicz-Kozaryn, E. Kaminska and T. Bobkiewicz-Kozłowska, Poznan (PL)*
- T9-3C** CHARACTERIZATION OF PITUITARY ADENYLYL CYCLASE ACTIVATING POLYPEPTIDE (PACAP)-INDUCED PIAL ARTERIOLAR DILATION IN PIGLETS.  
*L. Lenti, D. Kis, F. Domoki, G. Toth, DW. Busija and F. Bari, Szeged (H) and Winston-Salem (USA)*

## T10: Receptors

### Thursday

- T10-1A** THE ROLE OF THE NR3 SUBUNITS IN NMDA RECEPTORS  
*N. Cavara, C. Schmidt and M. Hollmann, Bochum*
- T10-2A** MODULATION OF NICOTINIC ACETYLCHOLINE RECEPTOR BY (-)-MENTHOL IN MAMMALIAN SENSORY NEURONS  
*M. Wilhelm, D. Swandulla and M. Hans, Bonn*
- T10-3A** NRA-1 AND NRA-2, TWO NOVEL PROTEINS ASSOCIATED WITH THE LEVAMISOLE-SENSITIVE NICOTINIC ACETYLCHOLINE RECEPTOR IN *C. ELEGANS*  
*R. Almedom, J. Liewald and A. Gottschalk, Frankfurt/M.*



- T10-4A** OLIGOMERISATION OF SEROTONIN RECEPTORS: STRUCTURAL AND FUNCTIONAL IMPLICATIONS  
*U. Renner, F. Kobe, D. Richter and E. Ponimaskin, Göttingen*

### Friday

- T10-1B** ROLE OF PALMITOYLATION IN THE 5-HYDROXYTRYPTAMINE 4A RECEPTOR FUNCTIONING  
*K. Glebov and E. Ponimaskin, Göttingen*
- T10-2B** MOLECULAR CLONING AND CHARACTERIZATION OF *PERIPLANETA AMERICANA* SEROTONIN RECEPTORS  
*B. Troppmann and W. Blenau, Golm-Potsdam*
- T10-3B** MOLECULAR MECHANISMS OF INTERACTION BETWEEN THE NEUROPROTECTIVE SUBSTANCE RILUZOLE AND GABAA RECEPTORS  
*K. Jahn, F. Schlesinger, J. Bufler and K. Krampfl, Hannover*
- T10-4B** CLONING AND FUNCTIONAL CHARACTERIZATION OF THE G PROTEIN-COUPLED RECEPTORS GPR7 AND GPR8 IN THE GUINEA PIG  
*AH. Meyer, K. Wicke, D. Seemann, A. Hahn, H. Schoemaker and M. Schmidt, Ludwigshafen*

### Saturday

- T10-1C** IDENTIFICATION OF THE CB1 CANNABINOID RECEPTOR IN SEROTONERGIC CELLS OF RAPHE NUCLEI IN MICE  
*MM. Häring, G. Marsicano, B. Lutz and K. Monory, Mainz*
- T10-2C** REGIONAL AND CELLULAR DISTRIBUTION OF THE RECEPTOR-INTERACTING PROTEIN PIST IN RAT BRAIN  
*T. Stroh, A. Chen and HJ. Kreienkamp, Montreal, Quebec (CA) and Hamburg*
- T10-3C** CHRONIC MILD STRESS INDUCES DEPRESSIVE BEHAVIOURS: ROLE FOR AMPA RECEPTORS AND BRAIN-DERIVED NEUROTROPHIC FACTOR  
*E. Toth, R. Gersner, DE. Dar, I. Akirav, I. Musseri and A. Zangen, Rehovot (IL)*
- T10-4C** MOLECULAR CHARACTERIZATION OF METABOTROPIC GLUTAMATE RECEPTOR TYPE 6 (GRM6) IN ZEBRAFISH'S EYE  
*YY. Huang and SCF. Neuhauss, Zürich (CH)*

## T11: Ion channels

### Thursday

- T11-1A** CALCIUM-PERMEABLE IONOTROPIC GLUTAMATE RECEPTOR SUBUNITS PROMOTE DENDRITOGENESIS BUT NOT SPINOGENESIS OF EARLY POSTNATAL NEOCORTICAL PYRAMIDAL CELLS  
*M. Hamad, T. Veitinger, T. Habijan, J. Grabert, MJ. Wirth, ZL. Ma, M. Mollmann and P. Wahle, Bochum*
- T11-2A** *XENOPUS LAEVIS* OOCYTES EXPRESS THE NMDA RECEPTOR SUBUNIT XENNR2B ENDOGENOUSLY  
*C. Schmidt and M. Hollmann, Bochum*



- T11-3A** INTERPLAY OF HOT- AND COLD-GATED ION CHANNELS: HERMO-TRPS AS EMERGING NOVEL THERAPEUTIC TARGETS OF FUTURE  
*AM. Sherkheli, G. Gisselman, VE. Angela and H. Hanns, Bochum*
- T11-4A** NA<sub>v</sub>1.6 SUBUNITS AND INTRINSIC MEMBRANE PROPERTIES IN CA1 PYRAMIDAL NEURONS  
*M. Bauer, S. Remy, M. Reitze, Y. Yaari and H. Beck, Bonn, Chicago (USA) and Jerusalem (IL)*
- T11-5A** ALTERED PERSISTENT SODIUM CURRENTS IN HIPPOCAMPAL CA1 NEURONS OF CHRONICALLY EPILEPTIC RATS  
*D. Sochivko, M. Bauer, Y. Yaari and H. Beck, Bonn and Jerusalem (IL)*
- T11-6A** IMPAIRED CARBAMAZEPINE BLOCK OF PERSISTENT NA<sup>+</sup> CURRENTS AT SUBTHRESHOLD VOLTAGES IN MICE LACKING ACCESSORY BETA2 SUBUNITS  
*M. Uebachs, L. Isom and H. Beck, Bonn and Ann Arbor, MI (USA)*
- T11-7A** CA<sub>v</sub>2.3 E-/R-TYPE VOLTAGE-GATED CA<sup>2+</sup> CHANNEL AND ITS FUNCTIONAL ASSOCIATES  
*K. Radhakrishnan, A. Krieger, MA. Kamp, SA. Siapich, M. Henry, J. Hescheler, M. Weiergräber and T. Schneider, Cologne*
- T11-8A** THE CA<sub>v</sub>2.3 VOLTAGE-GATED CALCIUM CHANNEL - UNMASKING AN ENIGMATIC PLAYER IN EPILEPTOGENESIS  
*M. Weiergräber, M. Henry, N. Matar, A. Krieger, J. Hescheler and T. Schneider, Cologne*
- T11-9A** BK<sub>CA</sub>-CAV CHANNEL COMPLEXES AS THE MECHANISM FOR RAPID AND LOCALIZED CA<sup>2+</sup>-ACTIVATED K<sup>+</sup> SIGNALLING  
*H. Berkefeld, C. Sailer, W. Bildl, JO. Thumfart, V. Rohde, S. Eble, N. Klugbauer, E. Reisinger, J. Bischofberger, D. Oliver, HG. Knaus, U. Schulte and B. Fakler, Freiburg and Innsbruck (AT)*
- T11-10A** COENRICHMENT OF KIR4.1 AND AQP4 CHANNELS IN SPINAL CORD ASTROCYTES SUGGESTS COUPLING OF K<sup>+</sup> FLUX AND WATER TRANSPORT: SWELLING EXPERIMENTS USING TRANSGENIC MOUSE TECHNOLOGY AND 2-PHOTON MICROSCOPY  
*P. Dibaj, M. Kaiser, J. Hirrlinger, F. Kirchhoff and C. Neusch, Göttingen and Leipzig*
- T11-11A** HETEROLOGOUS EXPRESSION OF GLIAL KIR CHANNEL IN MOTORNEURON-LIKE CELLS: A NOVEL CANDIDATE FOR NEURONAL SILENCING  
*J. Zschuentzsch, S. Ebert, M. Bähr and C. Neusch, Göttingen*
- T11-12A** ERG K<sup>+</sup> CURRENTS IN MOUSE NEONATAL MITRAL/ TUFTED NEURONS MODULATE EXCITABILITY  
*W. Hirdes, N. Napp, I. Wulfsen, M. Schweizer, JR. Schwarz and CK. Bauer, Hamburg*

## Friday

- T11-1B** HIPPOCAMPAL NETWORK PATTERNS IN KCNQ/M-CHANNEL-DEFICIENT MICE  
*D. Isbrandt, Q. Le, O. Pongs and G. Buzsaki, Hamburg and Newark (USA)*



- T11-2B** BEHAVIORAL CONSEQUENCES OF AGE-DEPENDENT TRANSGENIC SUPPRESSION OF HCN/H CHANNELS IN MOUSE BRAIN  
*S. Sandke, J. Roeper, M. Kruse, F. Morellini and D. Isbrandt, Hamburg and Marburg*
- T11-3B** SUBUNIT COMPOSITION OF *DROSOPHILA* MICROVILLAR TRPC CHANNELS: NEW ANSWERS TO AN OLD QUESTION  
*DO. Richter, T. Oberacker, J. Kern and A. Huber, Hohenheim*
- T11-4B** EFFECTS OF BACE1 ON SODIUM CHANNEL GATING  
*T. Huth, K. Neuenfeldt, A. Rittger, M. Schwake, N. Nukina, B. De Strooper, P. Saftig and C. Alzheimer, Kiel, Wako City (JP) and Leuven (BE)*
- T11-5B** TRP CHANNELS IN MICROGLIA: PHARMACOLOGICAL AND BIOPHYSICAL PROPERTIES OF TRPM2 AND TRPC6  
*R. Kraft and J. Eilers, Leipzig*
- T11-6B** MECHANISMS UNDERLYING DIVERGING T-TYPE CA<sub>2</sub>+ CURRENTS OF THALAMIC RELAY- AND INTERNEURONS IN EPILEPTIC AND NON-EPILEPTIC RATS  
*T. Broicher, T. Kanyshkova, P. Meuth, HC. Pape and T. Budde, Münster*
- T11-7B** ALTERED EXPRESSION OF HCN CHANNELS IN DEVELOPING RAT VISUAL THALAMUS  
*T. Kanyshkova, P. Ehling, T. Broicher, HC. Pape and T. Budde, Münster*
- T11-8B** MENTHOL EFFECTS ON HYPOTHALAMIC NEURONS  
*BT. Wollweber, S. Wegner, A. Randolph, MKH. Schäfer, H. Schneider, K. Voigt and HA. Braun, Marburg*
- T11-9B** THE IMPACT OF NETWORK ACTIVITY ON LAYER 5 NEOCORTICAL PYRAMIDAL NEURONS FROM THE RAT  
*D. Bar-Yehuda and A. Korngreen, Ramat Gan (IL)*
- T11-10B** A NUMERICAL SOLUTION TO THE ION CHANNEL INVERSE PROBLEM USING FULL-TRACE ANALYSIS AND A GENETIC ALGORITHM  
*M. Gurkiewicz and A. Korngreen, Ramat Gan (IL)*
- T11-11B** ENDOGENOUS POLYAMINES REGULATE CORTICAL NEURONAL EXCITABILITY VIA ACTIVITY-DEPENDANT BLOCKADE OF VOLTAGE-GATED NA<sup>+</sup> CHANNELS  
*L. Libman, MJ. Gutnick and IA. Fleidervish, Rehovot (IL)*
- T11-12B** CHARACTERIZATION OF *DROSOPHILA* MUTANTS WITH DEFECTS IN THE SUBCELLULAR TRANSLOCATION OF THE ION CHANNEL TRPL  
*NE. Meyer and A. Huber, Stuttgart*

## Saturday

- T11-1C** EFFECT OF HYPOTHYROIDISM AND LACK OF TH RECEPTORS ALPHA AND BETA ON THE EXPRESSION OF BK CHANNELS  
*N. Brandt, S. Münkner, C. Braig, H. Winter, M. Knipper and J. Engel, Tübingen*

- T11-2C** ENDOCYTOSIS OF ION CHANNELS IN THE STRIA VASCULARIS: OF ANY IMPORTANCE FOR HEARING?  
*M. Knipper, C. Claussen, L. Rüttiger, P. Saftig, O. Koenig, TE. Willnow, M. Gross and U. Zimmermann, Tübingen, Kiel and Berlin*
- T11-3C** EFFECT OF THYROID HORMONE DEFICIENCY ON  $CA^{2+}$  CURRENTS AND EXOCYTOSIS IN COCHLEAR INNER HAIR CELLS  
*S. Kuhn, C. Braig, S. Münkner, H. Winter, M. Knipper and J. Engel, Tübingen*
- T11-4C** IONIC CURRENTS THROUGH  $CA^{2+}$  CHANNELS IN MATURE MOUSE INNER HAIR CELLS UNDER MOBILE PHONE FIELD EXPOSURE  
*S. Münkner, A. El Ouardi, J. Streckert, V. Hansen and J. Engel, Tübingen and Wuppertal*
- T11-5C** ANALYSING THE  $CA^{2+}$  CURRENTS IN INNER AND OUTER HAIR CELLS OF MICE LACKING THE BETA3-OR BETA4 AUXILIARY  $CA^{2+}$  CHANNEL BETA SUBUNIT  
*M. Knirsch, S. Kuhn, L. Rüttiger, S. Kasperek, S. Münkner, M. Freichel, V. Flockerzi, M. Knipper and J. Engel, Tübingen and Homburg*
- T11-6C** FUNCTIONAL ANALYSIS OF MUTATIONS IN CNGA3: ALTERED CHANNEL FUNCTION OR IMPAIRED TRAFFICKING?  
*K. Koeppen, P. Reuter, T. Ladewig and B. Wissinger, Tübingen*
- T11-7C** AN INCREASE IN PERSISTENT  $NA$  CURRENT INDUCED BY A MUTATION IN THE  $NA_{v}1.2$  CHANNEL IS ASSOCIATED WITH NEONATAL-INFANTILE SEIZURES  
*Y. Liao, L. Deprez, L. Claes, MO. Popa, S. Bail, S. Petrou, P. De Jonghe and H. Lerche, Ulm, Antwerp (BE) and Melbourne (AU)*
- T11-8C** A HYPERPOLARISATION-ACTIVATED CHLORIDE CURRENT IN THE *DROSOPHILA* MUSCLE  
*U. Rose, M. Wanischek, C. Derst and C. Walther, Ulm, Berlin and Marburg*
- T11-9C** A NOVEL MUTATION IN THE VOLTAGE SENSOR OF THE  $KV7.2$  CHANNEL CAUSES MYOKYMIA  
*TV. Wuttke, F. Lehmann-Horn, W. Paulus, K. Jurkat-Rott and H. Lerche, Ulm and Göttingen*
- T11-10C** TRESK TANDEM-PORE POTASSIUM CHANNELS ARE THE MAJOR COMPONENT OF BACKGROUND POTASSIUM CURRENTS IN MURINE DRG NEURONS  
*TM. Dobler, S. Tovornik, J. Freitag, A. Karschin, F. Döring and E. Wischmeyer, Würzburg and Martinsried*
- T11-11C** TASK FORCES STROKE: THE FUNCTIONAL IMPACT OF THE TWIK-RELATED ACID-SENSING POTASSIUM CHANNELS 1 AND TASK3 FOR CEREBRAL ISCHEMIA  
*SG. Meuth, C. Kleinschnitz, T. Budde, G. Stoll and H. Wiendl, Würzburg and Münster*



## T12: Glia

### Thursday

- T12-1A** A NOVEL MARKER FOR OLIGODENDROCYTES AND ANALYSIS OF EXTRACELLULAR MATRIX SIGNALING FOR OLIGODENDROCYTE DEVELOPMENT  
*T. Czopka, A. von Holst, C. French-Constant and A. Faissner, Bochum and Cambridge (UK)*
- T12-2A** MODULATION OF RETINAL NEURITE OUTGROWTH BY GLIAL DERIVED EXTRACELLULAR MATRIX PROTEINS: TENASCIN-C AND CHONDROITIN SULPHATE PROTEOGLYCANs  
*S. Siddiqui, A. Horvat-Bröcker and A. Faissner, Bochum*
- T12-3A** CATHEPSINS S AND X, SECRETED FROM MICROGLIA, TRIGGER NEURONAL CELL DEATH IN A CONDITIONED MEDIUM TRANSFER MODEL  
*W. Wendt, H. Lübbert and CC. Stichel, Bochum and Leverkusen*
- T12-4A** ANALYSIS OF GABA<sub>A</sub> RECEPTOR CURRENTS IN HIPPOCAMPAL GLIAL CELLS  
*M. Grauer, G. Seifert, R. Jabs and C. Steinhäuser, Bonn*
- T12-5A** AGE-DEPENDENT REGULATION OF KIR4.1 CHANNEL EXPRESSION IN HIPPOCAMPAL ASTROCYTES  
*C. Hartmann, DK. Binder, G. Seifert, K. Hüttmann, A. Wyczynski and C. Steinhäuser, Bonn and Irvine CA (USA)*
- T12-6A** FUNCTIONAL AND MOLECULAR HETEROGENEITY OF 'COMPLEX' GLIA CELLS IN THE HIPPOCAMPUS  
*K. Jennißen, G. Seifert and C. Steinhäuser, Bonn*
- T12-7A** FUNCTIONAL DIVERSITY OF RADIAL GLIA-LIKE PRECURSOR CELLS IN THE ADULT DENTATE GYRUS  
*R. Renzel, A. Kunze, M. Congreso, G. Seifert, A. Wallraff, C. Redecker and C. Steinhäuser, Bonn and Jena*
- T12-8A** ACTIVITY-INDUCED SODIUM SIGNALS IN BERGMANN GLIAL CELLS AND PURKINJE NEURONS  
*M. Bennay, SD. Meier, KW. Kafitz and CR. Rose, Düsseldorf*
- T12-9A** GABA-INDUCED CALCIUM SIGNALING IN HIPPOCAMPAL ASTROCYTES  
*SD. Meier, KW. Kafitz and CR. Rose, Düsseldorf*
- T12-10A** PROLONGED GLIAL EXPRESSION OF SOX4 IN THE CENTRAL NERVOUS SYSTEM LEADS TO ARCHITECTURAL CEREBELLAR DEFECTS AND ATAXIA  
*M. Hoser, S. Baader, MR. Bösl, M. Wegner and E. Sock, Erlangen, Bonn and Martinsried*
- T12-11A** OVEREXPRESSION OF THE HIGH-MOBILITY-GROUP TRANSCRIPTION FACTOR SOX4 DISRUPTS OLIGODENDROCYTE DIFFERENTIATION AND LEADS TO SEVERE CNS HYPOMYELINATION  
*M. Potzner, A. Fischer, MR. Bösl, E. Lütjen-Drecoll, M. Wegner and E. Sock, Erlangen and Martinsried*

## Friday

- T12-1B** MICROGLIAL CELLS RELEASE ACTIVIN A UPON STIMULATION WITH BACTERIAL TLR-AGONISTS  
*S. Ebert, R. Nau and U. Michel, Göttingen*
- T12-2B** CALCIUM INFLUX INTO ASTROCYTES MEDIATED BY THE INWARDLY RECTIFYING K<sup>+</sup> CHANNEL KIR 4.1 (KCNQ10) AT LOW EXTERNAL K<sup>+</sup> CONCENTRATION  
*K. Härtel, K. Singaravelu, M. Kaiser, C. Neusch and JW. Deitmer, Göttingen and Kaiserslautern*
- T12-3B** PROPAGATION SPEED OF CORTICAL SPREADING DEPRESSION CORRELATES WITH CORTICAL MYELIN SHEATH THICKNESS  
*F. Klinker, RCA. Guedes, BG. Brinkmann, MW. Sereda and D. Liebetanz, Göttingen and Recife (BR)*
- T12-4B** SIMVASTATIN AFFECTS OLIGODENDROGLIAL PROCESS FORMATION AND MYELIN PRODUCTION CAN SIMVASTATIN BE RECOMMENDED FOR THERAPY IN MS?  
*S. Klopffleisch, M. Schmitz, W. Brück, D. Merkler, J. Reischl, W. Holtz and HH. Althaus, Göttingen*
- T12-5B** HYPOMYELINATION DUE TO INACTIVATION OF CHOLESTEROL BIOSYNTHESIS IN SCHWANN CELLS  
*S. Quintes, B. Brügger, C. Lappe-Siefke, W. Möbius, KA. Nave and G. Saher, Göttingen and Heidelberg*
- T12-6B** INDUCED DELETION OF AMPA-TYPE GLUTAMATE RECEPTORS IN BERGMANN GLIA  
*AS. Saab, S. Rudolph, PG. Hirrlinger, A. Scheller, J. Hirrlinger, H. Monyer, R. Sprengel, B. Harke, SW. Hell and F. Kirchhoff, Göttingen, Leipzig and Heidelberg*
- T12-7B** ANALYSIS OF NG2 EXPRESSION AT THE SYNAPTIC GLIA-NEURON INTERFACE  
*A. Scheller and F. Kirchhoff, Göttingen*
- T12-8B** EXPRESSION OF HNK-1 BY SUBPOPULATIONS OF OLFACTORY NEURONS AND SCHWANN CELLS IN THE ADULT NASAL MUCOSA *IN SITU* AND ITS REGULATION *IN VITRO*  
*P. Bock, A. Beineke, W. Baumgärtner and K. Wewetzer, Hannover*
- T12-9B** PURIFICATION AND *IN VITRO* CHARACTERIZATION OF OLFACTORY ENSHEATHING CELL-LIKE CNS GLIA (ALDYNOGLIA) FROM ADULT CANINE BRAIN  
*I. Imbschweiler, W. Baumgärtner and K. Wewetzer, Hannover*
- T12-10B** THYROID HORMONE ACTION DURING DEVELOPMENT OF CEREBELLAR PURKINJE CELLS AND BERGMANN GLIA  
*S. Horn, J. Mittag, MKH. Schäfer and H. Heuer, Jena, Hannover and Marburg*

## Saturday

- T12-1C** SATELLITE GLIAL CELLS IN SENSORY GANGLIA OF MICE - A POSSIBLE ROLE IN PAIN SENSATION  
*PS. Cherkas, S. Cohen, R. Kushnir, M. Tal and M. Hanani, Jerusalem (IL)*



- T12-2C** GABA-INDUCED CALCIUM SIGNALS IN ASTROCYTES AND INTERNEURONS OF THE MOUSE OLFACTORY BULB  
*M. Döngi, JW. Deitmer and C. Lohr, Kaiserslautern*
- T12-3C** MODULATION OF SYNAPTIC ACTIVITY IN THE CEREBELLAR CORTEX BY BERGMANN GLIAL CELLS  
*P. Histel, M. Ascherl, D. Casel, J. Brockhaus, M. Pottke and JW. Deitmer, Kaiserslautern*
- T12-4C** COMMUNICATION BETWEEN AXONS AND OLFACTORY ENSHEATHING CELLS IN THE RODENT OLFACTORY BULB  
*A. Rieger, JW. Deitmer and C. Lohr, Kaiserslautern*
- T12-5C** CA<sup>2+</sup> RESPONSES OF MÜLLER CELLS INDUCED BY LIGHT STIMULATION OF PHOTORECEPTOR CELLS  
*K. Rillich, M. Weick, J. Gentsch, A. Bringmann and A. Reichenbach, Leipzig*
- T12-6C** NON-MYELINATING GLIA CELLS WITH CLOSE CONTACT TO AQUAPORIN-1-POSITIVE UNMYELINATED NERVE FIBERS IN PERIPHERAL MOUSE NERVES AND GANGLIA  
*V. Hilmer, U. Habeck, P. Grafe and L. Dimou, München*
- T12-7C** EFFECT OF PROTEASOMAL INHIBITION BY MG-132 ON INCLUSION BODY FORMATION IN ASTROCYTES  
*B. Meyer-Helms, T. Stahnke, O. Goldbaum and C. Richter-Landsberg, Oldenburg*
- T12-8C**  $\alpha$ -SYNUCLEIN AGGREGATE FORMATION IN OLIGODENDROGLIA OLN-T40 CELLS STABLY TRANSFECTED WITH  $\alpha$ -SYNUCLEIN  
*M. Riedel, O. Goldbaum, K. Uryu, J. Bruce, JQ. Trojanowski, VMY. Lee and C. Richter-Landsberg, Oldenburg and Philadelphia (USA)*
- T12-9C** GLUTAMATE RECEPTOR DISTRIBUTION ON NG2/EGFP EXPRESSING GLIAL CELLS IDENTIFIED BY FREEZE-FRACTURE REPLICA EM IMMUNOGOLD LABELLING IN THE MOUSE BRAIN.  
*JHJ. Huck, SH. Kang, JDB. Roberts, P. Somogyi, A. Nishiyama, Y. Fukazawa, R. Shigemoto and DE. Bergles, Oxford (UK), Baltimore (USA), Storrs (USA) and Okazaki (JP)*
- T12-10C** GLIA CELLS AND EXTRACELLULAR MATRIX MOLECULES IN THE SNAIL (LYMNAEA AND HELIX) CENTRAL NERVOUS SYSTEM: HISTOCHEMICAL DEMONSTRATION  
*Z. Serfözö and K. Elekes, Tihany (HU)*

## T13: Plasticity

### Thursday

- T13-1A** MULTIDIMENSIONAL LONG-TERM POTENTIATION AT THE HIPPOCAMPAL MOSSY FIBER SYNAPSE  
*A. Gundlfinger, C. Leibold, R. Kempter and D. Schmitz, Berlin*

- T13-2A** HOMEOSTATIC GAIN CHANGES AND OCULAR DOMINANCE DIVERSITY CAN ACCOUNT FOR THE DIFFERENTIAL EXPANSION OF THE LEFT- AND RIGHT-EYE RECEPTIVE FIELDS OF CORTICAL NEURONS AFTER MONOCULAR RETINAL LESIONS  
*JM. Young, MB. Calford and K. Obermayer, Berlin and Newcastle (AU)*
- T13-3A** SYNAPTOGENESIS AND NEUROGENESIS ARE RELATED PHENOMENA IN THE DENTATE GYRUS OF THE MATURE BRAIN IN GERBILS (*MERIONES UNGUICULATUS*)  
*M. Butz, Bielefeld*
- T13-4A** HIGH- AND LOW-FREQUENCY REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION (RTMS) DOWNREGULATES THE EXPRESSION OF THE CALCIUM-BINDING PROTEINS PARVALBUMIN AND CALBINDIN  
*K. Funke, J. Trippe, S. Aydin-Abidin, E. Weiler, W. Girzalsky, UT. Eysel, R. Erdmann and A. Benali, Bochum*
- T13-5A** STEM CELL INDUCED CORTICAL PLASTICITY REDUCES BRAIN DAMAGE AFTER PERINATAL ASPHYXIA IN RATS  
*M. Geißler, K. Kreikemeier, S. Neuhoff, C. Meier and HR. Dinse, Bochum*
- T13-6A** THE ROLE OF PRESYNAPTIC NMDA-RECEPTORS IN LESION-INDUCED PLASTICITY OF THE VISUAL CORTEX IN RATS  
*I. Yan, UT. Eysel and T. Mittmann, Bochum*
- T13-7A** DEFINED ROLE OF P75, TRKB.T1 AND TRKB NEUROTROPHIN RECEPTORS IN STRUCTURAL PLASTICITY OF HIPPOCAMPAL NEURONS  
*K. Michaelsen, M. Zagrebelsky and M. Korte, Braunschweig*
- T13-8A** ROLE OF THE NOGOA/NGR/P75<sup>NTR</sup> SIGNALING SYSTEM IN MODULATING STRUCTURAL PLASTICITY IN THE MATURE MOUSE HIPPOCAMPUS  
*M. Zagrebelsky and M. Korte, Braunschweig*
- T13-9A** ONLINE INTERACTION WITH *IN VITRO* NEURONAL NETWORKS  
*O. Weihberger, JE. Mikkonen and U. Egert, Freiburg*

### Friday

- T13-1B** GLYCOPROTEIN M6A: EXPRESSION AND REGULATION BY CHRONIC STRESS IN THE BRAIN  
*BH. Cooper, H. Werner, E. Rüter and G. Flügge, Göttingen*
- T13-2B** EPAC: A NOVEL MODULATOR OF PRESYNAPTIC SHORT-TERM PLASTICITY IN CULTURED HIPPOCAMPAL NEURONS  
*I. Gekel and E. Neher, Göttingen*
- T13-3B** STRESS INDUCED REGIONAL AND HEMISPHERIC MORPHOLOGICAL MODIFICATIONS OF PYRAMIDAL CELLS IN THE RAT PREFRONTAL CORTEX  
*C. Perez-Cruz, G. Flügge and E. Fuchs, Göttingen*
- T13-4B** MORPHOLOGICAL ANALYSES OF THE HIPPOCAMPUS OF TENASCIN-C DEFICIENT MICE  
*F. Kuang, A. Irintchev and M. Schachner, Hamburg*



- T13-5B** AUDITORY SENSORIMOTOR INTEGRATION AND TRAINING OF MOTOR FUNCTIONS AFTER STROKE  
*S. Schneider, PW. Schönle, E. Altenmüller and TF. Münte, Hannover and Magdeburg*
- T13-6B** IMMEDIATE EARLY GENE EXPRESSION IN THE CORTICO-HIPPOCAMPAL NETWORK AFTER NEOCORTICAL ISCHEMIC LESIONS  
*S. Keiner and A. Kunze, Jena*
- T13-7B** CALCIUM-INDUCED EXOCYTOSIS FROM ACTOMYOSIN-DRIVEN, MOTILE VARICOSITIES FORMED BY DYNAMIC CLUSTERS OF ORGANELLES  
*ZM. Fridman, G. Malkinson, D. Kamber, A. Dormann, E. Shapira and M. Spira, Jerusalem (IL)*
- T13-8B** CONSTITUTIVE EXPRESSION OF CYCLINS AND CDKS AND THEIR FUNCTION BEYOND CELL CYCLE  
*S. Schmetsdorf, T. Arendt and U. Gärtner, Leipzig*
- T13-9B** BIOCHEMICAL AND IMMUNOCHEMICAL CHARACTERIZATION OF PERINEURONAL NETS  
*R. Frischknecht, G. Franken, KH. Smalla, N. John, ED. Gundelfinger and Cl. Seidenbecher, Magdeburg*

## Saturday

- T13-1C** SCULPTURING SYNAPTO-DENDRITIC CIRCUITRY VIA JACOB AND ITS INTERACTION PARTNERS  
*J. Sahin, I. Zdobnova, F. Pöll, H. Sann, ED. Gundelfinger, W. Zuschratter and MR. Kreuz, Magdeburg*
- T13-2C** L-TYPE  $Ca^{2+}$  CHANNELS, CAMKII, AND CAMP COOPERATE IN MEDIATING POSTSYNAPTIC SECRETION OF BDNF AND NT-3  
*R. Kolarow, T. Brigadski, C. Kuhlmann, H. Luhmann and V. Lessmann, Mainz*
- T13-3C** SMALL INTERFERING RNA MEDIATED EFFICIENT KNOCKDOWN OF BDNF IN CULTURED HIPPOCAMPAL NEURONS  
*GC. Niemann, T. Brigadski and V. Lessmann, Mainz*
- T13-4C** CHANGES IN THE SPECTRAL MAIN SEQUENCE OF HUMAN SACCADDES DURING SACCADDE ADAPTATION  
*S. Klingenhoefer and F. Bremmer, Marburg*
- T13-5C** A BALANCE OF PROTEIN SYNTHESIS AND PROTEASOME-DEPENDENT DEGRADATION DETERMINES THE MAINTENANCE OF LTP  
*RM. Fonseca, RM. Vabulas, FU. Hartl, T. Bonhoeffer and UV. Nägerl, Martinsried and München*
- T13-6C** SENSORIMOTOR GATING OF THE GOLDFISH STARTLE RESPONSE: BEHAVIORAL AND NEURAL CHARACTERISTICS  
*T. Preuss and H. Neumeister, New York (USA)*
- T13-7C** MOLECULAR CORRELATES OF TINNITUS IN THE AUDITORY SYSTEM: BDNF, ARG3.1/ARC, AND THE ROLE OF GABA  
*R. Panford-Walsh, W. Singer, L. Rüttiger, HS. Geisler, U. Zimmermann, I. Köpschall, K. Rohbock, E. Oestreicher, H. Haas and M. Knipper, Tübingen*



- T13-8C** IDENTIFICATION OF MARKERS FOR NEURONAL PLASTICITY IN THE AUDITORY SYSTEM  
*W. Singer, R. Panford-Walsh, J. Tan, L. Rüttiger, H. Haas, I. Köpschall, K. Rohbock, U. Zimmermann and M. Knipper, Tübingen and Melbourne (AU)*

## T14: Visual system I: Invertebrates

### Thursday

- T14-1A** SYNAPTIC PROPERTIES REMAIN STABLE DURING ONGOING TRANSFER OF VISUAL MOTION INFORMATION IN THE FLY BRAIN  
*J. Kalb, M. Egelhaaf and R. Kurtz, Bielefeld*
- T14-2A** ACTIVITY-DEPENDENT ADAPTATION IN FLY VISUAL MOTION-SENSITIVE NEURONS  
*R. Kurtz, U. Beckers, B. Hundsdörfer and M. Egelhaaf, Bielefeld*
- T14-3A** MOTION ADAPTATION IMPROVES THE DETECTABILITY OF SPATIAL DISCONTINUITIES IN THE ENVIRONMENT  
*P. Liang, R. Kern and M. Egelhaaf, Bielefeld*
- T14-4A** MULTISENSORY INTEGRATION IN THE VISUAL SYSTEM OF THE FLY: ENCODING COMMON CONTROL INFORMATION FROM TWO SENSORY SYSTEMS IN THE ACTIVITY OF A SINGLE NEURON  
*MM. Parsons, Cambridge (UK)*
- T14-5A** THE FUNCTION OF THE IRM PROTEINS IN CELL SORTING IN *DROSOPHILA MELANOGASTER*  
*A. Hertenstein, TFM. Andlauer, GL. Linneweber and KF. Fischbach, Freiburg*
- T14-6A** LIGHT MICROSCOPICAL LOCALISATION OF AN INSECT NEURONS INPUT AND OUTPUT SYNAPSES  
*G. Leitinger, PJ. Simmons, FC. Rind and MA. Pabst, Graz (AT) and Newcastle upon Tyne (UK)*
- T14-7A** THE ASPHERIC, DIVIDED SUPERPOSITION EYE OF THE *ASCALAPHUS OWLFY*  
*P. Pirih, G. Belušić and DG. Stavenga, Groningen (NL) and Ljubljana (SI)*
- T14-8A** *IN-VIVO* PHOTOCHEMISTRY OF BUTTERFLY VISUAL PIGMENTS  
*B. Wijnen and DG. Stavenga, Groningen (NL)*
- T14-9A** SIGNAL-TO-NOISE RATIO AND QUANTUM CATCH IN THE TUNING OF VISUAL SENSITIVITY IN *MYSIS RELICTA*  
*J. Pahlberg, M. Jokela-Määttä, P. Ala-Laurila and K. Donner, Helsinki (FI) and Boston (USA)*

### Friday

- T14-1B** SELF-MOTION ESTIMATION AND FLIGHT CONTROL IN BLOWFLIES AND LOCUSTS - A COMPARATIVE STUDY  
*DG. Wüstenberg and HG. Krapp, London (UK)*
- T14-2B** THE NERVOUS SYSTEM IN THE VISUAL SENSORY ORGANS OF A *CUBOZOA* (BOX JELLYFISH)  
*L. Parkefelt and P. Ekström, Lund (SE)*



- T14-3B** PHOTORECEPTOR RELIABILITY ASSESSED BY RESPONSE DISCRIMINABILITY  
*J. Grewe, M. Weckström, M. Egelhaaf and AK. Warzecha, Bielefeld and Oulu (FI)*
- T14-4B** OPTOMOTOR RESPONSE DEPENDS ON BEHAVIOURAL STATE OF FLY, *CALLIPHORA VICINA*  
*R. Rosner, M. Egelhaaf and AK. Warzecha, Münster and Bielefeld*
- T14-5B** TOPOGRAPHIC ORGANIZATION OF *E*-VECTOR ORIENTATION COLUMNS IN THE CENTRAL COMPLEX OF THE LOCUST BRAIN  
*S. Heinze and U. Homberg, Marburg*
- T14-6B** STANDARDIZED ATLAS OF THE BRAIN OF THE DESERT LOCUST  
*AE. Kurylas, T. Rohlfing, A. Jenett, S. Krofczik and U. Homberg, Marburg, Menlo Park (USA), Würzburg and Berlin*
- T14-7B** A BEE IN THE CORRIDOR: REGULATING THE OPTIC FLOW ON ONE SIDE  
*F. Ruffier, J. Serres, GP. Masson and N. Franceschini, Marseille (FR)*
- T14-8B** A BEE IN THE CORRIDOR: CENTRING OR WALL-FOLLOWING ?  
*J. Serres, F. Ruffier, GP. Masson and N. Franceschini, Marseille (FR)*
- T14-9B** INTEGRATION OF LOBULA PLATE TANGENTIAL CELLS' SIGNALS BY DNOVS1, AN IDENTIFIED PREMOTOR NEURON  
*J. Haag, A. Wertz and A. Borst, Martinsried*

## Saturday

- T14-1C** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF DIRECTIONALLY SELECTIVE VISUAL INTERNEURONS IN *DROSOPHILA MELANOGASTER*  
*M. Joesch, J. Plett, A. Borst and DF. Reiff, Martinsried*
- T14-2C** ROBUST INFORMATION PROCESSING IN MOTION VISION  
*DL. Spavieri Junior and A. Borst, Martinsried*
- T14-3C** MOTION SENSITIVE PREMOTOR NEURONS OF THE BLOWFLY *CALLIPHORA VICINA*  
*A. Wertz, J. Haag and A. Borst, Martinsried*
- T14-4C** LATERAL INTERACTIONS BETWEEN VS CELLS OF THE FLY VISUAL SYSTEM GIVE RISE TO TWO DISTINCT RECEPTIVE FIELDS IN SINGLE VS CELLS  
*YM. Elyada, J. Haag and A. Borst, Martinsried/Munich*
- T14-5C** LIGHT DEPENDENT MODULATION OF KV<sup>-</sup>CURRENTS IN PHOTORECEPTORS OF *DROSOPHILA*  
*S. Krause, Y. Zhu, R. Hardie and M. Weckström, Oulu (FI) and Cambridge (UK)*
- T14-6C** FUNCTIONAL PROPERTIES OF UV PHOTORECEPTORS IN THE COMPOUND EYE OF THE COCKROACH  
*I. Salmela, K. Heimonen and M. Weckström, Oulun yliopisto (FI)*

- T14-7C** IS THERE A COMMON GENETIC PROGRAM TO SPECIFY POLARIZATION-SENSITIVE PHOTORECEPTORS IN INSECTS?  
*MJ. Henze, M. Wernet and T. Labhart, Zürich (CH) and Stanford (USA)*
- T14-8C** THE OPTICS OF THE POLARIZING TAPETUM IN THE POSTERO-MEDIAN EYES OF THE GNAPHOSID SPIDER *DRASSODES CUPREUS*  
*K. Müller, L. Bigler and T. Labhart, Zürich (CH)*

## T15: Visual system II: Retinal circuits

### Thursday

- T15-1A** THE VISUAL CODE: NEURONAL PATTERN REPRESENTATION  
*M. Bongard and E. Fernandez, Elche (ES)*
- T15-2A** GLYCINE RECEPTORS OF NARROW-FIELD AMACRINE CELLS OF THE MOUSE RETINA  
*J. Weiss and H. Wässle, Frankfurt/M.*
- T15-3A** LIGHT-INDUCED ALTERATIONS OF S CONE OPSIN EXPRESSION IN THE ALBINO RAT RETINA  
*M. Glösmann and L. Peichl, Frankfurt/M.*
- T15-4A** LIGHT-EVOKED  $Ca^{2+}$  SIGNALS IN STARBURST AMACRINE CELL DENDRITES: ARE INTERNAL  $Ca^{2+}$ -STORES INVOLVED?  
*X. Castell, W. Denk and T. Euler, Heidelberg*
- T15-5A** TAPPING RETINAL GANGLION CELL ACTIVITY IN HUMANS WITH THE MULTIFOCAL PATTERN ELECTRO-RETINOGRAM  
*MB. Hoffmann and JJ. Flechner, Magdeburg*

### Friday

- T15-1B** RECORDING OF RETINAL GANGLION CELL ACTIVITY WITH A HIGH DENSITY MULTI-TRANSISTOR-ARRAY (MTA)  
*G. Zeck, A. Lambacher and P. Fromherz, Martinsried*
- T15-2B** EFFECTS OF GSM 900 ELECTROMAGNETIC FIELD EXPOSURE ON RETINAL GANGLION CELL RESPONSES  
*MT. Ahlers, F. Tillmans, A. Deister, T. Bolz, A. Bahr and J. Ammermüller, Oldenburg and Kamp-Lintfort*
- T15-3B** EFFECTS OF COMPLEXIN III AND IV DEPLETION ON THE MOUSE ELECTRORETINOGRAM  
*J. Ammermüller, JH. Brandstätter, N. Brose and K. Reim, Oldenburg, Erlangen and Göttingen*
- T15-4B** THE ROLE OF HORIZONTAL CELL COUPLING IN THE FORMATION OF ANTAGONISTIC RECEPTIVE FIELDS IN MOUSE RETINAL GANGLION CELLS  
*K. Dedek, C. Pandarinath, NM. Alam, K. Wellershaus, K. Willecke, GT. Prusky, S. Nirenberg and R. Weiler, Oldenburg, New York (USA), Lethbridge (CA) and Bonn*
- T15-5B** IDENTIFICATION AND LOCALISATION OF CPCX43.4 AND CPCX47.6, TWO HOMOLOGS OF MMCX45 EXPRESSED IN THE CARP RETINA  
*G. Hilgen, S. Beermann, P. Dirks, R. Weiler and U. Janssen-Bienhold, Oldenburg*



## Saturday

- T15-1C** CONNEXINS EXPRESSED IN HORIZONTAL CELLS OF THE FISH RETINA  
*U. Janssen-Bienhold, P. Dirks, G. Ommen, G. Hilgen and R. Weiler, Oldenburg*
- T15-2C** CONNEXIN30.2 IS EXPRESSED BY GANGLION CELLS OF THE MOUSE RETINA  
*L. Pérez de Sevilla Müller, M. M. Kreuzberg, S. Maxeiner, S. Lorenz, K. Willecke, R. Weiler and U. Janssen-Bienhold, Oldenburg and Bonn*
- T15-3C** HCN CHANNELS EXPRESSED BY ROD BIPOLAR CELLS OF THE MOUSE RETINA, CONFER A BAND-PASS RESPONSE TO INPUT SIGNALS  
*L. Cangiano, C. Gargini, GC. Demontis, L. Della Santina and L. Cervetto, Pisa (IT)*
- T15-4C** CAN CHICKEN RETINAL GANGLION CELLS DISTINGUISH IMAGE DEFOCUS FROM A DROP IN IMAGE CONTRAST?  
*E. Diedrich and F. Schaeffel, Tübingen*
- T15-5C** FUNCTIONAL CHARACTERISTICS OF RETINAL GANGLION CELLS IN THE BLIND P23H RAT AS A PERSPECTIVE MODEL FOR TESTING RETINAL PROSTHESIS  
*B. Kolomiets, E. Dubus, JA. Sahel and S. Picaud, Paris (FR)*

## T16: Visual system III: Central processing

### Thursday

- T16-1A** A MIDBRAIN FEEDBACK LOOP IN A SLICE PREPARATION: ELECTROPHYSIOLOGY OF RELEVANT ELEMENTS  
*U. Netzel, R. Wessel and H. Luksch, Aachen and Saint Louis (USA)*
- T16-2A** OPERATING REGIMES FOR CORTICAL COMPUTATION  
*M. Stimberg, K. Wimmer, R. Martin, J. Mariño, J. Schummers, DC. Lyon, M. Sur and K. Obermayer, Berlin, A Coruña (ES), Cambridge (USA) and La Jolla (USA)*
- T16-3A** INFLUENCE OF RECURRENT EXCITATION AND INHIBITION ON THE RESPONSE DYNAMICS IN A NETWORK MODEL OF ORIENTATION TUNING  
*K. Wimmer, R. Martin, M. Stimberg and K. Obermayer, Berlin*
- T16-4A** CLOSING THE LOOP: THE DYNAMICAL PERFORMANCE OF OCULOMOTOR SYSTEM AND PERCEPTION  
*KJ. Boström and AK. Warzecha, Bielefeld and Münster*
- T16-5A** EFFECTS OF HIGH- AND LOW-FREQUENCY RTMS ON THE METABOLIC ACTIVITY AND THE INHIBITORY SYSTEMS IN ADULT RAT CORTEX  
*S. Aydin-Abidin, K. Funke, J. Trippe, UT. Eysel and A. Benali, Bochum*

- T16-6A** KCC2 AND NKCC1 IN THE VISUAL CORTEX OF PIGMENTED AND ALBINO RATS: A MOLECULAR AND IMMUNOHISTOCHEMICAL APPROACH  
*WM. Blaszczyk, EM. Neuhaus, N. Prochnow, JT. Epplen and KP. Hoffmann, Bochum*
- T16-7A** GABAERGIC PROJECTIONS OF THE VISUAL SYSTEM IN THE RAT. AN *IN VIVO* AND *IN VITRO* STUDY  
*G. Born and M. Schmidt, Bochum*
- T16-8A** EFFECTS OF ALBINISM ON DIRECTION SELECTIVITY IN THE RETINA AND THE ACCESSORY OPTIC SYSTEM OF RATS  
*M. Krause, S. Helduser and KP. Hoffmann, Bochum*
- T16-9A** ELECTROPHYSIOLOGICAL RECORDINGS IN THE PRETECTUM OF THE SMALL-SPOTTED DOGFISH (*SCYLIORHINUS CANICULA*)  
*O. Masseck and KP. Hoffmann, Bochum*
- T16-10A** SPATIAL AND TEMPORAL REGULATION OF INTRACELLULAR PROTEIN TYROSINE PHOSPHATASES IN THE DEVELOPING MOUSE RETINOCOLICULAR SYSTEM  
*J. Reinhard, A. Horvat-Bröcker and A. Faissner, Bochum*

## Friday

- T16-1B** CONTOUR INTEGRATION MODULATES NEURONAL ACTIVITY IN MONKEY PRIMARY VISUAL CORTEX  
*SD. Neitzel, S. Mandon and AK. Kreiter, Bremen*
- T16-2B** SINGLE CELL RESPONSES FROM MONKEY AREA MT REVEAL A STRONG INFLUENCE OF SELECTIVE VISUAL ATTENTION ON THE NEURONAL REPRESENTATION OF FEATURE CHANGES  
*D. Wegener and AK. Kreiter, Bremen*
- T16-3B** SYSTEMATIC LATENCY GRADIENTS OF EVOKED AND INDUCED CORTICAL OSCILLATIONS REFLECT MULTIPLE PARALLEL BOTTOM UP AND TOP DOWN PROCESSES  
*S. Gotthardt, F. Borchard and MHJ. Munk, Frankfurt/M.*
- T16-4B** TIMESCALE-DEPENDENT CRITICALITY OF REPEATING SPATIOTEMPORAL SPIKE PATTERNS  
*K. Gansel and W. Singer, Frankfurt/M.*
- T16-5B** CHANGES IN NEURONAL DYNAMICS IN AE3-DEFICIENT MICE  
*R. Land, G. Engler, M. Hentschke, C. Hennings, CA. Hübner and AK. Engel, Hamburg*
- T16-6B** BRAIN ACTIVITY IN HUMAN ALBINISM DURING A VISUO-MOTOR INTEGRATION TASK  
*B. Wolynski, M. Kanowski and MB. Hoffmann, Magdeburg*
- T16-7B** CONTROL OF SACCADIC TARGETS: THE ROLE OF THE MACAQUE LATERAL INTRAPARIETAL AREA (LIP)  
*A. Kaminiarz, S. Klingenhoefer, K. Koenigs and F. Bremmer, Marburg*
- T16-8B** COUPLING OF LOCAL FIELD POTENTIALS IN MONKEY PRIMARY VISUAL CORTEX DURING A RELATIVE DISPARITY JUDGMENT TASK  
*T. Teichert, T. Wachtler and R. Eckhorn, Marburg*



- T16-9B** RESPONSES TO ORIENTATION AND COLOR IN MACAQUE PRIMARY VISUAL CORTEX IN FIXATION AND SACCADE TASKS  
*M. Wittenberg, T. Teichert, R. Eckhorn, F. Bremmer and T. Wachtler, Marburg*

### Saturday

- T16-1C** EXAMINING STRUCTURAL CHANGES IN MOUSE VISUAL CORTEX UNDERLYING FUNCTIONAL RECOVERY AFTER RETINAL LESIONS USING CHRONIC TWO-PHOTON IMAGING  
*T. Keck, TD. Mrsic-Flögel, U. Eysel, T. Bonhoeffer and M. Hübener, Martinsried and Bochum*
- T16-2C** FIRING RATE AND LOCAL FIELD POTENTIAL PROVIDE COMPLEMENTARY INFORMATION REGARDING SPATIAL SUMMATION AND CENTRE-SURROUND INFLUENCES IN PRIMARY VISUAL CORTEX OF THE AWAKE MACAQUE MONKEY  
*MA. Gieselmann and A. Thiele, Newcastle upon Tyne (UK)*
- T16-3C** LONG-RANGE INTERACTIONS IN CAT VISUAL CORTEX DURING NATURAL STIMULI PROCESSING INVESTIGATED BY VOLTAGE-SENSITIVE DYE IMAGING  
*S. Onat, M. Swierczek, P. König and D. Jancke, Osnabrück and Bochum*
- T16-4C** ORIENTATION TUNING OF THE LOCAL FIELD POTENTIAL AND MULTI-UNIT ACTIVITY IN THE PRIMARY VISUAL CORTEX OF THE MACAQUE  
*P. Berens, GA. Keliris, AS. Ecker, NK. Logothetis and AS. Tolias, Tübingen*
- T16-5C** TOPOLOGICAL TREE-ANALYSIS OF THE MICROVASCULAR SYSTEM IN MACAQUE VISUAL CORTEX  
*P. Beed, AL. Keller, A. Groso, M. Stampanoni, NK. Logothetis and B. Weber, Tübingen, Villigen (CH) and Zürich (CH)*
- T16-6C** RETINOTOPIC ACTIVATION OF MACAQUE AREA V2 WITHOUT INPUT FROM PRIMARY VISUAL CORTEX  
*M. Schmid, M. Augath, N. Logothetis and S. Smirnakis, Tübingen and Boston (USA)*
- T16-7C** THE ROLE OF INTRACORTICAL CONNECTIONS AND THALAMOCORTICAL SYNAPTIC DEPRESSION IN GENERATING RESPONSES TO MASKING STIMULI IN CAT PRIMARY VISUAL CORTEX  
*PM. Baker and KAC. Martin, Zurich (CH)*
- T16-8C** FUNCTIONAL ARCHITECTURE OF HORIZONTAL CONNECTIONS IN THE CAT PRIMARY VISUAL CORTEX  
*E. Ruesch and KAC. Martin, Zurich (CH)*
- T16-9C** LATERAL CONNECTIONS IN CAT'S AREA 17  
*CC. Girardin and KAC. Martin, Zurich (CH)*

## T17: Visual system IV: Visual perception

### Thursday

- T17-1A** OPTICAL ABERRATIONS IN BARN OWL EYES  
*WM. Harmening, MA. Vobig, P. Walter and H. Wagner, Aachen*

- T17-2A** STATISTICS OF EYE MOVEMENTS OF MONKEY FREELY VIEWING NATURAL SCENES  
*D. Berger, P. Maldonado, C. Babul, M. Nawrot and S. Gruen, Berlin, Santiago (CL) and Wako (JP)*
- T17-3A** NEURONAL RESPONSES OF THE NUCLEUS OF THE BASAL OPTIC ROOT (NBOR) AND VISUALLY ELICITED HEAD NYSTAGMUS DURING HORIZONTAL OPTOKINETIC STIMULATION IN THE ZEBRA FINCH (*TAENIOPYGIA GUTTATA CASTANOTIS*)  
*M. Gröschel, J. Voß and HJ. Bischof, Berlin and Bielefeld*
- T17-4A** HOW TO READ A PIGEON'S MIND: PECKING DENSITY AS AN INDICATOR FOR RELEVANCE OF VISUAL FEATURES  
*L. Ditttrich, S. Kesch, JUF. Buschmann, J.Rose, M. Bourdonnais and O.Güntürkün, Bochum and Paris (FR)*
- T17-5A** WHAT ERPS TELL US ABOUT THE PERCEPTION OF A FIGURE DEFINED BY MULTIPLE VISUAL CUES  
*S. Straube and M. Fahle, Bremen*
- T17-6A** PRISM ADAPTATION IN A PATIENT WITH DAMAGE TO THE RIGHT PARIETAL CORTEX – A CASE STUDY  
*S. Wischhusen, C. Schütze and M. Fahle, Bremen*
- T17-7A** THE EFFECT OF ADAPTATION DURATION ON FACIAL AFTEREFFECTS  
*I. Harza, M. Zimmer, Z. Vidnyánszky and G. Kovács, Budapest (HU)*
- T17-8A** STIMULUS-DEPENDENT GAMMA OSCILLATIONS IN MONKEY V1 AND ITS MODULATION BY EXPECTANCY  
*B. Lima, NH. Chen, W. Singer and S. Neuenschwander, Frankfurt/M.*
- T17-9A** SENSORY RESPONSES IN DIFFERENT LAYERS OF THE NEOCORTEX *IN VIVO*  
*C. Boucsein, D. Suchanek and A. Aertsen, Freiburg*

## Friday

- T17-1B** VISUAL EVOKED POTENTIALS (VEP) STIMULATED BY CONTRAST AND FLASH MODULATION FROM AWAKE, FREELY MOVING RATS  
*T. Jehle, D. Ehlken, K. Wingert, M. Bach and WA. Lagrèze, Freiburg*
- T17-2B** NEURAL CORRELATES OF SPEED ILLUSIONS IN AREA MT OF THE MACAQUE MONKEY  
*P. Boyraz and S. Treue, Göttingen*
- T17-3B** CATEGORIZATION OF VISUAL SCENES BASED ON LOW-LEVEL IMAGE STATISTICS  
*D. Kaping, T. Tzvetanov and S. Treue, Göttingen*
- T17-4B** MODULATION OF FEEDFORWARD RESPONSE PRIMING BY ENDOGENOUS AND EXOGENOUS ATTENTION  
*T. Schmidt and A. Seydell, Gießen*
- T17-5B** FRACTAL-LIKE IMAGE STATISTICS IN VISUAL ART: SIMILARITY TO NATURAL SCENES  
*C. Redies, J. Hasenstein and J. Denzler, Jena*



- T17-6B** SPOTLIGHT ON GLIAL CELLS: LIVING OPTICAL FIBERS IN THE VERTEBRATE RETINA  
*K. Franze, J. Grosche, SN. Skatchkov, S. Schinkinger, C. Foja, D. Schild, O. Uckermann, K. Travis, A. Reichenbach and J. Guck, Leipzig, Bayamon (USA), Göttingen and Austin (USA)*
- T17-7B** POSTERIOR PARIETAL LOBE CONTROL OF SPATIAL CONSTANCY ACCROSS SACCADES  
*A. Sprenger, A. Hinz, C. Gaebel, H. Deubel and W. Heide, Lübeck, München and Celle*
- T17-8B** EXPERIMENTS ON SIZE DISCRIMINATION IN GOLDFISH (*CARASSIUS AURATUS*)  
*K. Wyzisk and C. Neumeyer, Mainz*
- T17-9B** SELF-MOTION PERCEPTION IN THE ELDERLY: AN EXPERIMENTAL AND THEORETICAL STUDY  
*M. Lich and F. Bremmer, Marburg*

## Saturday

- T17-1C** HOW DO WE ALLOCATE ATTENTION IN DIFFERENT CATEGORIES OF IMAGES?  
*HP. Frey, C. Honey and P. König, Osnabrück*
- T17-2C** INITIAL SACCADIC LATENCIES DURING TRACKING OF REAL OR ILLUSORY CONTOURS  
*U. Biber and UJ. Ilg, Tübingen*
- T17-3C** PROPERTIES OF THE PURSUIT-RELATED ACTIVITY RECORDED FROM PRIMATE FRONTAL EYE FIELD  
*S. Freyberg and UJ. Ilg, Tübingen*
- T17-4C** THE ROLE OF COLOUR IN VISUALLY GUIDED ACTIONS  
*I. Ivanov and A. Werner, Tübingen*
- T17-5C** USING SE-EPI TO MEASURE VISUAL RESPONSES IN THE AWAKE MACAQUE AT 7TESLA  
*S. Ku, J. Goense, A. Tolias and N. Logothetis, Tübingen*
- T17-6C** THE ROLE OF COLOR IN NATURAL IMAGES TO RECOGNITION PERFORMANCE AND NEURAL ACTIVITY IN EXTRASTRIATE AND PREFRONTAL CORTEX  
*S. Liebe, N. Logothetis and G. Rainer, Tübingen*
- T17-7C** NEURAL ENCODING OF SPECIES DEPENDENT FACE-CATEGORIES IN THE MACAQUE TEMPORAL CORTEX  
*GR. Sigala Alanis, K. Nielsen, N. Logothetis and G. Rainer, Tübingen*
- T17-8C** OKR ASSAY AND FUNDOSCOPY: NEW TOOLS FOR ADULT ZEBRAFISH VISION RESEARCH  
*M. Tschopp, O. Biehlmaier and S. Neuhaus, Zürich (CH)*



## Thursday

### T18: Auditory system I: Invertebrates

- T18-1A** PROTEIN EXPRESSION OF VOLTAGE GATED POTASSIUM CHANNELS KV1.1 AND KV3.1 IN THE DEVELOPMENT OF AUDITORY BRAIN STEM NEURONS *IN VIVO* AND *IN VITRO*  
*Y. Sun, T. Kuenzel, H. Luksch, H. Wagner and J. Mey, Aachen*
- T18-2A** TIME-WARP INVARIANT PROCESSING: HOW DO GRASSHOPPERS SOLVE THIS TASK?  
*F. Creutzig, S. Wohlgemuth, J. Benda, A. Stumpner, B. Ronacher and AVM. Herz, Berlin and Göttingen*
- T18-3A** SPIKE FREQUENCY ADAPTATION IN AN INSECT AUDITORY PATHWAY  
*KJ. Hildebrandt, J. Benda and RM. Hennig, Berlin*
- T18-4A** PARALLEL PROCESSING OF BINAURAL INPUTS: NEURONAL CORRELATES FOR SUMMATION AND CONTRAST ENHANCEMENT IN THE AUDITORY PATHWAY OF A GRASSHOPPER  
*O. Kutzki, M. Hennig and B. Ronacher, Berlin*
- T18-5A** THE INFLUENCE OF DIFFERENT NOISE BANDS ON SIGNAL RECOGNITION IN THE GRASSHOPPER *CHORTHIPPUS BIGUTTULUS*  
*D. Neuhofer, M. Stemmler and B. Ronacher, Berlin*
- T18-6A** ACOUSTIC SIGNAL PROCESSING IN GRASSHOPPERS - FREQUENCY OR TIME DOMAIN?  
*A. Schmidt and RM. Hennig, Berlin*
- T18-7A** INTENSITY DEPENDENCE OF MODULATION TRANSFER FUNCTIONS IN AUDITORY NEURONS OF THE LOCUST  
*G. Weschke and B. Ronacher, Berlin*

## Friday

- T18-1B** COMPARING THE NEURONAL ENCODING IN TWO NOT CLOSELY RELATED GRASSHOPPER SPECIES: WHAT DIFFERS IS DIFFERENT?  
*S. Wohlgemuth, D. Neuhofer and B. Ronacher, Berlin*
- T18-2B** HOW DO ONSET CUES AFFECT SONG PATTERN RECOGNITION IN GRASSHOPPERS IN A NOISY ENVIRONMENT?  
*S. Wossal, M. Stemmler and B. Ronacher, Berlin*
- T18-3B** NEURITE SPECIFIC  $Ca^{2+}$  DYNAMICS UNDERLYING SOUND PROCESSING IN AN AUDITORY INTERNEURONE  
*T. Baden and B. Hedwig, Cambridge (UK)*
- T18-4B** TOWARDS A BETTER UNDERSTANDING OF THE COMPLEX AUDITORY BEHAVIOUR IN CRICKETS: COMBINING A SENSITIVE TRACKBALL SYSTEM WITH SINGLE CELL RECORDINGS FROM BRAIN NEURONES  
*M. Zorovic and B. Hedwig, Cambridge (UK)*
- T18-5B** STRUCTURE AND FUNCTION OF *DROSOPHILA* AUDITORY NEURONS  
*A. Kamikouchi, K. Ito, A. Fiala and M. Göpfert, Cologne, Tokyo (JP) and Würzburg*



- T18-6B** TYMPANAL SENSILLA GENERATE DPOAES IN THE LOCUST EAR  
*D. Möckel, M. Kössl and EA. Seyfarth, Frankfurt/M.*

### Saturday

- T18-1C** DIRECTIONAL PROCESSING OF CRICKETS DIFFERS FROM THAT IN BUSH CRICKETS  
*M. Brill and A. Stumpner, Göttingen*
- T18-2C** ADAPTATION OF AUDITORY NEURONS IN A BUSHCRICKET  
*T. Ostrowski and A. Stumpner, Göttingen*
- T18-3C** LOCALIZATION OF A SOUND SOURCE BY THE PARASITOID FLY *EMBLEMASOMA AUDITRIX*  
*T. de Vries and R. Lakes-Harlan, Gießen*
- T18-4C** ARE DEVELOPMENTAL CONSTRAINTS IMPORTANT FOR THE FORMATION OF AN INSECT AUDITORY SYSTEM?  
*R. Lakes-Harlan and J. Strauß, Gießen*
- T18-5C** SIGNAL TRANSMISSION AND DETECTION FOR A PUBLIC AND PRIVATE MODE OF COMMUNICATION IN A NEOTROPICAL KATYDID  
*M. Hartbauer, A. Lang and H. Römer, Graz (AT)*
- T18-6C** SENSORY BIAS IN THE PERIPHERAL AUDITORY SYSTEM OF FIELD CRICKETS: DIRECTIONAL HEARING AND PREFERENCE FOR CERTAIN CARRIER FREQUENCIES  
*K. Kostarakos and H. Römer, Graz (AT)*

## T19: Auditory system II: Vertebrates

### Thursday

- T19-1A** BINAURAL MASKING-LEVEL DIFFERENCE IN THE BARN OWL: ELECTROPHYSIOLOGICAL CORRELATES  
*A. Asadollahi and H. Wagner, Aachen*
- T19-2A** LOCALIZATION BEHAVIOR OF FREE-FLYING BARN OWLS (*TYTO ALBA*): EFFECTS OF FREQUENCY AND LEVEL ON LATENCY  
*L. Hausmann, M. Singheiser, DTT. Plachta and H. Wagner, Aachen*
- T19-3A** ELECTROPHYSIOLOGY OF IDENTIFIED CHICKEN AUDITORY BRAINSTEM NEURONS IN PRIMARY CULTURE  
*T. Künzel, M.J. Wirth, H. Wagner and H. Luksch, Aachen*
- T19-4A** LOCALIZATION BEHAVIOR OF FREE-FLYING BARN OWLS (*TYTO ALBA*): EFFECTS OF FREQUENCY AND LEVEL ON STRIKING ACCURACY  
*M. Singheiser, DTT. Plachta and H. Wagner, Aachen*
- T19-5A** BINAURAL MASKING-LEVEL DIFFERENCE IN THE BARN OWL: BEHAVIOR  
*H. Wagner and F. Endler, Aachen*
- T19-6A** EXPRESSION OF CHLORIDE-TRANSPORTERS IN THE AVIAN AUDITORY BRAINSTEM  
*M.J. Wirth, H. Luksch and H. Wagner, Aachen*

- T19-7A** WATER WAVE ANALYSIS WITH THE LATERAL LINE SYSTEM IN THE CLAWED FROG, *XENOPUS*: MULTIPLE SIMULTANEOUS WAVES, CHANGE OF WAVE SPEED  
*A. Elepfandt, T. Behrends, F. Cosar, R. Hillig, K. Stamm and D. Appellants, Berlin*
- T19-8A** MODELING THE ACTIVITY OF THE AUDITORY NERVE AFTER SENSORINEURAL HEARING LOSS  
*PT. Kuokkanen, R. Schaette and R. Kempter, Berlin*
- T19-9A** DIFFERENCES IN EFFECT PROFILES OF TWO BROMINATED ENVIRONMENTAL COMPOUNDS ON THE AUDITORY BRAINSTEM RESPONSE IN RATS AND RELATION TO THYROID HORMONES - BENCHMARK ANALYSIS OF EFFECTS  
*H. Lilienthal, L. van der Ven, A. Piersma and J. Vos, Bochum and Bilthoven (NL)*
- T19-10A** OSCILLATING NEURONS IN THE COCHLEAR NUCLEUS: EXPERIMENTAL EVIDENCES FOR A NEW SIMULATION TOPOLOGY, SIMULATION RESULTS, AND CONSEQUENCES FOR PITCH PERCEPTION  
*A. Bahmer and G. Langner, Darmstadt*
- T19-11A** EFFECT OF AMPLITUDE AND MODULATION DEPTH ON PERIODICITY CODING IN THE AUDITORY MIDBRAIN  
*P. Baumhoff, C. Zschau and G. Langner, Darmstadt*
- T19-12A** SHORT TERM LIGHT DEPRIVATION INCREASES ACCURACY OF SOUND LOCALIZATION IN HUMANS  
*J. Lewald, Dortmund*
- T19-13A** NEURONAL ADAPTATION IN THE AWAKE RAT AUDITORY CORTEX  
*W. von der Behrens, M. Kössl and B. Gaese, Frankfurt/M.*
- T19-14A** CONVERTING AN ION TRANSPORTER INTO A MOLECULAR MOTOR FOR SENSORY AMPLIFICATION  
*T.J. Schaechinger and D. Oliver, Freiburg*
- T19-15A** MULTIPLE PATHWAYS FOR NOVELTY DETECTION IN THE AUDITORY SYSTEM OF THE BARN OWL  
*A. Reches and Y. Gutfreund, Haifa (IL)*

## Friday

- T19-1B** BINAURAL INTERACTIONS IN CORTICAL FIELD A1 OF CONGENITALLY DEAF CATS  
*A. Kral, J. Tillein, S. Heid and R. Hartmann, Hamburg and Frankfurt/M.*
- T19-2B** IDENTIFYING EFFECTIVE STIMULATION PARAMETERS FOR AN AUDITORY MIDBRAIN IMPLANT  
*HH. Lim, M. Lenarz, A. Neuheiser, U. Reich, G. Reuter and T. Lenarz, Hannover*
- T19-3B** ELECTRICAL STIMULATION ABOVE THE HEARING THRESHOLD ENHANCES THE EFFECT OF NEUROTROPHIC FACTOR TREATMENT IN DEAFENED GUINEA PIGS  
*G. Paasche, V. Scheper, J. Miller, T. Lenarz and T. Stöver, Hannover and Ann Arbor (USA)*



- T19-4B** HIGH RESOLUTION REPRESENTATION OF LEFT AND RIGHT HEMISPHERE IN AUDITORY CORTEX: A COMPREHENSIVE ELECTROPHYSIOLOGICAL AND BEHAVIORAL STUDY  
*M. Shachar and LY. Deouell, Herzliya (IL) and Jerusalem (IL)*
- T19-5B** CI STIMULUS ARTIFACTS IN CAEP RECORDINGS FROM COCHLEAR IMPLANT PATIENTS  
*P. Igelmund, H. Meister, A. Brockhaus-Dumke, D. Fürstenberg, H. von Wedel and M. Walger, Köln*
- T19-6B** COMPARISON OF PROTEIN PROFILES IN THE RAT INFERIOR COLLICULUS AND CEREBELLUM BY TWO-DIMENSIONAL GEL ELECTROPHORESIS AND MASS SPECTROMETRY  
*M. Becker, C. Moritz and E. Friauf, Kaiserslautern*
- T19-7B** IMPAIRED STRUCTURAL DEVELOPMENT OF THE SUPERIOR OLIVARY COMPLEX OF MICE LACKING THE CAV1.3 SUBUNIT OF L-TYPE CALCIUM CHANNELS  
*NB. Braun, J. Striessnig and E. Friauf, Kaiserslautern and Innsbruck (AT)*
- T19-8B** OPTICAL IMAGING WITH VOLTAGE-SENSITIVE DYES REVEALS DELAY LINES IN THE CHICK NUCLEUS LAMINARIS  
*M. Illy, H. Wagner, E. Friauf, H. Luksch and S. Lührke, Kaiserslautern and Aachen*
- T19-9B** CAV1.3-/- MICE SHOW A DISTURBED DEVELOPMENT IN THE LATERAL SUPERIOR OLIVE OF THE AUDITORY BRAINSTEM  
*B. Müller, E. Friauf and S. Lührke, Kaiserslautern*
- T19-10B** MATURATION OF INHIBITORY SYNAPTIC TRANSMISSION IN THE AUDITORY BRAINSTEM DEPENDS ON THYROID HORMONE  
*M. Wenz, V. Balakrishnan, P. Blaesse, M. Knipper, S. Lührke, HG. Nothwang and E. Friauf, Kaiserslautern and Tübingen*
- T19-11B** PERCEPTION OF ENVIRONMENTAL SOUNDS - THEORETICAL CONSIDERATIONS  
*D. Mietzen, Leipzig*
- T19-12B** IS THE PRIMARY AUDITORY CORTEX UNIMODAL? ANATOMICAL CONNECTIONS OF FIELD AI WITH OTHER SENSORY SYSTEMS  
*E. Budinger, P. Heil and H. Scheich, Magdeburg*
- T19-13B** STATES IN THE ONGOING CORTICAL ACTIVITY CARRYING INFORMATION IN DISCRIMINATION LEARNING OF DIFFERENTIAL ELECTRICAL STIMULATION APPLIED THROUGH A SENSORY CORTEX INTERFACE  
*M. Deliano, H. Scheich and FW. Ohl, Magdeburg*
- T19-14B** BACKWARD MASKING EFFECTS PRODUCED BY INTRACORTICAL MICROSTIMULATION IN THE AUDITORY CORTEX  
*A. Engelhorn, B. Dann, M. Deliano and FW. Ohl, Magdeburg*

## Saturday

- T19-1C** STRUCTURAL LEFT-RIGHT ASYMMETRIES IN RODENT AUDITORY CORTEX  
*A. Laszcz, J. Goldschmidt, FW. Ohl, H. Scheich, M. Schildt, H. Schulze, W. Wetzel, W. Zuschratter and E. Budinger, Magdeburg*
- T19-2C** AUDITORY-NERVE FIRST-SPIKE LATENCY: A PHYSIOLOGICALLY MOTIVATED MODEL  
*H. Neubauer and P. Heil, Magdeburg*
- T19-3C** DIFFERENTIAL EFFECTS OF IONTOPHORETIC APPLICATION OF THE GABA<sub>A</sub>-ANTAGONISTS BICUCULLINE AND GABAZINE ON TONE-EVOKED LOCAL FIELD POTENTIALS IN PRIMARY AUDITORY CORTEX  
*H. Schulze, C. Möller and S. Kurt, Magdeburg and Ulm*
- T19-4C** TWO TYPES OF NEURONAL FIRING IN THE AUDITORY CORTEX OF MONKEYS DURING THE CATEGORICAL TASK PERFORMANCE  
*E. Selezneva, H. Scheich and M. Brosch, Magdeburg*
- T19-5C** ACTIVITY-DEPENDENT CHANGES OF THE INHIBITORY MSO INPUT AFTER HEARING ONSET  
*B. Hassfurth, F. Werthat, O. Alexandrova, A. Magnusson, B. Grothe and U. Koch, Martinsried*
- T19-6C** ITD DISCRIMINATION ABILITY OF THE MONGOLIAN GERBIL (*MERIONES UNGUICULATUS*) IN A SIX ALTERNATIVE CHOICE SETUP  
*T. Kindermann, L. Wiegrebe and B. Grothe, Martinsried*
- T19-7C** AUDITORY SIZE NORMALIZATION IN THE AUDITORY PATHWAY OF THE MONGOLIAN GERBIL (*MERIONES UNGUICULATUS*)  
*G. Schebesch, U. Firzlaff, L. Wiegrebe and B. Grothe, Martinsried*
- T19-8C** COMODULATION MASKING RELEASE DETERMINED IN THE MOUSE (*MUS MUSCULUS*) USING A FLANKING-BAND PARADIGM  
*KB. Klink, VN. Weik and GM. Klump, Oldenburg*
- T19-9C** LOCALISATION DOMINANCE IN THE MONGOLIAN GERBIL, *MERIONES UNGUICULATUS* AND THE EFFECT OF STIMULUS FREQUENCY  
*M. Wolf, M. Schuchmann and L. Wiegrebe, Martinsried*
- T19-10C** MECHANISMS FOR ECHO ROUGHNESS ENCODING IN THE INFERIOR COLLICULUS OF THE SPEARNOSED BAT *PHYLLOSTOMUS DISCOLOR*  
*F. Borina, G. Schuller, U. Firzlaff and L. Wiegrebe, Martinsried*
- T19-11C** SONAR HYPERACUITY REVISITED: ECHO-ACOUSTIC EVALUATION OF A JITTERING SURFACE IN THE BAT *GLOSSOPHAGA SORICINA*  
*HR. Goerlitz and L. Wiegrebe, Planegg-Martinsried*
- T19-12C** PROCESSING OF COMPLEX ACTIVITY PATTERNS AT THE CALYX OF HELD SYNAPSE: A COMPUTATIONAL ANALYSIS  
*J. Hermann, B. Grothe and A. Klug, Planegg-Martinsried*



- T19-13C** REVERSIBLE PLASTICITY OF BINAURAL NEURONS IN THE MAMMALIAN AUDITORY BRAINSTEM  
*E. Schiller, I. Siveke and B. Grothe, Martinsried*
- T19-14C** CROSS-MODAL INTEGRATION OF SENSORY INFORMATION IN AUDITORY CORTEX  
*C. Kayser, C. Petkov, M. Augath and N. Logothetis, Tübingen*

## T20: Chemosensory Systems

### Thursday

- T20-1A** OLFACTORY CODING IN THE HONEYBEE BRAIN I. BINARY POPULATION CODE IN PROJECTION NEURONS  
*MP Nawrot, S. Krofczik, S. Stiller and R. Menzel, Berlin*
- T20-2A** OLFACTORY CODING IN THE HONEYBEE BRAIN: II. SPATIO-TEMPORAL PATTERNS OF ODOR RESPONSES IN PROJECTION NEURON BOUTONS IN THE MUSHROOM BODIES OF THE HONEYBEE  
*N. Yamagata, P. Szyszka, M. Mizunami and R. Menzel, Berlin, Konstanz and Sendai (JP)*
- T20-3A** OLFACTORY CODING IN THE HONEYBEE BRAIN III. SPARSENESS, RELIABILITY AND REWARD CONDITIONING IN ALPHA-LOBE EXTRINSIC NEURONS  
*M. Strube, S. Stiller, MP Nawrot and R. Menzel, Berlin*
- T20-4A** OLFACTORY CODING IN THE HONEYBEE BRAIN: IV. CALCIUM IMAGING OF MUSHROOM BODY EXTRINSIC NEURONS  
*M. Haehnel, P. Szyszka and R. Menzel, Berlin and Konstanz*
- T20-5A** ACTIVITY-DEPENDENT EXPRESSION PROFILING IN THE MOUSE VOMERONASAL ORGAN  
*S. Hagendorf, CH. Engelhardt, L. Klein-Hitpass and M. Spehr, Bochum and Essen*
- T20-6A** IS THE FUNCTIONAL OLFACTORY LATERALISATION IN HOMING PIGEONS BASED ON ANATOMICAL ASYMMETRIES?  
*N. Patzke, O. Güntürkün and M. Manns, Bochum*
- T20-7A** ADENOVIRAL MEDIATED PI SIGNALING MARKERS UNRAVEL PIP<sub>2</sub> SIGNAL TRANSDUCTION PATHWAYS IN TRIGEMINAL NEURONS  
*CH. Wetzel, K. Klasen and H. Hatt, Bochum*
- T20-8A** COMPREHENSIVE MAPS OF *DROSOPHILA* HIGHER OLFACTORY CENTRES: SPATIAL SEGREGATION OF FRUIT AND PHEROMONE REPRESENTATION  
*GSXE. Jefferis, CJ. Potter, AM. Chan, EC. Marin, T. Rohlifing, CR. Maurer and L. Luo, Cambridge (UK), Stanford (USA) and Menlo Park (USA)*
- T20-9A** IMPROVED IMAGING OF OLFACTORY BULB NEUROPIIL BY BLOCKING MULTIDRUG RESISTANCE TRANSPORTERS  
*I. Manzini, S. Schweer and D. Schild, Göttingen*

- T20-10A** STRENGTH AND SIMILARITY OF INTRINSIC ACTIVATION PATTERNS DEFINE OLFACTORY DISCRIMINATION TIME IN MICE  
*N.M. Abraham, D. Turaev, T. Kuner and H. Spors, Heidelberg*

### Friday

- T20-1B** TESTING A MODEL OF THE OLFACTORY BULB FUNCTION WITH DYNAMIC INPUT PATTERNS  
*T. Künsting and H. Spors, Heidelberg*
- T20-2B** FLUORIMETRIC MEASUREMENT OF CALCIUM SIGNALS IN INTACT PALAEMONID SHRIMPS FOLLOWING CHEMICAL STIMULATION WITH AMINO ACIDS AND BROMOPHENOL  
*U. Bickmeyer, K. Walther, KW. Klings and K. Anger, Helgoland*
- T20-3B** ODOUR STIMULATION OF THE *DROSOPHILA* OLFACTORY RECEPTORS OR22A/OR83B HETEROLOGOUSLY EXPRESSED IN HEK293 CELLS PRODUCES AN ION CONDUCTANCE IN CONCENTRATION-DEPENDENT MANNER WHICH DOES NOT INVOLVE G<sub>o</sub> PROTEIN ACTIVATION  
*D. Wicher and B. Hansson, Jena*
- T20-4B** PHYSIOLOGICAL PROPERTIES OF KENYON CELLS RECORDED IN AN INTACT BRAIN PREPARATION  
*H. Demmer, D. Fusca and P. Kloppenburg, Köln*
- T20-5B** PHARMACOLOGICAL CHARACTERIZATION OF VOLTAGE-GATED CALCIUM CURRENTS IN OLFACTORY INTERNEURONS OF *PERIPLANETA AMERICANA*  
*S. Hess, A. Husch and P. Kloppenburg, Köln*
- T20-6B** ELECTROPHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERIZATION OF SPIKING AND NONSPIKING LOCAL INTERNEURONS IN THE ANTENNAL LOBE OF *PERIPLANETA AMERICANA*  
*A. Husch, M. Paehler and P. Kloppenburg, Köln*
- T20-7B** QUANTITATIVE ANALYSIS OF INSECT OLFACTORY INTERNEURON RESPONSES TO ODORS IN THE FIRST OLFACTORY RELAY, THE ANTENNAL LOBE  
*N. Lindemann, A. Chaffiol, P. Kloppenburg and C. Pouzat, Köln and Paris (FR)*
- T20-8B** CALCIUM DYNAMICS IN OLFACTORY INTERNEURONS  
*A. Pippow, A. Husch, C. Pouzat and P. Kloppenburg, Köln and Paris (FR)*
- T20-9B** PHEROMONES OF THE CRICKET *GRYLLUS BIMACULATUS*: DO MALE LARVAE HAVE THE FEMALE PHEROMONE?  
*S. Schapp and K. Schildberger, Leipzig*
- T20-10B** DAYTIME-DEPENDENT MODULATION OF THE PHEROMONE TRANSDUCTION IN OLFACTORY SENSILLA OF THE HAWKMOOTH *MANDUCA SEXTA*  
*C. Flecke and M. Stengl, Marburg*



## Saturday

- T20-1C** ACTIVATION OF THE WNT- $\beta$ CATENIN PATHWAY IN A CELL POPULATION ON THE SURFACE OF THE FOREBRAIN IS ESSENTIAL FOR THE ESTABLISHMENT OF OLFACTORY AXON CONNECTIONS  
*AA. Zaghetto, S. Paina, S. Mantero, P. Peretto, S. Bovetti, A. Puche, S. Piccolo and G. Merlo, Segrate (IT), Torino (IT), Baltimore (USA) and Padova (IT)*
- T20-2C** THE GRUENEGBERG GANGLION – A NOVEL CHEMOSENSORY ORGAN IN THE NOSE  
*J. Fleischer, K. Schwarzenbacher, N. Hass, S. Besser and H. Breer, Stuttgart*
- T20-3C** CO-LOCALISATION OF A PHEROMONE RECEPTOR AND PBPS IN PHEROMONE-SENSITIVE HAIRS OF *H. VIRESCENS*  
*T. Gohl, E. Grosse-Wilde, E. Bouché, H. Breer and J. Krieger, Stuttgart*
- T20-4C** A DISTINCT BINDING PROTEIN AND RECEPTOR TYPE OF *H. VIRESCENS* MEDIATE THE REACTION TO THE MAJOR SEX-PHEROMONE COMPONENT  
*E. Grosse-Wilde, T. Gohl, E. Bouché, H. Breer and J. Krieger, Stuttgart*
- T20-5C** GUT HORMONE RECEPTORS IN CHEMOSENSORY SYSTEMS – A CHEMOSENSORY SYSTEM IN THE GUT?  
*N. Hass, R. Hoppe, K. Schwarzenbacher, T. Kaiser, S. Horenburg and H. Breer, Stuttgart*
- T20-6C** CANDIDATE PHEROMONE BINDING PROTEINS OF THE SILKMOTH *BOMBYX MORI*  
*J. Krieger, M. Forstner, T. Gohl and H. Breer, Stuttgart*
- T20-7C** DIFFERENTIAL REACTION OF OLFACTORY AXONS TO TARGET TISSUE: *IN VITRO* CULTURES  
*G. Luxenhofer, H. Breer and J. Strotmann, Stuttgart*
- T20-8C** CELLS IN THE VOMERONASAL ORGAN EXPRESS ODORANT RECEPTORS BUT PROJECT TO THE ACCESSORY OLFACTORY BULB  
*J. Strotmann, T. Feistel, O. Levai and H. Breer, Stuttgart*
- T20-9C** OLFACTORY MIXTURE REPRESENTATION AT THE LEVEL OF PROJECTION NEURONS IN THE HONEYBEE ANTENNAL LOBE  
*N. Deisig, M. Giurfa and JC. Sandoz, Toulouse (FR)*

## T21: Sensory systems: Other

### Thursday

- T21-1A** MAGNETIC FIELD PERCEPTION IN TELEOST FISH  
*J. Hellinger and KP. Hoffmann, Bochum*
- T21-2A** KÁRMÁN VORTEX STREET DETECTION BY THE LATERAL LINE  
*H. Bleckmann, B. Chagnaud and MH. Hofmann, Bonn*



- T21-3A** DISTRIBUTION OF CONNEXINE IN A SENSORY SYSTEM THAT RELIES ON TEMPORAL CODING – THE ACTIVE ELECTROSENSORY SYSTEM  
*T. Bracht, G. von der Emde, S. Maxeiner and J. Ebgelmann, Bonn*
- T21-4A** RESPONSES OF LATERAL LINE BRAINSTEM NEURONS TO DIPOLE STIMULI OF DIFFERENT FREQUENCIES IN GOLDFISH, *CARRASIUS AURATUS*  
*S. Fest, H. Bleckmann and J. Mogdans, Bonn*
- T21-5A** DIFFERENTIAL CHARACTERISTIC CURVES OF INFRARED PROCESSING SINGLE UNITS IN THE TECTUM OPTICUM OF RATTLESNAKES  
*T. Kohl and G. Westhoff, Bonn*
- T21-6A** NEUROANATOMY AND ELECTROPHYSIOLOGY OF THE INFRARED SENSILLA OF THE AUSTRALIAN PYROPHILOUS „LITTLE ASH BEETLE“ *ACANTHOCNEMUS NIGRICANS*  
*E.J. Kreiss, H. Schmitz and M. Gebhardt, Bonn*
- T21-7A** HOW ELECTROSENSITIVE NEURONS OF THE CELL OF *GNATHONEMUS PETERSII* ENCODE INFORMATION ABOUT SHAPE AND MATERIAL OF NEARBY OBJECTS.  
*MG. Metzen, J. Engelmann and G. von der Emde, Bonn*
- T21-8A** ACTIVE ELECTROLOCATION OF OBJECTS: PRE-RECEPTOR MECHANISMS, SPATIAL RESOLUTION AND ELECTRIC IMAGES OF OBJECTS IN THE WEAKLY ELECTRIC FISH, *GNATHONEMUS PETERSII*  
*R. Pusch and G. von der Emde, Bonn*
- T21-9A** RESPONSES OF TROUT ANTERIOR LATERAL LINE NERVE FIBRES TO SINE WAVE STIMULI IN STILL AND RUNNING WATER  
*B. Scholze, Bonn*
- T21-10A** SPATIO-TEMPORAL STRUCTURE OF SPONTANEOUS STATE TRANSITIONS IN THE NEOCORTEX  
*D. Suchanek, Y. Seamari, M. Nawrot, A. Aertsen and C. Boucsein, Freiburg, Malaga (ES) and Berlin*
- T21-11A** TRANSCRANIAL THETA-BURST STIMULATION DIMINISHES EXPERIMENTALLY INDUCED PAIN PERCEPTION IN HUMAN SUBJECTS  
*A. Antal, C. Poreisz, N. Brepohl, K. Boros and W. Paulus, Göttingen*
- T21-12A** THE TASTE OF WIND - WIND SENSITIVE HAIRS ON THE PALPS OF PHASMATODEA (INSECTA)  
*R. Klug and R. Hustert, Göttingen*

## Friday

- T21-1B** TRANSCRANIAL DIRECT CURRENT STIMULATION OVER SOMATOSENSORY CORTEX DECREASES EXPERIMENTALLY INDUCED PAIN PERCEPTION  
*C. Poreisz, A. Antal, N. Brepohl, K. Boros, G. Csifcsak and W. Paulus, Göttingen and Szeged (HU)*
- T21-2B** DOPAMINERGIC MODULATION OF CATHODAL DIRECT CURRENT STIMULATION DECREASES EXPERIMENTALLY INDUCED ACUTE PAIN PERCEPTION  
*D. Terney, I. Bergmann, C. Poreisz, K. Boros, MA. Nitsche, W. Paulus and A. Antal, Göttingen*



- T21-3B** DYNAMICS OF CONTEXT-SPECIFIC SENSORIMOTOR TRANSFORMATIONS IN THE PARIETAL REACH REGION OF MONKEYS  
*A. Gail and RA. Andersen, Göttingen and Pasadena (USA)*
- T21-4B** BROAD-BAND FREQUENCY CODING IN RESPONSES TO FREQUENCY-MODULATED (30-210 HZ) WHISKER VIBRATIONS IN THE BARREL CORTEX OF THE RAT  
*TAS. Ewert, C. Vahle-Hinz and AK. Engel, Hamburg*
- T21-5B** OSCILLATORY GAMMA BAND ACTIVITY MAY MEDIATE INTEGRATION OF VIBRATORY SIGNALS FROM NEIGHBORING WHISKERS IN THE BARREL CORTEX OF THE RAT  
*C. Vahle-Hinz, TAS. Ewert, M. Siemers and AK. Engel, Hamburg*
- T21-6B** ACETYLCHOLINE EFFECTS IN LAYER 4 OF PRIMARY SENSORY CORTICES  
*E. Eggermann and D. Feldmeyer, Jülich*
- T21-7B** CONTROL OF ISOMETRIC FORCES IN HUMANS DURING DIFFERENT GRAVITY-LEVELS  
*M. Girgenrath, A. Mierau and O. Bock, Köln*
- T21-8B** SINGLE AND DUAL WHOLE-CELL RECORDINGS FROM THE BARREL CORTEX OF AWAKE MICE DURING QUANTIFIED WHISKER BEHAVIOUR.  
*J. Poulet and C. Petersen, Lausanne (CH)*
- T21-9B** A POTENTIAL DECISION-MAKING CIRCUIT: SYNAPTIC TRANSMISSION BETWEEN ANTENNAL PROPRIOCEPTORS AND GIANT DESCENDING BRAIN NEURONES IN CRICKETS AND ITS DIFFERENTIAL MODULATION BY OCTOPAMINE  
*S. Schöneich, PA. Stevenson and K. Schildberger, Leipzig*
- T21-10B** INTERNEURONS PARTICIPATING IN THE PROCESSING OF DIRECTIONALITY INFORMATION OF VIBRATIONAL SIGNALS IN THE SOUTHERN GREEN STINKBUG *NEZARA VIRIDULA* (L.) (*HETEROPTERA: PENTATOM-DAE*)  
*J. Prešern, M. Virant-Doberlet and A. Ćokl, Ljubljana (SI)*
- T21-11B** ANATOMICAL AND FUNCTIONAL ORGANISATION OF THE VIBRATORY SYSTEM IN *TROGLOPHILUS NEGLECTUS* (*ORTHOPTERA, RHAPHIDOPHORIDAE*)  
*N. Stritih, Ljubljana (SI)*
- T21-12B** ZEBRA FINCHES CAN BE TRAINED TO USE THE EARTH MAGNETIC FIELD FOR ORIENTATION  
*J. Voss, N. Keary and HJ. Bischof, Bielefeld*

## Saturday

- T21-1C** DO MIGRATORY BIRDS "SEE" THE MAGNETIC FIELD? A VISUAL PATHWAY AS NEURONAL SUBSTRATE FOR MAGNETORECEPTION VISUALISED BY NEURONAL TRACING  
*D. Heyers, M. Manns, H. Luksch, O. Gunturkun and H. Mouritsen, Oldenburg, Bochum and Aachen*

- T21-2C** LATERALISED ACTIVATION OF CLUSTER N: A PUTATIVE MAGNETIC PROCESSING STATION IN THE BRAINS OF MIGRATORY SONGBIRDS  
*H. Mouritsen, M. Liedvogel, G. Feenders, K. Wada, NF. Troje and ED. Jarvis, Oldenburg, Duke University (USA) and Queen's University (CA)*
- T21-3C** VIRTUAL ECHOACOUSTIC SPACE FOR ECHOLOCATING BATS  
*DEI. Genzel and L. Wiegrebe, Martinsried*
- T21-4C** MULTIPLE MULTI-SENSORY NETWORKS INVOLVE THE CLAUSTRUM  
*R. Remedios, NK. Logothetis and C. Kayser, Tübingen*
- T21-5C** SEROTONIN ACTION ON THE LOCUST FEMORAL CHORDOTONAL ORGAN  
*K. Dotzauer and H. Wolf, Ulm*
- T21-6C** DISTANCE ESTIMATION IN DESERT ANTS, *CATAGLYPHIS FORTIS*, IS UNEXPECTEDLY RESISTANT TO DISTURBANCE OF WALKING CONDITIONS  
*K. Steck, R. Wehner and H. Wolf, Ulm and Zürich (CH)*
- T21-7C** LEG AMPUTATION DOES NOT AFFECT HOMING DISTANCE IN DESERT ANTS, *CATAGLYPHIS FORTIS*, IRRESPECTIVE OF RESIDUAL SENSORY FEEDBACK FROM MECHANOSENSORY HAIR FIELDS  
*M. Wittlinger, R. Wehner and H. Wolf, Ulm and Zürich (CH)*
- T21-8C** STRUCTURE AND FUNCTION OF A COLD RECEPTOR IN THE LEAF-CUTTING ANT *ATTA VOLLENWEIDER*  
*M. Ruchty, R. Romani, F. Roces and C.J. Kleineidam, Würzburg and Perugia (IT)*
- T21-9C** REPRESENTATION OF ODOR INTENSITY ALONG THE OLFACTORY PATHWAY OF THE *DROSOPHILA* BRAIN  
*T. Völler, T. Riemensperger, B. Roy, J. Hiemeyer, E. Buchner and A. Fiala, Würzburg and Bangalore (IN)*
- T21-10C** CELLS AND NETWORKS INVOLVING LAYER 6 OF THE RAT BARREL CORTEX  
*P. Kumar and O. Ohana, Zürich (CH) and Berlin*
- T21-11C** MULTIMODAL SENSORY INTEGRATION FOR GROUND SPEED CONTROL IN *DROSOPHILA*  
*V. Medici and SN. Fry, Zürich (CH)*

## T22: Motor systems I: Pattern generation

### Thursday

- T22-1A** NEURONAL CONNECTIONS FROM THE VENTRAL NERVE CORD TO THE VISCERAL NERVOUS SYSTEM IN THE LOCUST  
*P. Bräunig, Aachen*
- T22-2A** EFFECTS OF ANTENNAL STIMULATION ON PREMOTOR AND MOTOR NEURONS IN THE PROTHORACIC GANGLION OF THE STICK INSECT, *CARAUSIUS MOROSUS*  
*D. Düsterhus and J. Schmitz, Bielefeld*
- T22-3A** A SIMPLE MECHANISM FOR SWING TRAJECTORY ADAPTATION DURING WALKING  
*S. Freitag, H. Cruse and J. Schmitz, Bielefeld*



- T22-4A** PROGRAMMABLE ARRAY MICROSCOPY: APPLYING A NOVEL CONFOCAL TECHNIQUE TO THE STUDY OF NEURAL INFORMATION PROCESSING  
*O. Faivre, B. Hedwig and M. Thomas, Cambridge (UK) and Faversham (UK)*
- T22-5A** SENSORY FEEDBACK ACTION DEPENDS ON WALKING DIRECTION IN THE STICK INSECT WALKING SYSTEM  
*A. Büschges, T. Akay, BC. Ludwar, M. Goeritz and J. Schmitz, Cologne and Bielefeld*

### Friday

- T22-1B** PHASING OF SUBSETS OF MOTONEURONS IN THE LAMPREY SPINAL CORD IS GATED BY SEGMENTAL ACTIVATION  
*T. Mentel, C. Guschlbauer and A. Büschges, Cologne*
- T22-2B** OSCILLATORY SYNCHRONIZATION IN VOLUNTARY TREMOR AND PARKINSON'S DISEASE RESTING TREMOR  
*B. Pollok, H. Mahkloufi, M. Butz, L. Timmermann, L. Wojtecki, J. Gross and A. Schnitzler, Düsseldorf*
- T22-3B** CONTRIBUTION OF NONSPIKING INTERNEURONS TO THE LOCAL CONTROL OF SINGLE LEG WALKING IN THE STICK INSECT  
*G. von Uckermann and A. Büschges, Köln*
- T22-4B** EVIDENCE FOR A ROLE OF 2<sup>ND</sup> MESSENGERS IN THE CONTROL OF MOTONEURON ACTIVITY IN THE WALKING STICK INSECT  
*S. Westmark and J. Schmidt, Köln*

### Saturday

- T22-1C** WALKING ON THE SLIPPERY SURFACE: KINEMATIC ANALYSIS OF STRAIGHT AND CURVE WALKING IN THE STICK INSECT  
*M. Gruhn, L. Zehl and A. Büschges, Köln*
- T22-2C** AN *IN VITRO* PLATFORM FOR AND FROM ACTUATORS TO ANIMATION TO SENSING AND BACK; USING A CO-CULTURE OF DRG, MUSCLE CELLS, AND MOTOR NEURONS  
*O. Agabi, S. Weigel, S. Hafizovic, T. Lehnert, U. Tobler, R. Stoop and A. Bruinink, St. Gallen (CH), Zürich (CH) and Lausanne (CH)*
- T22-3C** PROPRIOCEPTIVE FEEDBACK ENABLES FREQUENCY REGULATION OF PATTERN GENERATORS  
*J. Aushorn, W. Stein, W. Mader and H. Wolf, Ulm*
- T22-4C** SYNAPTIC INPUTS TO MODULATORY PROJECTION NEURONS  
*UBS. Hedrich, CR. Smarandache and W. Stein, Ulm*

## T23: Motor systems II: ZNS

### Thursday

- T23-1A** ROLE OF CATECHOLAMINERGIC CELL GROUPS IN SPONTANEOUS, 'UNDIRECTED' SINGING IN ZEBRA FINCHES  
*B. Diekamp, KS. Lynch and GF. Ball, Baltimore (USA)*

- T23-2A** STRUCTURAL ORGANIZATION OF LOCUST METATHORACIC DUM NEURONE TYPES IN RELATION TO THE GANGLIONIC ARCHITECTURE  
*N. Kononenko and H.J. Pflüger, Berlin*
- T23-3A** FOCAL TMS HAND MUSCLE REPRESENTATION IN THE AWAKE MONKEY  
*FR. Amaya and D. Liebetanz, Göttingen*
- T23-4A** DO ANURANS POSSESS A SUBTHALAMIC NUCLEUS?  
*S. Maier, W. Walkowiak and H. Endepols, Köln*

### Friday

- T23-1B** SENSORIMOTOR ADAPTATION OF THE GRASP COMPONENT IN PREHENSION: EVIDENCE FOR A CONTINUOUS MECHANISM  
*C. Weigelt, M. Catizzone, I. Hecker and O. Bock, Köln and London, Ontario (CA)*
- T23-2B** HISTOCHEMICAL CHARACTERISATION OF SENSORY NEURONS IN THE TRIGEMINAL GANGLION INNERVATING THE EXTRAOCULAR MUSCLES OF THE RAT  
*K. Fackelmann, A. Messoudi and AKE. Horn-Bochtler, München*
- T23-3B** IMPAIRED VESTIBULAR-NECK INTERACTION IN CEREBELLAR PATIENTS  
*S. Kammermeier, U. Büttner and JF. Kleine, München*
- T23-4B** FUNCTIONAL CELL GROUPS OF THE OCULOMOTOR NUCLEUS COMPLEX IN THE RAT  
*C. Schulze and AKE. Horn, München*

### Saturday

- T23-1C** MODULES OF LOCOMOTOR CONTROL IN THE CENTRAL COMPLEX OF THE FRUIT FLY – AN ANALYSIS OF THE *TAY BRIDGE* MUTANT  
*R. Strauss, T. Triphan, K. Neuser and B. Poeck, Würzburg and Mainz*
- T23-2C** THE CONTROL OF GAP CLIMBING IN *DROSOPHILA MELANOGASTER*  
*T. Triphan and R. Strauss, Würzburg and Mainz*
- T23-3C** OBSTACLE AVOIDANCE IN HUMAN WALKING: TASK-DEPENDENT FLEXOR REFLEX FACILITATION  
*J. Michel, H. van Hedel and V. Dietz, Zürich (CH)*
- T23-4C** DECODING OF HAND GRASPING SIGNALS FROM THE MACAQUE PARIETAL AND PREMOTOR AREA  
*H. Scherberger, M. Baumann and MC. Fluet, Zürich (CH)*

## T24: Motor systems III: Muscle physiology

### Thursday

- T24-1A** CALCIUM ACTIVATION OF THE ASYNCHRONOUS FLIGHT MUSCLE USING FRET-BASED IMAGING IN *DROSOPHILA* EXPRESSING A CAMELEON TRANSGENE  
*HP. Bustami, A. Kabat and FO. Lehmann, Ulm*



- T24-2A** EFFICIENCY AND MECHANICAL POWER OUTPUT OF THE ASYNCHRONOUS FLIGHT MUSCLE LIMIT LOCOMOTOR CAPACITY IN *DROSOPHILA* EXPRESSING A FLIGHTIN TRANSGENE  
*FO. Lehmann, M. Mronz, B. Barton, G. Ayer, N. Heymann, DW. Maughan and JO. Vigoreaux, Ulm and Vermont (USA)*

## T25: Homeostasis

### Friday

- T25-1B** EFFECTS OF OXYGEN TENSION ON MITOCHONDRIAL METABOLISM AND SINGLE UNIT ACTIVITY IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES  
*C. Huchzermeyer, J. Otahal, K. Albus, HJ. Gabriel, R. Kovács, U. Heinemann and O. Kann, Berlin*
- T25-2B** IMPAIRED HOMEOSTATIC PLASTICITY IN MIGRAINE: A COMBINED TDCS/RTMS STUDY  
*K. Boros, A. Antal, N. Lang, S. Arlt, Z. Chadaide and W. Paulus, Göttingen*

## T26: Neuroendocrine systems

### Saturday

- T26-1C** TARGETED DELETIONS OF MEL1A AND MEL1B MELATONIN RECEPTORS AFFECT PCREB LEVELS IN LACTOTROPH AND PARS INTERMEDIA CELLS OF MICE  
*P. She-ynzon and HW. Korf, Frankfurt/M.*
- T26-2C** ROLE OF THE THYROID HORMONE TRANSPORTER MCT8 IN THE MURINE CNS  
*M. Trajkovic, T.J. Visser, J. Mittag, S. Jungk, S. Horn, J. Lukas, K. Bauer and H. Heuer, Jena, Rotterdam (NL) and Hannover*

## T27: Learning and memory I: LTP, LTD

### Thursday

- T27-1A** LONG-TERM DEPRESSION (LTD) IN BURST SPIKING (BS) AND REGULAR SPIKING (RS) NEURONS OF THE RAT SUBICULUM  
*P. Fidzinski, O. Shor and J. Behr, Berlin*
- T27-2A** NUCLEAR CALCIUM SIGNALS DURING L-LTP INDUCTION DO NOT PREDICT THE DEGREE OF SYNAPTIC POTENTIATION  
*FW. Johenning and K. Holthoff, Berlin and München*
- T27-3A** SLOWNESS: AN OBJECTIVE FOR SPIKE TIMING-DEPENDENT PLASTICITY?  
*H. Sprekeler, C. Michaelis and L. Wiskott, Berlin*
- T27-4A** IMPAIRMENT OF LTP AFTER CHRONIC MGLUR5 ANTAGONISM IS ASSOCIATED WITH DECREASED POWER OF GAMMA (30-100 HZ) OSCILLATIONS IN THE DENTATE GYRUS OF FREELY MOVING RATS  
*A. Bikbaev and D. Manahan-Vaughan, Bochum*

- T27-5A** HOMEOSTATIC PLASTICITY IN HUMAN MOTOR CORTEX: A STUDY COMBINING TRANSCRANIAL DIRECT CURRENT STIMULATION AND PAIRED ASSOCIATIVE STIMULATION  
*MF. Kuo, A. Roth, AK. Fischer, W. Paulus and M. Nitsche, Göttingen*
- T27-6A** UP-REGULATION OF VESICULAR GABA CONTENT AND INHIBITORY SYNAPTIC EFFICACY DURING LATE-LTP  
*V. Lopantsev, S. Kolbaev and A. Draguhn, Heidelberg*

### Friday

- T27-1B** ROLE OF THE ACTIN NETWORK DURING LONG-TERM POTENTIATION AND SYNAPTIC TAGGING IN HIPPOCAMPAL CA1 NEURONS  
*R. Binu, S. Sajikumar and JU. Frey, Magdeburg*
- T27-2B** MODULATION OF HIPPOCAMPAL CA1 SYNAPTIC PLASTICITY BY A COMPLEX HOLEBOARD LEARNING TASK: IMPLICATIONS FOR INDUCTION OF LTP AND LTD  
*D. Makhacheva-Stepochkina, JU. Frey and V. Korz, Magdeburg*
- T27-3B** DIFFERENT ROLE OF PROTEIN KINASE A DURING SYNAPTIC TAGGING IN APICAL VERSUS BASAL DENDRITES OF HIPPOCAMPAL CA1 NEURONS  
*S. Navakkode and S. Sajikumar, Magdeburg*
- T27-4B** INDUCTION OF HIPPOCAMPAL EARLY- AND LATE-LTP MODULATES MONOAMINE TRANSMITTER LEVEL: A MICRODIALYSIS STUDY  
*F. Neugebauer, JU. Frey and V. Korz, Magdeburg*
- T27-5B** DIFFERENT PROPERTIES AND REQUIREMENTS OF SYNAPTIC TAGGING AND CROSS-TAGGING IN HIPPOCAMPAL CA1 NEURONS, COMPARTMENTALIZATION AND DE-COMPARTMENTALIZATION  
*S. Sajikumar, S. Navakkode and JU. Frey, Magdeburg*
- T27-6B** A COMPARATIVE STUDY OF LONG-TERM POTENTIATION IN THE BASAL AND APICAL DENDRITES OF CA1 PYRAMIDAL NEURONS IN HIPPOCAMPAL SLICES *IN VITRO*  
*HK. Sreepathi, S. Sajikumar and JU. Frey, Magdeburg*

### Saturday

- T27-1C** BDNF DEPENDENT SYNAPTIC PLASTICITY IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES  
*T. Brigadski and V. Lessmann, Mainz*
- T27-2C** THE ACTIN FILAMENT DEPOLYMERIZING FACTOR COFILIN1 IS A MAJOR PLAYER OF ACTIVITY INDUCED ACTIN CYTOSKELETON DYNAMICS IN DENDRITIC SPINES  
*MB. Rust, CB. Gurniak, H. Vara Rivera, M. Al Banhaabouchi, M. Giustetto, M. Sassoe-Pognetto and W. Witke, Monterotondo-Scalo (IT) and Turin (IT)*
- T27-3C** MAGNETIC STIMULATION OF ONE DIMENSIONAL NEURAL CULTURES *IN VITRO*  
*A. Rotem and E. Moses, Rehovot (IL)*



- T27-4C** PRESYNAPTIC HCN CHANNELS MODULATE NMDA RECEPTOR-DEPENDENT SYNAPTIC PLASTICITY IN THE IMMATURE RAT MEDIAL PERFORANT PATH  
*T. Kirschstein, RA. Bender and H. Beck, Rostock, Hamburg and Bonn*
- T27-5C** HYPERPOLARIZATION-ACTIVATED CATION CHANNELS IMPAIR DHPG-INDUCED LTD IN RAT HIPPOCAMPAL CA1 REGION  
*T. Tokay, S. Krabbe, R. Köhling and T. Kirschstein, Rostock*

## T28: Learning and memory II: Cognitive learning and memory systems

### Thursday

- T28-1A** DOPAMINE DIFFERENTIALLY AFFECTS THE INPUT-OUTPUT RELATIONSHIP OF LAYER 5 PYRAMIDAL NEURONS IN THE PREFRONTAL CORTEX  
*K. Thurley, W. Senn and HR. Luescher, Bern (CH)*
- T28-2A** LEARNING DEPENDENT GENE EXPRESSION OF NCAM 180 IN THE HIPPOCAMPUS OF LAYING HENS KEPT IN DIFFERENT HOUSING CONDITIONS  
*A. Grund, I. Meier, L. Phi van and S. Petow, Bielefeld, Hamburg and Celle*
- T28-3A** HIPPOCAMPUS DEPENDENT ONE TRIAL PASSIVE AVOIDANCE LEARNING IN CHICKENS (GALLUS GALLUS DOMESTICUS)  
*ET. Krause, M. Naguib and S. Petow, Bielefeld and Celle*
- T28-4A** PIGEONS AND PIKACHU: FAILURE TO LEARN NEW CATEGORY  
*R. Adam, M. Manns and O. Güntürkün, Bochum*
- T28-5A** BEHAVIOURAL AND PHARMACOLOGICAL CHARACTERIZATION OF RATS SELECTIVELY BRED FOR DEFICIENT SENSORIMOTOR GATING  
*M. Dieckmann, S. Klein, M. Koch and K. Schwabe, Bremen and Hannover*
- T28-6A** EFFECTS OF HIGH FREQUENCY TACTILE STIMULATION ON SENSORY AND MOTOR PERFORMANCE IN YOUNGER AND OLDER ADULTS  
*AF. Knop, C. Voelcker-Rehage, M. Babanin and B. Godde, Bremen*
- T28-7A** PROCESSING "MOVIES" IN NEURAL NETS USING MEMORY-STRINGS  
*T. Kromer, Ertingen*
- T28-8A** DISSIMILARITY OF FIRING RATE PATTERNS SUGGEST POPULATION CODING OF VISUAL OBJECTS IN MACAQUE PREFRONTAL CORTEX  
*MHJ. Munk, ES. Städtler, G. Pipa, LF. Muckli and R. Goebel, Frankfurt/M. and Maastricht (NL)*
- T28-9A** ASSESSMENT OF WORKING MEMORY BY REPETITIVE APPLICATION OF THE RUNNING WHEEL-BASED MOTOR SKILL SEQUENCE (MOSS)  
*P. Dowling, D. Liebetanz and F. Klinker, Göttingen*



- T28-10A** STIMULUS MODALITY DIFFERENTIATES HUMAN AND NON-HUMAN TIMING AND MEMORY OF RHYTHMIC LIGHT AND TONE SIGNALS  
*K. Folta, R. Niebergall, A. Fischbach, D. Grube and S. Treue, Göttingen*
- T28-11A** PERCEIVING LEARNED ACTION EFFECTS AS INVESTIGATED BY FMRI  
*T. Melcher, Göttingen*
- T28-12A** CHAINING ACTIONS IN A SEQUENCE OF TASKS  
*AM. Wolf and F. Wörgötter, Göttingen*

## Friday

- T28-1B** MAMMALIAN EPENDYMIN-RELATED PROTEINS (MERPS) IN THE MOUSE BRAIN  
*S. Schneider and R. Schmidt, Gießen*
- T28-2B** ANALYSIS OF NEX FUNCTION IN THE MURINE FOREBRAIN  
*O. Mikhailova, S. Wichert, K. Radyushkin, M. Rossner, KA. Nave and M. Schwab, Göttingen*
- T28-3B** INDUCIBLE ABLATION OF NCAM GENE IN THE ADULT MOUSE BRAIN CAUSES DEFICITS IN FORMATION AND RETRIEVAL OF CONTEXTUAL MEMORY IN A REPETITIVE AUDITORY FEAR CONDITIONING PARADIGM  
*O. Senkov, T. Makhina, AK. Engel, A. Dityatev, P. Chambon, D. Metzger and M. Schachner, Hamburg and Illkirch (FR)*
- T28-4B** MUSICAL LONG-TERM MEMORY AND ITS RELATION TO EMOTIONS AND PSYCHOPHYSIOLOGY  
*S. Eschrich, TF. Münte and E. Altenmüller, Hannover and Magdeburg*
- T28-5B** CELLULAR PROPERTIES OF CA1 PYRAMIDAL CELLS DURING 200 HZ OSCILLATIONS IN HIPPOCAMPAL SLICES  
*F. Baehner, M. Both, C. Bruehl and A. Draguhn, Heidelberg*
- T28-6B** SPECIFICITY OF INFORMATION TRANSFER DURING SHARP WAVE-RIPPLE COMPLEXES  
*M. Both, F. Baehner and A. Draguhn, Heidelberg*
- T28-7B** COMPENSATORY HYPERACTIVATIONS AS MARKERS OF LATENT WORKING MEMORY DYSFUNCTIONS IN OBSESSIVE-COMPULSIVE DISORDER  
*I. Henseler, O. Gruber, S. Kraft, C. Krick, W. Reith and P. Falkai, Homburg/Saar*
- T28-8B** SLEEP DEPRIVATION FACILITATES THE 'LEARNING' OF EXPRESS SACCADES  
*H. Kimmig, S. Köster, A. Sprenger, J. Bethke and S. Gais, Lübeck*
- T28-9B** AUDIOVISUAL CATEGORY TRANSFER - AN ELECTROPHYSIOLOGICAL STUDY IN RODENTS  
*A. Fillbrandt, M. Deliano and FW. Ohl, Magdeburg*
- T28-10B** ANTERIOR CINGULATE CORTEX AND ITS ROLE IN SPATIAL LEARNING AND BEHAVIOURAL EXTINCTION  
*M. Noblejas, AI. Michael, W. Wetzel, A. Poremba and FW. Ohl, Magdeburg and Iowa City (USA)*



- T28-11B** SEQUENTIAL BEHAVIOUR: EFFECTS OF STRIATAL DOPAMINE DEPLETIONS IN RATS PERFORMING A SERIAL REACTION TIME TASK  
*DM. Domenger and RKW. Schwarting, Marburg*

## Saturday

- T28-1C** TESTING A SONGBIRD'S AUDITORY MEMORY WITH A DNMTS PROCEDURE  
*MA. Zokoll, U. Langemann and GM. Klump, Oldenburg*
- T28-2C** RECONSTRUCTION OF NETWORK DYNAMICS IN THE PREFRONTAL CORTEX DURING A TWO-INTERVAL DISCRIMINATION TASK  
*CK. Machens, R. Romo and C. Brody, Planegg-Martinsried, Mexico, D.F. (MX) and Cold Spring Harbor (USA)*
- T28-3C** NMDA- BUT NOT D1- OR D2-RECEPTORS IN THE ORBITOFONTAL CORTEX ARE INVOLVED IN REVERSAL LEARNING  
*C. Calaminus and W. Hauber, Stuttgart*
- T28-4C** DOPAMINE D1 BUT NOT D2 RECEPTORS IN THE ANTERIOR CINGULATE CORTEX REGULATE EFFORT-BASED DECISION MAKING IN RATS  
*W. Hauber, S. Sommer and J. Schweimer, Stuttgart and London (UK)*
- T28-5C** DOPAMINE ACTING ON D1 AND D2 RECEPTORS IN THE NUCLEUS ACCUMBENS MEDIATES PAVLOVIAN-INSTRUMENTAL TRANSFER  
*A. Lex and W. Hauber, Stuttgart*
- T28-6C** THE ROLE OF PREFRONTAL DOPAMINE IN INSTRUMENTAL LEARNING  
*B. Lex and W. Hauber, Stuttgart*
- T28-7C** MAPPING 'NUMERALS' TO QUANTITIES IN THE PRIMATE PREFRONTAL CORTEX  
*I. Diester and A. Nieder, Tübingen*
- T28-8C** THE ROLE OF THE POSTERIOR PARIETAL CORTEX IN THE REPRESENTATION OF CONTINUOUS AND DISCRETE QUANTITIES  
*O. Tudusciuc and A. Nieder, Tübingen*
- T28-9C** REINFORCEMENT LEARNING IN AN ACTOR-CRITIC SPIKING NETWORK MODEL  
*W. Potjans, A. Morrison and M. Diesmann, Wako City (JP)*
- T28-10C** SOURCES OF HUMAN THETA EEG ACTIVITY DURING WORKING MEMORY  
*L. Michels, D. Jeanmonod and J. Sarnthein, Zürich (CH)*
- T28-11C** DOES THE SHORT TERM MEMORY OR WORKING MEMORY HAS GOT INFLUENCE TO LANGUAGE (SPEECH) ACQUISITION IN THE CHILDREN WITH HEARING IMPAIRMENT ?  
*B. Munivrana, Zagreb (HR)*

## T29: Learning and memory III: Invertebrates

### Thursday

- T29-1A** SLEEP IN HONEYBEES: SEARCHING FOR THE ROLE OF SLEEP IN MEMORY CONSOLIDATION  
*L. Bogusch, SA. Hussaini, M. Schubert, U. Greggers and R. Menzel, Berlin*
- T29-2A** LOCAL BLOCKADES OF NEURAL ACTIVITY REVEAL DISTINCT ROLES OF INSECT MUSHROOM BODIES DURING LEARNING AND MEMORY TRANSFER  
*B. Grünewald, C. Bartsch, A. Blunk, J. Podufall, M. Giurfa and JM. Devaud, Berlin and Toulouse (FR)*
- T29-3A** THE HOME VECTOR OF DESERT ANTS DOES NOT EXTEND INTO THE THIRD DIMENSION  
*G. Grah, R. Wehner and B. Ronacher, Berlin and Zürich (CH)*
- T29-4A** CONTEXT-DEPENDENT LEARNING IN HONEYBEES (*APIS MELLIFERA*)  
*SA. Hussaini and R. Menzel, Berlin*
- T29-5A** NMDA GLUTAMATE RECEPTOR MEDIATES LONG-TERM MEMORY FORMATION IN THE HONEYBEE  
*G. Leboulle, R. Roessler and L. Muessig, Berlin*
- T29-6A** THE INFLUENCE OF REWARD DURATION ON RECONSOLIDATION AND CONSOLIDATION OF EXTINCTION MEMORY IN PER CONDITIONING IN HONEYBEES  
*N. Stollhoff and D. Eisenhardt, Berlin*
- T29-7A** MONITORING NUCLEAR CALCIUM SIGNALS USING RECOMBINANT CALCIUM PROBES IN *DROSOPHILA* LARVAL BRAIN  
*JM. Weislogel, J. Schlüter, C. Schuster and H. Bading, Heidelberg*
- T29-8A** FAST MANIPULATION OF CELLULAR cAMP LEVELS BY TRANSGENIC PHOTO ACTIVATED CYCLASES (PACS) IN *DROSOPHILA*  
*F. Dohler, P. Cabrero, G. Nagel, U. Mueller, J. Dow and M. Schwaerzel, Saarbrücken, Glasgow (UK) and Würzburg*

### Friday

- T29-1B** CHROMATIN REMODELING AND ITS CONTRIBUTION TO LONG-TERM MEMORY AND NEURONAL DEVELOPMENT  
*J. Hättig and U. Mueller, Saarbrücken*
- T29-2B** SUB-CELLULAR ANCHORING OF PKA AS ORGANIZING PRINCIPLE IN *DROSOPHILA* ASSOCIATIVE MEMORY PROCESSING  
*A. Jaeckel, M. Schwaerzel and U. Mueller, Saarbrücken*
- T29-3B** THE ROLE OF PHOSPHODIESTERASES IN *DROSOPHILA* ASSOCIATIVE MEMORY PROCESSING.  
*E. Jost, JP. Day, U. Mueller, S. Davies and M. Schwaerzel, Glasgow (UK) and Saarbrücken*



- T29-4B** LINKING SATIATION LEVELS AND LEARNING: A FUNCTION OF THE CONSERVED CELLULAR ENERGY SENSOR AMP-ACTIVATED PROTEIN KINASE  
*T. Laeger and U. Müller, Saarbrücken*
- T29-5B** IMPACT OF VIRAL INFECTION ON LEARNING, MEMORY AND THE IMMUNE SYSTEM OF HONEYBEE  
*J. Iqbal and U. Mueller, Saarbrücken*
- T29-6B** EPIGENETIC CONTROL OF GENE EXPRESSION IN HONEYBEE LONG-TERM MEMORY  
*D. Hatakeyama and U. Mueller, Saarbrücken*
- T29-7B** MUSHROOM BODIES ARE NECESSARY FOR NON-ELEMENTAL FORMS OF LEARNING IN THE HONEYBEE  
*JM. Devaud, T. Papouin, B. Grünewald and M. Giurfa, Toulouse (FR) and Berlin*

## Saturday

- T29-1C** STRESS AND LEARNING IN HONEYBEES: EFFECTS OF EXPOSURE TO AN ALARM PHEROMONE COMPONENT ON ASSOCIATIVE CONDITIONING AND MEMORY  
*E. Urlacher, B. Francés, M. Giurfa and JM. Devaud, Toulouse (FR)*
- T29-2C** DESERT ANTS, *CATAGLYPHIS FORTIS*, ADJUST THEIR APPROACH OF A FAMILIAR GOAL WITH EXPERIENCE  
*H. Wolf, Ulm*
- T29-3C** THE LEARNING MUTANT *DUNCE* IS IMPAIRED IN ETHANOL TOLERANCE  
*M. Franz, A. Klebes, A. Saratsis and H. Scholz, Würzburg and Berlin*
- T29-4C** TOWARDS LOCALIZING A SYNAPSIN-DEPENDENT OLFACTORY MEMORY TRACE IN THE BRAIN OF *DROSOPHILA* LARVAE  
*B. Michels, B. Gerber, H. Tanimoto and E. Buchner, Würzburg*
- T29-5C** OUT OF SIGHT, BUT NOT OUT OF MIND – A SPATIAL MEMORY TRACE IN THE BRAIN OF *DROSOPHILA MELANOGASTER*  
*K. Neuser, T. Peter and R. Strauss, Würzburg and Mainz*
- T29-6C** RUTABAGA-INDEPENDENT LEARNING AND MEMORY IN *DROSOPHILA*  
*R. Wolf, W. Plendl, S. Yamaguchi and M. Heisenberg, Würzburg and New York (USA)*
- T29-7C** A ROLE OF THE PRESYNAPTIC PROTEIN SAP 47 IN ASSOCIATIVE LEARNING  
*T. Saumweber, B. Michels, N. Funk, E. Buchner and B. Gerber, Würzburg*

## T30: Human and brain imaging

### Thursday

- T30-1A** STANDARDIZED *DROSOPHILA* THORACIC GANGLIA MORPHOLOGY  
*J. Börner, S. Krofczik and C. Duch, Berlin and Tempe (USA)*
- T30-2A** IMPACT OF INHIBITORY MECHANISMS ON CORTICAL REPRESENTATION OF ADJACENT FINGERS IN HUMAN PRIMARY SOMATOSENSORY CORTEX  
*S. Holtze, B. Taskin, T. Krause and A. Villringer, Berlin*
- T30-3A** DECISION-MAKING IN EYE-HAND COORDINATION: AN EVENT-RELATED FMRI STUDY  
*A. Horstmann, D. Scherfeld, R. Seitz and KP. Hoffmann, Bochum and Düsseldorf*
- T30-4A** SECOND-HARMONIC MICROSCOPY OF MICROTUBULES IN ACUTE HIPPOCAMPAL BRAIN SLICES  
*R. Krueppel and H. Beck, Bonn*
- T30-5A** QUANTITATIVE ASPECTS OF THE RELATIONSHIP BETWEEN SMOOTH PURSUIT EYE MOVEMENTS AND CORTICAL ACTIVITY AS MEASURED BY FMRI  
*S. Ohlendorf, E. Tenckhoff, V. Glauche, O. Speck and H. Kimmig, Freiburg and Lübeck*
- T30-6A** NEURAL PROCESSING OF FOOD STIMULI IN EATING DISORDERS: A FMRI STUDY  
*B. Saum, T. Freyer, A. Joos, E. Perlov, V. Glauche, L. Tebartz van Elst and A. Zeeck, Freiburg*

### Friday

- T30-1B** THE HUMAN CORPUS CALLOSUM: DIFFUSION TENSOR MRI OF REGIONAL MICROSTRUCTURE  
*S. Hofer and J. Frahm, Göttingen*
- T30-2B** DOPAMINE TRANSPORTER GENOTYPE ALTERS N-ACETYLASPARTATE IN LEFT PUTAMEN  
*H. Scherk, M. Backens, S. Kraft, C. Kemmer, W. Reith, J. Meyer, P. Falkai and O. Gruber, Homburg*
- T30-3B** DISTURBED CORTICO-AMYGDALAR FUNCTIONAL CONNECTIVITY AS PATHOPHYSIOLOGICAL CORRELATE OF WORKING MEMORY DEFICITS IN BIPOLAR AFFECTIVE DISORDER  
*KD. Stegmayer, H. Tost, C. Breaman, I. Hensele, M. Rietschel, P. Falkai and O. Gruber, Homburg/Saar, Mannheim and Homburg*
- T30-4B** THE INITIAL EMOTIONAL RESPONSES TO PLEASANT AND UNPLEASANT MUSIC: AN FMRI STUDY.  
*T. Fritz and S. Koelsch, Leipzig*
- T30-5B** SUITABILITY OF MANGANESE AS A TRACER FOR FUNCTIONAL IMAGING IN THE BRAIN - A STUDY ON THE INFERIOR COLLICULUS AND THE AUDITORY CORTEX OF THE GERBIL  
*J. Mylius, J. Goldschmidt, E. Budinger, F. Angenstein and H. Scheich, Magdeburg*
- T30-6B** SINGLE-CELL RESOLUTION MAPPING OF NEURONAL ACTIVITY IN RAT SLOW-WAVE SLEEP: A THALLIUM-UPTAKE STUDY  
*T. Wanger, W. Wetzel, H. Scheich and J. Goldschmidt, Magdeburg*



## Saturday

- T30-1C** STRUCTURAL ORGANIZATION AND COUPLING OF CULTURED BRAIN SLICES TO MULTI-TRANSISTOR-ARRAY  
*M. Wiemhöfer and P. Fromherz, Martinsried*
- T30-2C** LONG-RANGE CALCIUM WAVES IN THE BRAIN OF ADULT MICE  
*H. Adelsberger, A. Schierloh, C. Grienberger, Rl. Milos, O. Garaschuk and A. Konnerth, Munich*
- T30-3C** AGE RELATED COGNITIVE DECLINE CORRELATES WITH REGIONAL BRAIN CHANGES MEASURED BY Q-SPACE MRI  
*E. Sasson, GM. Dolinger and Y. Assaf, Tel Aviv (IL) and New York (USA)*
- T30-4C** NEW METHODS FOR THE P300 VISUAL SPELLER  
*F. Blessmann and JN. Hill, Tübingen*
- T30-5C** THE COMBINED EFFECTS OF CUE VALIDITY AND VERBAL DISTRACTERS IN A MODIFIED AUDITORY CUED ATTENTION (POSNER) TASK - AN ERP FUNCTIONAL IMAGING STUDY  
*E. Ofek and H. Pratt, Yokneam (IL) and Haifa (IL)*
- T30-6C** IMAGING CELLULAR NETWORK DYNAMICS IN THREE DIMENSIONS USING FAST 3D LASER SCANNING  
*W. Göbel, BM. Kampa and F. Helmchen, Zürich (CH)*

## T31: Limbic system, motivation, emotion

### Thursday

- T31-1A** A 'DEPRESSIVE-LIKE' STATE INDUCED BY A WASP'S STING INTO COCKROACH BRAIN  
*R. Gal and F. Libersat, Beer-Sheva (IL)*
- T31-2A** DISSOCIATING THE NEURAL CORRELATES OF DIFFERENT TYPES OF BIOLOGICAL SIGNIFICANCE  
*EK. Schlüter and O. Gruber, Göttingen and Homburg*
- T31-3A** A MODEL OF TEMPORAL LOBE EPILEPSY: INTRAHIPPOCAMPAL KAINATE INJECTION AND ITS RELATED BEHAVIOURAL PHENOTYPE IN MICE  
*I. Gröticke, K. Hoffmann and W. Löscher, Hannover*
- T31-4A** HOW ARE SUBJECTIVE FEELINGS AND PHYSIOLOGICAL RESPONSES RELATED? THE SYNCHRONICITY OF EMOTION COMPONENTS CHANGING OVER TIME IN RESPONSE TO MUSIC  
*O. Grewe, F. Nagel, R. Kopiez and E. Altenmüller, Hannover*

### Friday

- T31-1B** APPETITIVE AND AVERSIVE REINFORCEMENT AND THEIR INTERACTION DURING AUDITORY LEARNING  
*Al. Micheal, W. Wetzel, H. Scheich and F. Ohl, Magdeburg*

- T31-2B** ULTRASONIC VOCALIZATIONS IN RATS: EFFECTS OF EXPERIENCE AND CONTEXT ON 50-KHZ CALLS.  
*M. Wöhr, B. Houx, RKW. Schwarting and B. Spruijt, Marburg and Utrecht (NL)*
- T31-3B** DIFFERENTIAL BEHAVIORAL PROFILE INDUCED BY THE INJECTION OF CHLORAZEPATE DIPOTASSIUM IN BRAIN AREAS THAT PROJECT TO THE NUCLEUS ACCUMBENS SEPTI  
*PA. Gargiulo, L. Llano, M. Fraile, M. Olguin, P. Melonari, F. Caif, and A Landa, Mendoza (AR)*
- T31-4B** DIFFERENTIAL STRESS RESPONSE IN SPRAGUE DAWLEY (SD), WISTAR (W) AND OFA HR/HR (O) FEMALE RATS. EFFECTS OF DIAZEPAM  
*AS. Gonzalez, EL. Rodriguez Echandia, S. Valdez and G. Jahn, Mendoza, (AR)*

### Saturday

- T31-1C** DOES EMOTIONAL STATE AFFECT HUMAN PERFORMANCE IN SPATIAL COGNITION TASKS?  
*G. Hardiess, S. Saydam and HA. Mallot, Tübingen*
- T31-2C** DOES THE MODULATION OF THE INSULAR ACTIVITY AFFECT OUR EMOTIONAL INVOLVEMENT? A REAL-TIME FMRI STUDY DURING EMOTIONAL PICTURES PROCESSING  
*A. Caria, R. Sitaram, R. Veit, A. Kuebler, M. Lotze and N. Birbaumer, Tübingen*
- T31-3C** DIFFERENTIAL REGULATION OF SYNAPTIC VESICLE PROTEINS IN SEROTONIN TRANSPORTER DEFICIENT MICE – WITH AND WITHOUT ACUTE STRESS EXPOSURE  
*SL. Nietzer, AG. Schmitt, M. Maier, G. Ortega, C. Kriegebaum, L. Gutknecht, EM. Bogusch, P. Riederer, J. Deckert and KP. Lesch, Würzburg*

## T32: Attention

### Thursday

- T32-1A** ATTENTION IMPROVES OBJECT REPRESENTATION IN MONKEY AREA V4  
*D. Rotermund, K. Taylor, U. Ernst, AK. Kreiter and KR. Pawelzik, Bremen and Paris (FR)*
- T32-2A** DYNAMIC CHANGES OF SYNCHRONY BETWEEN NEURONAL POPULATIONS IN VISUAL CORTEX ARE PREDICTED BY SHIFTS OF ATTENTION  
*Y. Smiyukha, S. Mandon, FO. Galashan, S. Neitzel and A. Kreiter, Bremen*
- T32-3A** ATTENTION INCREASES APPARENT SIZE OF MOVING VISUAL STIMULI  
*K. Anton-Erxleben, C. Henrich, T. Tzvetanov and S. Treue, Göttingen*

### Friday

- T32-1B** TRANSPARENT MOTION: ATTENTION IMPROVES THE PERCEPTION OF SPEED CHANGES BUT NOT OF DIRECTION CHANGES  
*V. Kozyrev, A. Lochte, S. Ardid, D. Luxat and S. Treue, Göttingen, Sant Joan d'Alacant (ES) and Waltham MA (USA)*



- T32-2B** VARIABILITY OF ATTENTIONAL MODULATION OF NEURONS IN VISUAL CORTICAL AREA MT OF RHESUS MONKEYS  
*F. Pieper, T. Womelsdorf, JC. Martinez-Trujillo and S. Treue, Göttingen, Nijmegen (NL) and Montreal (CA)*
- T32-3B** EFFECTS OF NEGATIVE EMOTIONAL AROUSAL STATES ON THE NEURAL MECHANISMS OF COGNITIVE CONTROL: A FUNCTIONAL MRI STUDY  
*C. Born, T. Melcher and O. Gruber, Homburg/Saar*

### Saturday

- T32-1C** VISUAL TASK PERFORMANCE AFFECTS THE AUDITORY CHANGE DETECTION MECHANISM  
*K. Haroush, S. Hochstein and LY. Deouell, Jerusalem (IL)*
- T32-2C** REFERENCE FRAMES FOR COVERT SPATIAL ATTENTION DURING A VISUOMOTOR TASK  
*JC. Martinez-Trujillo and R. Niebergall, Montreal (CA) and Göttingen*
- T32-3C** ATTENTIONAL BIAS IN AN ALCOHOL-RELATED STROOP AND STERNBERG TASK IN A NON-DEPENDENT STUDENT SAMPLE  
*A. Kübler, R. Hester, G. Roberts and H. Garavan, Tübingen, Melbourne (AU) and Dublin (IE)*

## T33: Neuropsychology and psychophysics

### Thursday

- T33-1A** COLOR DIFFERENCE, SIMILARITY, AND BRIGHTNESS MEASURES BASED ON A MODEL OF NEURONAL COLOR CODING (CC) AND ELEMENTARY COLOR (EC) SENSATIONS IN MAN  
*W.G.K. Backhaus, Berlin*
- T33-2A** INCREASING GENDER-SPECIFIC DIFFERENCES IN HAPTIC OBJECT RECOGNITION PERFORMANCE OVER THE LIFE-SPAN  
*T. Kalisch, M. Tegenthoff and HR. Dinse, Bochum*

### Friday

- T33-1B** LOCALIZATION OF AUDITORY STIMULI DURING SMOOTH EYE MOVEMENTS  
*K. Königs and F. Bremmer, Marburg*
- T33-2B** THE EFFECT OF ECHO ROUGHNESS ON BACKWARD MASKING  
*S. Schörnich and L. Wiegrebe, Planegg-Martinsried*

### Saturday

- T33-1C** THE EFFECTS OF TRANSCRANIAL DIRECT CURRENT STIMULATION ON PLANNING PERFORMANCE IN THE TOWER OF LONDON TEST  
*CA. Dockery, N. Birbaumer and C. Braun, Tübingen*



## T34: Neuropharmacology

### Thursday

- T34-1A** NEW POTENTIAL DRUGS FOR TREATMENT OF SECONDARY BRAIN INJURY  
*L. Veenman, I. Maniv, A. Shterenberg, W. Kugler, M. Lakomek, I. Marek and M. Gavish, Bat-Galim, Haifa (IL) and Göttingen*
- T34-2A** STANDARD ANTIEPILEPTIC DRUGS FAIL TO BLOCK EPILEPTIFORM ACTIVITY INDUCED BY LOW MAGNESIUM OR 4-AMINOPYRIDINE IN RAT HIPPOCAMPAL SLICE CULTURES.  
*K. Albus, A. Wahab and U. Heinemann, Berlin*
- T34-3A** INTRASTRIATAL INHIBITION OF AROMATIC AMINO ACID DECARBOXYLASE PREVENTS L-DOPA-INDUCED DYSKINESIA: A BILATERAL REVERSE *IN VIVO* MICRO-DIALYSIS STUDY IN RATS  
*K. Buck and B. Fergler, Biberach*
- T34-4A** EFFECT OF "ENRICHED ENVIRONMENT" DURING DEVELOPMENT ON ADULT RAT BEHAVIOUR  
*S. Schütte, L. Hoffmann, M. Koch and K. Schwabe, Bremen and Hannover*
- T34-5A** MODAFINIL INHIBITS RAT MIDBRAIN DOPAMINERGIC NEURONS THROUGH D2-LIKE RECEPTORS  
*BP Klyuch, TM. Korotkova, AA. Ponomarenko, JS. Lin, HL. Haas and OA. Sergeeva, Düsseldorf and Lyon (FR)*

### Friday

- T34-1B** COCAINE AND AMPHETAMINE DOSE-DEPENDENTLY INCREASE SEROTONIN AND DOPAMINE IN MEMORY ASSOCIATED CORTICAL AREAS: AN *IN VIVO* MICRODIALYSIS STUDY IN FREELY MOVING RATS  
*ME. Pum, JP. Huston and CP. Müller, Düsseldorf*
- T34-2B** CALCINEURIN (PROTEIN PHOSPHATASE 2B) IS INVOLVED IN THE MECHANISMS OF ACTION OF ANTIDEPRESSANTS  
*C. Crozatier, S. Farley, IM. Mansuy, S. Dumas, B. Giros and ET. Tzavara, Göttingen, Créteil (FR) and Zürich (CH)*
- T34-3B** BIOGENIC AMINES IN THE CENTRAL BODY OF THE GRASSHOPPER *CHORTHIPPUS BIGUTTULUS*: POSSIBLE MODULATORS OF SOUND PRODUCTION?  
*M. Kunst and R. Heinrich, Göttingen*
- T34-4B** EXPRESSION OF GENES RELATED TO 5-HT NEUROTRANSMISSION: REGULATION BY CHRONIC STRESS AND CITALOPRAM IN A RAT MODEL OF DEPRESSION  
*N. Abumaria, R. Rygula, E. Fuchs and G. Flügge, Göttingen*
- T34-5B** PHARMACOLOGICAL VALIDATION OF CHRONIC SOCIAL STRESS AS A MODEL OF DEPRESSIVE SYMPTOMS IN RAT  
*R. Rygula, N. Abumaria, C. Hiemke, E. Fuchs, E. Rueither, G. Fluegge and U. Havemann-Reinecke, Göttingen and Mainz*



## Saturday

- T34-1C** BLOCKADE OF DOPAMINE D1 RECEPTORS IN THE ORBITOFRONTAL CORTEX IMPROVE RAT'S BEHAVIOURAL FLEXIBILITY MEASURED IN AN OPERANT BEHAVIOURAL SYSTEM  
*K. Schwabe and S. Winter, Hannover and Bremen*
- T34-2C** MODULATION OF GABAERGIC CONDUCTANCES IN CEREBELLAR GRANULA CELLS BY THE ANESTHETIC KETAMINE  
*W. Hevers, SH. Hadley, H. Lüddens and J. Amin, Leipzig, Tampa (USA) and Mainz*
- T34-3C** REPEATED EXPOSURE TO ECSTASY (MDMA) AND ITS EFFECTS ON BEHAVIOR AND NEUROCHEMISTRY IN MALE WISTAR RATS - INDIVIDUAL DIFFERENCES  
*Y. Mihov, V. Ludwig and R. Schwarting, Marburg*
- T34-4C** EFFECT OF INDUCED DIABETES MELLITUS, ACUTE MORPHINE OR ACETAZOLAMIDE TREATMENT ON BLOOD FLOW INCREASING CAUSED BY CORTICAL SPREADING DEPRESSION (CSD) IN RAT  
*K. Nagy, F. Domoki and F. Bari, Szeged (HU)*

## T35: Disorders of the nervous system

### Thursday

- T35-1A** BEHAVIORAL INVESTIGATIONS IN THE DT<sup>SZ</sup> HAMSTER, A MODEL OF IDIOPATHIC PAROXYSMAL DYSTONIA  
*M. Hamann, M. Bennay, M. Gernert, K. Schwabe, M. Koch and A. Richter, Berlin, Düsseldorf, Hannover and Bremen*
- T35-2A** BLOCK OF DRUG TRANSPORTER ACTIVITY AND EFFICACY OF ANTIEPILEPTIC DRUGS IN HUMAN EPILEPTIC HIPPOCAMPUS AND TEMPORAL CORTEX  
*S. Kim, R. Kovacs, C. Raue, D. Päsler, LL. Antonio, C. Huchzermeyer, O. Kann, U. Heinemann, EA. Cavalheiro, TN. Lehmann and S. Gabriel, Berlin and Sao Paulo (BR)*
- T35-3A** RAPID EYE MOVEMENT SLEEP BEHAVIOUR DISORDER, OBSTRUCTIVE SLEEP APNEA SYNDROME AND STIMULUS SENSITIVE MYOCLONUS IN A PATIENT WITH PONTINE LESIONS - A CASE REPORT  
*A. Peter, ML. Hansen, S. Voigtländer, M. Bajbouj and H. Danker-Hopfe, Berlin*
- T35-4A** ANITDYSKINETIC EFFECTS OF THE K<sub>v</sub>7 CHANNEL OPENER RETIGABINE IN AN ANIMAL MODEL OF LEVODOPA-INDUCED DYSKINESIA  
*SE. Sander and A. Richter, Berlin*
- T35-5A** EXAMINATION OF NEW LINES OF TRANSGENIC MICE LOCALIZES AGE-DEPENDENT LTP DEFICITS TO THE SOLUBLE ECTODOMAIN OF AMYLOID PRECURSOR PROTEIN  
*BS. Kilian, S. Ring, U. Müller and M. Korte, Braunschweig and Heidelberg*

- T35-6A** SYNAPTIC REMODELING IN TRANSGENIC MICE EXPRESSING WILD-TYPE OR MUTANT HUMAN AMYLOID PRECURSOR PROTEINS  
*A. Alpár, U. Ueberham, U. Gärtner, G. Seeger and T. Arendt, Budapest (HU) and Leipzig*
- T35-7A** AGE DEPENDENT EFFECTS OF ISOLATION INDUCED CHANGES OF BEHAVIOURAL AND HORMONAL CHARACTERISTICS IN MICE  
*M. Jähkel, T. Krügler, L. Schiller and J. Oehler, Dresden*
- T35-8A** GENE EXPRESSION IN EARLY CMT1A PATHOGENESIS STUDIED IN THE MURINE MODEL PMP22<sup>TC</sup>C61  
*EM. Barbaria, K. Hasenpusch-Theil and HW. Mueller, Düsseldorf*
- T35-9A** ALTERED POSTTRANSLATIONAL CLEAVAGE OF THE PROTEOGLYCAN NEUROCAN COINCIDES WITH THE APPEARANCE OF GRANULE CELL DISPERSION IN TEMPORAL LOBE EPILEPSY PATIENTS  
*A. Fahrner, S. Huber, A. Flubacher, J. Zentner and CA. Haas, Freiburg*
- T35-10A** GENERATION OF EPILEPTIFORM ACTIVITY REQUIRES SCLEROTIC AND INTACT NETWORKS  
*U. Haeussler, R. Meier, A. Depaulis, A. Aertsen and U. Egert, Freiburg and Grenoble (FR)*
- T35-11A** GREEN FLUORESCENT PROTEIN (GFP) TRANSGENIC RATS: A NEW TOOL FOR NEUROTRANSPLANTATION  
*M. Krause, A. Papazoglou and G. Nikkhah, Freiburg*
- T35-12A** APPLICATION OF EXOGENOUS REELIN ATTENUATES THE DEVELOPMENT OF GRANULE CELL DISPERSION IN A MOUSE MODEL FOR TEMPORAL LOBE EPILEPSY  
*MC. Müller, M. Osswald, S. Tinnes, C. Heinrich, E. Förster, M. Frotscher and CA. Haas, Freiburg*
- T35-13A** INVESTIGATING THE POTENTIAL OF EMBRYONIC VENTRAL MESENCEPHALON STEM CELLS TO DIFFERENTIATE INTO DOPAMINERGIC NEURONS AFTER *IN VITRO* EXPANSION  
*T. Omer, A. Papazoglou and G. Nikkhah, Freiburg*
- T35-14A** UP-REGULATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR MRNA IN THE EPILEPTIC MOUSE HIPPOCAMPUS IS ACCOMPANIED BY INCREASED BLOOD VESSEL FORMATION  
*M. Osswald, MC. Müller, S. Huber and CA. Haas, Freiburg*
- T35-15A** *IN VIVO* CHARACTERIZATION OF EMBRYONIC DOPAMINERGIC NEURONS DERIVED FROM TRANSGENIC MICE ECTOPICALLY EXPRESSING OTX2 IN THE ANTERIOR HINDBRAIN  
*A. Papazoglou, C. Hackl, A. Klein, N. Prakash, W. Wurst and G. Nikkhah, Freiburg and Munich*
- T35-16A** DIFFERENTIATION OF ENDOGENOUS NEURAL PRECURSOR CELLS IN THE RAT MCAO MODEL OF STROKE  
*R. Roelz, J. Maciaczyk and G. Nikkhah, Freiburg*



- T35-17A** ACTIVATION OF ASTROCYTES BY CILIARY NEUROTROPHIC FACTOR (CNTF) REDUCES GRANULE CELL DISPERSION IN A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY  
*M. Bechstein, MC. Müller, M. Kirsch, A. Flubacher, S. Tinnes and CA. Haas, Freiburg*
- T35-18A** ANTI-NOGO-A-SPECIFIC ANTIBODY TREATMENT FOSTERS RECOVERY OF MANUAL DEXTERITY FROM UNILATERAL SPINAL CORD INJURY IN ADULT MONKEYS  
*PAB. Freund, T. Wannier, E. Schmidlin, M. Beaud, J. Bloch, A. Mir, ME. Schwab and EM. Rouiller, Fribourg (CH), Lausanne (CH), Basel (CH) and Zürich (CH)*
- T35-19A** UPREGULATED EXPRESSION OF N-TYPE VOLTAGE-DEPENDENT CALCIUM CHANNELS (CAV2.2) IN EXPERIMENTAL AUTOIMMUNE OPTIC NEURITIS DETECTED BY MRI AND IMMUNOCHEMISTRY  
*Il. Gadjanski, S. Boretius, T. Michaelis, J. Frahm, M. Bähr and R. Diem, Göttingen*
- T35-20A** CORTICAL REMODELLING IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS  
*E. Garea Rodriguez, D. Merkler, W. Brück and C. Stadelmann, Göttingen*
- T35-21A** MECP2 DEFICIENCY IMPAIRS SYNAPTIC PLASTICITY BUT DOES NOT MODULATE HIPPOCAMPAL HYPOXIA-SENSITIVITY  
*M. Müller, Göttingen*
- T35-22A** MULTI ELECTRODE RECORDINGS IN BRAIN SLICES OF SUBSTANTIA NIGRA PARS RETICULATA  
*GA. Makosch, JB. Schulz and BH. Falkenburger, Göttingen*
- T35-23A** DELETION OF MECP2 DEPRESSES GABAERGIC SYNAPTIC TRANSMISSION IN EARLY POSTNATAL STAGE OF MOUSE  
*L. Medrihan, E. Tantalaki, G. Aramuni, I. Dudanova, M. Missler and W. Zhang, Göttingen*

## Friday

- T35-1B** VISUALISATION OF ALPHA-SYNUCLEIN AGGREGATES IN LIVING CELLS USING A PDZ-DOMAIN SUGGESTS INCREASED TOXICITY OF C-TERMINAL TRUNCATED ALPHA-SYNUCLEIN  
*F. Opazo, B. Falkenburger and JB. Schulz, Göttingen*
- T35-2B** BRAIN ENDOGENOUS IKB KINASE COMPLEX MODULATES COURSE OF DEMYELINATION  
*J. Raasch, G. van Loo, A. Mildner, D. Merkler, W. Brück, M. Pasparakis and M. Prinz, Göttingen and Monterotondo (IT)*
- T35-3B** GETTING A GRIP OF CLN3: A TRANSPOSOMICS APPROACH TO JUVENILE NEURONAL CEROID LIPOFUSCINOSIS  
*M. Ruonala, E. Ratajczak, M. Moritz, J. Schumacher, S. Cotman and F. Wouters, Göttingen and Boston (USA)*

- T35-4B** FLUPIRTINE AS A NEUROPROTECTIVE ADD-ON THERAPY IN A RAT MODEL OF AUTOIMMUNE OPTIC NEURITIS  
*MB. Sättler, SK. Williams, J. Pehlke, M. Otto, M. Bähr and R. Diem, Göttingen and Ulm*
- T35-5B** BAG1 REDUCES HUNTINGTIN AGGREGATION  
*K. Sroka, J. Liman, JC. Reed, M. Bähr and P. Kermer, Göttingen and La Jolla (USA)*
- T35-6B** STUDYING MUTANT SOD1 DETOXIFICATION MECHANISMS IN INTACT SINGLE CELLS  
*J. Weishaupt, S. Ganesan, G. Rohde, K. Sroka, CP. Dohm, JC. Reed, P. Kermer, F. Wouters and M. Bähr, Göttingen, Washington (USA) and La Jolla (USA)*
- T35-7B** MODULATION OF RAT HIPPOCAMPAL NEURONS BY H<sub>2</sub>O<sub>2</sub>-MEDIATED OXIDATIVE STRESS  
*F. Gerich and M. Müller, Göttingen*
- T35-8B** DISTINCT CHANGES IN THE SPATIAL AND TEMPORAL EXPRESSION PATTERN OF CONNEXIN30, CONNEXIN43 AND CONNEXIN36 IN THE HIPPOCAMPUS OF BORNA DISEASE VIRUS INFECTED RATS  
*C. Koester-Patzlaff and B. Reuss, Göttingen*
- T35-9B** ERYTHROPOIETIN IMPROVES BEHAVIORAL READOUTS OF COGNITION: INFLUENCE ON NEUROPLASTICITY AND NEURONAL SURVIVAL  
*D. Sargin, K. Radyushkin, I. Hassouna, S. Sperling, N. Govindarajan, K. Hannke, AL. Sirén and H. Ehrenreich, Göttingen and Würzburg*
- T35-10B** THE FUNCTIONAL ROLES OF NEUROLIGINS AND NEUREXINS IN THE POSTNATAL MATURATION OF SYNAPTIC FUNCTION  
*A. Stradomska, F. Varoqueaux, N. Brose and W. Zhang, Göttingen*
- T35-11B** THE ROLE OF CELLULAR PRION PROTEIN FOR NEURONAL SURVIVAL UNDER AUTOIMMUNE INFLAMMATORY CONDITIONS  
*S. Williams, K. Maier, M. Sättler, U. Kalinke, W. Schulz-Schaeffer, U. Heinemann, I. Zerr, M. Bähr and R. Diem, Göttingen and Frankfurt/M.*
- T35-12B** ALTERATIONS IN NEURONS OF THE ENTERIC NERVOUS SYSTEM IN THE LARGE INTESTINE OF TRANSGENIC MICE EXPRESSING ALPHA-SYNUCLEIN FROM THE PLATELET-DERIVED GROWTH FACTOR (PDGF) PROMOTER  
*I. Keserac, I. Lang and MA. Pabst, Graz (AT)*
- T35-13B** EPILEPTIC SEIZURES AND HIPPOCAMPAL DAMAGE AFTER CUPRIZONE-INDUCED DEMYELINATION IN MICE  
*K. Hoffmann, M. Lindner, M. Stangel and W. Löscher, Hannover*
- T35-14B** EFFECT OF CHRONIC IMPLANTATION OF NEURO-STIMULATION ELECTRODES INTO THE CENTRAL PIRIFORM CORTEX ON EPILEPTOGENESIS AND BEHAVIOR IN THE RAT KINDLING MODEL OF TEMPORAL LOBE EPILEPSY  
*S. Kückner, MG. Behrendt, W. Prutner, K. Töllner and M. Gernert, Hannover*



- T35-15B** HISTOLOGICAL AND ELECTROPHYSIOLOGICAL ANALYSIS OF SHORT AND LONG TERM IMPLANTATION OF AUDITORY MIDBRAIN ELECTRODES IN THE COLLICULUS INFERIOR  
*G. Reuter, U. Reich, A. Stan, N. Marquardt, G. Paasche, J. Patrick, T. Lenarz and M. Lenarz, Hannover and Sydney (AU)*
- T35-16B** MESSENGER RNA AND PROTEIN EXPRESSION OF COMPONENTS OF THE NRF-ARE SIGNALING PATHWAY IN POST MORTEM TISSUE OF AMYOTROPHIC LATERAL SCLEROSIS (ALS) PATIENTS  
*CA. Sarlette, C. Grothe, R. Dengler, K. Krampfl and S. Petri, Hannover*
- T35-17B** FIBROBLAST-GROWTH FACTOR 2 (FGF-2) HAS ANTI-DEPRESSANT PROPERTIES IN AN ANIMAL MODEL OF DEPRESSION  
*O. von Bohlen und Halbach, B. Legutko, J. Jarosik and K. Unsicker, Heidelberg and Krakow (PL)*
- T35-18B** *IN VIVO* VOLTAGE SENSITIVE DYE IMAGING IN A MOUSE MODEL OF A HUMAN GENETIC EPILEPSY  
*JJ. Witsch, D. Golkowski, S. Petrou and H. Spors, Heidelberg and Melbourne (AU)*
- T35-19B** DISTRIBUTION OF LEUCINE-RICH-REPEAT-KINASE-2 (LRRK2), A NOVEL MEMBER OF THE RAS/GTPASE SUPERFAMILY, IN THE DEVELOPING AND ADULT MURINE BRAIN  
*S. Zechel, A. Schober, K. Unsicker and O. von Bohlen und Halbach, Heidelberg*
- T35-20B** PROFILING THE TRANSCRIPTOMIC CONSEQUENCES IN THE EMBRYONIC MOUSE BRAIN OF NEUREGULIN-1 DEFICIENCY AS A SCHIZOPHRENIA MODEL  
*P. Kaiser, L. Dahm and F. Weth, Jena*
- T35-21B** STATIN-MEDIATED NEUROPROTECTIVE EFFECTS ON RETINAL GANGLION CELLS AFTER ACUTE ISCHEMIA/ REPERFUSION INVOLVE INCREASE OF  $\beta$ B-CRYSTALLIN AND HSP27 EXPRESSION AND MODULATION OF CASPASE LEVELS  
*CW. Schmeer, S. Tausch, O. Witte and S. Isenmann, Jena*
- T35-22B** TAU-INDUCED REORIENTATION OF MICROTUBULES POLARITY LEADS TO AXONAL TRAFFIC JAMS AND NEURODEGENERATION  
*O. Shemesh, H. Erez, I. Ginzburg and ME. Spira, Jerusalem (IL) and Rehovot (IL)*

## Saturday

- T35-1C** SUITABILITY OF A FOOD-CARRYING TASK TO EVALUATE LESION-DEPENDENT DEFICITS IN DECISION-MAKING IN RATS (*RATTUS NORVEGICUS*)  
*F. Jung, G. Mies, R. Graf and H. Endepols, Köln*
- T35-2C** AXOTROPHIN A RING-VARIANT DOMAIN PROTEIN ACTS AS E3-UBIQUITIN-LIGASE AND UBIQUITINATES THE MICROTUBULE-ASSOCIATED PROTEIN TAU  
*K. Flach, F. Albrecht, E. Ramminger, A. Werner, T. Arendt and M. Holzer, Leipzig*

- T35-3C** TAU PHOSPHORYLATION IN HIBERNATING HAMSTERS: SELECTIVE VULNERABILITY OF CHOLINERGIC BASAL FOREBRAIN NEURONS - IMPLICATIONS FOR ALZHEIMER'S DISEASE  
*W. Härtig, J. Stieler, AS. Boerema, J. Wolf, U. Schmidt, J. Weißfuß, T. Bullmann, AM. Strijkstra and T. Arendt, Leipzig and Groningen (NL)*
- T35-4C** TAU-PROTEIN HYPERPHOSPHORYLATION IN HIBERNATING HAMSTERS (*MESOCRICETUS AURATUS*)  
*J. Stieler, T. Bullmann, W. Härtig and T. Arendt, Leipzig*
- T35-5C** SHIFT IN SPIKE PATTERNS IN PROJECTION NEURONS OF THE MOUSE LATERAL AMYGDALA FOLLOWING STATUS EPILEPTICUS  
*SA. Graebenitz, L. Sosulina, J. Lesting, M. Geiger, T. Seidenbecher and HC. Pape, Münster*
- T35-6C** ABSENCE OF RET SIGNALING IN MICE CAUSES PROGRESSIVE AND LATE DEGENERATION OF THE NIGROSTRIATAL SYSTEM  
*L. Aron, E. Kramer, GMJ. Ramakers, S. Seitz, X. Zhuang, K. Beyer, MP. Smidt and R. Klein, Martinsried-Munich, Utrecht (NL), Chicago (USA) and München*
- T35-7C** APOPTOSIS INDUCING FACTOR (AIF) IS ESSENTIAL FOR NEURONAL CELL DEATH *IN VITRO* AND *IN VIVO*  
*N. Plesnila, C. Zhu, M. Hoehn, S. Landshamer, U. Mamrak, K. Blomgren and C. Culmsee, München and Goeteborg (SE)*
- T35-8C** PIFITHRIN PROTECTS BRAIN TISSUE AFTER TRAUMA WITH A WIDE THERAPEUTIC WINDOW BY INHIBITION OF P53 AND ACTIVATION OF NF-KB  
*L. von Baumgarten, C. Culmsee, M. Retiounskaia, D. Engel and N. Plesnila, München*
- T35-9C** NEURAL ACTIVITY OF THE VENTRAL LATERAL NUCLEUS AROUND ACTIVE ELECTRODE CONTACTS IN MOVEMENT DISORDERS  
*DM. Weinert, W. Hamel, D. Müller, J. Herzog and J. Volkmann, Plauen, Hamburg and Kiel*
- T35-10C** THE UP-REGULATION OF ACETYLCHOLINESTERASE AND BUTYRYLCHOLINESTERASE ACTIVITY IN RAT BRAIN ARE RELATED TO BEHAVIOUR DISTURBANCES IN THE COURSE OF EXPERIMENTAL BREAST CANCER  
*W. Kozubski, S. Michalak, M. Szulc, M. Wieczorek, M. Medon, L. Luczak, A. Rybarczyk, M. Gorka, W. Ambrosius and K. Osztynowicz, Poznan (PL)*
- T35-11C** ANTI-GAD AND IA-2 ANTIBODIES IN NEURO-IMMUNOLOGICAL DISEASES  
*S. Michalak, L. Jernas, E. Tokarz-Kupczyk, H. Wygladalska, K. Osztynowicz and W. Kozubski, Poznan (PL)*
- T35-12C** THE DEPLETION OF TUMOR NECROSIS FACTOR - ALPHA IN MACROPHAGES OF MIGRAINE PATIENTS  
*D. Wegrzyn, S. Michalak, W. Kozubski and E. Kaczmarek, Poznan (PL)*



- T35-13C** LYSOSOMAL DEGRADATION AND ALPHA-SYNUCLEIN AGGREGATION AND TOXICITY  
*J. Klucken, P.J. McLean, J. Winkler and B.T. Hyman, Regensburg, Bostob (USA) and Boston (USA)*
- T35-14C** ERP COMPUTATIONAL METHODS IN TINNITUS DE-COMPENSATION  
*CA. Trenado, YF. Low, W. Delb, R. D'Amelio and DJ. Strauss, Saarbrücken*
- T35-15C** DEHYDROEPIANDROSTERONE SULFATE IS NEURO-PROTECTIVE IN A FOCAL CORTICAL COLD LESION MODEL  
*T. Farkas, G. Juhasz-Vedres, E. Rozsa, G. Rakos, Z. Kis, J. Wolfing and J. Toldi, Szeged (HU)*
- T35-16C** NEUROPROTECTIVE EFFECTS OF REPEATED TRANS-IENT GLOBAL ISCHEMIA AND OF KYNURENINE AD-MINSITRATION INDUCED BY FOUR-VESSEL OCCLU-SIONS ON HIPPOCAMPAL CA1 NEURONS  
*J. Toldi, H. Robotka, T. Kopcsanyi, K. Sas, G. Rakos, Z. Kis, T. Farkas, M. Marosi, L. Vecsei, E. Racekova and J. Burda, Szeged (HU) and Kosice (SK)*
- T35-17C** SALICYLATE AND PURE TONE TRAUMA AND BAND NOISE TRAUMA INDUCE TINNITUS IN A RAT BEHA- VIOURAL MODEL  
*L. Rüttiger and M. Knipper, Tübingen*
- T35-18C** SOLUBLE AMYLOID ASSEMBLIES: MECHANISM OF FORMATION, BIOLOGICAL ACTIVITY AND NOVEL AROMATIC PEPTIDE AGENTS FOR INHIBITION  
*A. Marom-Frydman, M. Recther, I. Shefler and E. Gazit, Tel Aviv (IL)*
- T35-19C** APPROACHES TO AUDITORY BRAIN-COMPUTER INTERFACES FOR COMMUNICATION WITH LOCKED-IN PATIENTS WITHOUT VISION  
*F. Nijboer, A. Furdea, I. Gunst, T. Matuz, E. Sellers, N. Birbaumer and A. Kubler, Tübingen and Albany (USA)*
- T35-20C** CALCIUM BINDING PROTEIN SECRETAGOGIN EX- PRESSION IN THE HUMAN HIPPOCAMPUS IS RE- STRICTED TO PYRAMIDAL NEURONS AND INDEPEN- DENT OF CONCOMITANT ALZHEIMER DISEASE PA- THOLOGY  
*J. Attems, M. Grosinger-Quass, L. Wagner, F. Lintner and K. Jellinger, Vienna (AT)*
- 35-21C** FUNCTIONAL CHARACTERIZATION OF MICE LACKING THE DOPAMINE TRANSPORTER – A MOUSE MODEL FOR ATTENTION-DEFICIT/HYPERACTIVITY DISORDER (ADHD)  
*AG. Schmitt, E. Grünblatt, SL. Nietzer, FS. Hall, G. Ortega, GR. Uhl, M. Gerlach and KP. Lesch, Würzburg and Baltimore (USA)*
- T35-22C** THALAMIC LFP AND SCALP EEG IN PATIENTS WITH PARKINSON'S DISEASE  
*M. Moazami-Goudarzi, J. Sarnthein and D. Jeanmonod, Zurich (CH)*



## T36: Neuroimmunology

### Thursday

- T36-1A** NUCLEOSIDE ANALOGUES EFFECT ON GLIAL RESPONSE IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS  
*D. Stojkov, I. Lavrnja, S. Pekovic, S. Dacic, S. Jovanovic, I. Nikic, I. Bjelobaba, M. Mostarica-Stojkovic, S. Stosic-Grujicic, L. Rakic and M. Stojiljkovic, Belgrade (CS)*
- T36-2A** A PERIPHERAL MONONEUROPATHY IN RAT PRODUCES ASCENDING INFLAMMATORY REACTIONS IN THE SPINAL CORD  
*A. Leichsenring, M. Andriske, H. Lübbert and CC. Stichel, Bochum and Leverkusen*
- T36-3A** SCHWANN CELLS AS ANTIGEN PRESENTING CELLS IN INFLAMMATORY NEUROPATHIES  
*G. Meyer zu Hörste, HP. Hartung, H. Wiendl and BC. Kieseier, Düsseldorf and Würzburg*

### Friday

- T36-1B** MULTIPLE SCLEROSIS-LIKE GREY MATTER LESIONS INDUCED BY IMMUNIZATION WITH A NEURONAL ANTIGEN AND TRANSFER OF DEMYELINATING ANTIBODIES  
*A. Escher, D. Merkler, A. Rohde, R. Diem, W. Brück and C. Stadelmann, Göttingen*
- T36-2B** ROLE OF THE CHEMOKINE RECEPTOR CXCR2 DURING REMYELINATION  
*M. Lindner, S. Heine and M. Stangel, Hannover*
- T36-3B** EXPRESSION OF APOBEC3G AND RELATED HYPERMUTATIONS IN VIRAL DNA IS INCREASED IN PRIMATE BRAIN DURING SIMIAN IMMUNODEFICIENCY VIRUS INFECTION  
*C. Depboylu, LE. Eiden and E. Weihe, Marburg and Bethesda (USA)*

### Saturday

- T36-1C** INTERLEUKIN-2 IN THE STRIATUM AFFECTS BEHAVIOUR IN RATS  
*BD. Karrenbauer, J. Lohn, RKW. Schwarting and CR. Pawlak, Marburg and Mannheim*
- T36-2C** SEX HORMONES AS MODULATORS OF INFLAMMATORY PROCESSES IN ALZHEIMER'S DISEASE  
*M. Behrendt, MR. Sairam and D. Maysinger, Montreal (CA)*
- T36-3C** ANALYSIS OF LOW-LEVEL MOTOR CONTROL IN TETHERED FLYING *DROSOPHILA*  
*CF. Graetzel, M. Moser and SN. Fry, Zürich (CH)*



## T37: Computational neuroscience

### Thursday

- T37-1A** FUNDAMENTAL FILTER PROPERTIES OF SPIKING NEURONS CONSTRAIN DETECTABILITY OF COMMUNICATION SIGNALS IN WEAKLY ELECTRIC FISH  
*J. Benda, A. Longtin and L. Maler, Berlin and Ottawa (CA)*
- T37-2A** CONTRIBUTION OF INTERNEURON PROPERTIES TO THE GENERATION OF THETA OSCILLATIONS IN THE RAT HIPPOCAMPAL FORMATION *IN VITRO*  
*A. Boehlen, A. Kunert, A. Herz and U. Heinemann, Berlin*
- T37-3A** MEMORY LIFETIME DEPENDS ON SYNAPTIC METAPLASTICITY AND THE SIZE OF CELL ASSEMBLIES  
*C. Leibold and R. Kempter, Berlin*
- T37-4A** HOW NEURONS COULD SWITCH FROM AN INTEGRATOR TO A RESONATOR AND CHANGE THEIR SYNCHRONIZATION PROPERTIES  
*U. Roehner and J. Benda, Berlin*
- T37-5A** A MODEL FOR OBJECT DETECTION IN THE VISUAL SYSTEM OF THE FLY  
*P. Hennig, R. Möller and M. Egelhaaf, Bielefeld*
- T37-6A** NEURONAL TENSION MAY CO-SHAPE V1 ORIENTATION MAPS  
*C. Weber and J. Triesch, Frankfurt/M.*
- T37-7A** SEIZURE PREDICTION: EVALUATION OF A COMBINATION OF PREDICTION METHODS  
*H. Feldwisch genannt Drentrup, B. Scheller, J. Nawrath, J. Wohlmuth, A. Brandt, A. Schulze-Bonhage and J. Timmer, Freiburg*
- T37-8A** LEARNING FUNCTIONAL CONNECTIVITY IN NEURONAL CULTURES  
*T. Gürel, K. Kersting, S. Kandler, U. Egert, S. Rotter and L. De Raedt, Freiburg*
- T37-9A** A MODEL FOR CORRELATION DETECTION BASED ON  $Ca^{2+}$  CONCENTRATION IN SPINES  
*M. Helias, S. Rotter, M.O. Gewaltig and M. Diesmann, Freiburg, Offenbach and Wako (JP)*
- T37-10A** ADDING STRUCTURE TO *IN VITRO* NEURONAL NETWORKS  
*S. Kandler, A. Wörz, S. Okujeni, A. Aertsen, J. Rühle and U. Egert, Freiburg*
- T37-11A** EIGENSYSTEMS AND DYNAMICS OF COMPLEX NETWORKS OF EXCITATORY AND INHIBITORY NEURONS  
*B. Kriener, A. Aertsen and S. Rotter, Freiburg*
- T37-12A** MODELING THE DYNAMICS OF HIGHER-ORDER CORRELATIONS IN FEED-FORWARD NETWORKS  
*D. Reichert, T. Tetzlaff, A. Aertsen and M. Diesmann, Freiburg*
- T37-13A** SPOTTING HIGHER-ORDER SPIKE PATTERNS WITH LOW-ORDER MEASURES  
*S. Rotter, B. Staude and S. Grün, Freiburg and Wako (JP)*

## Friday

- T37-1B** TIME SCALE DEPENDENCE OF NEURONAL CORRELATIONS  
*T. Tetzlaff, S. Rotter, A. Aertsen and M. Diesmann, Freiburg*
- T37-2B** CORTICAL NETWORKS WITH LONG-RANGE PATCHY CONNECTIONS  
*N. Voges, C. Guijarro, A. Aertsen and S. Rotter, Freiburg*
- T37-3B** TIMING ERRORS IN A DYNAMICAL MODEL OF TEMPORAL PROCESSING  
*J. Hass, JM. Herrmann, S. Blaschke and T. Rammesayer, Göttingen*
- T37-4B** ANTICIPATIVE ADAPTIVE CONTROL OF MUSCLES USING RECRUITMENT  
*C. Kolodziejcki, B. Porr and F. Wörgötter, Göttingen and Glasgow (UK)*
- T37-5B** IMAGE PROCESSING IN THE SNAKE INFRA-RED SENSORY SYSTEM  
*P. Friedel, AB. Sichert and JL. van Hemmen, Garching /München*
- T37-6B** MODELLING THE SUBCORTICAL NUCLEI OF THE LIMBIC SYSTEM TO PERFORM REVERSAL LEARNING  
*MA. Thompson, B. Porr, F. Woergötter and L. McCabe, Glasgow (UK) and Göttingen*
- T37-7B** DEVELOPMENT OF PLACE FIELDS AND GOAL NAVIGATION IN A CLOSED LOOP SCENARIO  
*T. Kulvicius, M. Tamosiunaite and F. Woergötter, Göttingen and Kaunas (LT)*
- T37-8B** NEURONAL CONTROL AND LEARNING FOR ADAPTIVE, FAST DYNAMIC WALKING OF THE BIPED ROBOT "RUNBOT"  
*P. Manoonpong, T. Geng and F. Wörgötter, Göttingen and Colchester (UK)*
- T37-9B** MODELLING SCHEMA GENERATION AND STOCHASTIC ADAPTATION IN GOAL DIRECTED ARM MOVEMENTS  
*AG. Fleischer, Hamburg*
- T37-10B** THE EVOLUTION OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY AS APPLIED TO SPINAL CORD INJURY RESEARCH  
*C. Levine, Hollywood (USA)*
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## **Next Meeting**

**8<sup>th</sup> GÖTTINGEN MEETING OF THE GERMAN  
NEUROSCIENCE SOCIETY**

**32<sup>th</sup> GÖTTINGEN NEUROBIOLOGY  
CONFERENCE**

**March 25 - 29, 2009**

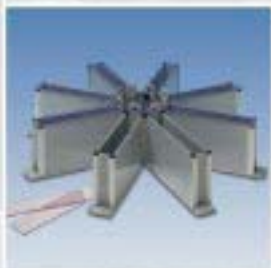
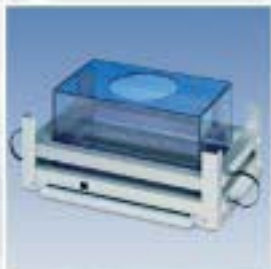


# Program at a glance

Wednesday	Thursday	Friday	Saturday	Sunday
	Registration	Registration	Registration	Registration
	Symposia I 51 - 56	Symposia II 57 - 512	Symposia III 513 - 518	Symposia IV 519 - 524
14:00 - 18:15 Satellite Symposium I	Posters A <small>(all numbers)</small>	Posters B <small>(all numbers)</small>	Assembly MWG	Benedickt Grothe
15:00 - 18:00 Satellite Symposium II	Posters A <small>(even numbers)</small>	Posters B <small>(even numbers)</small>	Posters C <small>(all numbers)</small>	
14:00 - 19:00 Satellite Symposium III	Opening Ceremony	Thomas Misgeld Werner Goebel	Posters C <small>(even numbers)</small>	
	Christof Niehrs	Posters B <small>(all numbers)</small>	Gilles Laurent	
	Posters A <small>(all numbers)</small>	Posters B <small>(even numbers)</small>	Posters C <small>(all numbers)</small>	
	Posters A <small>(even numbers)</small>	Posters B <small>(even numbers)</small>	Posters C <small>(even numbers)</small>	
	Mans Lossmann	Buffet	Buffet	
	Buffet	Rodolfo Llinas	Uwe Heinemann	
	Niels Birbaumer			
	21:00			
				Neuro-Disco-Night



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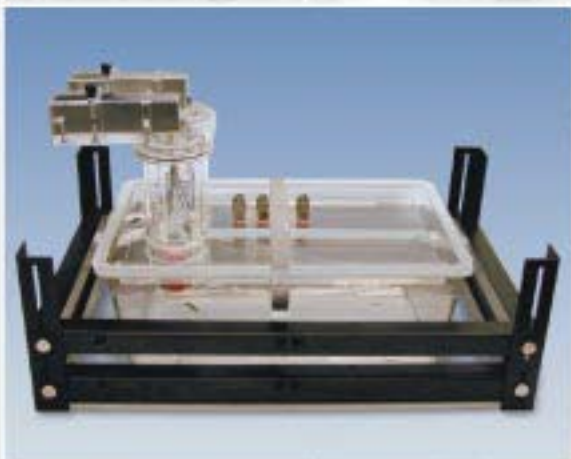
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