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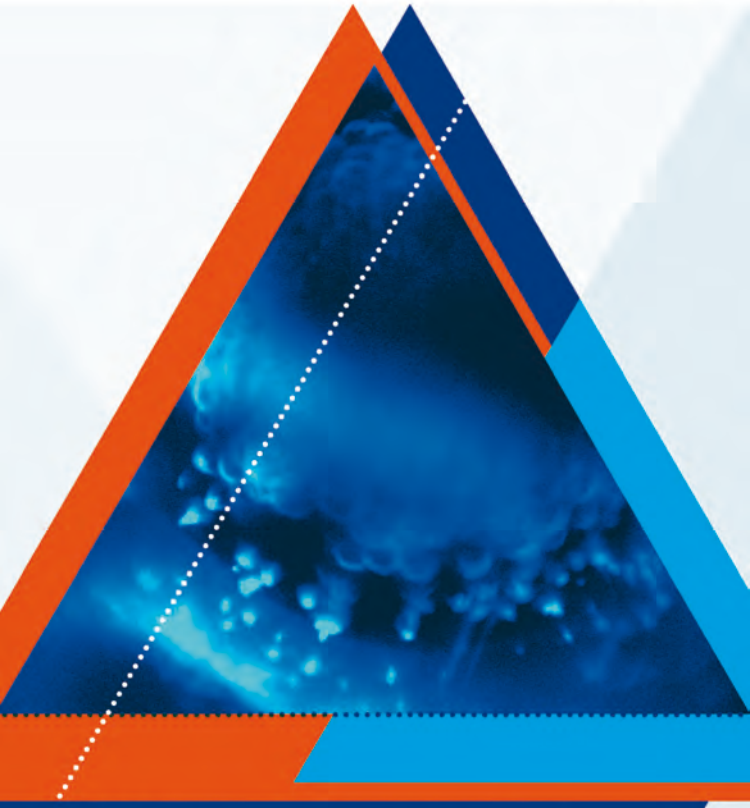

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Program

10th Göttingen Meeting of the German Neuroscience Society

34th Göttingen Neurobiology Conference

March 13 - 16, 2013

Neurowissenschaftliche Gesellschaft

Table of Contents

Welcome Address

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

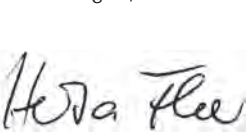
TILL Photonics and the Schilling Foundation, but also all other sponsors, and especially the companies which present their products in the foyer, for their generous support of the meeting. Without them many amenities such as the free buffets and the Neuro-Party night would not have been possible! We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

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

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

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

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



Prof. Dr. Herta Flor

Prof. Dr. Inga Zerr

Acknowledgement

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

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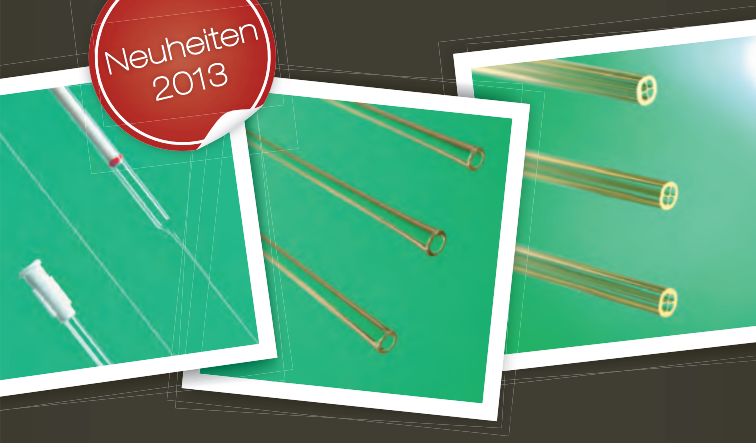

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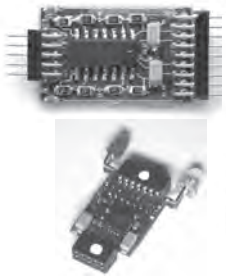

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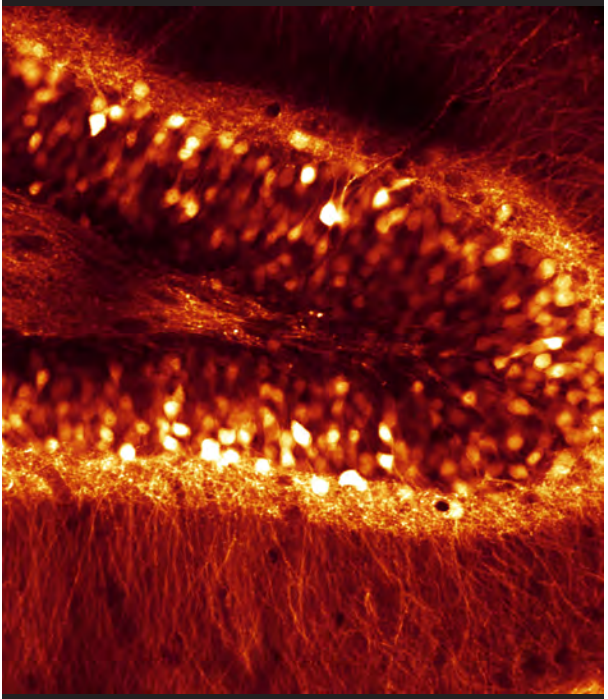

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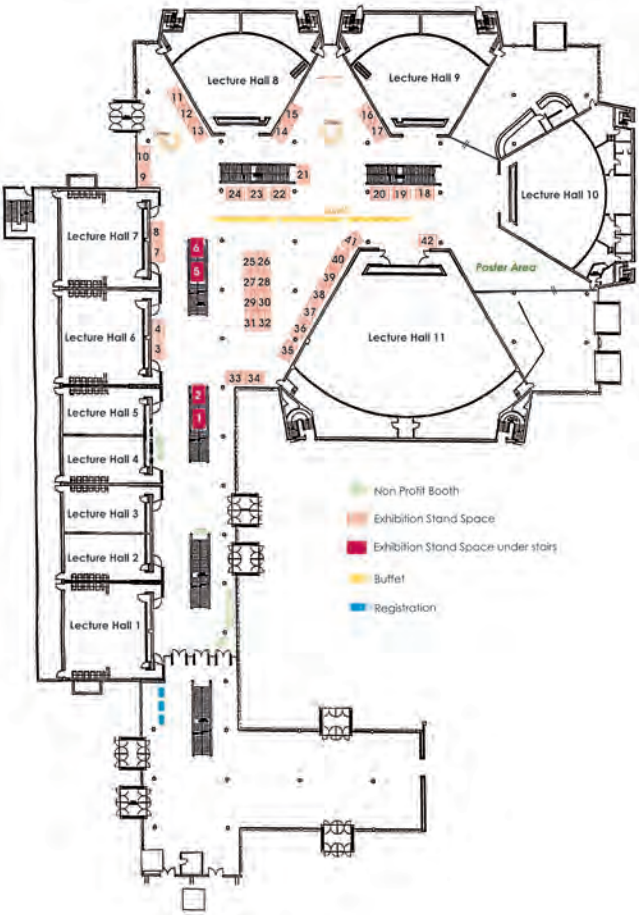

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This award supports young researchers of an age under 35. The sum awarded is 2.500 Euro. Qualified research is reflected in outstanding publications. Eligible are scientists either working in a German laboratory or she/he is a German native working abroad. Applications from all fields of neuroscience research are invited. The candidate either applies directly for the award or is nominated by another person. Being a member of the German Neuroscience Society is not mandatory.
The prize was given for the first time in 2003. It is awarded during the Congress of the German Neuroscience Society in Göttingen.

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

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

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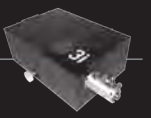

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Stefan Treue
Fred Wolf

Scientific Organization

Herta Flor
Zentralinstitut für Seelische Gesundheit
der Universität Heidelberg

Local Organization

Mathias Bähr
Inga Zerr
Maja Schneider-Dominco

Universitätsklinik Göttingen
Neurologie
Robert-Koch-Str. 40
37075 Göttingen
Tel.: +49 551 39 6636; Fax: +49 551 39 7020
E-Mail: demenzzentrum@med.uni-goettingen.de

NWG Office

Geschäftsstelle der Neurowissenschaftlichen Gesellschaft e.V.
Stefanie Korthals/Meino Alexandra Gibson
Max Delbrück Center for Molecular Medicine (MDC)
Robert-Rössle-Str. 10
13125 Berlin
Tel.: +49 30 9406 3127, Fax: +49 30 9406 2813
E-Mail: korthals@mdc-berlin.de / gibson@mdc-berlin.de

Homepage

www.nwg-goettingen.de

Scientifica

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PatchStar

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General Information

Venue

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

Conference Office

During the meeting the conference office is open on Wednesday, March 13, from 9 a.m. to 9 p.m., on Thursday, March 14 and Friday, March 15, from 8 a.m. to 7 p.m. and on Saturday, March 16, from 8 a.m. to 5 p.m.

Phone: +49 551 39 9594
Fax: +49 551 39 9596
E-Mail: demenzzentrum@med.uni-goettingen.de

Exhibition

The exhibition is open on Wednesday, March 13 from 12 p.m. to 7 p.m., on Thursday, March 14, from 9 a.m. to 6 a.m. and on Friday, March 15 from 9 a.m. to 1.30 p.m.

Public Transportation and Travel

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

Registration

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

Registration fee ALL days:

EUR 160 - FENS or GNS **members**
EUR 240 - **non-members**

EUR 120 - **student members** of FENS or GNS
EUR 160 - **student non-members**

Registration fee PER day:

EUR 40 - FENS or GNS **members**
EUR 60 - **non-members**

EUR 30 - **student members** of FENS or GNS
EUR 40 - **student non-members**

Map of Göttingen

Students must show a copy of their student identity card!

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

Lunch

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

Internet Access

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

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

Poster Presentations

Each poster will hang for one day. Posters with poster numbers containing A will hang on Wednesday, posters with poster numbers containing B will hang on Thursday, posters with poster numbers containing C will hang on Friday, and posters with poster numbers containing D will hang on Saturday (see also explanation on page 102).

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

Posters with numbers containing A
Wednesday, March 13, 2013
(hanging of posters: before 13:30)

13:30 - 14:15 odd serial numbers (e.g. T20-**1**A)
14:15 - 15:00 even serial numbers (e.g. T20-**2**A)

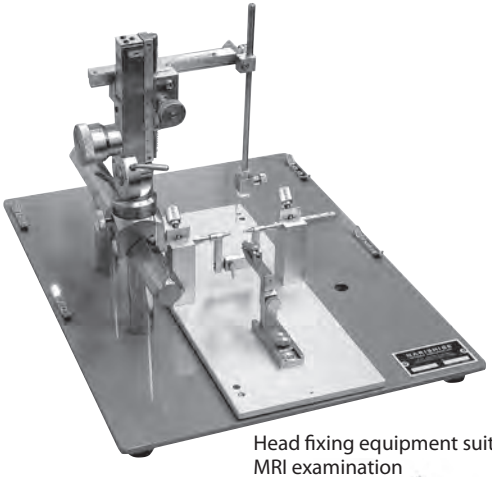
19:00 - 19:45 odd serial numbers (e.g. T20-**1**A)
19:45 - 20:30 even serial numbers (e.g. T20-**2**A)

(all posters must be removed the same day)

NARISHIGE JAPAN **NARISHIGE**

Q: How do Narishige's stereotaxic instruments perform?

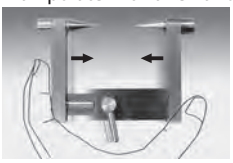
A: Easily, reliably, smoothly and softly.



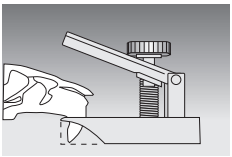
Head fixing equipment suitable for MRI examination

SRP-AM/SRP-AR

Auxiliary ear bar that's easy to manipulate with one hand



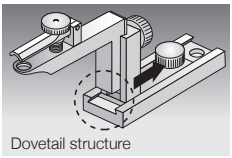
Small, thin mouth clamp



Firm yet gentle fixing of the delicate spinal cord

STS-A

Smooth position adjustment movement



Precise adjustment mechanism for mice and new-born rats

SRS-A

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Posters with numbers containing B
Thursday, March 14, 2013
(hanging of posters: before 13:00)

13:00 - 13:45 odd serial numbers (e.g. T20-**1**B)
13:45 - 14:30 even serial numbers (e.g. T20-**2**B)

15:30 - 16:15 odd serial numbers (e.g. T20-**1**B)
16:15 - 17:00 even serial numbers (e.g. T20-**2**B)

(all posters must be removed immediately after 17:00)

Posters with numbers containing C
Friday, March 15, 2013
(hanging of posters: before 13:00)

13:00 - 13:45 odd serial numbers (e.g. T20-**1**C)
13:45 - 14:30 even serial numbers (e.g. T20-**2**C)

15:30 - 16:15 odd serial numbers (e.g. T20-**1**C)
16:15 - 17:00 even serial numbers (e.g. T20-**2**C)

(all posters must be removed immediately after 17:00)

Posters with numbers containing D
Saturday, March 16, 2013
(hanging of posters: before 11:30)

11:30 - 12:15 odd serial numbers (e.g. T20-**1**D)
12:15 - 13:00 even serial numbers (e.g. T20-**2**D)

14:30 - 15:15 odd serial numbers (e.g. T20-**1**D)
15:15 - 16:00 even serial numbers (e.g. T20-**2**D)

(all posters must be removed the same day)

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

You can easily find your poster using the online itinerary planner (www.nwg-goettingen.de/2013) or with the auhors' index in this program booklet.

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

Projection

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

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

If you have special requirements regarding projection, please let us know by February 25, 2013, at the latest (contact: demenzzentrum@med.uni-goettingen.de).

All such requests will be collected up to that date, after which you will be informed about possible options.

Language

The official language of this meeting is English.

Hotels

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

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

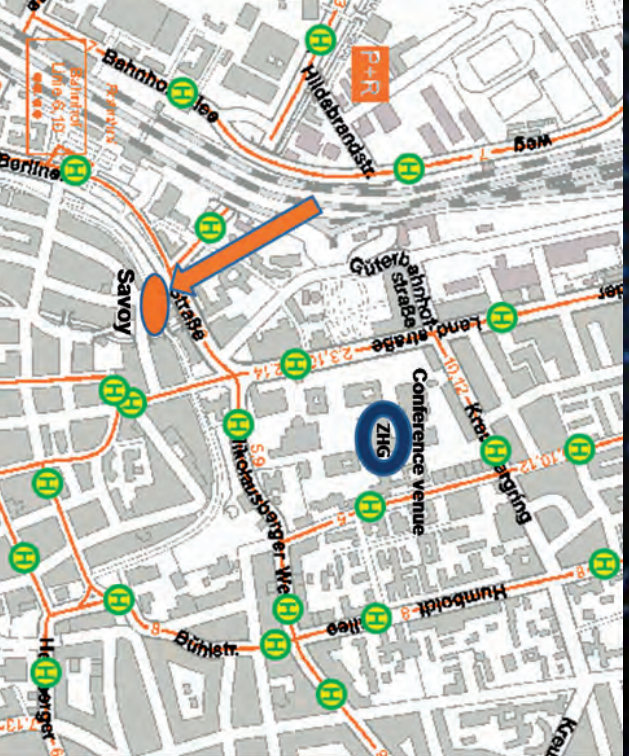
Tel.: +49 30 302 5002
Fax: +49 30 301 9768
E-Mail: annemarie.vanderhoff@der.de

Insurance

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

Electricity Supply

220 V - 50 Hz AC.



Neuro-Party

Thursday, March 14th

Come together
after the
scientific
program
at
9:00 p.m.
Savoy Club
Göttingen
www.club-savoy.de
Berliner Str. 5

Free entrance for all participants, others 3,30 €
Happy hour from 9-10 p.m.

Scientific Program

Tuesday, March 12, 2013

13:00 - 19:00 *Satellite Symposium, Lecture hall of MPI for Experimental Medicine*
3rd Schram Foundation Symposium „Neuronal differentiation, synapses and neural circuits"
Chair: Renato Frischknecht and Alexander Gottschalk, Magdeburg and Frankfurt/Main

Wednesday, March 13, 2013

12:30 - 13:30 **Plenary Lecture, Hall 11**
Opening Lecture
Haim Sompolinsky, Jerusalem (Israel)
Computational principles for cortical circuits
Chair: Herta Flor, Mannheim

13:30 - 15:00 **Poster Session I: Posters A**
13:30 - 14:15 Odd serial numbers
14:15 - 15:00 Even serial numbers

15:00 - 18:00 **Symposia I (S1 - S6)**
15:00 - 18:00 *Symposium 1, Hall 102*
The cholinergic system and visual attention: From animal to man
Chair: Christiane Thiel and Gregor Rainer, Oldenburg and Fribourg (Switzerland)

15:00 - 18:00 *Symposium 2, Hall 105*
Local synaptic coding in the retina
Chair: Tom Baden, Timm Schubert and Thomas Euler, Tübingen

15:00 - 18:00 *Symposium 3, Hall 10*
The computational role of the hippocampus
Chair: Sen Cheng and Laurenz Wiskott, Bochum

15:00 - 18:00 *Symposium 4, Hall 9*
Non-invasive brain stimulation: mechanisms, effects and opportunities
Chair: Petra Henrich-Noack, Bernhard Sabel and Michael A. Nitsche, Magdeburg and Göttingen

15:00 - 18:00 *Symposium 5, Hall 104*
"The paradox of the critical period"– rejuvenating cortical networks
Chair: Siegrid Löwel and Fred Wolf, Göttingen

15:00 - 18:00 *Symposium 6, Hall 8*
Mouse models in hearing research: unraveling auditory processing from molecules to behaviour
Chair: Simone Kurt and Jutta Engel, Ulm and Homburg/Saar

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

19:00 - 20:30 **Poster Session II: Posters A**
19:00 - 19:45 Odd serial numbers
19:45 - 20:30 Even serial numbers

20:30 - 21:30 **Plenary Lecture, Hall 11**
Zülch Lecture
Thomas Gasser, Tübingen
Genetic architecture of Parkinson's disease
Chair: Mathias Bähr, Göttingen

Thursday, March 14, 2013

9:00 - *12:00* **Symposia II (S7 - S12)**
9:00 - 12:00 *Symposium 7, Hall 10*
Functional organization of presynaptic neurotransmitter release sites
Chair: Eckart Gundelfinger and Anna Fejtova, Magdeburg

9:00 - 12:00 *Symposium 8, Hall 8*
Neurochemical control of social behaviour in insects
Chair: Paul A. Stevenson and Ricarda Scheiner, Leipzig and Potsdam

9:00 - 12:00 *Symposium 9, Hall 9*
Timescales in neuronal population encoding and their biophysical basis
Chair: Andreas Neef, Göttingen

9:00 - 12:00 *Symposium 10, Hall 104*
Differential brain science: towards an understanding of interindividual variation
Chair: Axel Kohler and Erhan Genç, Münster and Bochum

9:00 - 12:00 *Symposium 11, Hall 105*
Serotonin: from brain development to behaviour - new insights from animal models
Chair: Natalia Alenina and Christian P. Müller, Berlin and Erlangen

9:00 - 12:00 *Symposium 12, Hall 102*
Cytoskeletal dynamics in neuronal migration
Chair: Marco Rust and Walter Witke, Kaiserslautern and Bonn

12:00 - 13:00 **Lunch Break**

12:00 - 13:00 **Assembly NWG (Hall 11)**

12:00 - 13:00 **DFG-Seminar**
Lecture Hall 101 and 1.141 (interviews)
Jan Kunze und Katarina Timofeev, DFG
Starting your research career - DFG funding programmes and application procedures

13:00 - 14:30 **Poster Session III: Posters B**
13:00 - 13:45 Odd serial numbers
13:45 - 14:30 Even serial numbers

14:30 - 15:30 **Awarding and Lectures, Hall 11**
14:30 - 15:00 Schilling Award Lecture
Nathalie Rochefort, *München*
Decoding the visual cortex
Chair: Andreas Draguhn, Heidelberg

15:00 - 15:30 TILL Photonics Technology Award Lecture
Ilka Diester, Frankfurt/Main
Optogenetics in non-human primates
Chair: Sigrun Korsching, Köln

15:30 - 17:00 **Poster Session IV: Posters B**
15:30 - 16:15 Odd serial numbers
16:15 - 17:00 Even serial numbers

17:00 - 18:00 **Cold Buffet in the Foyer**

18:00 - 19:00 **Plenary Lecture, Hall 11**
Hertie Foundation Lecture
Miguel Nicolelis, Durham (USA)
Principles of neural ensemble physiology
Chair: Andreas Engel, Hamburg

Friday, March 15, 2013

9:00 - 12:00 **Symposia III (S 13 - S 18)**
9:00 - 12:00 *Symposium 13, Hall 9*
Olfactory learning: from insects to machines
Chair: Martin Paul Nawrot and Thomas Nowotny, Berlin and Brighton, UK

9:00 - 12:00 *Symposium 14, Hall 105*
Molecular mechanisms and spreading of alpha-synuclein pathology in the brain
Chair: Tiago Outeiro and Jochen Klucken, Göttingen and Erlangen

9:00 - 12:00 *Symposium 15, Hall 8*
Cortical connectivity of crossmodal interactions
Chair: Till Schneider and Brigitte Röder, Hamburg

9:00 - 12:00 *Symposium 16, Hall 10*
Growing up in the brain: how do axons find their way?
Chair: Victor Tarabykin, Berlin

9:00 - 12:00 *Symposium 17, Hall 102*
Heterogeneity of microglia
Chair: Uwe-Karsten Hanisch and Susanne Wolf, Göttingen and Berlin

9:00 - 12:00 *Symposium 18, Hall 104*
Optodynamics of channels and receptors
Chair: Andrew Plested and Jana Kusch, Berlin and Jena

12:00 - 13:00 **Lunch Break**

12:00 - 13:00 **CARE Workshop, Hall 101**
Stefan Treue, Göttingen
Neuroscience research using animals: The legal, ethical and political situation

12:00 - 13:00 **Publishing Workshop, Hall 103**
Jean-Marc Fritschy and Helmut Kettenmann, Zurich (Switzerland) and Berlin
How to publish in neuroscience journals?

13:00 - 14:30 **Poster Session V: Posters C**
13:00 - 13:45 Odd serial numbers
13:45 - 14:30 Even serial numbers

14:30 - 15:30 **Plenary Lecture, Hall 11**
Norbert Elsner Lecture
Erin M. Schuman, Frankfurt/Main
Transcriptomes and Proteomes at Synapses
Chair: Stefan Treue, Göttingen

15:30 - 17:00 **Poster Session VI: Posters C**
15:30 - 16:15 Odd serial numbers
16:15 - 17:00 Even serial numbers

17:00 - 18:00 **Cold Buffet in the Foyer**

18:00 - 19:00 **Plenary Lecture, Hall 11**
Roger Eckert Lecture
Jason Kerr, Tübingen
What are they looking at? Imaging activity in the freely moving rodent from the eye to the cortex
Chair: Erwin Neher, Göttingen

Saturday, March 16, 2013

8:30 - 11:30 **Symposia IV (S 19 - S 24)**

8:30 - 11:30 *Symposium 19, Hall 10*
GABAergic mechanisms in neurobiology of disease
Chair: Jochen C. Meier and Günter Schwarz, Berlin and Köln

8:30 - 11:30 *Symposium 20, Hall 104*
Functional specializations of neuroglia as critical determinants of brain activity
Chair: Christine Rose and Frank Kirchhoff, Düsseldorf and Homburg

8:30 - 11:30 *Symposium 21, Hall 105*
Molecular mobility, a variable of neuronal communication
Chair: Martin Heine, Magdeburg

8:30 - 11:30 *Symposium 22, Hall 9*
Insect motor control "From ion channels to learning, movement, and robotics"
Chair: Roland Strauss and Carsten Duch, Mainz

8:30 - 11:30 *Symposium 23, Hall 102*
Purinergic signaling in sensory systems
Chair: Christian Lohr and Antje Grosche, Hamburg and Leipzig

8:30 - 11:30 *Symposium 24, Hall 8*
Practically profiting from the complexity of massively parallel electrophysiological data
Chair: Michael Denker and Sonja Grün, Jülich

11:30 - 13:00 **Poster Session VII: Posters D**
11:30 - 12:15 Odd serial numbers
12:15 - 13:00 Even serial numbers

13:00 - 13:30 **Lunch Break**

13:30 - 14:30 **Plenary Lecture, Hall 11**
Ernst Florey Lecture
Eve Marder, Waltham (USA)
Variability, compensation, modulation, and homeostasis in a rhythmic neuronal network
Chair: Monika Stengl, Kassel

14:30 - 16:00 **Poster Session VIII: Posters D**
14:30 - 15:15 Odd serial numbers
15:15 - 16:00 Even serial numbers

16:00 - 17:00 **Plenary Lecture, Hall 11**
Otto Creutzfeldt Lecture
Hannelore Ehrenreich, Göttingen
Shifting paradigms in neuropsychiatry
Chair: Helmut Kettenmann, Berlin

17:00 **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 Fördereinrichtungen und privaten Stiftungen und unterstützt die neurowissenschaftliche Ausrichtung der Förderprogramme der Europäischen Union. Sie fördert die Kontakte zur Industrie. Sie tritt für die Etablierung eines interdisziplinären neurowissenschaftlichen Ausbildungskonzepts ein. Bei all dem verfolgt sie ausschließlich gemeinnützige Zwecke.

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

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

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

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

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

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

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

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

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

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

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

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

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

Geschäftsstelle

Neurowissenschaftliche
Gesellschaft e.V.
Max-Delbrück-Centrum
für Molekulare Medizin
(MDC) Berlin-Buch
Robert-Rössle-Str. 10
13092 Berlin
Tel.: 030 9406 3336
Fax: 030 9406 2813
gibson@mdc-berlin.de
korthals@mdc-berlin.de

http://nwg.glia.mdc-berlin.de

Abbildung: Dr. Werner Zuschratter, Magdeburg

Sektionssprecher

Computational Neuroscience:
Fred Wolf
Entwicklung/Neurogenetik:
Michael Frotscher
Klinische Neurowissenschaften:
Mathias Bähr
Kognitive Neurowissenschaften:
Andreas Engel
Molekulare Neurobiologie:
Sigrun Korsching
Neuropharmakologie/-toxikologie:
Rainer Schwarting
Systemneurobiologie:
Stefan Treue
Verhaltensneurowissenschaften:
Monika Stengl
Zelluläre Neurobiologie:
Nils Brose

Vorstand der Amtsperiode 2011-2013

Präsident:
Herta Flor
Vizepräsident:
Helmut Kettenmann
Generalsekretär:
Ulrich Dirnagl
Schatzmeister:
Andreas Draguhn

Neurowissenschaftliche Gesellschaft

Plenary Lectures

Haim Sompolinsky, Jerusalem, Israel
- Opening Lecture -
Computational principles for cortical circuits (P1)
Wednesday, March 13, 2013, 12:30 – 13:30 h

Thomas Gasser, Tübingen
- Zülch Lecture -
Genetic architecture of Parkinson's disease (P2)
Wednesday, March 13, 2013, 20:30 – 21:30 h

Nathalie Rochefort, München
- Schilling Prize Lecture -
Decoding the visual cortex (P3)
Thursday, March 14, 2013, 14:30 – 15:00 h

Ilka Diester, Frankfurt/Main
- TILL Photonics Technology Award Lecture -
Optogenetics in non-human primates (P4)
Thursday, March 14, 2013, 15:00 – 15:30 h

Miguel Nicolelis, Durham, USA
- Hertie Foundation Lecture -
Principles of Neural Ensemble Physiology (P5)
Thursday, March 14, 2013, 18:00 – 19:00 h

Erin M. Schuman, Frankfurt/Main
- Norbert Elsner Lecture -
Transcriptomes and Proteomes at Synapses (P6)
Friday, March 15, 2013, 14:30 – 15:30 h

Jason Kerr, Tübingen
- Roger Eckert Lecture -
What are they looking at? Imaging activity in the freely moving rodent from the eye to the cortex (P7)
Friday, March 15, 2013, 18:00 – 19:00 h

Eve Marder, Waltham, USA
- Ernst Florey Lecture -
Variability, compensation, modulation, and homeostasis in a rhythmic neuronal network (P8)
Saturday, March 16, 2013, 13:30 – 14:30 h

Hannelore Ehrenreich, Göttingen
- Otto Creutzfeldt Lecture -
Shifting paradigms in neuropsychiatry (P9)
Saturday, March 16, 2013, 16:00 – 17:00 h

All plenary lectures will take place in hall 11.

DFG Workshop

Thursday, March 14, 2013
12:00 – 13:00, Lecture Hall 101 and 1.141 (interviews)

Starting your research career - DFG funding programmes and application procedures

Jan Kunze and Katarina Timofeev,
DFG Head Office, Bonn

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

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

Topics:

The DFG – Germany´s largest research funding organisation

DFG funding programmes

Application and review procedures

News from the DFG

Discussion

Deutsche Forschungsgemeinschaft DFG

Publishing Workshop

Friday, March 15, 2013
12:00 – 13:00, Lecture Hall 103

How to publish in neuroscience journals?

Jean-Marc Fritschy and Helmut Kettenmann,
Zurich (Switzerland) and Berlin

This workshop will address two important elements of successful publication of scientific results in neuroscience. Helmut Kettenmann will cover the topic of manuscript preparation, emphasizing key features to be taken into consideration prior to submission.

Jean-Marc Fritschy will present the review process, and discuss how to adequately revise a manuscript in response to the comments of the reviewers and editors.

Topics:

Purpose of scientific publishing

Key elements of a scientific manuscript

The review process

Revisions and response to reviewers

The rebuttal letter

Jean-Marc Fritschy is Co-Editor in Chief of the European Journal of Neuroscience (EJN) and Helmut Kettenmann is Editor in Chief of GLIA.

Introductory Remarks to the CARE Workshop

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

Stefan Treue (Göttingen)

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

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

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

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

CARE Workshop

Friday, March 15, 2013
12:00 – 13:00, Lecture Hall 101

Chair: Stefan Treue, Göttingen

12:00 **Introductory remark**

12:15 **Short presentations by various speakers**

12:45 **Discussion and conclusion**

13:00 **End of the workshop**

Introductory Remarks to Satellite Symposium

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

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

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

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

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

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

Deutsches Stiftungs Zentrum

Satellite Symposium

Tuesday, March 12, 2013
13:00 – 19:00, Lecture Hall of MPI for Experimental Medicine (Hermann-Rein-Str. 3, Göttingen)

Chair: Renato Frischknecht and Alexander Gottschalk

13:00 **Opening Remarks**
(Heinrich Betz / Eckart D. Gundelfinger / Armin Schram)

13:10 Daniel Choquet, Bordeaux, France
NANOSCALE IMAGING OF AMPAR TRAFFICKING IN HEALTH AND DISEASE

14:05 Renato Frischknecht, Magdeburg
ROLE OF THE PERISYNAPTIC EXTRACELLULAR MATRIX IN SYNAPTIC PLASTICITY AND NETWORK ACTIVITY

14:35 Volker Haucke, Berlin
MOLECULAR MECHANISM OF SYNAPTIC VESICLE CYCLING

15:05 **Coffee Break and Poster Session**

16:00 Dorothea Schulte, Frankfurt/Main
TRANSCRIPTIONAL REGULATION OF ADULT NEUROGENESIS: NOVEL ROLES FOR TALE-HOMEODOMAIN TRANSCRIPTION FACTOR

16:30 Jens Schwamborn, Münster
NUCLEAR TRANSLOCATION OF CELL FATE DETERMINANTS INDUCES NEURAL STEM CELL DIFFERENTIATION

17:00 Marlene Bartos, Freiburg
FUNCTIONAL PROPERTIES OF PERISOMATIC VERSUS DENDRITIC INHIBITION IN DENTATE GYRUS MICROCIRCUITS

17:30 **Break and Poster Session**

17:50 Harvey Mc Mahon, Cambridge, UK
ROLE OF MEMBRANE SHAPE CHANGES, GUIDED BY PROTEINS, IN BIOLOGY

18:45 **Closing Remarks**
(Heinrich Betz / Eckart D. Gundelfinger / Armin Schram)

Introductory Remarks to Symposium 1

The cholinergic system and visual attention: From animal to man

Christiane Thiel and Gregor Rainer, Oldenburg and Fribourg (Switzerland)

The cholinergic system plays a role in several cognitive functions including learning or attention, and has been implicated in several neurological disorders such as Alzheimer's disease. The aim of this symposium is to present recent advances in our understanding of how cholinergic neuromodulation impacts on neural correlates of vision and attention. The speakers cover a wide range of techniques and approaches ranging from electrophysiological recording of neural activity to functional magnetic resonance imaging (fMRI) and magnetoencephalography (MEG), which enable the investigation of neurochemical modulation. Alex Thiele will address the impact of cholinergic neurotransmission on neural activity in monkey visual cortex, and Gregor Rainer will focus on effects of basal forebrain deep brain stimulation on the primary visual cortex of the tree shrew. Elvire Vaucher will focus on the role of cholinergic stimulation for visual learning in rats. Markus Bauer will talk on cholinergic modulation of visual attention and neural oscillations assessed with MEG. Christiane Thiel will present fMRI data investigating cholinergic effects on visual attention in healthy humans.

Together, the symposium will summarize recent progress and outline important current and future directions pertaining to the role that cholinergic neurotransmission plays in normal and disturbed visual and attentional processes in animal and man.

Symposium 1

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 102

Chair: Christiane Thiel and Gregor Rainer, Oldenburg and Fribourg (Switzerland)

15:00 **Opening Remarks**

15:05 Alexander Thiele, Newcastle upon Tyne, UK
CHOLINERGIC NEUROPHARMACOLOGY OF VISUAL ATTENTION (S1-1)

15:30 Gregor Rainer, Fribourg, Switzerland
BASAL FOREBRAIN STIMULATION REGULATES CONTRAST SENSITIVITY IN PRIMARY VISUAL CORTEX (S1-2)

15:55 Julia Veit, Fribourg, Switzerland
LAMINAR ASPECTS OF CHOLINERGIC EFFECTS ON PRIMARY VISUAL CORTEX (S1-3)

16:10 **Coffee Break**

16:35 Elvire Vaucher, Montreal, Canada
CHOLINERGIC MODULATION OF VISUAL PERCEPTION IN RODENTS (S1-4)

17:00 Markus Bauer, London, UK
CHOLINERGIC ENHANCEMENT OF VISUAL ATTENTION AND NEURAL OSCILLATIONS IN THE HUMAN BRAIN (S1-5)

17:25 Christiane Thiel, Oldenburg
CHOLINERGIC MODULATION OF VISUAL ATTENTION AS ASSESSED WITH PHARMACOLOGICAL FMRI (S1-6)

17:50 **Concluding Remarks**

Introductory Remarks to Symposium 2

Local Synaptic Coding in the Retina

Tom Baden, Timm Schubert and Thomas Euler, Tübingen

Far from being simple logical gates, neurons employ their specific morphologies and membrane properties to compute complex activity patterns locally within their neurites. At the dendrites, integration of synaptic inputs is used for computations such as noise reduction, input filtering or coincidence detection. But before the activity patterns are transmitted to postsynaptic targets, modulation by presynaptic inputs impinging on axonal terminals can fundamentally affect information transfer within neuronal networks. Recently, bipolar cells have become a key model to study presynaptic computation at axon terminals within a highly defined stimulus space.

As a sophisticated image processor, the retina breaks light modulated in space, time and wavelength into more than 20 parallel output channels. This parallel representation of the visual world is primarily established within the retina's two synaptic layers, and bipolar cells are the only neurons that transmit visual information from photoreceptors in the outer plexiform layer to ganglion and amacrine cells the inner plexiform layer. Unlike classical all-or-nothing-type synapses, the large presynaptic terminals of bipolar cells employ ribbon-type synapses which support both slow, graded and fast, transient modes of transmitter release. Although bipolar cells have traditionally been thought of as rather passive elements, which simply integrate and forward information from the outer to the inner retina, recent findings indicate that many key computations performed by the retinal network take place locally within the multiple synaptic terminals of a single bipolar cell. Through bipolar cell terminal-specific inputs from amacrine cells as well as a plethora of mechanisms intrinsic to individual terminals, visual information transmitted onto retinal ganglion cells can now be understood in a new light. In this view, synaptic computations within the retina's inner plexiform layer are fundamental to network function, and acknowledge a highly localized view of visual processing.

This symposium is supported by the Bernstein Center for Computational Neuroscience Tübingen (www.bccn-tuebingen.de).

Symposium 2

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 105

Chair: Tom Baden, Timm Schubert and Thomas Euler, Tübingen

15:00 **Opening Remarks**

15:05 Robin Kemmler, Tübingen
SYNAPTIC INTERACTIONS IN THE OUTER RETINA OF THE MOUSE (S2-1)

15:20 Leon Lagnado, Cambridge, UK
USING FLUORESCENT PROTEINS TO INVESTIGATE SYNAPTIC TRANSMISSION OF VISUAL INFORMATION (S2-2)

15:45 Tom Baden, Tübingen
THE BIPOLAR CELL TERMINAL AS A SELECTIVE SPATIO-TEMPORAL FILTER (S2-3)

16:10 Robert G. Smith, Philadelphia, USA
LOCAL COMPUTATIONS IN DENDRITES AND AXONS OF THE INNER RETINA (S2-4)

16:35 **Coffee Break**

16:55 Espen Hartveit, Bergen, Norway
FEEDBACK MECHANISMS OF ROD BIPOLAR CELLS IN THE HEALTHY AND DISEASED RETINA (S2-5)

17:20 Sonja Neumann, Frankfurt/Main
SYNAPTIC CIRCUITRY OF A SMALL BISTRATIFIED AMACRINE CELL IN PRIMATE RETINA (S2-6)

17:35 William N. Grimes, Seattle, USA
CHANGES IN THE SYNCHRONY OF CROSS-SYNAPTIC OUTPUT OF A RETINAL NEURON (S2-7)

Introductory Remarks to Symposium 3

The Computational role of the hippocampus

Sen Cheng and Laurenz Wiskott, Bochum

Since anterograde amnesia was reported in patient HM over 50 years ago, a huge number of studies have examined the role of the hippocampus in episodic memory and other cognitive functions. Many fascinating facets have emerged. For instance, place cells in the hippocampus respond selectively to certain locations in space and their spiking is controlled by a number of brain rhythms. Neurons in the input fire spikes in a hexagonal grid pattern. Although a "standard framework" has come to dominate the design and interpretation of the vast majority of experimental and theoretical studies, the computational role of the hippocampus remains elusive. The core assumption of the standard framework is that cortical inputs drive rapid synaptic plasticity to imprint memories as new attractor states in CA3. Other areas of the hippocampus are assigned supporting roles such as pattern separation in the dentate gyrus (DG). While other models offer alternative hypotheses to the standard framework, they mostly share the view that memories are, at least initially, stored in the recurrent CA3 connections. The experimental evidence in support of the standard framework is considerable, however, a number of contradictory results suggest that CA3 might not be the site of rapid memory storage. For instance, rapid plasticity in CA3 is not required for single-trial learning, spatial learning in the Morris water maze, and in trace conditioning, although these tasks are core tests of hippocampal function. This symposium brings together experimentalists and theorists to discuss the various models of hippocampal function and the supporting experimental evidences. The invited speakers have all done both experimental as well as theoretical research on the hippocampus. They are in an excellent position to keep the discussion focused on computational models that are firmly grounded in experimental results without being tied to fine details of experimental procedures. It is hoped that the speakers will present contrasting views that will lead to a lively discussion. This symposium will summarize recent, and potentially synthesize new insights into the principles of hippocampal function.

Symposium 3

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

Chair: Sen Cheng and Laurenz Wiskott, Bochum

15:00 **Opening Remarks**

15:05 Edmund Rolls, Oxford and Warwick, UK
A THEORY OF HIPPOCAMPAL FUNCTION, AND HOW IT INCORPORATES SPATIAL VIEW CELLS IN PRIMATES AND PLACE CELLS IN RODENTS (S3-1)

15:35 Sen Cheng, Bochum
THE CRISP THEORY OF HIPPOCAMPAL FUNCTION IN EPISODIC MEMORY (S3-2)

16:05 Torsten Neher, Bochum
ARE MEMORIES REALLY STORED IN THE HIPPOCAMPAL CA3 REGION? (S3-3)

16:20 **Coffee Break**

16:40 Francesco Battaglia, Nijmegen, The Netherlands
NEURAL OSCILLATIONS, BEHAVIOR, AND INTERACTION WITHIN THE HIPPOCAMPAL FORMATIONS AND BETWEEN CORTEX AND HIPPOCAMPUS (S3-4)

17:10 Antje Kilias, Freiburg
SUSTAINED PHASE COUPLING OF HIPPOCAMPAL SINGLE CELL FIRING TO NETWORK OSCILLATIONS UNDER EPILEPTIC CONDITIONS (S3-5)

17:25 Neil Burgess, London, UK
NEURAL MECHANISMS OF SPATIAL COGNITION (S3-6)

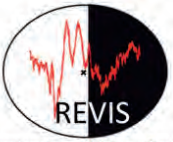
17:55 **Concluding Remarks**

Introductory Remarks to Symposium 4

Non-invasive brain stimulation: mechanisms, effects and opportunities

Petra Henrich-Noack, Bernhard Sabel and Michael A. Nitsche, Magdeburg and Göttingen

Non-invasive brain stimulation (NIBS) allows to explore and modulate brain (patho)physiology in basic research and clinical applications. Having evidence for its functional efficacy, it is of increasing importance to describe the underlying mechanisms to develop tailored stimulation protocols for hypothesis-driven alterations of brain function in health and disease. M. Nitsche (Clin. Neurophysiology; Göttingen) will show data about the physiological basis of NIBS, including effects on neuronal populations and networks. E. Sergeeva (Otto-von-Guericke University, Magdeburg) will present results from alternating current (AC) stimulation via the eye which is successfully used for rehabilitation and protection after visual system damage. In animal models the underlying mechanisms can be revealed on a cellular and functional level considering the various structures of the visual system. High resolution computational modelling is suited to determine physical characteristics of current flow induced by NIBS, including the influence of skull anatomy, idiosyncratic folding and brain lesions, which is another important factor for the efficacy of stimulation (M. Bikson; The City University of New York). The focus of P. M. Rossini´s (Catholic University of Rome) work is (post-lesional) neuronal plasticity/ cognition: transcranial magnetic stimulation (TMS) allows determining the influence of brain structures on cognitive tasks or rehabilitation. Moreover, TMS can alter neuronal excitability and result in long-lasting plasticity with impact on cognition and behaviour. Finally, the TMS/EEG allows investigating brain connectivity in vivo in health and disease. S. Schmidt (Charité, Berlin) combines neuronavigated TMS and transcranial direct current stimulation (tDCS) for a better understanding of NIBS-induced alterations of brain function and a more effective treatment of visual and motor impairments.



Restoration of Vision after Stroke
ERA-NET NEURON Project

Symposium 4

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 9

Chair: Petra Henrich-Noack, Bernhard Sabel and Michael Nitsche, Magdeburg and Göttingen

15:00 **Opening Remarks**

15:05 Michael A. Nitsche, Göttingen
PHYSIOLOGICAL BACKGROUND OF THE EFFECTS OF NON-INVASIVE BRAIN STIMULATION (S4-1)

15:30 Elena G. Sergeeva, Magdeburg
MECHANISMS OF NEUROPROTECTION AND NEUROPLASTICITY AFTER REPETITIVE TRANSORBITAL ALTERNATING CURRENT STIMULATION (S4-2)

15:55 Marom Bikson, New York, USA
TARGETING OF TRANSCRANIAL DIRECT CURRENT STIMULATION (S4-3)

16:20 **Coffee Break**

16:35 Sein H. Schmidt, Berlin
GETTING THE RIGHT SITE, CAN NAVIGATION HELP US ACCESS NON-PRIMARY MOTOR AREAS: A SHAM-CONTROLLED SERIAL NAVIGATED TMS STUDY (S4-4)

17:00 Paolo Maria Rossini, Rome, Italy
BRAIN PLASTICITY AND CONNECTIVITY IN NEUROLOGICAL DISEASES: THE TMS CONTRIBUTION (S4-5)

17:25 Andres Agudelo-Toro, Göttingen
A TOOL FOR THE SIMULATION OF THE ELECTRICAL ACTIVITY OF REALISTIC NEURON MORPHOLOGIES IN A CONDUCTIVE EXTRACELLULAR SPACE (S4-6)

17:40 Leon Morales-Quezada, Boston, USA
EFFICACY OF NON-INVASIVE CORTICAL STIMULATION: APPLICATIONS IN NEURO-REHABILITATION AND COMBINATION WITH TRAINING PROTOCOLS (S4-7)

17:55 **Concluding Remarks**

Introductory Remarks to Symposium 5

"The paradox of the critical period" – rejuvenating cortical networks

Siegrid Löwel and Fred Wolf, Göttingen

Sensitive periods also called critical periods are a fundamental characteristic of neocortical processing in the juvenile brain. In sensory cortices, critical periods of high susceptibility to experience-driven reorganization of cortical architecture often last for many weeks and even for years after birth in the human brain. It is widely assumed that in normal development, critical period plasticity sub-serves the function of constructing and optimizing cortical processing architectures and that it would be beneficial to reinstate juvenile plasticity in the adult or aging brain to enable restoration of cortical function after insult and disease. However, direct demonstrations of such constructive functions of juvenile plasticity as well as rational approaches to rejuvenate the adult brain remained elusive for decades. Commenting on this, Jack Pettigrew once called it the "paradox of the critical period" … it „seems to provide only little benefit compared with its great potential for handicap" (1978)[1]. Over the past several years, this picture has fundamentally changed. Studies in sensory cortices have uncovered a multitude of constructive long-term processes that rearrange cortical architectures over the entire duration of the critical period. They include reorganization to achieve interareal matching of cortical architecture[2], to maintain functional organization in the face of postnatal cortical growth[3] and the long-term reshaping of response properties by extended periods of sensory experience[4-8]. In addition, a multitude of new strategies for rejuvenating cortical networks has been suggested recently[9-11]. The symposium *"The paradox of the critical period" – rejuvenating cortical networks* puts a focus on researchers who made important contributions to uncovering the long-sought constructive power of critical period plasticity and who pioneered rational strategies for restoring plasticity in adult and diseased brains. Two complementary sessions will present and discuss recent insights into the progressive reorganization in the juvenile visual cortex and novel approaches to reinstate juvenile-like levels of plasticity in adult and aging cortex.

[1]Pettigrew (1978) In: Neuronal Plasticity, ed Cotman (Raven Press, NY), p 311; [2]Kaschube et al (2009) PNAS 106:17205; [3]Keil et al (2010) PNAS 107:12293; [4]Li et al (2008) Nature 456:952; [5]Wang et al (2010) Neuron 65:246; [6]Rochefort et al (2011) Neuron 71:425; [7]Berkes et al (2011) Science 331:83; [8]Kremer et al (2011) JNS 31:10689; [9]Bavelier et al (2010) JNS 30:14964; [10]Medini & Pizzorusso (2010) Front Biosci 13:3000; [11]He et al (2007) Nat Neurosci 10:1134.

Symposium 5

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 104

Chair: Siegrid Löwel and Fred Wolf, Göttingen

15:00 **Opening Remarks**

15:05 Nathalie Rochefort, München and Edinburgh, UK
DEVELOPMENT OF ORIENTATION AND DIRECTION SELECTIVITY IN MOUSE VISUAL CORTEX NEURONS IN VIVO (S5-1)

15:30 Jianhua Cang, Evanston, USA
CRITICAL PERIOD PLASTICITY AND BINOCULAR MATCHING IN THE VISUAL CORTEX (S5-2)

15:55 Juan Daniel Flórez Weidinger, Göttingen
ACTIVE SELF-ORGANIZATION OF A DISORDERED ARRANGEMENT OF ORIENTATION PREFERENCE IN THE VISUAL CORTEX (S5-3)

16:10 **Coffee Break**

16:30 Daphne Bavelier, Rochester, USA and Geneva, Switzerland
ACTION VIDEO GAMES AS EXEMPLARY LEARNING TOOLS (S5-4)

16:55 Tommaso Pizzorusso, Pisa, Italy
MOLECULAR CONTROL OF OCULAR DOMINANCE PLASTICITY (S5-5)

17:20 Elizabeth M. Quinlan, College Park, USA
NARP-DEPENDENT RECRUITMENT OF INHIBITION REVERSIBLY REGULATES THE CRITICAL PERIOD FOR OCULAR DOMINANCE PLASTICITY (S5-6)

17:45 Franziska Greifzu, Göttingen
ENVIRONMENTAL ENRICHMENT EXTENDS OCULAR DOMINANCE PLASTICITY IN MOUSE VISUAL CORTEX INTO ADULTHOOD AND PROTECTS FROM STROKE-INDUCED REDUCTIONS OF PLASTICITY (S5-7)

Introductory Remarks to Symposium 6

Mouse models in hearing research: unraveling auditory processing from molecules to behaviour

Simone Kurt and Jutta Engel, Ulm and Homburg/Saar

The sense of hearing is the most vulnerable sensory system. Hearing aids or cochlear implants do not fully restore auditory functions such as speech perception in noise or localizing sound sources, which is partly caused by our limited understanding of the function of molecules, cells and circuits in normal auditory function. In the past 15 years, linkage analyses of deafness genes in humans and the characterization of mutant and transgenic mouse models have provided us with many insights into normal hearing and the causes of hearing loss but many questions remain unresolved.

Ulrich Müller (The Scripps Research Institute, La Jolla, USA) will report on the use of various genetic mouse models to identify molecular components involved in hair cell mechanotransduction. In inner hair cells, the presumptively multifunctional protein otoferlin is indispensible for exocytosis. Nicola Strenzke (Dept. of Otolaryngology, University of Göttingen) will present the effects of different otoferlin mutations on hearing function. The presynaptic protein Bassoon is important in synaptic transmission not only at the inner hair cell synapse, but also at the auditory nerve synapse at the endbulb of Held, which will be reported by Alejandro Mendoza Schulz (Dept. of Otolaryngology, University of Göttingen). Marlies Knipper (THRC, University of Tübingen) will focus on the use and value of conditional mouse models for elucidating the feedback crosstalk between the peripheral and the central auditory system.

To investigate coding and manipulation of neuronal activity patterns in the auditory cortex, Juliane Tinter (Research Institute of Molecular Pathology, Vienna) uses an optogenetic approach. She will present results from mice virally transfected with channelrhodopsin-2, which allows optical cortical stimulation in a behavioural go/nogo task. Simone Kurt (Institute of Neurobiology, Ulm University) and Jutta Engel (Dept. of Biophysics, Saarland University) will report on a mouse model deficient for the Ca^{2+} channel subunit $\alpha_2\delta 3$ normally expressed in spiral ganglion and auditory brainstem neurons which shows altered auditory processing up to the behavioural level.

Symposium 6

Wednesday, March 13, 2013
15:00 – 18:00, Lecture Hall 8

Chair: Simone Kurt and Jutta Engel, Ulm and Homburg/Saar

15:00 **Opening Remarks**

15:05 Ulrich Müller, La Jolla, USA
THE SOUND OF SILENCE: DEFECTS IN HAIR CELL MECHANOTRANSDUCTION THAT CAUSE DEAFNESS (S6-1)

15:35 Nicola Strenzke, Göttingen
EFFECTS OF MUTATIONS IN OTOFERLIN ON HEARING FUNCTION (S6-2)

16:05 Alejandro Mendoza Schulz, Göttingen
THE ROLE OF THE PRESYNAPTIC SCAFFOLD PROTEIN BASSOON IN SYNAPTIC TRANSMISSION AT THE MOUSE ENDBULB OF HELD (S6-3)

16:20 **Coffee Break**

16:45 Marlies Knipper, Tübingen
SOUND CODING THROUGH FEEDBACK CROSSTALK BETWEEN THE PERIPHERAL AND CENTRAL AUDITORY SYSTEM: LEARNING FROM CONDITIONAL MOUSE MODELS (S6-4)

17:15 Juliane Tinter, Vienna, Austria
OPTOGENETIC MANIPULATION OF NEURONAL ACTIVITY PATTERNS IN THE MOUSE AUDITORY CORTEX IN THE CONTEXT OF A GO/NOGO TASK (S6-5)

17:30 Simone Kurt and Jutta Engel, Ulm and Homburg/Saar
DISTORTED HEARING IN MICE LACKING THE $\alpha_2\delta 3$ CA^{2+} CHANNEL SUBUNIT – A MODEL FOR AN AUDITORY PROCESSING DISORDER (S6-6)

Introductory Remarks to Symposium 7

Functional organization of presynaptic neurotransmitter release sites

Eckart Gundelfinger and Anna Fejtova, Magdeburg

Accurate and reliable synaptic transmission is of critical importance for normal brain function. The symposium will address mechanisms of spatial and temporal control of neurotransmitter release and discuss recent progress in our mechanistic and molecular understanding of this process. What are the functional specializations allowing evoked high-frequency transmission at central synapses? Stefan Hallermann will discuss adaptations of the presynaptic exocytotic machinery to allow release with high speed and reliability. Two essential steps – loading of vesicular release sites and coupling of calcium channels to sensors of exocytosis – will be addressed. The docking and priming of secretory vesicles in chromaffin cells are the topic of Heidi de Wit's talk. She will focus on molecular aspects of assembly of SNARE complexes and the regulation by Munc18.
The symposium will include two young investigators: Özgür Genç will illuminate the role of PKC-driven phosphorylation of Munc18 in short-term presynaptic potentiation in the Calyx of Held. Cordelia Imig will present her study on the role of CAPS and Munc13 in docking and priming of synaptic vesicles employing a fixative-free electron microscopy approach.
A critical determinant of release efficacy is the coupling of the release apparatus to presynaptic calcium channels. Using a mathematic model based on ultra-structural data Ralf Schneggenburger has explored how the precise localization and stoichiometry of these channels relative to release sites influences the characteristics of transmitter release in the Calyx of Held. Anna Fejtova will report on differential recruitment mechanisms for calcium channel subtypes to presynaptic release sites and how the differential channel coupling contributes to presynaptic plasticity. Finally, Stephan Sigrist's lab employed live- and high-resolution-imaging techniques to investigate the molecular organization of release sites in Drosophila neuromuscular junctions. They disclosed a dual role for presynaptic T-bars in the recruitment of synaptic vesicles to the release sites and their physical coupling to calcium channels.

This symposium is organized in cooperation with the Study Group 'Molecular Neurobiology' (Speaker: Prof. Rolf Heumann, Bochum) of the Gesellschaft für Biochemie und Molekularbiologie.

GBM

Symposium 7

Thursay, March 14, 2013
9:00 – 12:00, Lecture Hall 10

Chair: Eckart Gundelfinger and Anna Fejtova, Magdeburg

09:00 **Opening Remarks**

09:05 Stefan Hallermann, Göttingen
MECHANISMS OF KHZ-TRANSMISSION AT A CENTRAL SYNAPSE (S7-1)

09:30 Heidi de Wit, Amsterdam, The Netherlands
MOLECULAR CHARACTERIZATION OF THE MINIMAL DOCKING MACHINERY FOR SECRETORY VESICLE EXOCYTOSIS IN CHROMAFFIN CELLS (S7-2)

09:55 Özgür Genç, Lausanne, Switzerland
A TRANSIENT PHOSPHORYLATION OF MUNC18 BY PKC UNDERLIES POST-TETANIC POTENTIATION OF TRANSMITTER RELEASE (S7-3)

10:10 **Coffee Break**

10:25 Cordelia Imig, Göttingen
ULTRASTRUCUTRAL AND FUNCTIONAL ANALYSIS OF SYNAPTIC VESICLE DOCKING AND PRIMING (S7-4)

10:40 Ralf Schneggenburger, Lausanne, Switzerland
CONTROL OF FAST TRANSMITTER RELEASE BY MULTIPLE CA^{2+} CHANNELS REFLECTS A NON-RANDOM SPATIAL ORGANIZATION OF CHANNELS AND VESICLES (S7-5)

11:05 Anna Fejtova, Magdeburg
ROLE OF THE CYTOMATRIX AT THE ACTIVE ZONE IN THE ORGANIZATION OF PRESYNAPTIC RELEASE SITES (S7-6)

11:30 Stephan Sigrist, Berlin
SHEDDING LIGHT ON THE FUNCTIONAL ANATOMY OF PRESYNAPTIC ACTIVE ZONES (S7-7)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 8

Neurochemical control of social behaviour in insects

Paul A. Stevenson and Ricarda Scheiner, Leipzig and Potsdam

Insect brains are comparatively simple in terms of neuron number, they nonetheless have the integrative power to sculpture social interactions of a complexity approaching our own. This is achieved to a great extent via the neuromodulatory action of biogenic amines. Amines can mediate influences of previous and momentary experiences on social behaviour, often by signaling rewarding and aversive attributes. The neuronal representation of such attributes may underlie the control of aggression, repulsion or attraction and structure social systems. The symposium speakers exploit pharmacological, molecular biological and elegant genetic techniques to reveal basic principles of how neuromodulators forge insect social behaviour. Sarah Certel has uncovered how octopamine, contained within identified neurones that express the sex determining gene product fruitless, controls the choice between aggression and courtship in Drosophila. Paul Stevenson and Jan Rillich's work is revealing the role of octopamine and other modulators in mediating the effect of a wide variety of experiences on aggression in crickets. Swidbert Ott has shown how social contact in locusts recruits serotonin-coupled second messenger pathways to invoke the behavioural change from avoidance to social tolerance, the prerequisite for swarming. Work on honey bees by Vanina Vergoz illustrates how the queen mandibular pheromone (QMP) and its major component homovanillyl alcohol, a metabolite of dopamine, maintains reproductive hegemony of the queen by suppressing ovarian development by activating specific dopamine receptors. Finally, Ricarda Scheiner, again on honeybees, is making new contributions towards understanding the relationships between biogenic amine systems, sensory response thresholds and division of labour. These insights from diverse model systems form a synopsis of current understanding of how social behaviour is controlled in insects (Support by the DFG is greatly appreciated).

Symposium 8

Thursday, March 14, 2013
9:00 – 12:00, Lecture Hall 8

Chair: Paul A. Stevenson and Ricarda Scheiner, Leipzig and Potsdam

09:00 **Opening Remarks**

09:05 Sarah J. Certel, Missoula, USA
OCTOPAMINE NEUROMODULATION REGULATES THE GR32A PATHWAY TO PROMOTE AGGRESSION IN DROSOPHILA MALES (S8-1)

09:30 Jan Rillich, Berlin
EXPERIENCE DEPENDENT PLASTICITY OF AGGRESSION IN CRICKETS AND ITS CONTROL BY NEUROMODULATORS (S8-2)

09:55 Swidbert Roger Ott, Cambridge, UK
SEROTONERGIC SIGNALLING PATHWAYS AND THE CONTROL OF PHASE CHANGE AND SWARMING IN DESERT LOCUSTS (S8-3)

10:20 **Coffee Break**

10:50 Vanina Vergoz, Sydney, Australia
THE QUEEN, HER PHEROMONES AND REPRODUCTIVE HEGEMONY IN HONEY BEES (S8-4)

11:15 Ricarda Scheiner, Potsdam
BIOGENIC AMINES AND MECHANISMS CONTROLLING THE DIVISION OF LABOR IN A HONEYBEE SOCIETY (S8-5)

11:40 Daniel Rolke, Potsdam
SPATIAL AND TEMPORAL EXPRESSION PATTERNS OF SEROTONIN RECEPTOR SUBTYPES IN THE HONEYBEE, *APIS MELLIFERA* (S8-6)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 9

Timescales in neuronal population encoding and their biophysical basis

Andreas Neef, Göttingen

How do the spikes of a population of neurons encode a stimulus? What are the contributions of different ion channels on the encoding in individual neurons and how does the interaction of excitatory and inhibitory neurons in the network shape the population's response? These are questions we want to explore in this symposium.

Recent years saw rapid progress in the characterization of the different time scales involved in neural response dynamics. On the fast end of the spectrum, the population firing rate can change within few milliseconds after a change in the input, a feature that is related to the high frequency end of the dynamic range of neurons that can extend to around 200 Hz (Lundstrom et al. 2008, Tchumatchenko et al. 2011). While a fast response had been predicted for the simplified integrate-and-fire model neurons (Brunel et al. 2001), seemingly more appropriate and more complex neuron models do not show this immediate response (Fourcaud-Trocmé et al. 2003). Several of the speakers of this symposium contributed to the characterization the fast response in experimental and theoretical studies and revealed its importance for information processing. In this symposium they will also address slower time scales of neural encoding. Recent studies highlight, how specific ion channels tune the spike generation to adapt the neural response over many milliseconds to seconds, and how this adaptation assures a high dynamic range for the encoding of stimuli.

Although studies of stimulus encoding go back decades, new standards of experimental design and analysis are still forming. In the symposium recordings from neurons in sensory areas are presented, obtained in-vitro as well as in-vivo under behaviourally relevant stimulation of the animal. Another line of experiments manipulate neurons pharmacologically to identify the biophysical basis of adaptation and one line of experiments aims at largely automated characterization of individual neurons. The symposium will be part of the lively exchange between theory and experiment that energizes the field of neural population encoding.

Symposium 9

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

Chair: Andreas Neef, Göttingen

09:00 **Opening Remarks**

09:05 Fred Wolf, Göttingen
BRUCE KNIGHT'S PERFECT ENCODER AND THE UNSOLVED PROBLEM OF ACTION POTENTIAL INITIATION (S9-1)

09:30 Ilan Lampl, Rehovot, Israel
SHORT-TERM SYNAPTIC PLASTICITY SHAPES THE BALANCE BETWEEN EXCITATION AND INHIBITION DURING ONGOING CORTICAL ACTIVITY (S9-2)

09:55 Adrienne L. Fairhall, Seattle, USA
MULTIPLE TIMESCALES OF INFORMATION REPRESENTATION IN NEURONS AND NETWORKS (S9-3)

10:20 **Coffee Break**

10:35 Adrian Klein, Bonn
THE ACTIVITY OF MEDULLARY LATERAL LINE UNITS OF COMMON RUDD, *SCARDINIUS ERYTHROPTHALMUS,* WHICH WERE EXPOSED TO KÁRMÁN VORTEX STREETS (S9-4)

10:50 Matthew H. Higgs, Seattle, USA
K^+ CHANNELS AFFECT CORTICAL NEURON INPUT ENCODING ON MULTIPLE TIME SCALES (S9-5)

11:15 Ahmed El Hady, Göttingen
NON-INVASIVE CHARACTERIZATION OF INDIVIDUAL NEURONS' COMPUTATIONAL PROPERTIES USING CONTINUOUS DYNAMIC PHOTO-STIMULATION (S9-6)

11:30 Clemens Boucsein, Freiburg
THE BEST FROM TWO WORLDS: NEOCORTICAL NEURONS AS INTEGRATORS WITH PRECISE SPIKE TIMING (S9-7)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 10

Differential brain science: towards an understanding of interindividual variation

Axel Kohler and Erhan Genç, Münster and Bochum

Since the advent of modern brain-imaging techniques, research in cognitive neuroscience has mainly relied on group analysis of imaging data, comparing average responses in multiple conditions within a group or comparing patterns across groups. In recent years, a number of researchers have started to exploit variation among individuals as a new window into brain function. The differential approach correlates interindividual differences in dependent measures with certain characteristics of the individual brains. The dependent measures can range from objective assessments of functional activity to subjective reports on conscious perception and personal attitudes. The variance in these variables is tested against structural and functional features of the brain, including gray-matter density, cortical thickness, brain-region size, white-matter microstructure, the distribution of neurochemicals, and resting-state functional activation.

The topics covered by the invited speakers range from the motor domain, over musical expertise and synesthesia, to auditory processing and conscious visual experience. An important theme in some of the talks will be interhemispheric connections through the corpus callosum and their specific influence on integration and segregation between the two halves of the brain. Despite a long tradition of research on the corpus callosum, the physiological mechanisms of interhemispheric communication are still not well known. The understanding of interactions between the brain hemispheres is of particular importance for human neuroscience, since hemispheric segregation and the resulting lateralization of functions is specifically pronounced in humans. But also intrahemispheric mechanisms will be considered in some of the presentations, providing first insights on how local brain features are shaped by experience and, in turn, determine behaviour. The human studies will be complemented by a talk on the genetic basis of pain-related learning in fruit flies.

The aim of the symposium is to give an overview of current research on interindividual differences in brain structure and function. It will also provide a platform to discuss the benefits and possible drawbacks of the approach, resulting in a state-of-the-art account of the emerging picture of the individual brain.

Symposium 10

Thursday, March 14, 2013
9:00 – 12:00, Lecture Hall 104

Chair: *Axel Kohler and Erhan Genç, Münster and Bochum*

09:00 **Opening Remarks**

09:05 Ulf Ziemann, Tübingen
DIFFERENTIAL BRAIN SCIENCE IN THE HUMAN SENSORIMOTOR CORPUS CALLOSUM (S10-1)

09:30 Axel Kohler, Münster
INTERHEMISPHERIC CONNECTIONS SHAPE INDIVIDUAL CONSCIOUS EXPERIENCE OF VISUAL ILLUSIONS (S10-2)

09:55 Erhan Genç, Bochum
SURFACE AREA OF EARLY VISUAL CORTEX PREDICTS INDIVIDUAL SPEED OF TRAVELING WAVES DURING BINOCULAR RIVALRY (S10-3)

10:10 René Westerhausen, Bergen, Norway
ON THE RELEVANCE OF INTER-INDIVIDUAL CALLOSAL DIFFERENCES FOR BEHAVIOUR AND EXPERIENCE (S10-4)

10:35 **Coffee Break**

10:55 Ryota Kanai, Sussex, UK
BRAIN STRUCTURE CORRELATES OF INDIVIDUAL DIFFERENCES IN PERCEPTUAL RIVALRY (S10-5)

11:20 Mirjam Appel, Planegg/Martinsried
GENETIC ARCHITECTURE OF PUNISHMENT-, RELIEF-LEARNING AND SHOCK AVOIDANCE (S10-6)

11:35 Lutz Jäncke, Zurich, Switzerland
SPECIALISATION OF THE SPECIALISTS - THE NEUROSCIENCE OF INDIVIDUAL DIFFERENCES (S10-7)

Introductory Remarks to Symposium 11

Serotonin: from brain development to behaviour - new insights from animal models

Natalia Alenina and Christian P. Müller, Berlin and Erlangen

Serotonin (5-hydroxytryptamine, 5-HT) is a key modulatory neurotransmitter in the central nervous system (CNS). Neurons producing 5-HT exhibit a wide innervation throughout the CNS already at early stages of neurogenesis and serotonin is thought to have major impact on brain development in mammals.

Serotonin synthesis in the brain is restricted to a very limited number of cells in the dorsal raphe nuclei with a vast axonal network innervating most other areas in the brain and spinal cord. TPH2 is the brain-specific isoform of the enzyme responsible for the initial and rate-limiting step in serotonin biosynthesis. The extracellular level of 5-HT is primarily regulated by the 5-HT transporter (Slc6a4; SERT), which reuptakes 5-HT from the extracellular space into the presynaptic neuron where it can be degraded or retained for future release. SERT is a target of most frequently prescribed antidepressants and anxiolytics in human and is thought to function as a plasticity gene, increasing sensitivity to environmental stimuli.

In recent years several unprecedented animal models with altered serotonergic transmission were generated, including Tph2-deficient mice (animals which are completely devoid of brain serotonin), SERT-deficient rats and rats with lesions of specific cortical areas by serotonin-neuron specific toxin 5,7-dihydroxytryptamine (5,7-DHT). The present symposium is aiming to sum up the novel findings which have been gained by the phenotypical analysis of these models. The consequences of complete and partial serotonin deficiency on anxiety, aggression, sexual behaviour, sensomotor processing, and cocaine-induced reinforcement will be summarized. Furthermore, we will present the data showing association of serotonin transporter gene variations with adaptive and maladaptive behavioural responses and with manifestations of autism, with focus on communication deficits based on the analysis of ultrasonic vocalization in SERT-deficient animals. Moreover, using the unique Tph2::eGFP knockin mouse model we will show how 5-HT synthesis abrogation affects specific morphogenetic activities during foetal and early postnatal CNS development.

Symposium 11

Thursday, March 14, 2013
9:00 - 12:00, Lecture Hall 105

Chair: Natalia Alenina and Christian P. Müller, Berlin and Erlangen

09:00 **Opening Remarks**

09:05 Massimo Pasqualetti, Pisa, Italy
LACK OF BRAIN SEROTONIN AFFECTS POSTNATAL DEVELOPMENT AND SEROTONERGIC NEURONAL CIRCUITRY FORMATION (S11-1)

09:30 Natalia Alenina, Berlin
BEHAVIORAL AND PHYSIOLOGICAL CONSEQUENCES OF CENTRAL 5-HT DEFICIENCY IN MICE (S11-2)

09:55 Christian P. Müller, Erlangen
ROLE OF CORTICAL SEROTONIN FOR SENSOMOTOR PROCESSING, ANXIETY AND REINFORCEMENT (S11-3)

10:20 **Coffee Break**

10:35 Judith Homberg, Nijmegen, The Netherlands
EARLY LIFE ADVERSITY AND SEROTONIN TRANSPORTER GENE VARIATION INTERACT TO SHAPE THE ADULT HYPOTHALAMO-PITUITARY-ADRENAL AXIS AND STRESS ESCAPE BEHAVIOUR (S11-4)

11:00 Markus Wöhr, Marburg
ULTRASONIC COMMUNICATION AND SOCIAL BEHAVIOURS IN RATS LACKING THE SEROTONIN TRANSPORTER (S11-5)

11:25 Stephanie Miceli, Nijmegen, The Netherlands
CORTICAL HYPERCONNECTIVITY ASSOCIATED WITH OVEREXPOSURE TO 5-HT DURING BRAIN DEVELOPMENT (S11-6)

11:40 Valentina Mosienko, Berlin
BEHAVIORAL AND NEUROCHEMICAL CONSEQUENCES OF SUBTLE REDUCTION IN CENTRAL SEROTONIN PRODUCTION IN MICE (S11-7)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 12

Cytoskeletal dynamics in neuronal migration

Marco Rust and Walter Witke, Kaiserslautern and Bonn

During vertebrate brain development, neurons migrate from the germinal zone to their final laminar positions in order to establish functional circuits. Defects in cell migration contribute to various clinical conditions such as lissencephaly, mental retardation or epilepsy. Hence, it is important to understand the mechanisms underlying neuronal migration. Key insights into neuron migration were initially obtained in landmark studies identifying genes mutated in human cortical malformations, among them cytoskeletal components and their regulators. Recently, cell biology has greatly advanced our understanding of how cytoskeletal dynamics drive the morphogenic cell movements required for proper brain development. Neuronal migration is orchestrated through an intricate interplay between microtubules, actin, and associated motor proteins. This symposium highlights some important progress made over the past years in this field.

The first two speakers will provide insights into the mechanisms upstream of cytoskeletal dynamics that are relevant for directed migration of cerebellar granule neurons (CGN) in different model organisms. David Solecki will present his work on cell polarity pathways that regulate CGN exit from the germinal zone of the mouse cerebellum and on the control of nucleokinesis and somal translocation during glial-guided CGN migration. Reinhard Köster will focus on the mechanisms controlling migration of zebrafish CGN, which show a characteristic glial cell-independent manner of migration.

The other three talks will highlight the relevance of proteins controlling actin dynamics for CNS development and neuronal migration. Walter Witke will provide insights into the actin based mechanisms of cell migration with the F-actin depolymerizing proteins of the ADF/cofilin family as an example. This presentation will be supplemented by Michael Frotscher who will focus on signaling pathways controlling cofilin activity in migrating neurons and during layer formation in the cerebral cortex. Finally, Marco Rust will present a novel role for the G-actin binding protein profilin1 in glial cell-binding and radial migration of CGN.

Symposium 12

Thursday, March 14, 2013
9:00 – 12:00, Lecture Hall 102

Chair: Marco Rust and Walter Witke, Kaiserslautern and Bonn

09:00 **Opening Remarks**

09:05 David J. Solecki, Memphis, USA
NEURONAL MIGRATION ILLUMINATED: A LOOK UNDER THE HOOD OF THE LIVING NEURON (S12-1)

09:35 Reinhard Köster, Braunschweig
IMAGING OF NEURONAL MIGRATION IN ZEBRAFISH (S12-2)

10:05 Walter Witke, Bonn
THE ADF/COFILIN FAMILY OF ACTIN BINDING PROTEINS IN NEURONAL MIGRATION AND CORTICAL DEVELOPMENT (S12-3)

10:35 **Coffee Break**

10:55 Michael Frotscher, Hamburg
REELIN-INDUCED COFILIN PHOS-PHORYLATION STABILIZES THE ACTIN CYTO SKELETON DURING THE MIGRATION OF CORTICAL NEURONS (S12-4)

11:25 Marco Rust, Kaiserslautern
THE ACTIN-BINDING PROTEIN PROFILIN1 IN GLIAL CELL BINDING AND RADIAL MIGRATION OF CEREBELLAR GRANULE NEURONS (S12-5)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 13

Olfactory learning: from insects to machines

Martin Paul Nawrot and Thomas Nowotny, Berlin and Brighton, UK

Insect olfaction has become a strong model for inquiries into perception and learning due to a number of factors. Insects readily learn associations between odors and rewards or odors and punishments, even though their olfactory system is much smaller than those of rats and mice, the predominant mammalian model systems. The smaller size, and presumably complexity, makes the insect system experimentally more accessible and computationally more tractable. At the same time, the principles of chemo-sensory information processing seem to be highly conserved across phyla, suggesting that much can be learned in the simpler invertebrate systems that will be relevant in higher animals. Here, we bring together a number of scientists working at the interface of experimental and theoretical approaches to the biology of olfactory learning and its application to technical challenges in bio-inspired machine learning and robotics. We start out with new insights into the biology of memory formation. Hiromu Tanimoto will discuss results on the functional networks involved in the formation of positive or negative memories after appetitive or aversive conditioning in the fruit fly. Martin Strube-Bloss will present how the associative strength measured at the level of single mushroom body output neurons is correlated with behavioral performance during memory retention across individual honeybees. These observations at the behavioral and the physiological level are direct inspiration for the computational and theoretical models that follow. Joachim Haenicke presents a neural network model for fast associative learning in the honeybee and Barbara Webb will explain how we gain additional insights from experimentation with neurally inspired robotic architectures. Ramon Huerta will close the session with bio-mimetic machine learning inspired by the olfactory system of insects.
This symposium makes a unique contribution to the field of learning and memory formation, exposing synergies between experimental and theoretical approaches to systems neuroscience. The speakers will present a combination of established methods and novel, if not speculative, ideas that can be inspiring for experienced researchers and young scientists alike.

Partially supported by the Bernstein Focus "Neuronal Basis of Learning: Insect Inspired Robots" (BMBF 01GQ0941)

Symposium 13

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

Chair: *Martin Paul Nawrot and Thomas Nowotny, Berlin and Brighton, UK*

09:00 **Opening Remarks**

09:05 Hiromu Tanimoto, Planegg/Martinsried
CIRCUITS FOR MEMORY FORMATION IN THE FLY BRAIN (S13-1)

09:30 Lisa Scheunemann, Berlin
DYNAMICS OF OFLACTORY MEMORY ACQUISITION IN DROSOPHILA MELANOGASTER (S13-2)

09:45 Martin Strube-Bloss, Jena
ENCODING OF ODOR-REWARD ASSOCIATION IN SINGLE MUSHROOM BODY OUTPUT NEURONS CORRELATES WITH BEHAVIORAL PERFORMANCE (S13-3)

10:10 **Coffee Break**

10:25 Joachim Haenicke, Berlin
A COMPUTATIONAL MODEL OF FAST ASSOCIATIVE LEARNING IN THE HONEYBEE (S13-4)

10:50 Pierre Junca, Gif-sur-Yvette, France
BEHAVIORAL AND GENETIC BASIS OF THERMAL AVERSIVE CONDITIONING IN HONEYBEES (S13-5)

11:05 Barbara Webb, Edinburgh, UK
ISSUES FOR ROBOT MODELS OF OLFACTORY LEARNING IN INSECTS (S13-6)

11:30 Ramon Huerta, San Diego, USA
ON THE EQUIVALENCE OF THE INSECT BRAIN AND ARTIFICIAL INTELLIGENCE FOR PATTERN RECOGNITION (S13-7)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 14

Molecular mechanisms and spreading of alpha-Synuclein pathology in the brain

Tiago Outeiro and Jochen Klucken, Göttingen and Erlangen

The misfolding and aggregation of specific proteins is a common neuropathological hallmark of many neurodegenerative disorders, including Alzheimer's, Parkinson's, and Huntington's diseases. Parkinson's disease (PD) is a progressive and devastating neurodegenerative disorder, affecting 1% of individuals over 60 years old. The clinical manifestations of PD include rigidity, resting tremor and bradykinesia and result from the loss of dopaminergic neurons that project from substantia nigra pars compacta (SNc) to the striatum. The main pathological hallmark of PD is the presence of cytoplasmic inclusions called Lewy bodies (LBs) composed primarily of apha-synuclein, a small protein (140 amino acids) that is natively unfolded and interacts with multiple proteins and lipids. Although its physiological function remains unclear, alpha-synuclein is clearly involved in the pathogenesis of PD. Three independent missense mutations in the alpha-synuclein gene (A30P, E46K and A53T) lead to the development of familial PD. In addition, early onset of PD can also be caused by duplications and triplications of the alpha-synuclein gene (SNCA). Finally, SNPs in the gene encoding for alpha-synuclein are among the strongest risk factors for the development of PD. Recently, the idea that neurodegenerative diseases associated with protein misfolding and aggregation could be considered prion-like disorders has emerged. In particular, the spreading of alpha-synuclein pathology is thought to contribute to the progression of neurodegeneration. Nevertheless, the molecular determinants underlying secretion, extracellular effects, and transmission of pathology are still unclear, and will be the focus of this symposium. Ultimately, the understanding of these molecular mechanisms might lead to the identification of novel targets for therapeutic intervention.

Symposium 14

Friday, March 15, 2013
9:00 – 12:00, Lecture Hall 105

Chair: *Tiago Outeiro and Jochen Klucken, Göttingen and Erlangen*

09:00 **Opening Remarks**

09:05 Richard Wade-Martins, Oxford, UK
α-SYNUCLEIN REGULATES DOPAMINE NEUROTRANSMISSION SPECIFICALLY IN SUSCEPTIBLE NEURONAL POPULATIONS: THE KEY TO PARKINSON'S PATHO-PHYSIOLOGY? (S14-1)

09:30 Jochen Klucken, Erlangen
AUTOPHAGY AND ALPHA-SYNUCLEIN AGGREGATION (S14-2)

09:55 Tiago Outeiro, Göttingen
α-SYNUCLEIN OLIGOMERIZATION AND NEURONAL DYSFUNCTION: INTRACELLULAR AND EXTRACELLULAR EFFECTS (S14-3)

10:20 **Coffee Break**

10:50 Kostas Vekrellis, Athens, Greece
INVESTIGATION OF THE MECHANISMS OF α-SYNUCLEIN SECRETION IN VIVO (S14-4)

11:15 Jia-Yi Li, Lund, Sweden
LONG-DISTANCE TRAFFICKING OF PARKINSON'S PATHOLOGY IN NEURONS (S14-5)

11:40 Patricia S. Guerreiro, Lisbon, Portugal
LRRK2 INTERACTS WITH α-SYNUCLEIN AND TAU AND IS PRESENT IN LEWY BODIES IN PARKINSON'S DISEASE (S14-6)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 15

Cortical connectivity of crossmodal interactions

Till Schneider and Brigitte Röder, Hamburg

In natural environments inputs of different sensory modalities convey both complementary and redundant information about the environment. Recent research has shown that perception, cognitive functions, and the control of action are shaped by crossmodal inputs. The integration of multiple sensory inputs requires large-scale cortical interactions between distant cortical areas processing the different sensory inputs. The neural mechanisms underlying these large-scale interactions are yet unknown. There are different methodological approaches to investigate interactions between distant brain areas, including invasive and non-invasive electrophysiological techniques, structural and functional brain imaging methods.
The speakers of this symposium will cover the role of large-scale interactions in different functional domains of crossmodal processing: audio-visual speech processing, perceptual processing and the control of action. The talks will cover behavioral and electrophysiological data from humans as well as recent results from functional and structural brain imaging methods. Luc Arnal will highlight the importance of oscillatory neuronal activity for crossmodal processing in audio-visual speech processing. Verena Buchholz will focus on spatial reference frames allowing for crossmodal interactions. Katja Fiehler will focus on visual-somatosensory interactions in both perception and action. And Toemme Noesselt will discuss how cortico-cortical interactions define multisensory perception. Furthermore two Young Investigator Talks will cover predictive coding in arbitrarily learned associations between visual and auditory perceptual features and touch localization under coordinate conflict.
The main focus of the proposed symposium is to uncover the functional and structural connectivity underlying crossmodal integration processes in humans. On a broader perspective, the presentations will provide a framework for the general neural mechanisms of cortico-cortical connectivity in the human brain.

This symposium was supported by DFG SFB 936, Multi-Site Communication in the Brain

Symposium 15

Friday, March 15, 2013
9:00 – 12:00, Lecture Hall 8

Chair: *Till Schneider and Brigitte Röder, Hamburg*

09:00 **Opening Remarks**

09:05 Toemme Noesselt, Magdeburg
HOW CHANGES IN CORTICAL CROSSTALK RELATE TO DIFFERENCES IN MULTISENSORY PERCEPTION (S15-1)

09:35 Verena Buchholz, Hamburg
SPATIAL SELECTIVITY OF CORTICAL RHYTHMS (S15-2)

10:05 Katja Fiehler, Gießen
VISUAL-SOMATOSENSORY INTERACTION FOR PERCEPTION AND ACTION (S15-3)

10:35 **Coffee Break**

10:55 Luc Arnal, New York, USA
PREDICTIVE MECHANISMS AND OSCILLATORY ORGANIZATION: THE CASE OF AUDIO-VISUAL SPEECH PROCESSING (S15-4)

11:25 Stephanie Badde, Hamburg
TOUCH LOCALIZATION UNDER COORDINATE CONFLICT (S15-5)

11:40 Abhilash Dwarakanath, Tübingen
DISENTANGLING CROSS-MODAL TOP-DOWN PREDICTIVE CONTROL BY ACTIVELY MANIPULATING ARBITRARILY LEARNED ASSOCIATIONS (S15-6)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 16

Growing up in the brain: how do axons find their way?

Victor Tarabykin, Berlin

Precise wiring of neural circuits depends on axon guidance to correct targets. The wiring pattern of neurons in every area of the brain is not random, but highly specific. While the number of neurons may be greater than we think, they appear to fall into a finite number of cell types, which are in turn connected with other types of neurons in a regular manner. During the last years an impressive body of data was accumulated on how neurons connect to each other during development to form the complex communication networks that underlie our thoughts, behaviors and emotions. A key step in this process is the navigation of axons as they locate their targets in distant regions of the brain. In the embryo, the growth of axons is guided by molecular signals that exert attractive or repulsive effects. On the other hand axons of distinct cell types have different capacity to response to the same external molecular signals. As development proceeds an axon of a certain neuron can change its responsiveness from attraction to repulsion or even became insensitive. The symposium aims at providing an update on mechanisms of cell type specific connectivity. Thus it will present recent progress in understanding the mechanisms controlling axonal navigation and formation of the complex communication networks that underlie our thoughts, behaviors and emotions. The first presentation by Till Marquardt will focus on the connectivity of spinal cord neurons. He will discuss recent progress on understanding the molecular mechanisms driving the assembly of functional neuromuscular circuitries during embryonic and postnatal development. The mechanisms controlling the motor neuron specification will be discussed by Andrea Huber Brösamle. Three other speakers will discuss cerebral cortex connectivity. Victor Tarabykin will present evidence that making the cortico-spinal tract is a default choice for a cortical projection neuron and will show examples how it is suppressed in neurons making cortico-cortical projections. The lecture by Katherine Kalil will highlight the role of the morphogen Wnt5a and calcium signaling in guiding cortico-spinal and callosal axons. The role of Semaphorins in midline axon guidance will be the main topic of the lecture by Fanny Mann. This symposium aims at providing exiting overview on various mechanism of axon navigation and circuit formation in different brain regions.

Symposium 16

Friday, March 15, 2013
9:00 – 12:00, Lecture Hall 10

Chair: Victor Tarabykin, Berlin

09:00 **Opening Remarks**

09:05 Till Marquardt, Göttingen
WHAT AXONS TELL EACH OTHER: AXON-AXON SIGNALING DURING PERIPHERAL NERVE AND CIRCUIT ASSEMBLY (S16-1)

09:35 Andrea Huber Brösamle, München
MICRORNA-9 PROMOTES THE SWITCH FROM EARLY-BORN TO LATE-BORN MOTOR NEURON POPULATIONS BY REGULATING ONECUT TRANSCRIPTION FACTOR EXPRESSION (S16-2)

10:05 Victor Tarabykin, Berlin
MOLECULAR CONTROL OF CORTICO-CORTICAL AXONAL NAVIGATION (S16-3)

10:35 **Coffee Break**

10:55 Katherine Kalil, Madison, USA
WNT/CALCIUM SIGNALING MEDIATES CORTICAL AXON GROWTH AND GUIDANCE (S16-4)

11:25 Fanny Mann, Marseille, France
CONNECTING LEFT AND RIGHT BRAIN: THE ROLE OF SEMAPHORINS IN MIDLINE AXON GUIDANCE (S16-5)

11:40 Swathi Srivatsa, Berlin
ROLE OF SIP1 IN ORCHESTRATING NEOCORTICAL CONNECTIVITY (S16-6)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 17

Heterogeneity of microglia

Uwe-Karsten Hanisch and Susanne Wolf, Göttingen and Berlin

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

Symposium 17

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

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

09:00 **Opening Remarks**

09:05 Uwe-Karsten Hanisch, Göttingen
MICROGLIAL RESPONDER SUBSETS UPON TLR CHALLENGES (S17-1)

09:35 Rosa Chiara Paolicelli, Zurich, Switzerland
SYNAPTIC PRUNING BY MICROGLIA: SCULPTING BRAIN CONNECTIVITY (S17-2)

10:05 Monica Carson, Riverside, USA
AGE-SPECIFIC HETEROGENEITY IN MICROGLIAL REGULATION OF SYNAPTIC MATURATION AND MAINTENANCE (S17-3)

10:35 **Coffee Break**

10:55 Knut Biber, Freiburg
REGIONAL HETEROGENEITY OF MICROGLIA AND MICROGLIAL RESPONSES (S17-4)

11:25 Susanne Wolf, Berlin
MICROGLIA/MACROPHAGE – GLIOMA INTERACTION (S17-5)

11:55 **Concluding Remarks**

Introductory Remarks to Symposium 18

Optodynamics of channels and receptors

Andrew Plested and Jana Kusch, Berlin and Jena

This symposium highlights new methods to monitor and control electrical signalling in the CNS using light.

Recently, many receptors and channels have been resolved in atomic detail. Dirk Trauner will show how these findings allow reprogramming of ligand-gated ion channels, G-protein coupled receptors, as well as voltage-gated ion channels, to respond to unnatural input signals such as light. The resulting hybrid photoreceptors, which incorporate synthetic photoswitches, can be used to optically control neurons with high precision.
Jana Kusch investigates neuronal HCN pacemaker channels and olfactory CNG channels using confocal patch-clamp fluorimetry. This method combines patch-clamp techniques with confocal fluorescence microscopy, allowing for parallel recording of ligand binding and ion channel activity.
Baron Chanda's lab studies the activation of voltage gated ion channels using spectroscopic methods, combined with electrophysiology and other techniques. He will present his latest research on the activation of sodium channels, probed with voltage clamp fluorimetry and chemical modification.
Teresa Giraldez has developed a library of fluorescent potassium channels, in order to study structural correlates of activation using FRET. Simultaneous electrical and optical recording of BK channels with fluorescent protein inserts allows resolution of transitions that couple calcium binding and voltage sensing to channel activation.
Eric Hosy presents three different super-resolution techniques (STED, PALM and U-PAINT) to study the organisation and the mobility of AMPA receptors inside the synapse. He shows that these receptors are not randomly distributed at synapses but structured in nanodomains. This structured distribution allows high-fidelity synaptic responses.
Viktoria Klippenstein will show a method for photocontrol of glutamate receptors, using unnatural amino acid cross-linkers. These experiments provide biophysical insight into receptor desensitization, and may prove useful for inactivating glutamate receptors in vivo using light.

Symposium 18

Friday, March 15, 2013
9:00 – 12:00, Lecture Hall 104

Chair: Andrew Plested and Jana Kusch, Berlin and Jena

09:00 **Opening Remarks**

09:05 Dirk Trauner, München
OPTOCHEMICAL GENETICS (S18-1)

09:30 Jana Kusch, Jena
PARALLEL RECORDING OF LIGAND BINDING AND ION CHANNEL ACTIVATION USING CONFOCAL PATCH-CLAMP FLUOROMETRY (S18-2)

10:00 Baron Chanda, Madison, USA
STRUCTURAL TRANSITIONS DURING VOLTAGE-DEPENDENT ACTIVATION OF SODIUM CHANNELS (S18-3)

10:25 **Coffee Break**

10:45 Teresa Giraldez, Santa Cruz de Tenerife, Spain
STATE DEPENDENT FRET REPORTS LARGE GATING-RING MOTIONS IN WHOLE BK CHANNELS AT THE MEMBRANE (S18-4)

11:15 Eric Hosy, Bordeaux, France
NANO-ORGANIZATION OF THE AMPA-RECEPTORS INSIDE THE SYNAPSE AND PHYSIOLOGICAL ROLE (S18-5)

11:45 Viktoria Klippenstein, Berlin
PHOTOINACTIVATION OF GLUTAMATE RECEPTORS USING A GENETICALLY ENCODED UNNATURAL AMINO ACID (S18-6)

Introductory Remarks to Symposium 19

GABAergic mechanisms in neurobiology of disease

Jochen C. Meier and Günter Schwarz, Berlin and Köln

Homeostatic regulation of excitation and inhibition – also known as 'E-I balance' – seems to be essential for normal brain function and behavior, and dysregulation of this balance is associated with a plethora of neurological disorders. GABA is the major 'inhibitory' neurotransmitter in the adult brain. Among others, it activates chloride permeable GABA type A receptors (GABA(A)Rs) which normally mediate inhibition of neuronal excitability. Earlier in development or in disease, however, GABA can effect excitation, depending on the chloride reversal potential and the resulting direction of chloride flow through the neuronal plasma membrane. Thus, GABA can be an excitatory or inhibitory neurotransmitter. Furthermore, GABA(A)Rs are found at both non-synaptic and postsynaptic sites, the latter depending on the availability of the scaffold protein gephyrin. Besides its function as a synaptic GABA(A)R anchoring protein, gephyrin is also essential for the biosynthesis of the molybdenum cofactor (MoCo), which in turn is required for detoxification of cellular metabolites. Thus, a complex pattern of intertwined disease mechanisms can emerge as both dysregulation of MoCo biosynthesis and deficits in GABAergic transmission can cause neurodegenerative and mood disorders. This symposium will shed light on the role of the balance between inhibition and excitation for health and disease. We will focus on neuronal chloride homeostasis and discuss disease-relevant mechanisms of gene expression and posttranscriptional as well as post-translational modification of corresponding gene products. Researchers and young investigators should therefore get together and debate on recent discoveries and advances in the field of neurodegenerative and mood disorders, and how novel therapies could look like.

Symposium 19

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 10

Chair: *Jochen C. Meier and Günter Schwarz, Berlin and Köln*

08:30 **Opening Remarks**

08:35 Jean-Marc Fritschy, Zurich, Switzerland
GABA(A) RECEPTORS IN THE PATHOPHYSIOLOGY OF EPILEPSY (S19-1)

09:00 Eva Ruusuvuori & Kai Kaila, Helsinki, Finland
CYTOSOLIC CARBONIC ANHYDRASES IN THE CONTROL OF GABAERGIC EXCITATION AND FEBRILE SEIZURES (S19-2)

09:25 Martin Puskarjov, Helsinki, Finland
ACTIVITY-DEPENDENT CLEAVAGE OF KCC2 MEDIATED BY CALPAIN SUGGESTS A GENERAL MECHANISM FOR EROSION OF INHIBITION (S19-3)

09:40 **Coffee Break**

09:55 Jochen C. Meier, Berlin
RNA PROCESSING IN TEMPORAL LOBE EPILEPSY (S19-4)

10:20 Falko Fuhrmann, Bonn
OPTOGENETIC CONTROL OF HIPPOCAMPAL OSCILLATIONS BY STIMULATION OF MEDIAL SEPTAL PV^+ INTERNEURONS (S19-5)

10:35 Bernhard Lüscher, Penn State, USA
GABAERGIC CONTROL OF DEPRESSIVE AND ANTIDEPRESSIVE BRAIN STATES (S19-6)

11:00 Günter Schwarz, Köln
GEPHYRIN IN NEURODEGENERATIVE DISEASE (S19-7)

11:25 **Concluding Remarks**

Introductory Remarks to Symposium 20

Functional specializations of neuroglia as critical determinants of brain activity

Christine Rose and Frank Kirchhoff, Düsseldorf and Homburg

The human brain is an extraordinary complex structure, consisting of about 80 billion neurones connected by numerous synapses, and of an equal number of neuroglial cells. Each second, it conducts 10^{14} "arithmetic" operations, which are the basis for processes ranging from basic regulatory activity to learning, memory and cognition.
To be able to fulfill all tasks related to information input, processing and output, the major neuronal cell categories (sensory and principal neurones, interneurones and motoneurones) are highly specialized and functionally divided into subpopulations. The basic neuroglial cell classes are usually considered a homogeneous cell population, often only addressed as "the astrocyte" or "the oligodendrocyte". As such, they are generally attributed several essential functions. Astrocytes detect and respond to neuronal activity, they can affect neuronal performance, regulate the cerebral blood flow, take up glucose and supply the neighbouring neurones with energy metabolites. Oligodendrocytes enwrap neuronal axons with lipid-rich lamellae to enhance action potential propagation and to prevent electrical shortcuts. Other macroglial cells such as radial glia or NG2 cells can serve as neural stem cells, generating new neurons or oligodendrocytes, respectively, in the developing and the adult brain.
Recent research, however, provided compelling evidence that this picture might be entirely wrong. Glial cells are by no means homogeneous, but consist of various subpopulations, each equipped with a distinct repertoire of ion channels, receptors, transporters and other signalling components. Thereby, glial cells developed functional specializations to meet the specific requirements of distinct network circuits in different brain regions or developmental stages. These findings represent a fundamentally new concept of our understanding of how the brain works, putting glial cells into a prominent focus of attention.

Symposium 20

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 104

Chair: Christine Rose and Frank Kirchhoff, Düsseldorf and Homburg

08:30 **Opening Remarks**

08:35 Yuji Ikegaya, Tokyo, Japan
SPATIOTEMPORAL ORGANIZATION OF ASTROCYTIC CALCIUM ACTIVITY (S20-1)

09:00 Gertrudis Perea, Cambridge, USA
ASTROCYTES MODULATE INFORMATION PROCESSING IN VISUAL CORTEX (S20-2)

09:25 Moritz Rossner, Göttingen
REGIONAL AND DYNAMIC MISEXPRESSION OF MYELIN-RELATED AND ASTROCYTE-SPECIFIC TRANSCRIPTS IN SHARP1/2 MOUSE MUTANTS (S20-3)

09:50 **Coffee Break**

10:05 Christine R. Rose, Düsseldorf
HETEROGENEITY OF GLIAL GLUTAMATE UPTAKE (S20-4)

10:30 Daniela C. Dieterich, Magdeburg
ROLE OF PROTEIN TRANSLATION FOR ASTROGLIAL HETEROGENEITY IN HIPPOCAMPAL AND CORTICAL ASTROCYTES (S20-5)

10:55 Kristina Lippmann, Berlin
ALTERED SYNAPTIC PLASTICITY AND RHYTHMIC OSCILLATIONS IN THE HIPPOCAMPUS FOLLOWING VASCULAR INJURY AND BLOOD-BRAIN BARRIER DYSFUNCTION (S20-6)

11:10 Anne C. Wolfes, Göttingen
MOLECULAR MECHANISMS OF ASTROCYTE VESICLE RELEASE AT SYNAPTIC INTERFACES (S20-7)

11:25 **Concluding Remarks**

Introductory Remarks to Symposium 21

Molecular mobility, a variable of neuronal communication

Martin Heine, Magdeburg

The reliability of signal transmission in chemical synapses is highly dependent on the structural alignment between pre- and postsynaptic components. Several processes as endo-exocytosis, intracellular interaction with scaffold proteins and intersynaptic adhesion complexes have been suggested to tightly regulate the organisation of the local signal molecule population within the chemical synapse. Looking on the thermal agitation of transmembrane signalling molecules by surrounding lipid molecules visualises an amazing flexibility of their surface distribution and provoke the question: How precise or reliable can a single synapse signal be if all is in motion?

The consequent application of imaging techniques like fluorescent recovery after photobleach (FRAP) and single particle tracking in combination with cell biology experiments and electrophysiology has discovered a new relevant variable for neuronal communication, the stochastic molecular diffusion within the membrane. Despite the tightly packed molecular organisation of synapses, glutamatergic and gabaergic synapses need certain flexibility. Analysis of molecular mobility gives new aspects for time and space relation to molecular interactions influencing neuronal communication.

The presentations within the symposium will focus on different populations of molecules as AMPAR (O. Thoumine), GABAAR (S. Levi), Neurexins (Y. Fu), metabotropic receptors (M. Renner) and calcium channels (M. Heine), which are all involved in local signalling complexes and are key players in synaptic communication.

Symposium 21

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 105

Chair: Martin Heine, Magdeburg

08:30 **Opening Remarks**

08:35 Olivier Thoumine, Bordeaux, France
ASSEMBLY OF FUNCTIONAL POST-SYNAPSES BY NEUREXIN-NEUROLIGIN ADHESIONS: ROLE OF LATERAL DIFFUSION (S21-1)

09:05 Sabine Lévi, Paris, France
MEMBRANE DYNAMICS OF THE K^+/CL^- CO-TRANSPORTER KCC2: A NOVEL, ACTIVITY-DEPENDENT MECHANISM OF NEURONAL CHLORIDE HOMEOSTASIS (S21-2)

09:35 Yu Fu, San Francisco, USA
FROM TRANSMISSION TO CONNECTION, A STUDY IN GABAGERIC SYNAPSE (S21-3)

10:05 **Coffee Break**

10:25 Marianne Renner, Paris, France
COMPETITION OF GLYCINE AND GABA RECEPTORS FOR SCAFFOLDING BINDING SITES AT SPINAL CORD INHIBITORY SYNAPSES (S21-4)

10:55 Martin Heine, Magdeburg
CALCIUM CHANNEL DYNAMIC IN THE NEURONAL MEMBRANE (S21-5)

11:25 **Concluding Remarks**

Introductory Remarks to Symposium 22

Insect motor control "From ion channels to learning, movement, and robotics"

Roland Strauss and Carsten Duch, Mainz

The production of motor behavior requires information flow from higher brain centers for initiation, decision making and planning via central pattern generating circuitry to the musculature. Various lateral, forward, and feedback interactions between different circuit levels and the muscular/skeletal system ensure reliable execution of movement as well as adaptive changes. A satisfactory understanding of motor circuitry requires analysis of the component neurons, their physiological properties, and their synaptic connections. However, understanding the resulting movements requires additional analysis of the biomechanical properties of the muscular and skeletal system. Finally, each level is subject to evolutionary, developmental and experience dependent changes. Consequently, research on motor control comprises multiple disciplines. This symposium attempts to bridge gaps between different levels of analysis by using insects as model organisms.

On the single neuron level S. Ryglewski (Tempe, USA) will show how RNA modifications produce multiple LVA and HVA calcium currents from one gene in *Drosophila* motoneurons and address resulting functions for courtship song and speciation. J.F. Evers (Cambridge, UK) will show that multiple good solutions exist for synaptic partner matching during the development of larval *Drosophila* motor circuitry. K. Hellekes, M. Gruhn and A. Büschges (Köln) address the motor flexibility in adult pattern generating networks during goal-directed behavior, and a related student talk by E. Berg (Köln) will analyze the roles of non-spiking interneurons in this context. Higher brain centers involved in decision making and motor learning will be addressed by T. Krause and R. Strauss (Mainz). They will show that plasticity improves oriented locomotion at different time scales ranging from the short-term integration of sensory information to life-long forms of learning. In a student talk J. Ache (Bielefeld) will analyze information transfer between mechanosensory brain and thoracic motor centers. Finally L. Theunissen and V. Dürr (Bielefeld) will use a large-scale database of natural movement sequences to analyze stick insect stepping patterns and derive predictions on neuronal control mechanisms and design principles for bio-inspired robotics.

Symposium 22

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 9

Chair: Roland Strauss and Carsten Duch, Mainz

08:30 **Opening Remarks**

08:35 Stefanie Ryglewski, Tempe, USA and Mainz
FROM ION CHANNELS TO FUNCTION, BEHAVIOR, AND SPECIATION (S22-1)

09:00 Jan Felix Evers, Cambridge, UK
OPPORTUNE WIRING OF MOTOR CIRCUITS DURING DEVELOPMENT OF *DROSOPHILA* (S22-2)

09:25 Katja Hellekes, Matthias Gruhn, Ansgar Büschges, Köln
MOTOR FLEXIBILITY IN INSECT LOCOMOTION: CHANGING WALKING DIRECTION (S22-3)

09:50 **Coffee Break**

10:10 Eva Berg, Köln
SINGLE PERTURBATIONS CAUSE SUSTAINED CHANGES IN SEARCHING BEHAVIOR OF STICK INSECTS (S22-4)

10:25 Tammo Krause and Roland Strauss, Mainz
LEARNING IMPROVES COMPLEX MOTOR BEHAVIORS (S22-5)

10:50 Leslie Theunissen and Volker Dürr, Bielefeld
TWO CLASSES OF STEPS REVEALED BY THE NATURAL STATISTICS OF LOCOMOTION (S22-6)

11:15 Jan Marek Ache, Bielefeld
A NEURAL BASIS FOR SPATIAL COORDINATION OF LIMBS: DESCENDING INTERNEURONS IN THE STICK INSECT ANTENNAL MECHANOSENSORY SYSTEM (S22-7)

Introductory Remarks to Symposium 23

Purinergic signaling in sensory systems

Christian Lohr and Antje Grosche, Hamburg and Leipzig

In the past two decades, purinergic signaling has evolved into a major field of neuroscience and in particular of sensory information processing. Purinoceptors, which can be subdivided into adenosine-sensitive P1 receptors and ATP-sensitive P2 receptors, are highly expressed in sensory epithelia such as the retina and the olfactory epithelium, as well as in brain centers involved in analysis of sensory information. In this symposium, the latest advances in purinergic signaling research in the visual, olfactory and auditory systems are summarized. Antje Grosche and Lysann Wagner present data on retinal Müller cells, addressing a major issue concerning purinergic signaling, the significance of purinoceptors for glial cell physiology. Gary Housley investigates purinergic signaling in physiology, development, and degeneration of the cochlea. Daniela Hirnet and Natalie Rotermund demonstrate how purinoceptors are involved in neuron-glia-interactions as well as in the adjustment of network activity in the olfactory bulb, thereby contributing to odor information processing. Colleen Hegg studies the role of purinergic signaling for cell proliferation and hence regeneration of the olfactory epithelium, in which lifelong neurogenesis and replacement of degenerated sensory neurons takes place.

Symposium 23

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 102

Chair: Christian Lohr and Antje Grosche, Hamburg and Leipzig

08:30 **Opening Remarks**

08:35 Antje Grosche, Leipzig
INFLUENCE OF PURINERGIC SIGNALING ONTO THE PHYSIOLOGY AND PATHOPHYSIOLOGY OF RETINAL (MÜLLER) GLIAL CELLS (S23-1)

09:00 Lysann Wagner, Leipzig
GLIOTRANSMITTER RELEASE FROM RETINAL MÜLLER GLIAL CELLS (S23-2)

09:15 Gary Housley, Sydney, Australia
PURINERGIC SIGNALING IN THE COCHLEA (S23-3)

09:50 **Coffee Break**

10:10 Daniela Hirnet, Hamburg
PURINERGIC SIGNALING IN THE OLFACTORY BULB (S23-4)

10:35 Natalie Rotermund, Hamburg
A_1 RECEPTOR-MEDIATED MODULATION OF NEURONAL NETWORK ACTIVITY IN THE OLFACTORY BULB (S23-5)

10:50 Colleen Hegg, East Lansing, USA
PURINERGIC SIGNALING IN THE OLFACTORY EPITHELIUM (S23-6)

11:25 **Concluding Remarks**

Introductory Remarks to Symposium 24

Practically profiting from the complexity of massively parallel electrophysiological data

Michael Denker and Sonja Grün, Jülich

Probing the organization of interactions within and across neuronal populations is an approach to uncover the principles of brain processing, driven by the rapidly advancing technical capabilities to record from hundreds of neurons in parallel. However, the complexity of these massive data streams and sophisticated behavioral paradigms calls for novel approaches and mathematical tools to exploit the parallel aspect of the data. Neuroinformatics is complementing these efforts by developing data models, storage concepts, and software tools tailored to meet these challenges.

This symposium brings together scientists who drive forward this line of research. Wilson Truccolo is a theoretical neuroscientist who investigates information coding by neuronal ensembles. His recent work has focused on relating the spike emission of single neurons to the temporal structure of population activity. Aimed at reconciling notions of synchrony on various scales of observation, Michael Denker links the relationship between the dynamics of precise synchronous activity of groups of neurons (cell assemblies) and rhythmic signals. Jozsef Csicsvari has pioneered the establishment of massively parallel recording techniques. He studies the role of assembly coding and oscillatory network dynamics in processes that govern the formation and retrieval of memory. Innovative approaches to study the patterns of population activity in the context of visual information coding are in the center of Hamutal Slovin's work. She analyzes the signatures of concerted network activity obtained by modern imaging technologies in behaving monkeys. Two young investigators, Iris Grothe and Stefan Schaffelhofer, present their current experimental work using multi-area recordings. The challenges of practically implementing data analysis protocols will be discussed by Andrew Davison. He is well-known for his numerous contributions in neuroinformatics that provide neuroscientists with advanced software tools, such as for provenance tracking. We encourage a discussion on how analysis approaches and neuroinformatics tools can be integrated into an efficient, synergistic and traceable workflow.

This symposium is supported by the German INCF Node (www.g-node.org).

Symposium 24

Saturday, March 16, 2013
8:30 – 11:30, Lecture Hall 8

Chair: Michael Denker and Sonja Grün, Jülich

08:30 **Opening Remarks**

08:35 Wilson Truccolo, Providence, USA
CHALLENGES IN THE STATISTICAL MODELING OF COLLECTIVE DYNAMICS IN NEURONAL ENSEMBLES (S24-1)

09:00 Michael Denker, Jülich
LINKING THE SPATIAL STRUCTURES OF PRECISE SPIKE SYNCHRONIZATION AND LOCAL FIELD POTENTIALS IN MOTOR CORTEX (S24-2)

09:25 Andrew Davison, Gif-sur-Yvette, France
PROVENANCE TRACKING FOR COMPLEX DATA ANALYSIS WORKFLOWS IN NEUROSCIENCE (S24-3)

09:50 Stefan Schaffelhofer, Göttingen
OBJECT OR GRIP TYPE REPRESENTATION? A COMPARATIVE POPULATION STUDY OF MACAQUE HAND GRASPING AREAS AIP, F5, AND M1 (S24-4)

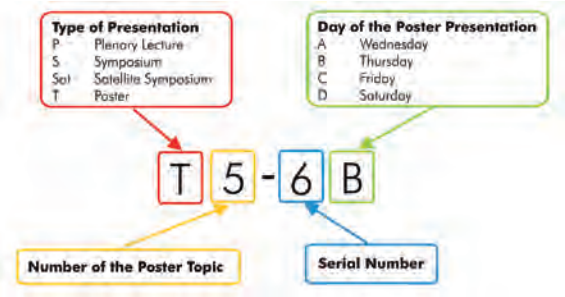
10:05 **Coffee Break**

10:25 Jozsef Csicsvari, Klosterneuburg, Austria
IDENTIFICATION OF ASSOCIATED CELL ASSEMBLIES IN THE INTERCONNECTED BRAIN REGIONS OF THE HIPPOCAMPUS AND THE ENTORHINAL CORTEX (S24-5)

10:50 Iris Grothe, Frankfurt/Main
USING LARGE SCALE RECORDINGS IN IN PRIMATE VENTRAL VISUAL PATHWAY TO INVESTIGATE SIGNAL ROUTING BY INTER-AREAL GAMMA-BAND SYNCHRONIZATION (S24-6)

11:05 Hamutal Slovin, Ramat Gan, Israel
NEURONAL CORRELATES OF VISUAL PROCESSING AND PERCEPTION REVEALED BY VSDI IN BEHAVING MONKEYS (S24-7)

Explanation of Abstract Numbers



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

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

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

Example

T21-2B
T = poster to a poster topic
21 = the poster topic is No. 21, i.e. "Motor Systems"
2 = serial number (even number, i.e. second 45 min of each session)
B = indicates the day, i.e. Thursday

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

Thursday, March 14, 2013
13:45 -14:30 h and 16:15 -17:00 h in the poster area 21.

Poster Topics

Poster Topic	Wednesday	Thursday	Friday	Saturday
T1: Stem cells, neurogenesis and gliogenesis	T1-1A – T1-9A	T1-1B – T1-9B	T1-1C – T1-9C	T1-1D – T1-8D
T2: Axon and dendrite development, synaptogenesis	T2-1A – T2-6A	T2-1B – T2-6B	T2-1C – T2-6C	T2-1D – T2-6D
T3: Developmental cell death, regeneration and trans-plantation	T3-1A – T3-2A	T3-1B – T3-3B	T3-1C – T3-3C	T3-1D – T3-2D
T4: Neurotransmitters, retrograde messengers and cytokines	T4-1A – T4-3A	T4-1B – T4-2B	T4-1C – T4-2C	T4-1D – T4-3D
T5: G Protein-linked and other receptors	T5-1A – T5-3A	T5-1B – T5-2B	T5-1C – T5-2C	T5-1D – T5-2D
T6: Ligand-gated, voltage-dependent ion channels, and transporters	T6-1A – T6-8A	T6-1B – T6-8B	T6-1C – T6-7C	T6-1D – T6-8D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T7: Synaptic transmission, pre- and postsynaptic organization	T7-1A – T7-11A	T7-1B – T7-11B	T7-1C – T7-11C	T7-1D – T7-11D
T8: Synaptic plasticity, LTP, LTD	T8-1A – T8-8A	T8-1B – T8-8B	T8-1C – T8-7C	T8-1D – T8-7D
T9: Glia, glia-neuron interactions	T9-1A – T9-6A	T9-1B – T9-6B	T9-1C – T9-6C	T9-1D – T9-6D
T10: Aging and developmental disorders	T10-1A – T10-4A	T10-1B – T10-5B	T10-1C – T10-5C	T10-1D – T10-4D
T11: Alzheimer's, Parkinson's and other neuro-degenerative diseases	T11-1A – T11-12A	T11-1B – T11-13B	T11-1C – T11-13C	T11-1D – T11-13D
T12: Neuroimmunology, inflammation and neuro-protection	T12-1A – T12-6A	T12-1B – T12-5B	T12-1C – T12-4C	T12-1D – T12-5D
T13: Cognitive, emotional, behavioral state disorders and addiction	T13-1A – T13-6A	T13-1B – T13-6B	T13-1C – T13-7C	T13-1D – T13-6D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T14: Vision: invertebrates	T14-1A – T14-3A	T14-1B – T14-3B	T14-1C – T14-3C	T14-1D – T14-3D
T15: Vision: retina and subcortical pathways	T15-1A – T15-8A	T15-1B – T15-9B	T15-1C – T15-9C	T15-1D – T15-8D
T16: Vision: striate and extrastriate cortex, eye movement and visuomotor processing	T16-1A – T16-8A	T16-1B – T16-9B	T16-1C – T16-10C	T16-1D – T16-9D
T17: Auditory mechanoreceptors, vestibular, cochlea, lateral line and active sensing	T17-1A – T17-6A	T17-1B – T17-6B	T17-1C – T17-5C	T17-1D – T17-5D
T18: Auditory system: subcortical and cortical processing	T18-1A – T18-12A	T18-1B – T18-11B	T18-1C – T18-12C	T18-1D – T18-12D
T19: Chemical senses: olfaction, taste, others	T19-1A – T19-20A	T19-1B – T19-21B	T19-1C – T19-21C	T19-1D – T19-19D
T20: Somatosensation: touch, temperature, proprioception, nociception	T20-1A – T20-3A	T20-1B – T20-3B	T20-1C – T20-3C	T20-1D – T20-3D

Poster Topic	Wednesday	Thursday	Friday	Saturday
T21: Motor systems	T21-1A – T21-9A	T21-1B – T21-10B	T21-1C – T21-10C	T21-1D – T21-9D
T22: Homeostatic and neuroendocrine systems, stress response	T22-1A – T22-3A	T22-1B – T22-2B	T22-1C – T22-3C	T22-1D – T22-3D
T23: Neural networks and rhythm generators	T23-1A – T23-10A	T23-1B – T23-9B	T23-1C – T23-9C	T23-1D – T23-10D
T24: Attention, motivation, emotion and cognition	T24-1A – T24-12A	T24-1B – T24-10B	T24-1C – T24-10C	T24-1D – T24-11D
T25: Learning and memory	T25-1A – T25-15A	T25-1B – T25-16B	T25-1C – T25-16C	T25-1D – T25-17D
T26: Computational neuroscience	T26-1A – T26-13A	T26-1B – T26-12B	T26-1C – T26-12C	T26-1D – T26-13D
T27: Techniques and demonstrations	T27-1A – T27-6A	T27-1B – T27-7B	T27-1C – T27-5C	T27-1D – T27-6D

T1: Stem cells, neurogenesis and gliogenesis

Wednesday

T1-1A DELETION OF P75 RECEPTORS INDUCES SPECIFIC EFFECTS WITHIN THE HIPPOCAMPAL FORMATION
Oliver von Bohlen und Halbach, Ruben Busch, Miriam Vogt, Robert Poser, Marian Baldus, Peter Gass, Martin Dokter

T1-2A DEVELOPMENTAL DYNAMICS OF IGF-SIGNALING IN CORTICAL PROGENITORS: CONTROL OF AND THROUGH FORKHEAD TRANSCRIPTION FACTORS
Tanja Vogel, Shalaka Wahane, Riccardo Vezzali, Stefan Weise, Kathrin Thedieck, Kerstin Krieglstein

T1-3A MIGRATORY BEHAVIOR OF DENTATE GRANULE CELLS
Shaobo Wang, Shanting Zhao, Xuejun Chai, Jiawei Li, Mirjam Sibbe, Gary L. Westbrook, Michael Frotscher

T1-4A A DIFFERENTIAL PROTEOME ANALYSIS OF THE OLFACTORIC BULB, CEREBELLUM AND CEREBRAL CORTEX OF RATS INDICATES CHANGES OF PROTEIN EXPRESSIONS DURING DEVELOPMENT
Michael Wille, Oliver Schmitt, Grit Lessner, Antje Schümann, Norbert Ulfig, Stefan Mikkat, Michael Kreutzer, Michael Glocker, Andreas Wree

T1-5A THE (PRO)RENIN RECEPTOR / ATP6AP2 IS EXPRESSED IN THE MURINE HIPPOCAMPUS BY ADULT AND NEWLY GENERATED NEURONS AND IS INVOLVED IN ADULT HIPPOCAMPAL NEUROGENESIS
Simon Thomas Schäfer, Jörg Peters, Oliver von Bohlen und Halbach

T1-6A DIRECT DIFFERENTIATION OF HUMAN IPS CELLS INTO SELF-RENEWING NEURAL PROGENITORS BY SMALL MOLECULES
Raul Bukowiecki, J. Adjaye, A. Prigione

T1-7A NEURONAL DIFFERENTIATION OF HUMAN INDUCED PLURIPOTENT STEM CELLS AND ESTABLISHMENT OF APPROPRIATE ANALYSIS METHODS
Sandra Horschitz, Friederike Matthäus, Jochen Utikal, Patrick Schloss, Andreas Meyer-Lindenberg

T1-8A TEMPORAL LOBE EPILEPSY IS ASSOCIATED WITH AN IRREVERSIBLE CHANGE OF THE NEUROGENIC NICHE
Ute Häussler, Carola A. Haas

T1-9A CNTF INHIBITS PROLIFERATION AND PROMOTES EARLY DIFFERENTIATION OF PROGENITOR CELLS IN NEURAL STEM CELL CULTURES FROM THE ADULT SUBVENTRICULAR ZONE
Sarah Frerix, B.P.S. Chakrapani, Hans-Dieter Hofmann, Matthias Kirsch

Thursday

T1-1B CNTF PROMOTES THE MAINTENANCE OF NEURAL STEM CELLS IN CULTURES FROM THE ADULT MOUSE SUBVENTRICULAR ZONE
Judith M. Flurer, B.P.S. Chakrapani, Hans-Dieter Hofmann, Matthias Kirsch

T1-2B ALTERED DENSITIES AND COMPROMISED MIGRATION OF CORTICAL INTERNEURONS IN POLYSIALIC ACID-DEFICIENT MICE
Tim Kröcher, Iris Röckle, Yuchio Yanagawa, Birgit Weinhold, Hannelore Burkhardt, Herbert Hildebrandt

T1-3B BAF155 CONTROLS NEUROGENESIS BY POTENTIATING PAX6-DEPENDENT TRANSCRIPTIONAL ACTIVITY
Tran Cong Tuoc, Anastassia Stoykova

T1-4B SUNITINIB - A CROSSTALK OF ANTIANGIOGENIC AND NEUROPROTECTIVE EFFECTS
Stefan W. Hock, Zheng Fan, Tina Sehm, Michael Buchfelder, Ilker Y. Eyüpoglu, Nic E. Savaskan

T1-5B ANALYSIS OF POLYSIALIC ACID EXPRESSION BY NG2 GLIA IN DEVELOPMENT AND DURING REMYELINATION AFTER CUPRIZONE-INDUCED DEMYELINATION
Sebastian Werneburg, Martina Mühlenhoff, Thomas Skripuletz, Martin Stangel, Herbert Hildebrandt

T1-6B ANALYZING SCHWANN CELL DEVELOPMENT ALONG GROWING AXONS
Stephan Heermann, Markus H. Schwab, Kerstin Krieglstein

T1-7B NEURONAL MIGRATION ILLUMINATED: A LOOK UNDER THE HOOD OF THE LIVING NEURON
David Joseph Solecki, Niraj Trivedi, Joseph Ramahi

T1-8B THE ROLE OF FEEDBACK SIGNALING DURING CORTICOGENESIS
Srinivas Parthasarathy, Anjana Nityanandam, Santos Franco, Ulrich Mueller, Victor Tarabykin

T1-9B FUNCTIONAL ANALYSIS OF STAR-FAMILY PROTEINS DURING OLIGODENDROGENESIS IN THE RODENT FOREBRAIN
Sabrina Schröder, Alexander von Holst

Friday

T1-1C CHONDROITINSULFOTRANSFERASES AND THEIR ROLE DURING FOREBRAIN DEVELOPMENT
Denise Harrach, Alexander von Holst

T1-2C CDK5RAP2 EXPRESSION DURING MURINE AND HUMAN BRAIN DEVELOPMENT CORRELATES WITH CELLULAR PHENOTYPE IN MCPH3 PATIENTS
Lina Issa, Nadine Kraemer, Christian H. Rickert, Olaf Ninnemann, Gisela Stoltenburg-Didinger, Deborah Morris-Rosendahl, Angela M. Kaindl

T1-3C ASTROGLIAL CONNEXINS IN ADULT NEUROGENESIS: GAP JUNCTIONAL COUPLING IS MORE IMPORTANT THAN ADHESION
Jiong Zhang, Peter Bedner, Stephanie Griemsmann, Radek Dobrowolski, Karen Maass, Robert Pascal Requardt, Indra Lübkemeier, Klaus Willecke, Christian Steinhäuser, Martin Theis

T1-4C GLIAL CELL DEVELOPMENT IN DROSOPHILA: FROM CELL FATE SPECIFICATION TO FUNCTION
Benjamin Altenhein, Christian M. von Hilchen, Jan Dietrich, Alvaro E. Bustos, Andres de Visser, Tina K. Altenhein

T1-5C GENERATION OF MORBUS NIEMANN-PICK TYP C1 PATIENT SPECIFIC INDUCED PLURIPOTENT STEM CELLS
Michaela Trilck, Rayk Hübner, Arndt Rolfs, Moritz J. Frech

T1-6C ROLES OF NEUROD2/6 IN CORTICAL PLATE FORMATION AND ESTABLISHMENT OF PYRAMIDAL NEURON IDENTITY
Kuo Yan, Ingo Bormuth, Markus H. Schwab, Klaus-Armin Nave, Victor Tarabykin

T1-7C MCPH AND EFFECTS OF CDK5RAP2 DOWN-REGULATION IN MURINE EMBRYONIC STEM CELLS
Nadine Krämer, Lina Issa, Gerda Neubert, Andrea Seiler, Olaf Ninnemann, Angela M. Kaindl

T1-8C INTERACTIONS BETWEEN THE MENINGES AND THE CORTICAL NEUROEPITHELIUM DURING MOUSE EMBRYONIC NEUROGENESIS
Richard Sturm, Alexander von Holst

T1-9C NEW INSIGHTS ON TGFSS AND FOXG1 CROSSTALK DURING EMBRYONIC BRAIN DEVELOPMENT
Riccardo Vezzali, Tanja Vogel

Saturday

T1-1D ASTROCYTE-ASSISTED NEURONAL DIFFERENTIATION OF IPS CELLS DERIVED FROM SKIN BIOPSIES OF PARKINSON´S DISEASE PATIENTS WITH GENETIC ALTERATIONS
Lisandro Jorge Falomir Lockhart, Michelle Gralle Botelho, Luis M.A. Oliveira, Sally K. Mak, Kun-Han Lin, Holger Taschenberger, Donna J. Arndt-Jovin, Birgitt Schuele, Thomas M. Jovin

T1-2D TGFß-IGF SIGNALING INTERPLAY IN MURINE FOREBRAIN DEVELOPMENT
Shalaka Dhanraj Wahane, Riccardo Vezzali, Stefan Weise, Mirja T. Prentzell, Kathrin Thedieck, Kerstin Krieglstein, Tanja Vogel

T1-3D TGFBR2 CONDITIONAL KNOCK-OUT IN DEVELOPING TELENCEPHALON REVEALS NEUROVASCULAR DEFECTS
Nicole Hellbach, Shalaka Wahane, Tanja Vogel

T1-4D NEURONAL BHLH PROTEINS NEUROD2/6 REGULATE CORTICAL COMMISSURE FORMATION PRIOR TO MIDLINE INTERACTIONS
Ingo Bormuth, Kuo Yan, Tomoko Yonemasu, Maike Gummert, Mingyue Zhang, Sven Wichert, Olga Grishina, Alexander Pieper, Weiqi Zhang, Sandra Goebbels, Victor Tarabykin, Klaus-Armin Nave, Markus Schwab

T1-5D DEVELOPMENTAL CHANGES IN THE COMPOSITION OF THE OLFACTORY BULB LAYERS IN THE AMERICAN MINK (NEOVISON VISON VAR. ATRATUS)
Elke Weiler, Willi Bennegger

T1-6D ROLE OF HISTONE MODIFICATIONS DURING CEREBRAL CORTEX DEVELOPMENT
Deborah Roidl, Stefanie Heidrich, Jan Pruszak, Tanja Vogel

T1-7D STAR FAMILY PROTEINS: CORTICAL EXPRESSION PATTERN AND FUNCTION IN MOUSE CORTICAL NEURAL STEM/PROGENITOR CELLS
Alexander von Holst, Bettina Bertam

T1-8D DETERMINATION OF THE TGFBR MEDIATED PROTEOME IN THE CONTEXT OF NEUROVASCULAR DEVELOPMENT OF THE FOREBRAIN
Stefan Weise, Peer-Hendrik Kuhn, Nicole Hellbach, Stefan F. Lichtenthaler, Kathrin Thedieck, Tanja Vogel

T2: Axon and dendrite development, synaptogenesis

Wednesday

T2-1A SEROTONIN GRADIENT IS IMPORTANT FOR CORRECT GUIDANCE OF PIONEER AXONS DURING MOLLUSC AND POLYCHAETE DEVELOPMENT
Elena E. Voronezhskaya, Viktor V. Starunov, Vyacheslav A. Dyachuk

T2-2A WIRING UP SENSORY NEOCORTEX UNDER CONDITIONS OF MASSIVE CELLULAR DISORGANIZATION: DOES THE THALAMUS FIND ITS ECTOPIC TARGET CELLS IN REELER MUTANT MICE?
Robin J. Wagener, Jochen F. Staiger

T2-3A ROLE OF DHHC3 TYROSINE PHOSPHORYLATION IN THE CONTROL OF ITS EXPRESSION AND FUNCTIONAL ACTIVITY
Tatiana Kuznetsova, Patricia Maria-Jeanne Lievens, Natalia Gorinski, Gaga Kochlamazashvili, Evgeni Ponimaskin, Alexander Dityatev

T2-4A LAYER 6B AS A REMNANT OF THE DEVELOPING SUBPLATE - A MORPHOLOGICAL COMPARISON
Manuel Marx, Ileana Hanganu-Opatz, Werner Kilb, Heiko Luhmann, Dirk Feldmeyer

T2-5A FUNCTIONAL ANALYSIS OF LRP4 DURING DENDRITIC DEVELOPMENT
Andromachi Karakatsani, Stephan Kröger

T2-6A ISOFORM-SPECIFIC FUNCTIONS OF PROFILIN1 AND PROFILIN2A IN THE MOUSE HIPPOCAMPUS
Sabine Zessin, Anita Remus, Martin Rothkegel, Martin Korte, Kristin Michaelsen-Preusse

Thursday

T2-1B POSTEMBRYONIC DEVELOPMENT OF THE LOCUST MUSHROOM BODY
René Eickhoff, Gerd Bicker

T2-2B DIFFERENT APPROACHES TO ENHANCE NEURONAL FIBRE GROWTH IN ORGANOTYPIC DOPAMINERGIC BRAIN SLICE CO-CULTURES
Katja Sygnecka, Claudia Heine, Nico Scherf, Heike Franke

T2-3B REGULATION OF SYNAPTIC STRUCTURE AND FUNCTION BY THE CDC42 GAP, NOMA-GAP
Steffen Schuster, Marta Rosário

T2-4B NEDDYLATION CONTROLS DENDRITIC SPINE DEVELOPMENT AND STABILITY: CRITICAL ROLE OF PSD-95 NEDDYLATION
Marisa Brockmann, Annette Vogl, Sebastian Giusti, Valentin Stein, Damian Refojo

T2-5B ROLE OF NEUROD TRANSCRIPTION FACTORS IN PYRAMIDAL NEURON DIFFERENTIATION
Olga Grishina, Ingo Bormuth , Kuo Yan, Tomoko Yonemasu, Sandra Goebbels, Klaus-Armin Nave, Victor Tarabykin, Markus H. Schwab

T2-6B MACHR SIGNALING IN PERINATAL NEOCORTEX PROMOTES EXPRESSION OF SYNAPTIC PROTEINS
Petra Wahle, Olga Arne, Mohammad IK Hamad, Janine R. Neumann

Friday

T2-1C THE SURVIVAL PROMOTING PEPTIDE Y-P30 INDUCES SRC PHOSPHORYLATION IN AXONAL GROWTH CONES
Martin Meschkat, Janine R Neumann, Petra Wahle

T2-2C REELIN AND THE CDC42/RAC1 GUANINE NUCLEOTIDE EXCHANGE FACTOR αPIX/ARHGEF6 PROMOTE DENDRITIC GOLGI TRANSLOCATION
Eckart Förster, Georg Rosenberger, Maurice Meseke

T2-3C GROWTH PATTERNS OF SENSORY NEURON AXON TERMINALS IN THE DEVELOPING OLFACTORY BULB
Thomas Hassenklöver, Ivan Manzini

T2-4C DECIPHERING THE NEUREXIN CODE IN THE NEURONAL CIRCUITRY
Dietmar Schreiner, Thi-Minh-Phuc Nguyen, Jovan Simicevic, Alexander Schmidt, Peter Scheiffele

T2-5C DEVELOPMENTALLY REGULATED CHANGES OF LOCAL PROTEOMES AT SYNAPTIC STRUCTURES
Elmer Antileo Ibarra, Peter Landgraf, Thilo Kähne, Karin Richter, Karl-Heinz Smalla, Daniela C. Dieterich

T2-6C A PRECISE TEMPORAL COHERENCY BETWEEN RECEPTOR EXPRESSION, NEURONAL ACTIVITY, AND AP-1 DEPENDENT TRANSCRIPTION REGULATES DENDRITE DEVELOPMENT IN AN IDENTIFIED DROSOPHILA MOTONEURON
Carsten Duch

Saturday

T2-1D DYNAMIC MATURATION OF THE AXON INITIAL SEGMENT IN THE RODENT VISUAL SYSTEM
Annika Gutzmann, Nursah Ergül, Christian Schultz, Petra Wahle, Maren Engelhardt

T2-2D NOMA-GAP CONTROLS DENDRITIC DEVELOPMENT OF NEOCORTICAL NEURONS BY REGULATING CDC42 AND COFILIN
Marta Rosário, Steffen Schuster, René Jüttner, Srinivas Parthasarathy, Victor Tarabykin , Walter Birchmeier

T2-3D A CO-CULTURE OF CHICKEN COCHLEAR GANGLION AND AUDITORY BRAINSTEM NEURONS TO INVESTIGATE REGULATION OF ENDBULB SYNAPSE FORMATION IN VITRO
David Goyer, Stefanie Kurth, Kai-Oliver Seibel, Hermann Wagner, Thomas Kuenzel

T2-4D A MECHANICAL COUPLING BETWEEN N-CADHERIN ADHESION AND F-ACTIN FLOW STABILIZES DENDRITIC SPINES
Olivier Thoumine, Anael Chazeau, Mikael Garcia, Katalin Czondor, Amelie Argento, Gregory Giannone

T2-5D IMPAIRMENT OF NEURITE OUTGROWTH IN NGF-STIMULATED PC12 CELLS BY ANTIBODIES DIRECTED TO NEISSERIA GONORRHOEAE, CAN BE REVERSED BY NEUROLEPTIC DRUGS IN VITRO
Bernhard Reuss

T2-6D EGR2::CRE MEDIATED CONDITIONAL ABLATION OF DICER DISRUPTS HISTOGENESIS OF MAMMALIAN CENTRAL AUDITORY NUCLEI
Elena Rosengauer, Heiner Hartwich, Anna Maria Hartmann, Anya Rudnicki, Somisetty Venkata Satheesh, Karen B. Avraham, Hans Gerd Nothwang

T3: Developmental cell death, regeneration and transplantation

Wednesday

T3-1A QUANTIFICATION OF OLFACTORY AFFERENT REGENERATION IN THE LOCUST BRAIN
Hannah Wasser, Michael Stern

T3-2A THREE-DIMENSIONAL CONSTRUCTS OF ELECTRO-SPUN PCL-FIBERS IN COLLAGEN GEL AS GUIDANCE STRUCTURE FOR NERVE REGENERATION
Andreas Kriebel, Muhammad Rumman, Miriam Scheld, Dorothee Hodde, Gary Brook, Jörg Mey

Thursday

T3-1B AN IP3R3- AND NPY-EXPRESSING MICROVILLOUS CELL MEDIATES TISSUE HOMEOSTASIS AND REGENERATION
Colleen Cosgrove Hegg, Cuihong Jia, Sebastien Hayoz, Chelsea Hutch, Tania Iqbal

T3-2B MOLECULAR MECHANISMS OF UNCONVENTIONAL SECRETION OF INSULIN-DEGRADING ENZYME
Marie Löchner, Olaf Merkel, Jochen Walter, Konstantin Glebov

T3-3B DEOXYRIBOZYME TO XYLOSYLTRANSFERASE-1 MRNA PROMOTES FUNCTIONAL RECOVERY AFTER SPINAL CORD CONTUSION
Barbara Grimpe, Owen Y. Chao, Donna L. Avison, Roderick T. Bronson, William J. Buchser, Andres Hurtado, Martin Oudega

Friday

T3-1C EFFECTS OF AAV-BASED GENE THERAPY ON AXONAL REGENERATION AND MOTORICAL BEHAVIOUR IN A RAT MODEL OF RUBROSPINAL TRACT INJURY
Malleswari Challagundla, Thomas Ostendorf , Sebastian Kügler, Jan Christoph Koch, Uwe Michel, Mathias Bähr, Paul Lingor

T3-2C HOW THE WAY OF EXTIRPATION AFFECTS BRAIN REGENERATION IN THE EARTHWORM EISENIA FETIDA
László Molnár, Bálint Horváth, Anita Steib, Edit Pollák

T3-3C NEURONAL REGENERATION IN THE MIDLEG OF SCHISTOCERCA GREGARIA
Alexander Schnurr, Reinhard Lakes-Harlan

Saturday

T3-1D MORPHOLOGICAL, PHYSIOLOGICAL AND NEURO-CHEMICAL BACKGROUND OF THE VENTRAL NERVE CORD REGENERATION IN EISENIA FETIDA
Dóra Gunszt, Eszter Várhalmi, Ildikó Somogyi, Edit Pollák, Péter Engelmann, László Molnár

T3-2D *TRANSPLANTATION OF NEURONS FROM THE EMBRY-ONAL GANGLIONIC EMINENCES INTO MATURED MOUSE CORTEX*
Marcel Isstas, , Manuel Teichert, Jürgen Bolz, Konrad Lehmann

T4: Neurotransmitters, retrograde messengers and cytokines

Wednesday

T4-1A IMAGING AND ANALYSIS OF SEROTONIN RELEASE FROM STEM CELL-DERIVED SEROTONERGIC NEURONS
Thorsten Lau, Verena Proissl, Annabelle Schlüter, Patrick Schloss

T4-2A SEROTONIN INSIDE AND OUTSIDE THE CELL DURING PRENERVOUS STAGES IS ESSENTIAL FOR CORRECT DEVELOPMENT AND JUVENILES BEHAVIOR
Evgeny G. Ivashkin, Igor I. Adameyko , Olga A. Kharchenko, Marina Yu. Khabarova , Elena E. Voronezhskaya

T4-3A MONOAMINERGIC INTERACTIONS WITH IDENTIFIED INTERNEURONS IN THE BASOLATERAL AMYGDALA: COMPARATIVE INVESTIGATIONS IN RATS, WILDTYPE AND SEROTONIN TRANSPORTER (5HTT)-DEFICIENT MICE
Christoph Renninger, Henning Schwert, Maria Steinke, Jonas Waider, Angelika Schmitt, Esther Asan

Thursday

T4-1B IDENTIFICATION OF DONOR AND TARGET CELLS OF THE NO/CGMP PATHWAY IN THE BRAIN OF TRIBOLIUM CASTANEUM
Björn Trebels, Carsten M. Heuer, Joachim Schachtner

T4-2B NITRIC OXIDE/ CGMP-SIGNALING REGULATES THE EXCITATORY/ INHIBITORY INPUT ONTO HIPPOCAMPAL CA1 PYRAMIDAL CELLS
Angela Neitz, Thomas Mittmann

Friday

T4-1C DISSECTING THE ROLE OF SEROTONIN IN THE FEEDING BEHAVIOR OF THE ADULT DROSOPHILA MELANOGASTER
Shreyas Venkataraman Jois, Henrike Scholz

T4-2C PKG AND HONEY BEE BEHAVIOR
Markus Thamm, Ricarda Scheiner

Saturday

T4-1D INFLUENCE OF THE EXTRACELLULAR MATRIX ON GLUTAMATE UPTAKE
Jose Francisco Alfaro Sanchis, Martin Heine, Artur Bikbaev, Renato Frischknecht

T4-2D ENDOCANNABINOID SIGNALLING IN THE MEDIAL SUPERIOR OLIVE
Barbara Trattner, Sarah Berner, Benedikt Grothe, Lars Kunz

T4-3D DESCENDING OA3/TA INTERNEURONS OF THE LOCUST BRAIN
Sergej Hartfil, Natalia Kononenko, Julia Willer, Hans-Joachim Pflüger

T5: G Protein-linked and other receptors

Wednesday

T5-1A THROMBIN REGULATION OF SYNAPTIC TRANSMISSION: IMPLICATIONS FOR SEIZURES ONSET
Nicola Maggio, Carlo Cavaliere, Michele Papa, Ilan Blatt, Joab Chapman, Menahem Segal

T5-2A CALCINEURIN – FUNCTIONAL IMPLICATIONS FOR A NEURONAL PROTEIN PHOSPHATASE IN AN INSECT MODEL FOR FLUID SECRETION
Kristoffer Heindorff, Bernd Walz, Otto Baumann

T5-3A CONFOCAL IMAGING OF RECEPTOR MEDIATED PI(4,5)P2-DYNAMICS IN CA1 PYRAMIDAL NEURONS
Sandra Hackelberg, Dominik Oliver

Thursday

T5-1B GABAB RECEPTOR-MEDIATED INHIBITION OF SYNAPTIC INPUT ONTO SOMATOSTATIN-IMMUNOREACTIVE INTERNEURONS IN THE HIPPOCAMPUS
Sam Anthony Booker, Annabelle L Gee, Jie Song, Akos Kulik, Imre Vida

T5-2B COCKROACH GABAB RECEPTOR SUBTYPES
Stefanie Blankenburg, Wolfgang Blenau

Friday

T5-1C DIFFERENTIAL SENSITIVITY OF TWO FLUORESCENT BIOSENSORS TO RECEPTOR-INDUCED PIP2 DEPLETION
Olga Nikolaevna Ivanova, Dominik Oliver

T5-2C THE EFFECTS OF STRESS ON GALANIN PEPTIDE SYTEM IN THE RAT PITUITARY: EXPRESSION OF MRNA AND IMMUNOHISTOCHEMISTRY OF GALANIN RECEPTOR SUBTYPES
Vera Klenerova, Sixtus Hynie

Saturday

T5-1D BIOSENSOR IMAGING SHOWS THAT INHIBITORS OF TYPE 10 PHOSPHODIESTERASE INCREASE PKA ACTIVITY SPECIFICALLY IN STRIATAL NEURONS OF THE INDIRECT PATHWAY
Marina Polito, Liliana R.V. Castro, Danièle Paupardin-Tritsch, Pierre Vincent

T5-2D ALANINE-87-THREONINE POLYMORPHISM OF THE HUMAN P2Y11 RECEPTOR IMPEDES RECEPTOR INTERNALIZATION IN HEK293 CELLS AND IMPACTS CALCIUM SIGNALLING AND ERK PHOSPHORYLATION AS WELL AS RECEPTOR RESENSITIZATION
Georg Reiser, Michael Haas, Ahmed Shaaban

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

Wednesday

T6-1A THE EXTRACELLULAR MATRIX AFFECTS SURFACE EXPRESSION OF GLUN2B CONTAINING NMDA RECEPTORS
Barbara C. Schweitzer, Laurant Groc, Martin Heine, Renato Frischknecht

T6-2A MULTIPLE BINDING SITES ENABLE A DYNAMIC INTERACTION OF GLYCINE RECEPTORS AND GEPHYRIN
Nora Grünewald, Vanessa Kress, Tobias Lamkemeyer, Günter Schwarz

T6-3A AVERSION TO NICOTINE IS REGULATED BY THE BALANCED ACTIVITY OF ß4 AND α5 NICOTINIC RECEPTOR SUBUNITS IN THE MEDIAL HABENULA
Silke Frahm, Marta Anna Slimak, Leiron Ferrarese, Julio Santos-Torres, Beatriz Antolin-Fontes, Sebastian Auer, Sergey Filkin, Stephanie Pons, Jean-Fred Fontaine, Victor Tsetlin, Uwe Maskos, Ines Ibanez-Tallon

T6-4A ACID-SENSING ION CHANNELS AND HEPATIC ENCEPHALOPATHY
Pia Bresenitz, Stefan Gruender

T6-5A PREVENTION OF BEHAVIORAL AND CORTICAL EXCITABILITY IN AN M-CHANNEL DEPENDENT EPILEPSY PHENOTYPE
Stephan Marguet, Quyen Le, Andrea Merseburg, Axel Neu, Fabio Morellini, Dirk Isbrandt

T6-6A TRAFFICKING ANALYSES OF THE CATION CHLORIDE COTRANSPORTER KCC2
Timo Beyer, Anna-Maria Hartmann, Hans Gerd Nothwang

T6-7A DEVELOPMENTAL DIFFERENCES IN PH REGULATION AND INFLUENCE OF PH ON NEURONAL EXCITABILITY
Benedikt Salmen, Joerg Roesner, Dietmar Schmitz

T6-8A WHICH GABAA RECEPTOR SUBUNITS ARE NECESSARY FOR TONIC INHIBITION IN CENTRAL AMYGDALA?
Hector Romo-Parra, Tatyana Kanishkova, Hans-Christian Pape

Thursday

T6-1B NEW ASPECTS OF CAV1.4 L-TYPE CALCIUM CHANNEL MUTANTS LINKED TO CONGENITAL STATIONARY NIGHT BLINDNESS TYPE 2
Verena Burtscher, Klaus Schicker, Sakine Korkmaz, Christof Kugler, Anamika Singh, Thomas Stockner, Alexandra Koschak

T6-2B MODELING THE RELATIONS BETWEEN NEURONAL MEMBRANE POTENTIALS, ION CURRENTS AND ION CHANNEL STATES
Aubin Tchaptchet, Hans Albert Braun

T6-3B DISTRIBUTION AND FUNCTIONAL IMPLICATION OF VOLTAGE-GATED CA2+ CHANNELS IN THE SEPTO-HIPPOCAMPAL SYSTEM
Christina Henseler, Magdalena Elisabeth Siwek, Anna Papazoglou, Marco Weiergräber, Karl Broich

T6-4B LOOP D OF THE HUMAN GLYCINE RECEPTOR α1 SUBUNIT – A SUSCEPTIBLE SITE FOR MUTATIONS ASSOCIATED WITH HYPEREKPLEXIA
Natascha Schaefer, Christoph Kluck, Solveig Schulz, Carmen Villmann

T6-5B REDUCED HIPPOCAMPAL GABAERGIC ACTIVITY IN A LOW BIRTH WEIGHT RAT MODEL OF DEPRESSION
Zita Dosa, Jose Luis Nieto-Gonzalez, Betina Elfving, Karin S. Hougaard, Mai M. Holm, Gregers Wegener, Kimmo Jensen

T6-6B N- AND C-TERMINI OF ASIC4 DIRECT THE CHANNEL INTO EARLY ENDOSOMES
Katharina Friedrich, Georg Polleichtner, Stefan Gründer

T6-7B INTER-SUBUNIT DISULFIDE BOND FORMATION INDICATES P2X3 RECEPTOR ECTODOMAIN MOVEMENT
Maria Kowalski, Peter Illes, Thomas Riedel

T6-8B DIFFERENTIAL EXPRESSION OF HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE GATED CHANNEL ISOFORMS (HCN1–4) IN NEOCORTICAL TISSUES FROM PATIENTS WITH TEMPORAL LOBE EPILEPSY
Stephan Wierschke, Peter Horn, Christoph Dehnicke, Anja U. Bräuer, Rudolf A. Deisz

Friday

T6-1C CA2+ CHANNEL PROMISCUITY OF SMALL CONDUCTANCE CA2+-ACTIVATED K+ CHANNELS (SK) IN HIPPOCAMPAL PYRAMIDAL NEURONS
Felix Benninger, Shmuel Chen, Yoel Yaari

T6-2C DIFFERENTIAL REGULATION OF CHLORIDE TRANS-PORTER EXPRESSION BY BIOELECTRIC ACTIVITY IN CHICKEN AUDITORY BRAINSTEM IN VITRO
Marcus Joseph Wirth, Desirée Kupsch, Julia Krebbers, Hermann Wagner

T6-3C MODULATORY EFFECT OF HISTAMINE ON LIGAND-GATED ION CHANNELS
Ulrike Thiel, Philipp Lorenz, Olaf Kletke, Hanns Hatt, Günter Gisselmann

T6-4C ALTERATIONS IN INPUT RESISTANCE, SPIKE THRESHOLD AND FIRING PROPERTIES OF LAYERS 2/3 PYRAMIDAL NEURONS FOLLOWING FOCAL LASER LESIONS IN THE RAT VISUAL CORTEX
Barbara Imbrosci, Thomas Mittmann

T6-5C HIPPOCAMPAL VESICULAR GABA TRANSPORTERS AS TARGETS FOR IN VIVO LABELLING OF INHIBITORY SYNAPSES AND IMMUNOLESIONING OF GABAERGIC NEURONS
Wolfgang Härtig, Alán Alpár, Flavia Antonucci, Johannes Kacza, Claudia Verderio, Henrik Martens, Jens Grosche, Dominik Michalski, Michela Matteoli, Tibor Harkany

T6-6C IMMUNOCYTOCHEMICAL AND ELECTROPHYSIOLOGICAL CHARACTERIZATION OF GFP-EXPRESSING GABAERGIC INTERNEURONS OF THE ADULT MOUSE CINGULATE CORTEX
Maria-Therese Riedemann, Bernd Sutor

T6-7C ACTIVATION OF GLYCINE RECEPTORS MODULATES SPONTANEOUS EPILEPTIFORM ACTIVITY IN THE IMMATURE RAT HIPPOCAMPUS
Rongqing Chen, Akihito Okabe, Haiyan Sun, Salim Sharopov, Sergei N. Kolbaev, Ileana L. Hanganu-Opatz, Atsuo Fukuda, Heiko J. Luhmann , Werner Kilb

Saturday

T6-1D OPTOCHEMICAL CONTROL OF GENETICALLY ENGINEERED GLUTAMATE AND ACETYLCHOLINE RECEPTORS IN C. ELEGANS
Jatin Nagpal, Jana Liewald, Tatsuya Urushima, Dirk Trauner, Alexander Gottschalk

T6-2D SUPPRESSION OF HCN CHANNEL-MEDIATED CURRENT (IH) IN FOREBRAIN NEURONS IMPAIRS EARLY POSTNATAL SENSORIMOTOR DEVELOPMENT AND ALTERS NEONATAL CORTICAL NETWORK ACTIVITY
Andrea Merseburg, Anna Katharina Schlusche, Stephan Marguet, Jasper Grendel, Zhuo Huang, Mala Shah, Fabio Morellini, Dirk Isbrandt

T6-3D DUAL FUNCTION OF TRPM8 AS AN ION CHANNEL AND G PROTEIN-ACTIVATING RECEPTOR
Christian Wetzel

T6-4D NOVEL SPLICE VARIANT OF CALMODULIN INHIBITS HUMAN CAV2.3 E-/R-TYPE VOLTAGE-GATED CA2+ CHANNELS IN HEK-293 CELLS
Toni Schneider, Marcel A. Kamp, Behzad Shakeri, Juergen Hescheler, Lucie Parent

T6-5D DISSECTING THE ACTIVATION OF AMPA RECEPTORS
Andrew John Plested, Miriam Chebli, Hector Salazar, Valentina Ghisi, Jelena Baranovic, Kajta Faelber, Oliver Daumke

T6-6D RAB8A MEDIATES ACIDOSIS-INDUCED TRAFFICKING OF NBCE1-A IN HIPPOCAMPAL NEURONS
Eleni Roussa, Jan Manuel Speer, Oliver Oehlke

T6-7D REGULATION OF ACID-BASE TRANSPORTERS IN EPILEPSY
Magdalena Schroedl, Oliver Oehlke, Jan Manuel Speer, Eleni Roussa

T6-8D LYSOPHOSPHATIDIC ACID ACTIVATES SPINAL NERV TRESK BACKGROUND POTASSIUM CHANNELS
Sina Kollert, Frank Döring, Erhard Wischmeyer

T7: Synaptic transmission, pre- and postsynaptic organization

Wednesday

T7-1A AMYLOID PRECURSOR PROTEINS ARE CONSTITUENTS OF THE PRESYNAPTIC ACTIVE ZONE DERIVED FROM MURINE BRAIN
Melanie Laßek, Jens Weingarten, Ilaria Lunger, Teresa Schubach, Kristine Gampe, Ulrike Müller, Walter Volknandt

T7-2A THE PROTEOME OF THE PRESYNAPTIC ACTIVE ZONE DERIVED FROM MOUSE BRAIN
Jens Weingarten, Melanie Laßek, Benjamin Müller, Ilaria Lunger, Simone Dudek, Patrick Vancura, Michael Karas, Walter Volknandt

T7-3A DEVELOPMENT OF TOOLS FOR REAL-TIME SIMULTANEOUS VISUALIZATION OF ECM, GLIAL, PRE- AND POSTSYNAPTIC STRUCTURES
Mikhail Filippov, Svetlana Korotchenko, Alexander Dityatev

T7-4A THE NOVEL TRKB RECEPTOR AGONIST 7,8 DIHYDROXYFLAVONE (7,8 DHF) INHIBITS GABAERGIC NEUROTRANSMISSION AND INCREASES INTRINSIC EXCITABILITY IN PYRAMIDAL NEURONS OF MOUSE VISUAL CORTEX
Daniele Marongiu, Barbara Imbrosci, Thomas Mittmann

T7-5A NMDA RECEPTOR DEPENDANCE OF COMPLEX SPIKE BURSTS IN CA1 HIPPOCAMPAL NEURONS IN VIVO
Christine Grienberger, Xiaowei Chen, Arthur Konnerth

T7-6A GENERATION OF A FIRST COMPREHENSIVE PROTEIN INTERACTION MAP FOR THE CHEMICAL SYNAPSE
Philipp Trepte, Angeli Möller, Martin Schäfer, Miguel Andrade, Erich E Wanker

T7-7A STRUCTURE-FUNCTION ANALYSIS OF THE VESICULAR GLUTAMATE TRANSPORTER 1 C-TERMINUS
Julia Jordan, Melissa Herman, Thorsten Trimbuch, Christian Rosenmund

T7-8A HETEROGENEOUS EFFECTS OF ADENOSINE ON LAYER 4 SYNAPTIC TRANSMISSION IN RAT BARREL CORTEX
Guanxiao Qi, Karlijn van Aerde, Dirk Feldmeyer

T7-9A MECHANISMS OF KHZ-TRANSMISSION AT A CENTRAL SYNAPSE
Andreas Ritzau-Jost, Annika Weyhersmüller, Igor Delvendahl, Johannes Hirrlinger, Hartmut Schmidt, Jens Eilers, Stefan Hallermann

T7-10A PROTEIN DISTRIBUTIONS UNDERLYING DIFFERENTIAL DENDRITIC CALCIUM SIGNALING IN CEREBELLAR PURKINJE CELLS
Christian D. Wilms, Tiago Branco, Kristina D. Micheva, Stephen J. Smith, Michael Häusser

T7-11A ISOLATION AND CHARACTERIZATION OF NEW ACTIVE ZONE PROTEINS
Christina Hollmann, Harald Depner, Christine Quentin, Henning Urlaub, Matthew Holt, Stephan Sigrist

Thursday

T7-1B DYNAMIN 1-DEPENDENT ENDOCYTOSIS AT THE INNER HAIR CELL SYNAPSE
Jakob Neef, Sangyong Jung, Christine Lenz, Rebecca M. Boumil, Wayne N. Frankel, Pietro De Camilli, Nicola Strenzke, Tobias Moser

T7-2B THE ROLE OF PSD-95 AND KINASE INTERACTIONS IN SYNAPTIC FUNCTION
Seniye Derya Akad, Oliver M. Schlüter

T7-3B THE ROLE OF COMPLEXIN I IN SYNAPTIC TRANSMISSION AND SHORT-TERM PLASTICITY AT THE CALYX OF HELD SYNAPSE
Shuwen Chang, Meike Pedersen, Kerstin Reim, Holger Taschenberger

T7-4B ACTIVITY OF NPS-NEURONS IS MODULATED BY DYNORPHIN A – INDICATIONS FOR A CENTRAL AMYGDALAR NEGATIVE FEEDBACK
Kay Jüngling, Hanna Szkudlarek, Frank Erdmann, Hans-Christian Pape

T7-5B MICRORNA137 REGULATES THE EXPRESSION OF SYNAPTIC PROTEINS AND IS INVOLVED IN SYNAPTIC PLASTICITY AND LEARNING AND MEMORY
Sandra Siegert, Ester J Kwon, Andrii Rudenko, Jinsoo Seo, Sukhee Cho, Wenyuan Wang, Zachary Flood, Li-Huei Tsai

T7-6B FROM PATTERN GENERATOR TO SOUND RECEPTOR, HAIR CELLS ADJUST CA2+ SIGNALING TO THEIR FUNCTION DURING DEVELOPMENT
Aaron Benson Wong, Mark Allen Rutherford, Zhizi Jing, Thomas Frank, Tina Pangrsic, Nicola Strenzke, Carolin Wichmann, Tobias Moser

T7-7B ABUNDANCE OF SYNAPSIN PROTEINS REGULATES THE SIZE OF SYNAPTIC VESICLES AND ACTIVE ZONES
Mariya Vasileva, Robert Renden, Heinz Horstmann, Daniel Gitler, Thomas Kuner

T7-8B NEUROPLASTIN-65 REGULATES STRUCTURE AND MAINTENANCE OF EXCITATORY SYNAPSES AND GABAA RECEPTOR LOCALIZATION AT INHIBITORY SYNAPSES
Rodrigo Herrera-Molina, Martin Heine, Karl-Heinz Smalla, Constanze I. Seidenbecher, Eckart D. Gundelfinger, Dirk Montag

T7-9B MEMBRANE TARGETING OF COLLYBISTIN IS REQUIRED FOR GEPHYRIN CLUSTERING AT INHIBITORY POST-SYNAPSES
Simone Mayer, Tolga Soykan, Nils Brose, Heinrich Betz, Theofilos Papadopoulos

T7-10B THE ROLE OF NEUROBEACHIN AND SAP102 INTERACTION IN THE SYNAPSE
Fatima Farzana, Juliane Lauks, Ruud Toonen, Matthijs Verhage

T7-11B THE CHOLINERGIC MODULATION OF LAYER 6A PYRAMIDAL CELL IN THE SOMATOSENSORY 'BARREL' CORTEX DEPENDS ON THEIR AXONAL PROJECTION PATTERN
Robert Heinz Günter, Gabriele Radnikow, Dirk Feldmeyer

Friday

T7-1C MOLECULAR REGULATION OF CA2+-DEPENDENT NEUROTROPHIN SECRETION IN HIPPOCAMPAL NEURONS BY CAPS1
Robert Eckenstaler, Thomas Munsch, Tanja Brigadski, Volkmar Leßmann

T7-2C MECHANISMS UNDERLYING HETEROGENEITY OF CA2+ SIGNALING AMONG HAIR CELL ACTIVE ZONES
Tzu-Lun Wang, Mark.A. Rutherford, Tobias Moser

T7-3C EXTRA CELLULAR MATRIX DIFFERENTLY AFFECTS MOBILITY OF AMPA RECEPTORS IN SPINY AND ASPINY SYNAPSES
Yulia Klyueva, Renato Frischknecht, Martin Heine

T7-4C GENE EXPRESSION PROFILING OF GLOBULAR BUSHY CELLS DURING SYNAPTIC MATURATION
Christoph Körber, Anna Dondzillo, Gisela Eisenhardt, Oliver Wafzig, Thomas Kuner

T7-5C FUNCTIONAL AND DYNAMIC PROPERTIES OF DENDRITIC VERSUS PERISOMATIC INHIBITION IN HIPPOCAMPAL NEURONAL NETWORKS
Shakuntala Savanthrapadian, Imre Vida, Marlene Bartos

T7-6C REGULATION OF PRESYNAPTIC CA2+ INFLUX DURING TRAINS OF ACTION POTENTIAL-LIKE STIMULI
Kun-Han Lin, Holger Taschenberger

T7-7C CHARACTERISATION OF THE TRANSPORT OF ACTIVE ZONE PROTEINS TO SYNAPSES
Tina Ghelani, Thomas Dresbach, Nina Wittenmayer

T7-8C SUPER RESOLUTION IMAGING OF BRAIN-DERIVED NEUROTROPHIC FACTOR IN SYNAPSES OF HIPPOCAMPAL NEURONS IN VITRO
Robert Blum, Thomas Andreska, Sarah Aufmkolk, Sebastian van de Linde, Markus Sauer

T7-9C ANALYSIS OF COMPARTMENT-SPECIFIC AND CELL AUTONOMOUS LOSS-OF-FUNCTION OF MECP2
Avani Shukla, Oliver Schlüter

T7-10C DENDRITIC ORIGIN OF AXONS IN CA1 PYRAMIDAL NEURONS
Christian Thome, Tony Kelly, Maren Engelhardt, Martin Both, Sidney Cambridge, Andreas Draguhn, Heinz Beck, Christian Schultz, Alexei V. Egorov

T7-11C COMPARTMENTALIZATION AND SINGLE CELL ANATOMY OF A LARVAL PEPTIDERGIC CIRCUIT IN DROSOPHILA MELANOGASTER
Gergely Karsai, Christian Wegener, Gergely Berta, László Molnár, Edit Pollák

Saturday

T7-1D A NEW VERTEBRATE-SPECIFIC PRESYNAPTIC PROTEIN AS MOLECULAR COMPONENT OF THE ENDBULB OF HELD
Friederike Wetzel, Thomas Dresbach

T7-2D CHARACTERIZATION OF THE FUNCTIONAL DOMAINS OF A NOVEL PRESYNAPTIC PROTEIN:MOVER
Asha Kiran Akula, Saheeb Ahmed, Camin Dean, Thomas Dresbach

T7-3D CHANGES IN THE SYNCHRONY OF CROSS-SYNAPTIC OUTPUT OF A RETINAL NEURON
William N Grimes, Fred Rieke

T7-4D NOVEL GENETIC MOUSE MODEL FOR BASSOON AND PICCOLO ALLOWING FUNCTIONAL STUDIES IN DEVELOPING AND ADULT BRAIN
Sabrina Müller, Anil Annamneedi, Anna Fejtová, Eckart D. Gundelfinger

T7-5D PRESYNAPTIC TARGETING OF MOVER INVOLVES A SELF-INTERACTION DOMAIN
Thomas Dresbach, Asha Kiran Akula, Nina Wittenmayer, Jan Höber

T7-6D GABA RELATED PROTEINS PERSIST BEYOND THE DEVELOPMENTAL GABA TO GLYCINE SHIFT AT INHIBITORY AUDITORY BRAINSTEM SYNAPSES OF MICE
Alexander Fischer, Jennifer Smuda, Matthew A. Xu-Friedman, Eckhard Friauf, Désirée Griesemer

T7-7D MECHANISMS OF NEUROTRANSMITTER RELEASE AT THE INNER HAIR CELL RIBBON SYNAPSES
Nikolai M. Chapochnikov, Hideki Takago, Elisabeth Auge, Caroline Wichmann, Tobias Moser, Fred Wolf

T7-8D ANALYSIS OF THE BALANCED STATE IN A 2-POPULATION NETWORK BY MEAN-FIELD THEORY
Alexander Schmidt, Fred Wolf, Michael Monteforte

T7-9D PROPERTIES OF SYNAPTIC TRANSMISSION AT A CORTICOTHALAMIC GIANT SYNAPSE IN MICE
Francisco José Urra Quiroz, Thomas Kuner

T7-10D FUNCTIONAL CHANGES OF PRESYNAPTIC ACTIVE ZONE INDUCED BY ENDOGENOUS AMYLOID BETA
Maria Andres-Alonso, Vesna Lazarevic, Eckart Gundelfinger, Anna Fejtova

T7-11D C-TERMINAL BINDING PROTEIN 1: A NOVEL NEURONAL METABOLIC SENSOR INVOLVED IN THE ACTIVITY-DEPENDENT GENE EXPRESSION
Anika Dirks, Daniela Ivanova, Cornelia Schoene, Denny Schanze, Anna Fejtova, Eckart D. Gundelfinger

T8: Synaptic plasticity, LTP, LTD

Wednesday

T8-1A HETEROSYNAPTIC PLASTICITY AT NEOCORTICAL PYRAMIDAL NEURONS: MECHANISMS AND POSSIBLE ROLE IN NEURONAL NETWORKS
Marina Chistyakova, Chris Lee, Jen-Yung Chen, Maxim Bazhenov, Maxim Volgushev

T8-2A ACTIVITY DEPENDENT PROCESSING OF BREVICAN BY EXTRACELLULAR PROTEOLYSIS
Jeet Bahadur Singh, Juan-Carlos Valenzuela, Eckart D. Gundelfinger , Constanze Seidenbecher, Renato Frischknecht

T8-3A ROLE OF METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 5 IN SYNAPTIC PLASTICITY AND COGNITION
Hamdy Shaban, Marie Pollard, Erik De Prins, Thomas Steckler

T8-4A GLOBAL DEPRIVATION OF BDNF REVEALS ITS CELL TYPE-SPECIFIC EFFECT ON NEURONAL ARCHITECTURE
Anita Remus, Marta Zagrebelsky, Martin Korte

T8-5A DENDRITE STRUCTURE AND SYNAPTIC PLASTICITY ARE ALTERED IN THE HIPPOCAMPUS OF CORTACTIN KNOCKOUT MICE
Kristin Michaelsen-Preusse, Melissa O`Brien, Ulrike Herrmann, Klemens Rottner, Martin Korte

T8-6A ELECTRICAL ACTIVATION OF THE LOCUS COERULEUS INDUCES HIPPOCAMPAL LTD IN THE DENTATE GYRUS
Niels Hansen, Denise Manahan-Vaughan

T8-7A NOGO-A ORCHESTRATE ACTIN DYNAMICS WITHIN DENDRITIC SPINE OF MATURE HIPPOCAMPAL NEURONS
Yves Kellner, Martin E. Schwab, Martin Korte, Marta Zagrebelsky

T8-8A MICRORNA EXPRESSION IN THE BARREL CORTEX AFTER SENSORY STIMULATION
Ines Khadimallah, Nathalie Wenger, Rudolf Kraftsik, Romano Regazzi, Guylène Kirschmann, Egbert Welker

Thursday

T8-1B ELECTROPHYSIOLOGICAL CHARACTERIZATION OF THE INHIBITORY MNTB-LSO CONNECTION UPON PROLONGED HIGH FREQUENCY STIMULATION: THE EFFECT OF INTERMITTENT STIMULI
Martin Fuhr, Eckhard Friauf

T8-2B "FUNCTIONAL ROLE OF METABOTROPIC GROUP I GLUTAMATE RECEPTORS IN SYNAPTIC PLASTICITY AT GRANULE CELL – BASKET CELL SYNAPSES"
Thomas Hainmüller, Akos Kulik, Marlene Bartos

T8-3B MOSSY FIBER – CA3 AND ASSOCIATIONAL COMMISSURAL CA3 SYNAPSES REVEAL DIFFERENCES IN THE PROTEIN SYNTHESIS-DEPENDENCY OF PERSISTENT PLASTICITY IN VIVO
Hardy Hagena, Denise Manahan-Vaughan

T8-4B PHEROMONAL REGULATION OF SYNAPTIC PLASTICITY IN THE MUSHROOM-BODY CALYX DURING ADULT BEHAVIORAL MATURATION IN THE HONEYBEE
Thomas Sebastian Muenz, Claudia Groh, Alban Maisonnasse, Kornelia Grübel, Yves Le Conte, Wolfgang Rössler

T8-5B LONG-TERM PLASTICITY AT THE OLFACTORY BULB MITRAL – GRANULE CELL SYNAPSE
Mahua Chatterjee, Fernando Pérez de los Cobos Pallarés, Veronica Egger

T8-6B EPENDYMIN: EXPRESSION STUDIES OF A MICRO-HETEROGENEIC SIALOPROTEIN IN THE NERVOUS SYSTEM
Donato Penninella, Rupert Schmidt

T8-7B ENHANCEMENT OF CHOLINERGIC OUTPUT IN C. ELEGANS BY THE BEGGIATOA SP. PHOTO-ACTIVATABLE ADENYLYL CYCLASE
Wagner Steuer Costa, Jana Fiona Liewald, Peter Hegemann, Alexander Gottschalk

T8-8B DISSECTING THE MECHANISMS OF LONG-TERM DEPRESSION IN VISUAL CORTEX
Plinio das Neves Favaro, Oliver M. Schlüter

Friday

T8-1C DIFFERENTIAL PRE- AND POSTSYNAPTIC CONTRIBUTION TO T-LTP EXPRESSION IN HIPPOCAMPAL CA1 REGION DEPENDS ON INDUCTION PARADIGM
Martin Wilhelm Erich Franck, Volkmar Leßmann, Elke Edelmann

T8-2C METAPLASTICITY BY RYANODINE RECEPTOR ACTIVATION PROMOTES THE RECOVERY OF SYNAPTIC IMPAIRMENTS IN THE APP/PS1 MOUSE MODEL OF ALZHEIMER'S DISEASE
Qin Li, Martin Korte, Sreedharan Sajikumar

T8-3C EFFECTS OF A SPATIAL LEARNING TASK ON THE MAMMALIAN EPENDYMIN RELATED PROTEIN (MERP)
David Hinchliffe, Rupert Schmidt

T8-4C DYNAMICS OF THE SYNAPTIC FUCOSYL PROTEOME
Nicole Höche, Karin Richter, Thilo Kähne, Wolfgang Tischmeyer, Karl-Heinz Smalla, Daniela C. Dieterich

T8-5C NOGO-A SIGNALING PLAYS A MAJOR ROLE IN MODULATING DENDRITIC SPINE DYNAMICS IN CA3 HIPPOCAMPAL NEURONS
Marta Zagrebelsky, Martin E. Schwab, Martin Korte

T8-6C NOREPINEPHRINE GATES HIPPOCAMPAL STD-LTP BY POTASSIUM CHANNEL INACTIVATION
Yanling Liu, Oliver M. Schlueter

T8-7C ALTERATION OF INHIBITORY FEEDBACK MECHANISMS IN THE COCHLEA AND DORSAL ROOT GANGLION BY KCC2 AND NKCC1 AFTER INJURY. A MODEL FOR NEUROPATHIC PAIN AND TINNITUS?
Dario Campanelli, Annalisa Zuccotti, Wibke Singer, Lukas Rüttiger, Jeremy Tsung-Chieh Chen, Jing Hu, Marlies Knipper

Saturday

T8-1D ANALYSIS OF CONDITIONAL APP/APLP2 DOUBLE KNOCK-OUT MICE REVEALS A STRONG HIPPOCAMPAL CA3-CA1 LTP DEFECT
Ulrike Herrmann, Meike Hick, Ulrike Müller, Martin Korte

T8-2D SYNAPTOPODIN REGULATES DENERVATION-INDUCED HOMEOSTATIC SYNAPTIC PLASTICITY OF DENTATE GRANULE CELLS IN MOUSE ENTORHINO-HIPPOCAMPAL SLICE CULTURES
Andreas Vlachos, Benno Ikenberg, Maximilian Lenz, Kurt Reifenberg, Carlos Bas Orth, Thomas Deller

T8-3D MGLURS CONTRIBUTE TO SOMATIC [CA2+]I RISES ELICITED IN CEREBELLAR MOLECULAR LAYER INTERNEURONS BY PARALLEL FIBER STIMULATION IN VIVO
Jin Bao, Guadalupe Astorga, Abdelali Jalil, Jonathan Bradley, Isabel Llano

T8-4D REPETITIVE MAGNETIC STIMULATION INDUCES COORDINATED FUNCTIONAL AND STRUCTURAL CHANGES OF EXCITATORY POSTSYNAPSES IN MOUSE ENTORHINO-HIPPOCAMPAL SLICE CULTURES
Maximilian Lenz, Johannes Rosskopp, Ulf Ziemann, Thomas Deller, Florian Müller-Dahlhaus, Andreas Vlachos

T8-5D REGIONAL METABOLITE DISTRIBUTION IN THE HUMAN CORPUS CALLOSUM
Sabine Hofer, Jens Frahm

T8-6D RECRUITMENT OF BDNF SIGNALING IN HIPPOCAMPAL MOSSY FIBER LTP INDUCED BY DIFFERENT HIGH FREQUENCY STIMULI
Elke Edelmann, Petnoi Petsophonsakul, Angela Jahn, Sandra Schildt , Volkmar Leßmann

T8-7D DOPAMINERGIC REGULATION OF SPIKE-TIMING DEPENDENT PLASTICITY IN CA1 OF THE HIPPOCAMPUS DEPENDS ON THE INDUCTION PROTOCOL
Efrain A. Cepeda, Elke Edelmann , Volkmar Leßmann

T9: Glia, glia-neuron interactions

Wednesday

T9-1A ELECTROGENIC SODIUM-BICARBONATE COTRANSPORTER NBCE1 MEDIATES HIGH BICARBONATE SENSITIVITY OF MOUSE CORTICAL ASTROCYTES
Shefeeq M. Theparambil, Joachim W. Deitmer

T9-2A MOLECULAR MECHANISMS OF SUBCELLULAR TRAFFICKING AND UNCONVENTIONAL SECRETION OF INSULIN-DEGRADING ENZYME, ROLE OF NEURON-GLIA INTERACTION
Konstantin Glebov, Marie Löchner, Olaf Merkel, Jochen Walter

T9-3A CELLULAR PROTON BUFFERING AND ACID/BASE TRANSPORT IN THE MOUSE CEREBELLAR CORTEX
Marco D Alt, Joachim W Deitmer

T9-4A ACTIVITY-DEPENDENT GLUCOSE TRANSPORT IN CELL CULTURE AND ACUTE CEREBELLAR SLICES: A MULTIPHOTON STUDY
Patrick Jakoby, Luis Felipe Barros, Joachim W. Deitmer

T9-5A ACTIVE UPTAKE OF SR101 INTO HIPPOCAMPAL ASTROCYTES
Christian Schnell, Yohannes Hagos, Swen Hülsmann

T9-6A THE LACK OF CORTACTIN LEADS TO REDUCED INTERCELLULAR SIGNALING IN ASTROCYTES
Stefanie Schweinhuber, Klemens Rottner, Martin Korte, Martin Rothkegel

Thursday

T9-1B LESION-INDUCED CHANGES IN GLIAL GLUTAMATE TRANSPORTER DISTRIBUTION AND FUNCTION
W. Karl Kafitz, Alexandra E. Schreiner, Martin C. Stock, Julia Langer, Christine R. Rose

T9-2B DISTINCT CD39 EXPRESSION AND ACTIVITY IN DIFFERENT ACTIVATION STATES OF MICROGLIA
Petya Georgieva, Larisa Bulavina, Adriana Rocha, Susanne Wolf, Vitali Matyash, Helmut Kettenmann

T9-3B PURIFIED CANINE OLFACTORY ENSHEATHING CELLS PROMOTE FORMATION AND OUTGROWTH OF NEURITES FROM HUMAN NT2 NEURONS
Frank Roloff, Susanne Ziege, Sarah Strauss, Kerstin Reimers, Jeffery Donald Kocsis, Christine Radtke, Wolfang Baumgärtner, Konstantin Wewetzer, Gerd Bicker

T9-4B THE MOUSE MEDIAL HABENULA CONTAINS A SPECIFIC NON-STELLATE SUBTYPE OF ASTROCYTE EXPRESSING THE ECTONUCLEOTIDASE NTPDASE2
Kristine Gampe, Klaus Hammer, Ágnes Kittel, Herbert Zimmermann

T9-5B NITRIC OXIDE / CYCLICGMP REGULATES MOTILITY OF A MICROGLIAL CELL LINE
Hannah Christina Scheiblich, Frank Roloff, Vikram Singh, Martin Stangel, Michael Stern, Gerd Bicker

T9-6B CALCIUM SIGNALING IN OLFACTORY ENSHEATHING CELLS MODULATES BLOOD VESSEL DIAMETER IN THE OLFACTORY BULB
Kristina Buddrus, Christian Lohr

Friday

T9-1C INTERACTION BETWEEN GRANULE CELLS AND SECONDARY RADIAL GLIAL CELLS IN POSTNATAL DENTATE GYRUS MORPHOGENESIS AS REVEALED BY REELIN SIGNALING DEFICIENT MICE
Bianka Brunne, Jasmine Pahle, Michael Frotscher, Hans H. Bock

T9-2C MODULATION OF PURINERGIC SYSTEM AND EXTRA-CELLULAR MATRIX REVERTS MALADAPTIVE PLASTICITY ASSOCIATED TO REACTIVE GLIOSIS IN THE SPINAL CORD
Michele Papa, Giovanni Cirillo, Maria Rosaria Bianco, Lorenza Marcello , Carlo Cavaliere, Lilia Alberghina, Annamaria Colangelo

T9-3C ABSENCE OF GLIAL ALPHA-DYSTROBREVIN CAUSES ABNORMALITIES OF THE BLOOD-BRAIN BARRIER AND PROGRESSIVE BRAIN EDEMA
Chun-Fu Lien, Sarajo Kumar Mohanta, Malgorzata Frontczak-Baniewicz, Jerome Swinny, Barbara Zablocka, Dariusz C. Górecki

T9-4C SPATIAL AND DEVELOPMENTAL HETEROGENEITY OF CALCIUM SIGNALING IN OLFACTORY ENSHEATHING CELLS
Christian Lohr, Anne Thyssen, Kristina Buddrus, Michael Doengi, Maren Stavermann, James A. StJohn, Jenny A. Ekberg, Joachim W. Deitmer

T9-5C HIGH-THROUGHPUT MASS SPECTROMETRY OF THE ASTROCYTIC SECRETOME REVEALS NEURON-DEPENDENT SECRETION DYNAMICS
Sidney Cambridge, Michael Stiess, Frank Bradke, Walter Nickel, Matthias Mann

T9-6C MODULATION OF SPONTANEOUS INHIBITORY INPUT ON PURKINJE NEURONS OF THE CEREBELLAR CORTEX
Ramona Rudolph, Joachim W. Deitmer

Saturday

T9-1D LARGE-SCALE ASTROCYTIC CALCIUM WAVES IN MOUSE CORTEX IN VIVO
Rita Förster, Helmuth Adelsberger, Xiaowei Chen, Arthur Konnerth

T9-2D CUPRIZONE (BIS (CYCLOHEXYLIDENEHYDRAZIDE)) IS SELECTIVELY TOXIC FOR MATURE OLIGODENDROGLIA
Karelle BENARDAIS, Alexandra Kotsiari, Jelena Škuljec, Paraskevi Koutsoudaki, Viktoria Gudi, Franca Franke, Thomas Skripuletz, Martin Stangel

T9-3D ASTROCYTES IN THE LATERAL SUPERIOR OLIVE EXPRESS DIFFERENT TYPES OF NEUROTRANSMITTER TRANSPORTERS
Jonathan Stephan, Eckhard Friauf

T9-4D SCHWANN CELL DEPLETION UNRAVELS SPECIAL NEURITE GROWTH-PROMOTING CAPACITY AND GROWTH FACTOR RESPONSIVENESS OF OLFACTORY MUCOSA-DERIVED OLFACTORY ENSHEATHING CELLS
Konstantin Wewetzer, Wolfgang Baumgärtner, Kerstin Schöne, Susanne Ziege

T9-5D MICROGLIA CELL PROLIFERATION IN THE IPSI- AND CONTRALATERAL RETINA AFTER ACUTE RETINAL ISCHEMIA/REPERFUSION IN THE MOUSE RETINA IN VIVO
Christian Walter Schmeer, Melanie Krug, Stefanie G. Wohl, Otto W. Witte

T9-6D COGNITION WITHOUT MYELIN - AUDITORY DISCRIMINATION IN SHIVERER MICE
Livia de Hoz Garcia-Bellido, Klaus-Armin Nave

T10: Aging and developmental disorders

Wednesday

T10-1A MORPHOLOGICAL AND BIOCHEMICAL PHENOTYPES IN A MOUSE MODEL OF FRAGILE X SYNDROME
Viktoria G. Seidel, Peter C. Kind

T10-2A LIVING WITHOUT SYNAPSE-ASSOCIATED CAM NEUROPLASTIN AFFECTS STEROID HORMONE LEVELS, REPRODUCTION, AND BEHAVIOR
Soumee Bhattacharya, Karl-Heinz Smalla, Philip W. Beesley, Eckart D. Gundelfinger, Dirk Montag

T10-3A TISSUE INHIBITOR OF MATRIX METALLOPROTEASES-1 IMPAIRS REELIN PROCESSING IN EXPERIMENTAL EPILEPSY
Carola A. Haas, Stefanie Tinnes, Julia Ringwald

T10-4A SYNERGISTIC ACTIONS OF DIFFERENT GABA UPTAKE PROCESSES IN THE CA3 REGION OF THE IMMATURE RAT HIPPOCAMPUS
Salim Sharopov, Rongqing Chen, Haiyan Sun, Sergei N. Kolbaev, Sergei Kirischuk, Heiko J. Luhmann , Werner Kilb

Thursday

T10-1B CELLULAR PHENOTYPE OF PATIENT WITH IMMUNODEFICIENCY, CENTROMERIC INSTABILITY, FACIAL ANOMALIES SYNDROME TYPE 2 AND HOMOZYGOUS MUTATIONS IN ZBTB24
Ethiraj Ravindran, Karoline Strehl, Lina Issa, Nadine Kraemer, Sebastian Fröhler, Katharina Eirich, Detlev Schindler, Wei Chen, Horst von Bernuth, Angela M. Kaindl

T10-2B EARLY DEVELOPMENTAL MILESTONES, ISOLATION-INDUCED ULTRASONIC CALLING, AND REPETITIVE BEHAVIOR IN *SHANK1* KNOCKOUT MICE
A. Özge Sungur, Rainer KW Schwarting, Markus Wöhr

T10-3B THE STROKE-INDUCED MICROGLIAL RESPONSE IN RATS IS AGE-DEPENDENT
Petra Henrich-Noack, Anne-Marie Miller, Marina Lynch

T10-4B OTOPROTECTION BY STIMULATION OF CGMP CASCADE IN A GERBIL AND RAT ANIMAL MODEL
Ksenia Varakina, Boris Müller, Mirko Jaumann, Marlies Knipper, Lukas Rüttiger

T10-5B PROFILIN1 IS REQUIRED FOR GLIAL CELL CONTACT AND RADIAL MIGRATION OF CEREBELLAR GRANULE NEURONS
Jan Kullmann, Alexander Neumeyer, Eckhard Friauf, Walter Witke, Marco Rust

Friday

T10-1C IMPACT OF SOCIAL EXPERIENCE ON RAT SOCIAL APPROACH BEHAVIOR INDUCED BY 50-KHZ ULTRASONIC VOCALIZATIONS SERVING A PRO-SOCIAL COMMUNICATIVE FUNCTION
Dominik Seffer, Henrike Rippberger, Rainer K. W. Schwarting, Markus Wöhr

T10-2C EMISSION RATIOMETRIC MULTIPHOTON IMAGING OF JC-1 FLUORESCENCE REVEALS MITOCHONDRIAL ALTERATIONS IN A MOUSE MODEL OF RETT SYNDROME
Michael Müller, Dörthe Bebensee

T10-3C NORMAL SOCIAL RECOGNITION BUT IMPAIRED OBJECT RECOGNITION IN SHANK1 KNOCKOUT MICE
Magdalena CE Jochner, A. Özge Sungur, Rainer K. W. Schwarting, Markus Wöhr

T10-4C STUDYING GENE-ENVIRONMENT INTERACTION IN AGED MICE OVEREXPRESSING THE SCHIZOPHRENIA SUSCEPTIBILITY GENE TCF4
Dorota Badowska, Magdalena M. Brzózka, Peter Falkai, Moritz J. Rossner

T10-5C TROLOX TREATMENT IMPROVES CELLULAR REDOX BALANCE, HYPOXIA TOLERANCE AND SYNAPTIC PLASTICITY IN A MOUSE MODEL OF RETT SYNDROME
Oliwia Alicja Janc, Ursula Hirt, Emanuel Großer, Michael Müller

Saturday

T10-1D COGNITIVE AGING IN THE ZEBRAFISH (DANIO RERIO)
Tim Ruhl, Gerhard von der Emde

T10-2D THE ACTIN-DEPOLYMERIZING PROTEIN COFILIN IS REQUIRED FOR THE POLARIZATION AND PROPER POSITIONING OF CORTICAL NEURONS
Xuejun Chai, Li Fan, Hong Shao, Shanting Zhao, Michael Frotscher

T10-3D A TOUCH-SCREEN COGNITIVE TESTING METHOD FOR AN EMERGING PRIMATE BRAIN AGING MODEL, THE MOUSE LEMUR (MICROCEBUS MURINUS)
Marine Joly, Sandra Ammersdoerfer, Mathias Craul, Daniel Schmidtke, Elke Zimmermann

T10-4D LOSS OF PARVALBUMIN EXPRESSING INTERNEURONS IN LAYER 2/3 OF THE HUMAN EPILEPTOGENIC NEOCORTEX UNDER VARIOUS PATHOLOGICAL CONDITIONS
Maximilian Sebastian Augustin, Silviya Ivanova, Catharina Donkels, Carola A. Haas, Stefan M. Hefft

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

Wednesday

T11-1A THE ROLE OF CALPAIN IN ACUTE AXONAL DEGENERATION IN THE RAT OPTIC NERVE IN VIVO
Jiannan Zhang, Jan-Christoph Koch, Uwe Michel, Mathias Bähr, Paul Lingor

T11-2A SIRTUIN 2 DELETION PROTECTS AGAINST MPTP-INDUCED TOXICITY IN A MOUSE MODEL OF PARKINSONISM
Éva M. Szegö, Mostafa Semak, Tiago F. Outeiro

T11-3A INHIBITION OF DEUBIQUITINATING ENZYMES BY PR-619 CAUSES THE FORMATION OF PROTEIN AGGREGATES IN OLIGODENDROGLIAL CELLS AND LEADS TO THE ACTIVATION OF THE AUTOPHAGIC PATHWAY
Veronika Seiberlich, Janika Borchert, Victoria Zhukareva, Christiane Richter-Landsberg

T11-4A ROLE OF GROWTH DIFFERENTIATION FACTOR -15 (GDF-15) IN THE 6-OHDA MODEL OF PARKINSON'S DISEASE
Venissa Machado, Björn Spittau, Stefan J.-P. Haas , Andreas Schober, Andreas Wree, Kerstin Krieglstein, Klaus Unsicker

T11-5A SYSTEMATIC COMPARISON OF THE EFFECTS OF ALPHA-SYNUCLEIN MUTATIONS ON OLIGOMERIZATION AND AGGREGATION
Diana Fernandes Lázaro, Eva Rodrigues, Patrícia Guerreiro, Ellen Gerhardt , Tiago Fleming Outeiro

T11-6A THE INTERPLAY BETWEEN ATP13A2 AND ALPHA-SYNUCLEIN IN PARKINSON'S DISEASE
Tomás Ribeiro da Silva Lopes da Fonseca, Silvio Rizzoli, Tiago Fleming Outeiro

T11-7A RAPAMYCIN AUGMENTS APOPTOTIC CELL DEATH CAUSED BY PROTEASOMAL INHIBITION IN OLIGODENDROGLIAL CELLS
Monika Noack, Christiane Richter-Landsberg

T11-8A DECIPHERING THE ROLE OF ALPHA-SYNUCLEIN IN THE NUCLEUS: INSIGHT INTO THE MOLECULAR BASIS OF SYNUCLEINOPATHIES
Raquel Pinho, Lilach Soreq, Luis Fonseca, Kristina Gotovac, Markus Zweckstetter, Hermona Soreq, Fran Borovecki, Joaquim Ferreira, Cristina Rego, Tiago Outeiro

T11-9A NEURONAL PROTECTION BY GAPDH PSEUDOGENE P44 VARIANT
Norbert Wendelin Seidler, Sara O. Mason, Christopher S. Theisen

T11-10A THE EXPRESSION OF PROSAP/SHANK PROTEINS IN DEVELOPMENT AND AGING IN THE HEALTHY AND DISEASED BRAIN
Resham Chhabra, Katharina Mangus, Tobias M. Boeckers, Andreas M. Grabrucker

T11-11A INTRASTRIATAL BOTULINUM NEUROTOXIN-A INJECTION IN RATS IS NOT CYTOTOXIC - A HISTOLOGICAL AND STEREOLOGICAL ANALYSIS
Juliane Mehlan, Hans Brosig, Alexander Hawlitschka, Oliver Schmitt, Eilhard Mix, Andreas Wree

T11-12A BRAIN TUMOR MICROENVIRONMENT AND ANGIOGENESIS: XCT-DERIVED GLUTAMATE IN THE LIMELIGHT
Zheng Fan, Thomas Broggini, Stefan W. Hock, Eric P. Meyer, Marco Stampanoni, Michael Buchfelder, Ilker Eyüpoglu, Nic E. Savaskan

Thursday

T11-1B CHARACTERIZATION OF HUMAN IPSC DERIVED NEURONS OF DISEASED AND CONTROL DONORS
Stefanie Pfänder, Andreas Grabrucker, Stefan Liebau, Tobias Böckers

T11-2B AUTOIMMUNE MECHANISMS IN THE NEURODEGENERATIVE BATTEN DISEASE
Benedikt Grünewald, Christian Werner, Antonia Post, Holger Haselmann, Andreas Weishaupt, Sandy Popp, Angela Dreykluft, Claudia Sommer, Klaus Viktor Toyka, Christian Geis, Holger Haselmann, Christian Werner, Antonia Post, Andreas Weishaupt, Sandy Popp, Angela Dreykluft, Claudia Sommer, Klaus Viktor Toyka, Christian Geis

T11-3B ADULT NEUROGENESIS IN THE HIPPOCAMPUS OF STREPTOZOTOCIN INTRACEREBROVENTRICULARLY TREATED RATS – AN ANIMAL MODEL FOR SPORADIC ALZHEIMER'S DISEASE
Ping Sun, Ana Knezovic, Milena Parlak, Margeritha M. Lee, Qian Hua, Peter Riederer, Jürgen Deckert, Melita Salkovic-Petrisic, Angelika G. Schmitt

T11-4B CALCIUM DYNAMICS IN DEGENERATING CONE PHOTORECEPTORS
Manoj Mohan Kulkarni, Emily Fan, Robin Kemmler, Timm Schubert, Bernd Wissinger, Thomas Euler, François Paquet-Durand

T11-5B CHARACTERIZATION OF THE MOUSE MODEL RD10 FOR RETINITIS PIGMENTOSA (RP): A MORPHOLOGICAL AND ELECTROPHYSIOLOGICAL STUDY
Sonia Biswas, Frank Müller

T11-6B EXPRESSION OF GLUTAMINYL CYCLASE AND THYROTROPIN-RELEASING HORMONE IN MOUSE HIPPOCAMPUS
Alexander Waniek, Maike Hartlage-Rübsamen, Astrid Kehlen, Hans-Ulrich Demuth, Steffen Roßner

T11-7B ROCK2 AND GAP43 EXPRESSION ARE ALTERED IN HUMAN PARKINSON´S DISEASE BRAINS
Kim-Ann Saal, Lisa Barski, Lars Tönges, Sigrun Roeber, Hans Kretzschmar, Mathias Bähr, Paul Lingor

T11-8B MICROGLIAL CELLS IN CHRONIC EPILEPTIC RATS EXHIBIT SUBREGION-SPECIFIC ACTIVATION, ONLY PARTIALLY ASSOCIATED WITH NEURONAL LOSS
Ismini E Papageorgiou, Andriani F Fetani, Andrea Lewen, Uwe Heinemann, Oliver Kann

T11-9B SPATIAL LEARNING AND SHORT TERM MEMORY IN AN APP/PS1 MOUSE MODEL OF ALZHEIMER'S DISEASE
Laura Psotta, Melanie Veit, Elmar Kirches, Volkmar Leßmann, Thomas Endres

T11-10B RAT BRAIN OLIGODENDROCYTES TAKE UP α-SYNUCLEIN FROM THE ENVIRONMENT AND BUILD UP INTRACELLULAR INCLUSIONS IN A TIME-DEPENDENT MANNER
Katharina Pukaß, Christiane Richter-Landsberg

T11-11B SEPTO-TEMPORAL MODIFICATIONS IN ADULT HIPPOCAMPAL PLASTICITY AND NEURONAL INTEGRATION IN FUNCTION OF AGE AND ALPHA-SYNUCLEIN IN A PARKINSON'S DISEASE MOUSE MODEL
Nada Ben Abdallah, Hanna Langemann, Jonathan Vogelsgang, Juergen Winkler

T11-12B ROLE OF JNK IN AUTOPHAGIC CELL DEATH IN THE CINGULATE CORTEX IN A KA-INDUCED RAT MODEL OF EPILEPSY
ALESSANDRO VERCELLI, MARTA TROPIANO, GIADA SPIGOLON, CHRISTOPHE BONNY

T11-13B IMPACT OF PROTEASOMAL STRESS ON THE LEVEL OF SELECTED PROTEINS OF BCL-2 FAMILY
Peter Racay, Ivana Pilchova, Dusan Dobrota

Friday

T11-1C EFFECTS OF CHRONIC SUBTHALAMIC NUCLEUS DEEP BRAIN STIMULATION ON THE PERFORMANCE IN THE FIVE CHOICE SERIAL REACTION TIME TASK
Nadine Polascheck, Joachim K. Krauss, Kerstin Schwabe

T11-2C NEURONAL CELL DEATH IN INHERITED RETINAL DEGENERATION IS A SURPRISINGLY SLOW PROCESS
François Paquet-Durand, Ayse Sahaboglu, Olivier Paquet-Durand, Bernd Hitzmann, Per Ekstroem, Marius Ueffing

T11-3C IMPROVEMENT AND STANDARDIZATION OF THE PILOCARPINE MODEL OF TEMPORAL LOBE EPILEPSY
Kathrin Töllner, Claudia Brandt, Wolfgang Löscher

T11-4C BENEFICIAL EFFECTS OF MITOCHONDRIA-TARGETED CHOLESTEROL OXIMES IN MICE OVER-EXPRESSING ALPHA-SYNUCLEIN
Franziska Richter, Sheila M. Fleming, Fuying Gao, Vincent Lemesre, Magali Michaud, Chunni Zhu, Giovanni Coppola, Thierry Bordet, Rebecca Pruss, Marie-Francoise Chesselet

T11-5C A LARGE TURKISH PARKINSON PEDIGREE WITH ALPHA-SYNUCLEIN DUPLICATION: BLOOD EXPRESSION BIOMARKER PROFILE FOR PREDICTIVE DIAGNOSTICS
Georg Auburger, Suna Lahut, Özgür Ömür, Caroline Pirkevi, Hulya Tireli, Eva Herrmann, Nadine Brehm, Suzana Gispert, Nazli Basak

T11-6C IMMORTALIZED MOUSE HYPOTHALAMIC GT1-7 NEURONS AS CELL CULTURE MODEL FOR GLUTAMINYL CYCLASE FUNCTION
Corinna Höfling, Maike Hartlage-Rübsamen, Ulrike Zeitschel, Holger Cynis, Hans-Ulrich Demuth, Steffen Roßner

T11-7C THE EGF-LIKE DOMAIN OF NEUREGULIN 1 TYPE III IS LIBERATED BY ADAMS AND BACE1
Michael Willem, Daniel Fleck, Christian Haass

T11-8C IMPAIRED ACTIVE AVOIDANCE MEMORY IN AN ANIMAL MODEL OF ALZHEIMER´S DISEASE, THE APP/PS1 MOUSE
Carolin Rockahr, Michael Gruss, Laura Psotta, Thomas Endres, Volkmar Lessmann, Katharina Braun

T11-9C VALIDATION OF A ROTENONE-INDUCED RAT MODEL OF PARKINSON'S DISEASE: BEHAVIORAL AND ELECTROPHYSIOLOGICAL MEASURES
Christof v. Wrangel, Kerstin Schwabe, Joachim K. Krauss, Mesbah Alam

T11-10C ROCK INHIBITION IN A CELL CULTURE MODEL OF α-SYNUCLEIN AGGREGATION
Hagen Lothar Walle, Lars Tatenhorst, Lars Tönges, Tiago Fleming Outeiro, Mathias Bähr, Paul Lingor

T11-11C INTRACELLULAR BDNF TRANSPORT IS IMPAIRED IN MOUSE MODELS OF ALZHEIMER'S DISEASE
Bianca Seifert, Volkmar Leßmann, Tanja Brigadski

T11-12C EXPRESSION ANALYSIS OF DOPAMINERGIC MARKER GENES IN TYROSINE HYDROXYLASE POSITIVE NEURONS IN THE STRIATUM OF TH-EGFP MICE BY LASER MICRODISSECTION
Martin Klietz, Candan Depboylu, Wei-Hua Chiu, Kazuto Kobayashi, Eberhard Weihe, Martin K.-H. Schäfer

T11-13C THE NKCC1-INHIBITOR BUMETANIDE DOES NOT ENHANCE THE EFFECT OF GABA- POTENTIATING DRUGS ON STATUS EPILEPTICUS IN RATS
Claudia Brandt, Kathrin Töllner, Gerda Brunhofer, Thomas Erker, Mario Gabriel, Peter W. Feit, Wolfgang Löscher

Saturday

T11-1D THE INTERPLAY BETWEEN α-SYNUCLEIN AND RAB GTPASES: INSIGHT INTO THE MOLECULAR BASIS OF SYNUCLEINOPATHIES
Sibylle Elisabeth Eisbach, Tiago Fleming Outeiro

T11-2D GENERATION AND FUNCTIONAL ANALYSIS OF DOPAMINERGIC REPROGRAMMING FACTORS FOR PROTEIN TRANSDUCTION
Sebastian Neumann, Naemi Treuter, Dennis Paliga, Koushik Chakrabarty, Rolf Heumann

T11-3D EFFECTS OF CYCLOSPORINE A ON SEIZURE THRESHOLDS IN ACUTE AND CHRONIC EPILEPSY MODELS
Annelie Handreck, Deborah Annina Elger, Laura Gey, Manuela Gernert

T11-4D EVALUATION AND PHARMACOKINETIC CHARACTERIZATION OF THE RADIOTRACER 123I-FP-CIT USING SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY (SPECT) IN A NON-HUMAN PRIMATE MODEL OF PARKINSON'S DISEASE
Enrique Garea-Rodríguez, Christina Schlumbohm, Boldizsár Czéh, Jessica König, Gunther Helms, Cornelia Heckmann, Birgit Meller, Johannes Meller, Eberhard Fuchs

T11-5D ELECTRON MICROSCOPY OF AMYLOID FIBRE AGGREGATES INDUCED BY THE PRESENCE OF SERF PROTEIN
Gerd Leitinger, S. Fabio Falsone

T11-6D THE ROLE OF APOLIPOPROTEINS IN CUPRIZONE INDUCED DEMYELINATION AND SUBSEQUENT REMYELINATION
Birte Könnecke, Mathias Bähr, Mikael Simons

T11-7D H2S PRODUCTION INHIBITION IN AN EXPERIMENTAL MODEL OF SEIZURES: EEG AND BEHAVIORAL EFFECTS
Dragan Hrncic, Aleksandra Rasic - Markovic, Veselinka Susic, Dragan Djuric, Olivera Stanojlovic

T11-8D ELECTRICAL IMAGING OF LOCAL FIELD POTENTIALS AND SINGLE UNIT ACTIVITY IN ORGANOTYPIC HIPPOCAMPAL SLICES USING A HIGH-DENSITY MULTI-TRANSISTOR ARRAY (NEUROCHIP)
Lakshmi Channappa, Günther Zeck

T11-9D CHARACTERIZATION OF KIR4.1 CHANNEL EXPRESSION IN SCHWANN CELLS OF THE SCIATIC NERVE IN A MOUSE MODEL OF METACHROMATIC LEUKODYSTROPHY
Cin-He Chang, Lihua Wang-Eckhardt, Matthias Eckhardt, Gerald Seifert, Volkmar Gieselmann, Christian Steinhäuser

T11-10D MITOCHONDRIAL DISFUNCTION IN A MOUSE MODEL OF PARKINSON'S DISEASE
JULIA ZERLE, FLORIAN GIESERT, MARTIN JASTROCH, DANIELA VOGT-WEISENHORN, WOLFGANG WURST

T11-11D ß-SYNUCLEIN AGGREGATES AND INDUCES NEURODEGENERATION IN ADULT RAT DOPAMINERGIC NEURONS IN VIVO
Grit Taschenberger, Johan Toloe , Yuliya Tereshchenko, Mathias Baehr , Sebastian Kuegler

T11-12D DIFFERENTIAL ALTERATIONS IN NEURONAL NETWORK EXCITABILITY AND BEHAVIOR IN MICE WITH CELL TYPE-SPECIFIC EXPRESSION OF RNA-EDITED GLYCINE RECEPTOR α3L
Jochen Christian Meier, Nicola Maggio, Gürsel Caliskan, Joanna Fedun, Ute Häussler, Sarah Kowalczyk, Luminita Stoenica, Ewa Chronowska, Birthe Smolinsky, Günter Schwarz, Tamar Dugladze, Gidi Rechavi, Uwe Heinemann, Carola A. Haas, Tengis Gloveli, Akos Kulik, Aline Winkelmann

T11-13D COMPUTATIONAL CHARACTERISTICS OF RECURRENT NEURAL NETWORKS UNDER THE INFLUENCE OF ALZHEIMER'S DISEASE
Claudia Bachmann, Tom Tetzlaff, Susanne Kunkel, Philipp Bamberger, Abigail Morrison

T12: Neuroimmunology, inflammation and neuroprotection

Wednesday

T12-1A ESTABLISHMENT OF A RETINAL ISCHEMIA ORGAN CULTURE MODEL
Sven Schnichels, Matthias Blak, Johanna Hofmann, K. U. Bartz-Schmidt, Martin S. Spitzer, Maximilian Schultheiss

T12-2A HYPOTHERMIA PROTECTS RETINAL GANGLION CELLS AGAINST ISCHEMIA
Maximilian Schultheiss, Mathias Blak, Tanja Dorfi, Johanna Hofmann, Karl Ullrich Bartz-Schmidt, Martin S. Spitzer, Sven Schnichels

T12-3A IN VITRO ANALYSIS OF HIPPOCAMPAL AND PREFRONTAL CORTEX NEUROINFLAMMATORY MECHANISMS INVOLVED IN INTERFERON-THERAPY AND HEPATITIS C RELATED DEPRESSION
Carolina Hoyo Becerra, Anastasia Hübener, Martin Trippler, Lena Poggenpohl, Guido Gerken, Jörg Friedrich Schlaak

T12-4A GENE EXPRESSION ANALYSIS OF RETINAL GANGLION CELLS IN EXPERIMENTAL AUTOIMMUNE OPTIC NEURITIS
Prateek Kumar Prateek, Sven Wichert, Benedikt Kretzschmar, Mathias Bähr, Moritz Rossner, Katharina Hein

T12-5A CORRELATING FACES SYMBOL TEST, SYMBOL DIGIT MODALITIES TEST AND PACED AUDITORY SERIAL ADDITION TEST TO WHITE MATTER DAMAGE IN RELAPSING REMITTING MULTIPLE SCLEROSIS
Alina Freing, Michael Scheel, Nicholetta Weinges-Evers, Laura Wieder, Jan-Markus Dörr, Friedemann Paul, Alexander U. Brandt, Jens Wuerfel

T12-6A ERYTHROPOIETIN-MEDIATED PROTECTIVE MECHANISMS IN INSECT NEURONS
Natasa Miljus, Karina Schäfer, Sarah Pompe, Mona Roesler, Hannelore Ehrenreich, Ralf Heinrich

Thursday

T12-1B SYSTEMIC TRANSPLANTATION OF NEURAL PRECURSOR CELLS IN EXPERIMENTAL CEREBRAL ISCHEMIA – DEPENDENCE OF FUNCTIONAL OUTCOME ON CELL DELIVERY TIMING
Mohammad Rakibul Hasan, Mahesh Kumar Teli, Dirk M. Hermann, Thorsten R Doeppner

T12-2B AUTOIMMUNE ACTIVITIES IN AN EXPERIMENTAL MODEL OF RETINAL GANGLION CELL LOSS
Sandra Kühn, Rozina Noristani, Mathias Kühn, Burkhard Dick, Stephanie C. Joachim

T12-3B TGFß INCREASES MICROGLIA-MEDIATED ENGULFMENT OF APOPTOTIC CELLS VIA UPREGULATION OF THE ITGß5/MFGE8 RECEPTOR/LIGAND PAIR
Björn Spittau, Jennifer Rilka, Kerstin Krieglstein

T12-4B AUTOIMMUNE ENCEPHALITIS: A SEARCH FOR NOVEL NEURONAL AUTOANTIGENS
Margje Helena van Coevorden - Hameete, Esther de Graaf, Peter Maat, Esther Hulsenboom, Peter Sillevis-Smitt, Casper Hoogenraad

T12-5B INFLUENCE OF PIGMENT EPITHELIUM DERIVED FACTOR ON BLOOD BRAIN BARRIER IN NORMAL AND ISCHEMIC BRAIN
Arina Riabinska, Ryan Cordell, Menderes Yusuf Terzi, Marietta Zille, Melina Niemminen, Jan Klohs, Peter Vajkoczy, Ulrich Dirnagl, Ana Luisa Pina

Friday

T12-1C CD14 AS A KEY REGULATOR OF TLR-MEDIATED RESPONSES OF MICROGLIA
Hana Janova, Tommy Regen, Denise van Rossum, Sandra Ribes, Roland Nau, Wolfgang Brück, Uwe-Karsten Hanisch

T12-2C INNATE IMMUNE ANTI-VIRAL RESPONSES OF IRF-1 IN THE CNS
Sharmila Nair, Katja Finsterbusch, Andrea Kroeger

T12-3C FUNCTIONAL CHARACTERIZATION OF THE CDK5-DEPENDENT TRPV1 PHOSPHORYLATION
Thomas Jendryke, Christian H. Wetzel

T12-4C IMMUNRESPONSE AGAINST OCULAR TISSUES AFTER IMMUNIZING RATS WITH AN OPTIC NERVE ANTIGEN
Stephanie C. Joachim, Oliver W. Gramlich, Panos Laspas, Sabrina Reinehr, Sandra Kuehn, Mathias Kuehn, Tischoff Iris, H. Burkhard Dick, Franz H. Grus

Saturday

T12-1D DRAWING ANALOGIES BETWEEN SYSTEMS: THE ROLE OF MAGUK – KV INTERACTIONS IN THE IMMUNE SYNAPSE
Juliane Handschuh, Rebecca Pötschke, Carina Fürst, Martin Heine, Eckart Gundelfinger, Klaus-Dieter Fischer, Ulrich Thomas

T12-2D INTERLEUKIN-6 PROMOTES AXON REGENERATION OF MATURE RETINAL GANGLION CELLS AND CONTRIBUTES TO INFLAMMATORY STIMULATION-INDUCED OPTIC NERVE REGENERATION
Marco Leibinger, Adrienne Müller, Philipp Gobrecht, Heike Diekmann, Anastasia Andreadaki, Dietmar Fischer

T12-3D TRAUMATIC BRAIN INJURY: MODULATION OF BLOOD-BRAIN BARRIER INTEGRITY BY VOLATILE ANESTHETICS IS INFLUENCED BY THE CHOICE OF VOLATILE ANESTHETICS ON THE LEVEL OF TIGHT JUNCTION PROTEIN EXPRESSION
Christoph Michael Zehendner, Clara Luh, Eva-Verena Schaible, Ralph Timaru-Kast, Jana Hedrich, Heiko J. Luhmann, Kristin Engelhard, Serge C. Thal

T12-4D INDUCTION OF INFLAMMATORY DEMYELINATION CAUSES RETINAL GANGLION CELL DEGENERATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS
Heiko Schmid, Lioba Horstmann, Florian Kurschus, Ari Waisman, Burkhard Dick, Stephanie C. Joachim

T12-5D THE ASTROCYTIC PROTEINS NDRG2 AND GFAP IN THE RAT HIPPOCAMPUS ARE REGULATED BY CHRONIC SOCIAL STRESS AND THE ANTIDEPRESSANT CITALOPRAM
Gabriele Flügge, Carolina Araya-Callís, Christoph Hiemke

T13: Cognitive, emotional, behavioral state disorders and addiction

Wednesday

T13-1A THE 5-HT6 RECEPTOR AGONIST EMD 386088 REVERSES KETAMINE-INDUCED COGNITIVE INFLEXIBILITY IN RATS
Agnieszka Nikiforuk, Piotr Popik

T13-2A NEUROANATOMICAL CHARACTERIZATION OF A PHARMACOLOGICALLY INDUCED RODENT MODEL OF SCHIZOPHRENIA
Linda Reimers, Ana Relo, Corinna Klein

T13-3A ERBB4 MODULATES ATTENTION BY CONTROLLING SYNAPTIC FUNCTIONS IN THE RETICULAR NUCLEUS OF THE THALAMUS
Sandra Ahrens, Santiago Jaramillo, Hiroki Taniguchi, Josh Z. Huang, Bo Li

T13-4A RELATIONSHIP BETWEEN IMPULSIVITY, TOBACCO STATUS AND SYMPTOMATOLOGY IN PARANOID SCHIZOPHRENIA
Mounir Ouzir, Jean Michel Azorin, Nadia Correard, Sara-Nora Elissalde, Romain Padovani, Omar Battas, Driss Boussaoud

T13-5A DIRAS2: CANDIDATE GENE FOR ADHD AND ITS EXPRESSION IN THE BRAIN
Lena Weißflog, Nils Becker, Klaus-Peter Lesch, Andreas Reif

T13-6A (A)SOCIAL BEHAVIOR AND SEXUAL PREFERENCE IN MICE LACKING TRYPTOPHAN HYDROXYLASE 2
Daniel Beis, Valentina Mosienko, Karolin Holzwarth, Catherine Schweppe , Markus Wöhr, Natalia Alenina

Thursday

T13-1B DEFICITS IN TRACE FEAR MEMORY IN A MOUSE MODEL OF THE SCHIZOPHRENIA RISK GENE TCF4
Moritz J. Rossner, Magdalena M. Brzozka

T13-2B ASSOCIATION STUDY OF THE POLYMORPHISMS OF SELECTIVE GENES AND MAJOR DEPRESSIVE DISORDER: A PATIENT CENTERED APPROACH
Jan Lehotsky, Andrea Evinova, Igor Ondrejka, Dusan Dobrota

T13-3B THE EVOLUTION OF THE EXTENDED AMYGDALOID COMPLEX IN TELEOST FISH – LESSONS FROM THE ZEBRAFISH TRANSGENIC LINES TG(VGLUT2A:GFP) AND TG(LHX2A:GAP-YFP)
Thomas Mueller, Nicola Sebert

T13-4B TRUNCATED DISRUPTED IN SCHIZOPHRENIA 1 IMPAIRS CORTICAL FAST-SPIKING INTERNEURON FUNCTION AND GAMMA OSCILLATIONS
Jonas-Frederic Sauer, Michael Strüber, Marlene Bartos

T13-5B ELECTROCONVULSIVE THERAPY IN AN ANIMAL MODEL OF DEPRESSION
Wiebke Theilmann, Katarzyna Socala, Claudia Brandt, Helge Frieling, Stefan Bleich, Wolfgang Löscher

T13-6B EFFECT OF DEEP BRAIN STIMULATION IN RATS SELECTIVELY BRED FOR DEFICIENT PREPULSE INHIBITION, AN ENDOPHENOTYPE FOR TOURETTE`S SYNDROME
Svilen Delchev Angelov, Joachim K. Krauss, Kerstin Schwabe

Friday

T13-1C AN ACUTE MK801-INDUCED SCHIZOPHRENIA-LIKE PSYCHOTIC EPISODE IS FOLLOWED BY CHRONIC AND PERSISTENT DEFICITS IN HIPPOCAMPAL LONG-TERM POTENTIATION AND MEMORY IN FREELY MOVING RATS
Valentina Wieschollek, Denise Manahan-Vaughan

T13-2C METABOLITE CHANGES DURING TREATEMENT OF ADHD CHILDREN WITH ATOMOXETINE AND METHYLPHENIDATE MEASURED USING PROTON MAGNETIC RESONANCE SPECTROSCOPY
Dušan Dobrota, Veronika Husarova, Michal Bittsansky, Igor Ondrejka, Hubert Polacek

T13-3C THE ROLE OF NRG1 IN CORTICAL DEVELOPMENT AND NETWORK INTEGRITY
Tilmann Unterbarnscheidt, Maria Clara Soto-Bernardini, Viktorija Velanac, Sophie Crux, Klaus-Armin Nave, Markus H. Schwab

T13-4C BEHAVIORAL CONSEQUENCES OF EARLY LIFE STRESS AND EARLY LIFE ENRICHMENT IN CD1 MICE
Antonia Post, Sandy Popp, Ulrich Dischinger, Aet Alttoa, Andreas Reif

T13-5C ANALYSIS OF THE INFLUENCE OF ODOR STIMULATION WITH IZOAMILACETATE ON THE PSYCHOPHYSIOLOGICAL STATE OF HUMAN
Iuliia Sosiedka, Sergii Tukaiev , Sergii Krizhanovskiy, Igor Zima, Olga Radchuk

T13-6C VISION LOSS AFTER PERIPHERAL OPTIC NERVE LESION IS RELATED TO PERMANENT ALTERATION OF LONG-RANGE CORTICAL FUNCTIONAL CONNECTIVITY: AN EEG RESTING STATE STUDY
Michal Bola, Carolin Gall, Christian Moewes, Anton Fedorov, Hermann Hinrichs, Bernhard A. Sabel

T13-7C REGIONAL AND CELLULAR EXPRESSION PATTERN OF CADHERIN-13 IN THE MURINE BRAIN
Sarah Andrea Sich, A. G. Schmitt, K.-P. Lesch, O. Rivero

Saturday

T13-1D LIFELONG TPH2 DEFICIENCY RESULTS IN HYPERACTIVITY AND ALTERED EMOTIONAL BEHAVIOR
Jonas Waider, Sandy Popp, Florian Proft, Lise Gutknecht, Esther Asan, Klaus-Peter Lesch

T13-2D METABOLIC IMAGING AFTER NOISE TRAUMA IN TINNITUS VERSUS NON-TINNITUS CONDITIONS
Florian Theden, Sara Euteneuer, Dietmar Kuhl, Claudia Mahlke

T13-3D STRESS SUPPRESSES MONOAMINERGIC NEUROMODULATION OF HIPPOCAMPAL INHIBITION
David Gruber, Kate Elizabeth Gilling, Anne Albrecht, Oliver Stork, Uwe Heinemann, Joachim Behr

T13-4D TOPOGRAPHIC VARIABILITY OF LANGUAGE SITES ACROSS TIME
Dieter M. Weinert, Eduard Kraus

T13-5D COCAINE-INDUCED CIRCUITRY REORGANIZATION
Anna Suska, Brian R. Lee, Yan Dong, Oliver Schlüter

T13-6D THE LATERAL HABENULA: SMALL NUCLEI WITH LARGE EFFECT ON DEPRESSION?
Anne Stephanie Vogel, Miriam A. Vogt, Natascha Pfeiffer, Mazahir T. Hasan, Rolf Sprengel, Peter Gass

T14: Vision: invertebrates

Wednesday

T14-1A DO CRICKETS INTEGRATE POLAROTAXIS AND PHONOTAXIS?
Hannah Julia Martina Haberkern, Berthold Hedwig

T14-2A SERIAL BLOCK FACE SCANNING ELECTRON MICROSCOPY (SBEM) TO RECONSTRUCT A LOCUST MOTION DETECTING PATHWAY
Stefan Wernitznig, Armin Zankel, Peter Pölt, F. Claire Rind, Gerd Leitinger

T14-3A DESERT ANT'S NAVIGATION: EFFECTS OF CONFLICTING CELESTIAL COMPASS INFORMATION
Fleur Lebhardt, Bernhard Ronacher

Thursday

T14-1B ASYMMETRIC POLAROTACTIC RESPONSE OF LOCUSTS IN A TETHERED FLIGHT SITUATION
Johannes Schuh, Uwe Homberg, Sarah Grant, Ronny Rosner

T14-2B TOPOGRAPHIC ORGANIZATION OF THE POSTERIOR OPTIC TUBERCLE IN THE LOCUST BRAIN: POSSIBLE ROLE IN THE GENERATION OF AN INTERNAL SKY COMPASS
Jerome M. Beetz, Basil el Jundi, Stanley Heinze, Uwe Homberg

T14-3B PERIPHERAL NEURAL CIRCUITS UNDERLYING COLOUR DISCRIMINATION IN DROSOPHILA
Christopher Schnaitmann, Christian Garbers, Thomas Wachtler, Hiromu Tanimoto

Friday

T14-1C VISUAL RESPONSIVENESS OF CENTRAL-COMPLEX NEURONS IN THE DESERT LOCUST SCHISTOCERCA GREGARIA
Tobias Bockhorst, Ronny Rosner, Uwe Homberg

T14-2C IMPACT OF OCTOPAMINERGIC MODULATION ON THE PROCESSING OF NATURAL DYNAMIC OPTIC FLOW IN THE FLY VISUAL SYSTEM
Diana Rien, Roland Kern, Rafael Kurtz

T14-3C COLOR CODING IN INTERNEURONS OF THE HONEYBEE
Benjamin H. Paffhausen, Randolf Menzel

Saturday

T14-1D LIGHT-INDUCED PLASTICITY OF GIANT SYNAPSES IN THE LATERAL ACCESSORY LOBE OF THE DESERT ANT, CATAGLYPHIS FORTIS
Franziska Veronika Schmitt, Sara Mae Stieb, Rüdiger Wehner, Wolfgang Rössler

T14-2D DISTRIBUTION PATTERNS OF SIFAMIDE IN HEMIMETABOLOUS INSECTS
Andreas Arendt, Julia Schulze, Susanne Neupert, Reinhard Predel, Monika Stengl

T14-3D NEURONAL ORGANIZATION OF LIGHT-ENTRAINMENT IN THE MADEIRA COCKROACH (RHYPAROBIA MADERAE)
Julia Schulze, Thomas Schendzielorz, Susanne Neupert, Reinhard Predel, Monika Stengl

T15: Vision: retina and subcortical pathways

Wednesday

T15-1A DELETION OF THE IONOTROPIC GLUTAMATE RECEPTOR SUBUNIT GLUR4 FROM HORIZONTAL CELLS OF THE MOUSE RETINA
Sebastian Ströh, Stephan Sonntag, Hannah Monyer, Reto Weiler, Klaus Willecke, Ulrike Janssen-Bienhold, Karin Dedek

T15-2A THE PHOTORECEPTOR RIBBON COMPLEX: A PRIMING DEVICE?
Martina Löhner, Angela Peukert, Jenny Atorf, Jan Kremers, Susanne Schoch, Elena Alvarez-Baron, Johann H. Brandstätter, Hanna Regus-Leidig

T15-3A LOSS- AND GAIN-OF-FUNCTION MUTATIONS IN THE CACNA1F GENE DIFFERENTIALLY IMPACT PHOTORECEPTOR SURVIVAL AND RIBBON SYNAPTIC FUNCTION IN THE MOUSE RETINA
Jenny Atorf, Hanna Regus-Leidig, Andreas Feigenspan, Marion A. Maw, Jan Kremers, Johann Helmut Brandstätter

T15-4A ARE COMPLEXINS INVOLVED IN REGULATING THE AVAILABILITY OF VESICLES AT PHOTORECEPTOR SYNAPTIC RIBBONS?
Anna Sendelbeck, Michaela Fuchs, Kerstin Reim, Johann Helmut Brandstätter

T15-5A LOCAL NEURONAL CIRCUITRY IN THE CHICKEN OPTIC TECTUM AND MODULATION BY THE ISTHMIC SYSTEM
Stefan Weigel, Matthias Dübbert, Harald Luksch

T15-6A VISUAL SYSTEM ASSESSMENT WITH MULTIFOCAL ELECTROPHYSIOLOGY – OPTIC MEDIA OPACITIES MIMIC RETINAL DISEASES
Anne Herbik, Gloria C. Hölzl, Juliane Reupsch, Michael B. Hoffmann

T15-7A PHARMACOLOGICAL MANIPULATION OF CHLORIDE HOMEOSTASIS IN THE RETINA : IMPACT ON DIRECTION SELECTIVE ON AND OFF RESPONSES IN THE RAT'S NUCLEUS OF THE OPTIC TRACT
Katharina Margaretha Spoida, Claudia Distler, Anne-Kathrin Trampe, Klaus-Peter Hoffmann

T15-8A PHOSPHORYLATION OF THE HORIZONTAL CELL-SPECIFIC CONNEXIN CX53.8 IN THE FISH RETINA: EFFECTS OF LIGHT, DOPAMINE AND ALL-TRANS RETINOIC ACID
Sebastian Hermann, Helena Greb, Nadine Mellies, Nina Hoyer, William H. Baldridge, Reto Weiler, Ulrike Janssen-Bienhold

Thursday

T15-1B DETECTION OF CGMP IN MOUSE RETINAL NEURONS USING IMMUNOHISTOCHEMISTRY AND LIVE CELL IMAGING BASED ON GENETICALLY ENCODED SENSORS
Zhijian Zhao, Frank Müller

T15-2B WHAT INFORMATION DOES THE EYE SEND TO THE BRAIN? RECORDING THE ENTIRE VISUAL OUTPUT AT A SINGLE RETINAL LOCATION
Thomas Euler, Philipp Behrens, Matthias Bethge, Tom Baden

T15-3B RECEPTIVE FIELD PROPERTIES OF NEURONS IN THE OPTIC TECTUM OF CHICKEN (GALLUS GALLUS)
Josine Verhaal, Harald Luksch

T15-4B BEYOND COLOUR VISION: DICHROMACY PROVIDES FOR OPTIMAL SAMPLING OF CONTRAST STATISTICS IN NATURAL SCENES
Timm Schubert, Tom Baden, Le Chang, Tao Wei, Mariana Zaichuk, Bernd Wissinger, Euler Thomas

T15-5B PROBING VISUAL RECEPTIVE FIELDS AT SINGLE SYNAPSE RESOLUTION
Katrin Franke, Thomas Euler, Tom Baden

T15-6B IMAGE STABILISATION THROUGH NON-LINEAR RETINAL PROCESSING
Garrett Greene, Erica Ehrhardt, Tim Gollisch, Thomas Wachtler

T15-7B MODULATION OF RESPONSE PROPERTIES IN RETINAL GANGLION CELLS BY REMOTE STIMULATION
Vidhyasankar Krishnamoorthy, Tim Gollisch

T15-8B SPATIAL INTEGRATION IN THE RECEPTIVE FIELD SURROUND OF RETINAL GANGLION CELLS
Daisuke Takeshita, Tim Gollisch

T15-9B COMPLEMENT DEPOSITION IN AN EXPERIMENTAL AUTOIMMUNE MODEL OF GLAUCOMA IN RATS
Sabrina Reinehr, Sebastian Becker, Sandra Kühn, Christina Casola, Mathias Kühn, Burkhard Dick, Stephanie C. Joachim

Friday

T15-1C MORPHOLOGY AND MICRO-PROJECTION PATTERN OF THE CELLS OF ORIGIN OF THE DESCENDING TECTO-GLV PATHWAY IN THE CHICKEN (GALLUS GALLUS)
Tomas Vega-Zuniga, Vanessa Marks, Stefan Weigel, Harald Luksch

T15-2C SPATIAL INTEGRATION OF SUBUNITS IN MOUSE RETINAL GANGLION CELLS
Michael Weick, Daisuke Takeshita, Tim Gollisch

T15-3C SPIKE-TRIGGERED ANALYSIS OF CONTRAST ADAPTATION IN THE RETINA
Jian Liu, Tim Gollisch

T15-4C CONNEXIN INTERACTIONS IN THE INNER RETINA OF THE MOUSE
Arndt Meyer, Birthe Dorgau, Sheriar G. Hormuzdi, Klaus Willecke, Reto Weiler, Karin Dedek

T15-5C USE OF MULTI ELECTRODE ARRAYS FOR RECORDINGS OF RETINAL GANGLION CELL ACTIVITY IN CACNA1F MUTANT MOUSE MODELS
Klaus Schicker, Dagmar Knoflach, Eduardo Fernandez, Peter Ahnelt, Alexandra Koschak

T15-6C VISUAL CAPABILITIES, VISUAL PLASTICITY AND COLLICULAR MAPS IN "CORTEXLESS" ESCO2-MUTANT MICE
Evgenia Kalogeraki, Verena Günther, Gabriela Whelan, Fred Wolf, Gregor Eichele, Siegrid Löwel

T15-7C CLASSIFYING RETINAL GANGLION CELLS USING RESPONSES TO NATURALISTIC STIMULI
Fernando Rozenblit, Tim Gollisch

T15-8C FUNCTIONAL PROPERTIES OF SPONTANEOUS SYNAPTIC EVENTS IN HORIZONTAL CELLS OF THE MOUSE RETINA
Andreas Feigenspan

T15-9C RHYTHMIC GANGLION CELL ACTIVITY IN BLEACHED OR BLIND MOUSE RETINAE
Henrike Stutzki, Jacob Menzler, Günther Zeck

Saturday

T15-1D SPATIAL CONTRAST ADAPTATION IN MOUSE RETINA
Mohammad Hossein Khani, Vidhyasankar Krishnamoorthy, Tim Gollisch

T15-2D RETINAL TOPOGRAPHY AND CENTRAL VISUAL PROJECTIONS OF A PALAEOGNATH BIRD, THE CHILEAN TINAMOU (NOTHOPROCTA PERDICARIA)
Quirin Krabichler, Harald Luksch, Tomas Vega-Zuniga, Gonzalo J. Marín, Cristian Morales, Jorge Mpodozis

T15-3D HOW RETINAL GANGLION CELLS ENCODE OBJECT MOTION AND MOTION DIRECTION
Norma Kühn, Tim Gollisch

T15-4D A NEW PSYCHOPHYSIOLOGICAL MODEL OF ABSOLUTE VISUAL THRESHOLDS IN MAN
Werner Georg Karl Backhaus

T15-5D STRUCTURE-FUNCTION RELATIONSHIP OF DIRECTION-SELECTIVE CELL TYPES IN THE OPTIC TECTUM OF LARVAL ZEBRAFISH
Johann H. Bollmann, Chintan A. Trivedi, Fabian Svara, Colette M. Maurer, Soojin Ryu, Jens P. Gabriel

T15-6D GANGLION CELL MOSAICS AND THEIR POTENTIAL INFLUENCE ON ORIENTATION PREFERENCE MAPS
Manuel Schottdorf, Wolfgang Keil, Fred Wolf

T15-7D EARLY MULTISENSORY INTERACTION REVEALED THROUGH SIMULTANEOUS INTER-AREAL RECORDINGS IN THE FERRET MIDBRAIN
Iain Maurice Stitt, Edgar Galindo-Leon, Florian Pieper, Gerhard Engler, Andreas K. Engel

T15-8D PSYCHOPHYSICAL MEASUREMENTS OF ABSOLUTE VISUAL THRESHOLDS IN MAN
Andreas Krensel, Werner Georg Karl Backhaus

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

Wednesday

T16-1A THE EFFECT OF LANGUGAGE ON HORIZONTAL ASYMMETRY IN OVERT ATTENTION
Zaeinab Afsari, Jose P. Ossandon, Matti Krüger, Matthias Hampel, Peter König

T16-2A INFLUENCE OF A CORTICAL LESION IN THE MOTOR CORTEX ON VISUAL CORTEX PLASTICITY IN ADULT MICE
Justyna Pielecka-Fortuna, Evgenia Kalogeraki, Siegrid Löwel

T16-3A REELIN-DEFICIENT MICE POSSESS NORMAL VISUAL ACUITY AND VISUAL CORTICAL MAPS
Ann-Kristin Martens, Bianka Goetze, Karl-Friedrich Schmidt, Robin Wagener, Jochen Staiger, Siegrid Löwel

T16-4A PERISACCADIC RESPONSE MODULATIONS IN AREA V4 OF THE MACAQUE MONKEY
Steffen Klingenhoefer, Markus Wittenberg, Thomas Wachtler, Frank Bremmer

T16-5A TASK-DEPENDENT ATTENTIONAL MODULATION OF HUMAN VISUAL MOTION DIRECTION DISCRIMINATION THRESHOLDS
Elena Spanou, Stefan Treue

T16-6A A COMPUTATIONAL MODEL OF LIGHT SCATTER AND IMAGE FORMATION IN THE HUMAN EYE
Ismael Kelly Pérez, Annette Werner

T16-7A DARK EXPOSURE RESCUES OCULAR DOMINANCE PLASTICITY IN THE VISUAL CORTEX OF ADULT MICE IN AN AGE-DEPENDENT MANNER
Sophia Katharina Stodieck, Bianka Goetze, Franziska Greifzu, Hugo Cruces-Solis, Karl-Friedrich Schmidt, Siegrid Löwel

T16-8A EFFECTS OF LOCOMOTION ON RESPONSE PROPERTIES AND FUNCTIONAL CONNECTIVITY IN MOUSE PRIMARY VISUAL CORTEX
Sinem Erisken, Agne Vaiceliunaite, Florian Franzen, Alexandra Wal, Steffen Katzner, Laura Busse

Thursday

T16-1B HUMAN AND NON-HUMAN PRIMATE HOMOLOGUES OF STEREOMOTION IN CORTEX
Sylvia van Stijn, Ralf Deichman, Wolf Singer, Hwan Sean Lee

T16-2B DISCREPANT REACH GOAL REPRESENTATIONS IN LOCAL FIELD POTENTIALS AND SPIKING ACTIVITY IN PARIETAL REACH REGION
Alexander Gail, Christian Klaes, Stephanie Westendorff

T16-3B EFFECTS OF INTERHEMISPHERIC CONNECTIONS ON THE CONTRAST RESPONSE FUNCTION IN CAT PRIMARY VISUAL CORTEX
Thomas Wunderle, David Eriksson, Christiane Peiker, Kerstin E. Schmidt

T16-4B REVERSALS OF ILLUSORY DEPTH OR ILLUSORY ROTATION IN STRUCTURE-FROM-MOTION: AN MEG STUDY
Alexander Pastukhov, Mandy Bartsch, Solveiga Stonkute, Jens Max Hopf, Jochen Braun

T16-5B STIMULUS REPRESENTATIONS IN BODY-SELECTIVE REGIONS OF THE MACAQUE AND HUMAN CORTEX ASSESSED WITH EVENT-RELATED FMRI
Jan Jastorff, Ivo D. Popivanov, Natalie Caspari, Guy A. Orban, Wim Vanduffel, Rufin Vogels

T16-6B DIFFERENT EXTRAOCULAR MOTONEURONAL SUBGROUPS CONTROL FAST AND SLOW PHASE COMPONENTS OF THE OPTOKINETIC REFLEX IN XENOPUS LAEVIS
Johanna Miriam Schuller, Alexander Georg Knorr, Stefan Glasauer, Hans Straka

T16-7B SOCIAL EXPERIENCE MODULATES ADULT OCULAR DOMINANCE PLASTICITY IN MICE
Konrad Lehmann, Jenny Balog

T16-8B INFLUENCE OF INTERMITTENT THETA-BURST TMS ON RAT VISUAL PERFORMANCE AND NEURONAL ACTIVITY MARKER EXPRESSION WHEN APPLIED DURING THE CRITICAL CORTICAL PERIOD
Diana Veronica Castillo-Padilla, Klaus Funke

T16-9B COMBINING WEARABLE EYE-TRACKING WITH 4π LIGHT-FIELD MEASUREMENTS: TOWARDS CONTROLLING ALL BOTTOM-UP AND TOP-DOWN FACTORS DRIVING OVERT ATTENTION DURING REAL-WORLD TASKS
Josef Stoll, Mandana Sarey Khanie, Sandra Mende, Marius 't Hart, Marilyne Andersen, Wolfgang Einhäuser

Friday

T16-1C POPULATION TUNING AND ATTENTIONAL MODULATION OF HUMAN BOLD RESPONSES TO SPIRAL MOTION PATTERNS
Sepideh Fazeli, Carsten Schmidt-Samoa, Peter Dechent, Stefan Treue

T16-2C VISUAL CORTICAL DEVELOPMENT AND OCULAR DOMINANCE PLASTICITY IN THE ABSENCE OF NKCC1
Katja Krempler, Knut Kirmse, Christian A. Hübner, Otto W. Witte, Knut Holthoff

T16-3C PAIRING-INDUCED PLASTICITY IN THE ORIENTATION PREFERENCE MAP DEPENDS ON THE CONTEXT OF THE LOCAL NEURAL CIRCUITRY IN FERRET VISUAL CORTEX
David Edward Whitney, Santosh Chandrasekaran, Juan Daniel Florez Weidinger, Seong-gi Kim, Fred Wolf, Justin Crowley

T16-4C IS THERE A CRITICAL AREA SIZE FOR THE TRANSITION FROM INTERSPERSED TO COLUMNAR V1 ARCHITECTURE?
Wolfgang Keil, Fred Wolf, Matthias Kaschube, Michael Schnabel, David M. Coppola, Siegrid Loewel, Len E. White

T16-5C SELF-ORGANISATION OF FINITE BANDWIDTH ORIENTATION PREFERENCE MAPS
Conor Dempsey, Wolfgang Keil, Dominik Heide, Fred Wolf

T16-6C EARLY VISUAL PROCESSES INVOLVED IN VERNIER MISPERCEPTION UNDER ORIENTATION MASKING: CONTRIBUTIONS OF CENTER-SURROUND AND SPATIAL FREQUENCIES
Tzvetomir Tzvetanov

T16-7C SYSTEMATIC DEVIATION OF EYE-MOVEMENT DIRECTION FROM STIMULUS-DIRECTION DURING OPTOKINETIC NYSTAGMUS
Andre Kaminiarz, Kathrin Bartelheimer, Frank Bremmer

T16-8C PSD-95 LACKING SYNAPSES IN THE VISUAL CORTEX RETAIN A HIGH DEGREE OF AMPA RECEPTOR SILENCE
Xiaojie Huang, Karl-Friedrich Schmidt, Bianka Goetze, Löwel Siegrid, Oliver Schlüter

T16-9C PSD-95 KO MICE RETAIN A JUVENILE OCULAR DOMINANCE PLASTICITY INTO LATE ADULTHOOD
Bianka Goetze, Karl-Friedrich Schmidt, Xiaojie Huang, Oliver M. Schlüter, Siegrid Löwel

T16-10C IN VIVO IDENTIFICATION OF GABAERGIC AND GLUTAMATERGIC NEURONS AT EARLY DEVELOPMENTAL STAGE IN MOUSE VISUAL CORTEX
Michael Kummer, Knut Kirmse, Otto W. Witte, Knut Holthoff

Saturday

T16-1D SINGLE SPINE SYNAPTIC INPUTS IN MOUSE VISUAL CORTEX IN VIVO
Diana Deca, Nathalie Rochefort, Arthur Konnerth

T16-2D CORTICAL PLASTICITY IN THE FACE OF CONGENITALLY ALTERED INPUT INTO V1
Jane Klemen, Michael B. Hoffmann, Christopher D. Chambers

T16-3D CORTICAL PLASTICITY IN THE HUMAN VISUAL CORTEX - EFFECT OF CHIASMA OPTICUM ABNORMALITIES ON VENTRAL VISUAL AREAS
Falko R. Kaule, Barbara Wolynski, Anil Kumar, Irene Gottlob, Jörg Stadler, Oliver Speck, Martin Kanowski, Synke Meltendorf, Michael B. Hoffmann

T16-4D ULTRA-HIGH SPATIAL RESOLUTION FMRI OF THE HUMAN VISUAL CORTEX AT 7 TESLA MAGNETIC FIELD STRENGTH
Juan Lei, Renat Yakupov, Falko R. Kaule, Frank Godenschweger, Oliver Speck, Michael B. Hoffmann

T16-5D NEURONAL NONLINEARITY EXPLAINS DIFFERENCES IN VISUAL SPATIAL RESOLUTION BETWEEN DARKS AND LIGHTS
Jens Kremkow, Jianzhong Jin, Stanley Jose Komban, Yushi Wang, Reza Lashgari, Michael Jansen, Xiaobing Li, Jose-Manuel Alonso

T16-6D ZEBRAFISH BEL MUTANT AS A MODEL FOR INFANTILE NYSTAGMUS SYNDROME (INS): PHARMACOLOGIC INTERACTIONS WITH THE OCULAR MOTOR SYSTEM
Maresa Afthinos, Ying-Yu Huang, Dominik Straumann

T16-7D TOP-DOWN ATTENTION MODULATES POST-SACCADIC REMAPPING IN MACAQUE MT
Tao Yao, Stefan Treue, Suresh Krishna

T16-8D BRIGHTNESS AND COLOR DISCRIMINATION IN THE MONGOLIAN GERBIL
Kay Thurley, Josephine Henke, Christian Garbers, Christian Leibold, Thomas Wachtler

T16-9D VISUALIZATION OF TRANSCRANIAL MAGNETIC STIMULATION EFFECTS BY VOLTAGE-SENSITIVE DYE IMAGING
Vladislav Kozyrev, Ulf T. Eysel, Dirk Jancke

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

Wednesday

T17-1A OAE-RESIDUALS GENERATED WITH COMPLEX SOUND STIMULI IN THE SHORT-TAILED FRUIT BAT CAROLLIA PERSPICILLATA (PHYLLOSTOMIDAE)
Désirée Schlenther, Manfred Kössl

T17-2A DUCKY MICE WITH A MUTANT $\alpha_2\partial 2$ CA^{2+} CHANNEL SUBUNIT: A NEW MODEL FOR SENSORI-NEURAL HEARING IMPAIRMENT
Barbara Fell, Niels Brandt, Gerald J. Obermair, Julia Dlugaiczyk, Dietmar Hecker, Bernhard Schick, Jutta Engel

T17-3A MECHANICAL TWO-TONE-DISTORTIONS IN THE TYMPANUM MOTION OF LOCUSTS
Doreen Möckel, Manfred Kössl, Manuela Nowotny

T17-4A OPTOACOUSTIC STIMULATION OF SINGLE CELLS
Alexander Rettenmaier, Thomas Lenarz, Günter Reuter

T17-5A HEARING IN DROSOPHILA REQUIRES VISUAL RHODOPSINS
David Piepenbrock, Pingkalai R. Senthilan, Martin C. Göpfert

T17-6A MECHANICAL TUNING OF THE HIGH-FREQUENCY HEARING ORGAN IN BUSHCRICKETS
Jennifer Hummel, Manfred Kössl, Manuela Nowotny

Thursday

T17-1B A VISCOELASTIC MODEL OF ADAPTATION IN MAMMALIAN AUDITORY-NERVE FIBERS
Adam Peterson, Peter Heil

T17-2B DETERMINATION OF DYNAMIC VESICLE POOLS IN INNER HAIR CELL RIBBON SYNAPSES
Carolin Wichmann, Elisabeth Auge, Ellen Reisinger, Tobias Moser

T17-3B TEMPORAL INTEGRATION IN THE AUDITORY PATHWAY OF THE GRASSHOPPER
Sarah Wirtssohn, Bernhard Ronacher

T17-4B AUDITORY PROCESSING IN A BUSH-CRICKET INTERNEURON
Timothy George Bayley, Berthold Hedwig

T17-5B AUDITORY CHARACTERISATION OF CAV2.3-/- MICE USING AUDITORY BRAINSTEM RESPONSES
Marco Weiergräber, Anna Papazoglou, Ralf Müller, Christina Henseler, Karl Broich, Roger Miller, Andreas Lundt

T17-6B DOES STRESS ALTER HEARING THROUGH DIRECT EFFECTS IN THE COCHLEA?
Mirko Jaumann, Wibke Singer, Sze Chim Lee, Kamyar Kasini, Lukas Rüttiger, Marlies Knipper

Friday

T17-1C THREE DIMENSIONAL ACOUSTIC ORIENTATION IN INSECTS
Nanina Tron, Liesa-Kristin Beuter, Reinhard Lakes-Harlan

T17-2C VIBRATION PERCEPTION IN ORTHOPTERA
Reinhard Lakes-Harlan, Philipp Keil, Robert Kügler, Heusler Jan, Strauss Johannes

T17-3C FUNCTIONAL CATEGORIZATION OF ABDUCENS MOTONEURONS AS THE BASIS FOR APPROPRIATE DYNAMIC TUNING OF VESTIBULO-OCULAR RESPONSES IN XENOPUS LAEVIS
Haike Dietrich, Hans Straka

T17-4C ONTOGENETIC PLASTICITY OF LINEAR VESTIBULO-OCULAR REFLEXES IN XENOPUS LAEVIS
Francisco Branoner, Hans Straka

T17-5C MULTIMODAL MAP FORMATION OF TWO SENSORY MODALITIES WITHOUT VISUAL TEACHER: A DYNAMICAL MODEL FOR THE BLIND MEXICAN CAVEFISH ASTYANAX MEXICANUS
Matthias Krippner, Julie Goulet, J. Leo van Hemmen

Saturday

T17-1D SPIKE-RATE RESONANCES IN SMALL NEURONAL NETWORKS: FROM THE CRICKET AUDITORY SYSTEM TO GENERAL MODELS
Florian Rau, Jan Clemens, Viktor Naumov, Wei Wu, R. Matthias Hennig, Susanne Schreiber

T17-2D ANALYSIS OF A MOUSE MODEL WITH A MISSENSE MUTATION IN OTOFERLIN
Ellen Reisinger, Hanan Al-Moyed, Tina Pangrsic, Tobias Moser, Nicola Strenzke

T17-3D MEDULLARY LATERAL LINE UNITS OF THE COMMON RUDD, SCARDINIUS ERYTHROPTHALMUS, ARE SENSITIVE TO OBJECT POSITION
Evelyn Dylda, Adrian Klein, Horst Bleckmann

T17-4D THE INFLUENCE OF CABP2 ON THE BIOPHYSICAL PROPERTIES OF INNER HAIR CELL CAV1.3 CA2+ CHANNELS
Maria Magdalena Picher, Isabelle Schrauwen, Sarah Helfmann, Akira Inagaki, Friederike Predoehl, Mohammad Amin Tabatabaiefar, Manou Sommen, Celia Zazo Seco, Jaap Oostrik, Hannie Kremer, Annelies Dheedene, Charlotte Claes, Erik Fransen, Morteza Hashemzadeh Chaleshtori, Paul Coucke, Amy Lee, Guy Van Camp, Tobias Moser

T17-5D DISCREET LONG-TERM MONITORING OF ELECTRIC FISH BEHAVIOR
Jörg Henninger, Rüdiger Krahe, Jan Benda

T18: Auditory system: subcortical and cortical processing

Wednesday

T18-1A COINCIDENT INPUTS ACHIEVED BY SYSTEMATIC VARIATIONS OF CONDUCTION VELOCITY
Armin Harry Seidl, Edwin W Rubel, Andres Barria

T18-2A MASKING RELEASE DUE TO COHERENT ENVELOPE FLUCTUATIONS ACROSS FREQUENCY AT THE LEVEL OF THE INFERIOR COLLICULUS
Jan-Philipp Diepenbrock, Frank W. Ohl, Jesko L. Verhey

T18-3A THE ROLE OF GABAERGIC AND GLYCINERGIC INHIBITION IN SHAPING SSA IN THE INFERIOR COLLICULUS OF THE ANESTHETIZED RAT
Yaneri A. Ayala, Manuel S. Malmierca

T18-4A DIFFERENTIAL EXPERIENCE-DEPENDENT PLASTICITY IN MOUSE INFERIOR COLLICULUS DEPENDING ON PRIOR EXPOSURE
Hugo Cruces-Solis, Livia de Hoz

T18-5A TINNITUS RELATED PLASTICITY IN AUDITORY CORTEX OF MONGOLIAN GERBILS
Sönke Ahlf, Konstantin Tziridis, Holger Schulze

T18-6A REPRESENTATION OF COMPLEX SOUNDS IN THE MAMMALIAN INFERIOR COLLICULUS
Dominika Lyzwa, Michael Herrmann

T18-7A FAST AND DIFFERENTIAL STEROID MODULATION OF THE AUDIO-MOTOR INTEGRATION IN THE MIDBRAIN OF THE TOAD *BOMBINA ORIENTALIS*
Christof Legler, Wolfgang Walkowiak

T18-8A INFLUENCE OF SYNAPTIC INHIBITION ON OUTPUT RATE AND TIMING IN A SPHERICAL BUSHY CELL MODEL
Thomas Künzel, Jana Nerlich, Ivan Milenkovic, Hermann Wagner

T18-9A DISTRIBUTION OF EXTRACELLULAR MATRIX PROTEO GLYCANS AT THE CALYX OF HELD/PRINCIPAL NEURONS IN THE MEDIAL NUCLEUS OF TRAPEZOID BODY IN MICE
Maren Blosa, Mandy Sonntag, Gudrun Seeger, Rudolf Rübsamen, Thomas Arendt, Markus Morawski

T18-10A ROLES OF GABA-MEDIATED INHIBITION IN THE CORTICAL PROCESSING OF TEMPORALLY-PATTERNED SOUNDS
Julio C. Hechavarria, Manfred Kössl

T18-11A INDEPENDENT RESPONSE ADAPTATION OF EXCITATORY AND INHIBITORY INPUTS ALLOWS RAPID ADJUSTMENT OF OPTIMAL SPATIAL SENSITIVITY IN LATERAL SUPERIOR OLIVARY NEURONS
Helge Gleiss, Michael Pecka, Benedikt Grothe

T18-12A ADAPTATION IN THE AUDITORY MIDBRAIN OF THE BARN OWL INDUCED BY THREE DOUBLE STIMULATION PARADIGMS
Roland Ferger, Martin Singheiser, Philipp Tellers, Mark von Campenhausen, Hermann Wagner

Thursday

T18-1B REGULARITY-DEPENDENT CHANGES IN STIMULUS-SPECIFIC ADAPTATION IN THE AUDITORY CORTEX
Sebastian Florian Betz, Bernhard H. Gaese

T18-2B RAT AUDITORY CORTICAL FUNCTIONING AND DIFFERENT ASPECTS OF PERFORMANCE IN FREQUENCY DISCRIMINATION TASKS
Ann-Kathrin Riegel, Bernhard H. Gaese

T18-3B HYPERPOLARIZATION-ACTIVATED CURRENTS SHAPE TEMPORAL RESPONSE PROPERTIES IN MOUSE SUPERIOR PARAOLIVARY NUCLEUS NEURONS
Katrin Vonderschen, Anna K. Magnusson

T18-4B NEURAL CODING OF TARGET RANGE IN BATS IS INFLUENCED BY REFLECTIONS FROM WATER SURFACES
Alexander Luis Warmbold, Uwe Firzlaff, Lutz Wiegrebe

T18-5B DIRECTIONALITY OF HEARING IN DOMESTIC CHICKEN (GALLUS GALLUS DOMESTICUS)
Hans Andrea Schnyder, Dieter Vanderelst, Sophia Bartenstein, Uwe Firzlaff, Harald Luksch

T18-6B THE HEARING FUNCTION OF THE DELETION OF L-TYPE CAV1.2 IN THE PERIPHERAL AND CENTRAL AUDITORY SYSTEM
Sze Chim Lee, Annalisa Zuccotti, Somisetty V. Satheesh, Thomas Schimmang, Lukas Rüttiger, Hans Gerd Nothwang, Marlies Knipper

T18-7B FREQUENCY-RELATED TOPOGRAPHY OF THE CORTICOFUGAL CONNECTIONS OF FIELD AI IN THE MONGOLIAN GERBIL
Eike Budinger, Michael Brosch, Henning Scheich, Judith Mylius

T18-8B "THAT'S FAR BELOW ME!" - PULSE-ECHO DELAY SENSITIVITY IN THE VERTICAL PLANE MEASURED IN THE AUDITORY CORTEX OF BATS
Susanne Hoffmann, Selina Prosch, Uwe Firzlaff, Lutz Wiegrebe

T18-9B EFFECTS OF TWO DIFFERENT HEARING AIDS ON SOUND PROCESSING IN THE PRIMARY AUDITORY CORTEX OF MONGOLIAN GERBILS
Konstantin Tziridis, Sönke Ahlf, Michael Heiden, Holger Schulze

T18-10B GLYCINERGIC INHIBITION CONTROLS SYNAPTIC INTEGRATION IN THE MEDIAL SUPERIOR OLIVE
Michael Hideki Myoga, Simon Lehnert, Christian Leibold, Felix Felmy, Benedikt Grothe

T18-11B TELEMETRIC STUDY OF NEURONAL ACTIVITY IN A SONG NUCLEUS HVC REVEALS ONE NEURON TYPE THAT IS INVOLVED IN SENSORY-MOTOR CONTROL OF CALLS IN ZEBRA FINCHES
Shouwen Ma, Lisa Trost, Manfred Gahr, Andries ter Maat

Friday

T18-1C LAYER-SPECIFIC PROCESSING OF ULTRASONIC CALLS IN THE AUDITORY CORTICAL FIELDS OF MICE
Günter Ehret, Diana B. Geißler

T18-2C MULTIMODAL SIGNAL INTERGRATION IN THE DROSOPHILA CNS
Philipp Jaehde, Martin Goepfert

T18-3C SIMULTANEOUS BUT NOT SEQUENTIAL BILATERAL LESION OF GERBIL AUDITORY CORTEX DOES EXTINGUISH PRE-LEARNED DISCRIMINATION PERFORMANCE OF FAST AMPLITUDE MODULATED TONES
Manfred Depner, Konstantin Tziridis, Holger Schulze

T18-4C ELECTROPHYSIOLOGICAL EVIDENCE FOR AUDITORY MOTION-DETECTORS IN HUMANS
Ramona Grzeschik, Martin Böckmann-Barthel, Roland Mühler, Jesko L. Verhey, Michael B. Hoffmann

T18-5C ACTIVITY DEPENDENT REGULATION ADJUSTS THE DURATION OF INHIBITION IN AN ECHO SUPPRESSION CIRCUIT
Julian Ammer, Felix Felmy

T18-6C CALCIUM ENTRY SITES OF NEURONS IN THE MEDIAL SUPERIOR OLIVE
Felix Felmy, Sarah Berner, Delwen Franzen, Susanne Blank, Christian Kellner

T18-7C VARIABILITY OF SOUND SOURCE POSITION AND TEMPORAL FEATURE REPRESENTATION IN ACROSS-FREQUENCY INTEGRATING NEURONS OF THE BARN OWL
Philipp Tellers, Kerstin Bülles, Hermann Wagner

T18-8C NMDA-DEPENDENT ENHANCEMENT OF RATE CODING IN THE AUDITORY BRAINSTEM
Ida Siveke, Julian Ammer, Benedikt Grothe, Felix Felmy

T18-9C INVESTIGATING ADAPTATION IN THE BARN OWL WITH A DOUBLE-STIMULUS PARADIGM: A BEHAVIORAL APPROACH
Lutz Kettler, Sandra Brill, Dana Zähringer, Hermann Wagner

T18-10C LEVELS OF GAP-43 MRNA REFLECT MODIFIED STIMULATION-DEPENDENT ACTIVITY IN THE AUDITORY BRAINSTEM OF RATS
Nicole Rosskothen-Kuhl, Robert-Benjamin Illing, Robert-Benjamin Illing, Ralf Birkenhäger

T18-11C INHIBITORY SYNAPSES IN THE DEVELOPING AUDITORY BRAINSTEM TRANSIENTLY RELEASE ZINC WHICH ELICITS POSTSYNAPTIC CALCIUM RESPONSES
Elisabet Garcia-Pino, Maria E. Rubio, Catherine J. Weisz, Kandler Karl

T18-12C AUDITORY INPUT TO TEGMENTAL NEURONS AND ITS MODULATION BY STRIATAL ACTIVITY
Anna C. Schneider, Wolfgang Walkowiak

Saturday

T18-1D GABAB RECEPTOR MEDIATED ADAPTATION IN MEDIAL SUPERIOR OLIVE NEURONS
Annette Stange, Andrea Lingner, Michael H. Myoga, Felix Felmy, Ida Siveke, Michael Pecka, Benedikt Grothe

T18-2D INTERAURAL COHERENCE AS A BASIS FOR A ROBUST AND EFFICIENT SOUND LOCALIZATION MODEL
Tom Goeckel, Hermann Wagner, Gerhard Lakemeyer

T18-3D ROLE OF AUDITORY INTERHEMISPHERIC CONNECTIONS IN LATERALIZED SOUND PROCESSING BY MONGOLIAN GERBILS
Katja Saldeitis, Marcus Jeschke, Max F. K. Happel, Wolfram Wetzel, Henning Scheich, Frank W. Ohl, Eike Budinger

T18-4D THE CLAUSTRUM IN THE MONGOLIAN GERBIL (MERIONES UNGUICULATUS): ARCHITECTURE AND CONNECTIONS WITH PRIMARY SENSORY AND FRONTAL ASSOCIATION CORTICES
Julia Henschke, Eike Budinger, Henning Scheich, Susanne Radtke-Schuller

T18-5D DETERMINATION OF PURE-TONE HEARING THRESHOLDS IN EURASIAN OTTERS (LUTRA LUTRA) USING BRAINSTEM AUDITORY EVOKED POTENTIALS (BAEP)
Mathias Benjamin Voigt, Christian Hackenbroich, Hans-Heinrich Krüger, Arne Liebau, Karl-Heinz Esser

T18-6D HEARING DURING AGING IN THE EMERGING PRIMATE BRAIN AGING MODEL MICROCEBUS MURINUS: A BERA STUDY
Christian Schopf, Elke Zimmermann, Julia Tünsmeyer, Sabine B.R. Kästner, Andrej Kral

T18-7D CHANGE OF THETA-BAND COHERENCE BETWEEN AUDITORY CORTEX AND VENTRAL STRIATUM IN MONGOLIAN GERBIL DURING A TWO-WAY GO/NOGO OPERANT CONDITIONING TASK
Andreas L. Schulz, Marie L. Woldeit, Frank W. Ohl

T18-8D SPATIO-TEMPORAL CODING IN THE BAT AUDITORY MIDBRAIN AND CORTEX: A REPRESENTATION OF ECHO-ACOUSTIC FLOW?
Uwe Firzlaff, Susanne Hoffmann, Alexander Warmbold, Lutz Wiegrebe

T18-9D AMPLITUDE-MODULATION DETECTION OF GERBILS IN REVERBERANT SOUND FIELDS
Lutz Wiegrebe, Andrea Lingner, Kathrin Kugler, Benedikt Grothe

T18-10D PROJECTION PATTERNS OF NEURONS WITHIN THE CHICKEN INFERIOR COLLICULUS INTO FORMATIO RETICULARIS AND OPTIC TECTUM
Bertram Niederleitner, Harald Luksch

T18-11D METABOLIC MATURATION OF AUDITORY NEURONES IN THE SUPERIOR OLIVARY COMPLEX: IMMUNOHISTOCHEMICAL STUDY AND MATHEMATICAL MODELLING
Lars Kunz, Barbara Trattner, Céline Marie Gravot, Benedikt Grothe

T18-12D LACK OF BRAIN-DERIVED NEUROTROPHIC FACTOR IN THE COCHLEA BUT NOT IN THE BRAIN HAMPERS INNER HAIR CELL SYNAPSE PHYSIOLOGY, BUT PROTECTS AGAINST NOISE INDUCED AFFERENT FIBER LOSS
Wibke Singer, Annalisa Zuccotti, Stephanie Kuhn, Stuart L. Johnson, Christoph Franz, Dietmar Hecker, Hyun-Soon Geisler, Iris Köpschall, Karin Rohbock, Katja Gutsche, Julia Dlugaiczyk, Bernhard Schick, Walter Marcotti, Lukas Rüttiger, Thomas Schimmang, Marlies Knipper

T19: Chemical senses: olfaction, taste, others

Wednesday

T19-1A ODOR IDENTITY CODING REVEALS PARALLEL PROCESSING WITHIN THE BEE'S DUAL OLFACTORY PATHWAY
Martin F. Brill, Anneke Meyer, Martin P. Nawrot, Wolfgang Rössler

T19-2A CHARACTERIZATION AND ROLE OF CALCIUM-DEPENDENT POTASSIUM CURRENTS IN LOCAL INTERNEURONS OF THE ANTENNAL LOBE OF PERIPLANETA AMERICANA
Ben Warren, Cathleen Rotte, Sabine Schleicher, Andreas Klein, Viktor Bardos, Sandra Wendler, Merit Klemann, Peter Kloppenburg

T19-3A INFORMATION PROCESSING IN THE DROSOPHILA OLFACTORY SYSTEM: FROM ODORS TO KENYON CELLS
Faramarz Faghihi, Florentin Wörgotter, Christoph Kolodziejski

T19-4A ON THE IMPORTANCE AND INTERACTION OF VISUAL AND OLFACTORY SIGNALS IN HONEYBEE FORAGING BEHAVIOUR
Verena Reinhardt, Christa Neumeyer

T19-5A IN SITU VOLTAGE-CLAMP RECORDINGS FROM OLFACTORY PROJECTION NEURONS IN THE HONEYBEE
Jan Kropf, Wolfgang Rössler

T19-6A TRANSDUCTION OF AMINO ACID ODORANTS IN THE MAIN OLFACTORY EPITHELIUM OF LARVAL XENOPUS LAEVIS
Alfredo Sansone, Thomas Hassenklöver, Evangelia Tantalaki, Ivan Manzini

T19-7A PHOSPHOLIPASE Cß MEDIATES PHEROMONE DEPENDENT SIGNAL TRANSDUCTION IN THE OLFACTORY RECEPTOR NEURONS OF THE HAWKMOTH *MANDUCA SEXTA*
Petra Gawalek, Andreas Nolte, Martin Hindermann, Monika Stengl

T19-8A MITOCHONDRIAL CA2+ MOBILIZATION PLAYS A KEY ROLE IN MOUSE OLFACTORY SIGNALING
Lisa Marie Moeller, Daniela Fluegge, Annika Cichy, Monika Gorin, Agnes Weth, Sophie Veitinger, Silvia Cainarca, Stefan Lohmer, Sabrina Corazza, Eva M. Neuhaus, Werner Baumgartner, Jennifer Spehr, Marc Spehr

T19-9A PROFILE OF ECTOPICALLY EXPRESSED HUMAN OLFACTORY RECEPTORS
Caroline Flegel, Stavros Manteniotis, Sandra Osthold, Guenter Gisselmann, Hanns Hatt

T19-10A THE INSECT OLFACTORY SYSTEM EXPLOITS STIMULUS-ONSET ASYNCHRONY FOR ODOR-BACKGROUND SEGREGATION
Paul Szyszka, Jacob S. Stierle, Stephanie Biergans, C. Giovanni Galizia

T19-11A OCTOPAMINERGIC NEUROMODULATION IN THE COCKROACH ANTENNAL LOBE
Cathleen Rotte, Malaika Fehlert, Peter Kloppenburg

T19-12A THE EXPRESSION PATTERNS OF ODORANT BINDING PROTEINS AND RECEPTORS INDICATE DISTINCT SUBSETS OF OLFACTORY SENSILLA ON THE ANTENNA OF ANOPHELES GAMBIAE
Anna Schultze, Danuta Schymura, Jürgen Krieger

T19-13A CLONING AND EXPRESSION PATTERN OF A GABAB-RECEPTOR SUBUNIT FROM THE ANTENNAE OF MALE HELIOTHIS VIRESCENS
Pablo Pregitzer, Heinz Breer, Jürgen Krieger

T19-14A COMPREHENSIVE RNA-SEQ EXPRESSION ANALYSIS OF SENSORY NEURONS WITH FOCUS ON TRIGEMINAL GANGLIA
Stavros Manteniotis, Ramona Lehmann, Caroline Flegel, Benjamin Schreiner, Janine Altmueller, Nicole Schöbel, Hanns Hatt, Guenter Gisselmann

T19-15A PUTATIVE CHEMOSENSORY CELLS AT THE "LIMITING RIDGE" AND THEIR INTERACTION WITH "EFFECTOR" CELLS
Julia Eberle, Patricia Widmayer, Heinz Breer

T19-16A ELECTROPHYSIOLOGICAL INVESTIGATION OF INTRINSIC MITRAL CELL PROPERTIES IN THE MOUSE ACCESSORY OLFACTORY BULB
Monika Gorin, Marc Spehr

T19-17A BENCHMARKING DROSOPHILA RECEPTOR NEURONS FOR TECHNICAL APPLICATIONS
Thomas Nowotny, Stephen Trowell, Marien de Bruyne

T19-18A FUNCTION OF ADULT-GENERATED DOPAMINERGIC INTERNEURONS IN THE OLFACTORY BULB GLOMERULAR LAYER
Wolfgang Georg Bywalez, Michael Mörschel, Philipp Serr, Jovica Ninkovic, Magdalena Götz, Veronica Egger

T19-19A DOMINANCE OF WEAKER LIGANDS IN A COMPLEX ODOR MIXTURE
Daniel Münch, Benjamin Schmeichel, Ana F. Silbering, C. Giovanni Galizia

T19-20A MODULATION OF PHEROMONE RESPONSES IN ANTENNAL TRICHOID SENSILLA OF THE HAWKMOTH MANDUCA SEXTA BY ORCO AGONISM AND ANTAGONISM
Andreas Nolte, Latha Mukunda, Nico Funk, Petra Gawalek, Sarah Körte, Dieter Wicher, Bill S. Hansson, Monika Stengl

Thursday

T19-1B ROLE OF THE GLOBAL LATERAL INHIBITION IN THE OLFACTORY BULB NETWORK AND DISCRIMINATION TIME IN MICE
Daniel Nunes, Thomas Kuner

T19-2B FUNCTIONAL PROPERTIES OF OLIGOMERIC CONSTRUCTS OF THE DROSOPHILA ODORANT CO-RECEPTOR ORCO
Latha Mukunda , Vardanush Sargsyan, Sofia Lavista-Llanos, Bill S. Hansson, Dieter Wicher

T19-3B MAMMALIAN SPECIFIC OR37 RECEPTORS ARE DIFFERENTIALLY ACTIVATED BY DISTINCT ODOROUS FATTY ALDEHYDES
Verena Bautze, Wolfgang Schwack, Heinz Breer, Jörg Strotmann

T19-4B CIRCADIAN OSCILLATIONS OF CYCLIC NUCLEOTIDE CONCENTRATIONS IN INSECT ANTENNAE
Thomas Schendzielorz, Katja Schirmer, Julia Schulze, Monika Stengl

T19-5B CHARACTERIZATION AND ROLE OF CA2+ - DEPENDENT OUTWARD POTASSIUM CURRENTS IN UNIGLOMERULAR PROJECTION NEURONS OF THE ANTENNAL LOBE OF PERIPLANETA AMERICANA
Sabine Schleicher, Cathleen Rotte, Ben Warren, Andreas Klein, Viktor Bardos, Peter Kloppenburg

T19-6B SUGAR-ELICITED SEARCH BEHAVIOR: THE BLOWFLY'S DANCE IN HONEY BEES
Axel Brockmann, Andrew Magis, Jake Herman, Jonathan Massy, Gene E. Robinson

T19-7B CITRAL SELECTIVELY INHIBITS HUMAN K2P3.1 CHANNELS
Leopoldo Raul Beltran

T19-8B NEUROCHEMICAL PROFILES OF IDENTIFIED LOCAL INTERNEURONS IN THE ANTENNAL LOBE OF PERIPLANETA AMERICANA
Debora Fusca, Andreas Husch, Joachim Schachtner, Arnd Baumann, Peter Kloppenburg

T19-9B FUNCTIONAL CHARACTERIZATION OF HUMAN TRACE AMINE-ASSOCIATED RECEPTORS (TAARS) IN RECOMBINANT SYSTEMS
Ivonne Wallrabenstein, Jonas Kuklan, Lea Weber, Sandra Zborala, Markus Werner, Janine Altmüller, Christian Becker, Anna Schmidt, Hanns Hatt, Thomas Hummel, Günter Gisselmann

T19-10B ROLE OF G_{olf} SUBGROUP OF G PROTEINS IN OLFACTORY SIGNALING OF DROSOPHILA MELANOGASTER
Jennifer Sinthiya Ignatious Raja, C. Giovanni Galizia, Vladimir L. Katanaev

T19-11B DEEP SEQUENCING OF THE MURINE OLFACTORY TRANSCRIPTOME
Ninthujah Kanageswaran, Marilen Demond, Benjamin Schreiner, Janine Altmüller, Hanns Hatt, Günter Gisselmann

T19-12B LONG-TERM EFFECTS OF NORADRENALINE ON OLFACTORY SENSORY NEURON INPUT TO THE MAIN OLFACTORY BULB
Dennis Eckmeier, Stephen D. Shea

T19-13B ELECTROPHYSIOLOGICAL CHARACTERIZATION OF PROTON-MEDIATED ACTIVITY IN THE MOUSE VOMERONASAL ORGAN
Annika Cichy, Jennifer Spehr, Marc Spehr

T19-14B CAN AEDES AEGYPTI FEMALES AVOID OVIPOSITION ON M-CRESOL (100 PPM) IN THE PRESENCE OF THE DETERRENT ISOMER P-CRESOL?
Ali Afify, Giovanni Galizia

T19-15B ALTERED EXPRESSION OF GUSTATORY SIGNALING ELEMENTS IN THE STOMACH OF MORBIDLY OBESE PATIENTS AND OBESE MICE
Patricia Widmayer, Markus Küpper, Michael Kramer, Alfred Königsrainer, Heinz Breer

T19-16B PHENOTYPIC PLASTICITY OF SYNAPTIC-BOUTON NUMBERS IN THE MUSHROOM BODIES OF THE HIGHLY POLYMORPHIC LEAF-CUTTING ANT ATTA VOLLENWEIDERI
Claudia Groh, Christina Kelber, Kornelia Grübel, Wolfgang Rössler

T19-17B DEORPHANIZING CRYPT NEURONS, THE THIRD TYPE OF OLFACTORY RECEPTOR NEURONS
Gaurav Ahuja, Yuichiro Oka, Sigrun Korsching

T19-18B IDENTIFICATION OF A NEW MURINE OLFACTORY SUBSYSTEM
Sonja Oberland, Stefanie Gaab, Niels de Wit, Thomas Pelz, Eva M. Neuhaus

T19-19B COMPARATIVE TRANSCRIPTOMICS OF ARTHROPOD ANTENNAE
Katrin Christine Groh, Ewald Grosse-Wilde, Heiko Vogel, Marcus C. Stensmyr, Bill S. Hansson

T19-20B VINEGAR FLY BEHAVIOR TOWARDS ODOR MIXTURES – AN ADDITIVE APPROACH
Michael Thoma, Markus Knaden, Bill S. Hansson

T19-21B RECEPTORS FOR PROTEIN BREAKDOWN PRODUCTS IN GASTRIC ENDOCRINE CELLS AND IN GUSTATORY SENSORY CELLS
Désirée Haid, Patricia Widmayer, Heinz Breer

Friday

T19-1C SEROTONIN ASSOCIATION WITH FEEDING REGULATION IN ANTS
Agustina Falibene, Roxana Josens, Wolfgang Rössler

T19-2C MOLECULAR BASIS OF SEX PHEROMONE DETECTION IN HELIOTHIS VIRESCENS
Jürgen Krieger, Pablo Pregitzer, Heinz Breer

T19-3C SPATIAL REPRESENTATION OF THE OLFACTORY OUTPUT IN DROSOPHILA
Amelie E. E. Baschwitz, Antonia Strutz, Bill S. Hansson, Silke Sachse

T19-4C IDENTIFICATION OF PDZ-PROTEIN BASED MICRODOMAINS IN VOMERONASAL SENSORY NEURONS
Bastian Henkel, Tobias Ackels, Marc Spehr, Eva M. Neuhaus

T19-5C CHEMO- AND THERMOSENSORY SIGNALING IN THE GRUENEBERG GANGLION
Joerg Fleischer, Katharina Mamasuew, Sabrina Stebe, Heinz Breer

T19-6C TACHYKININ-RELATED AND MYOINHIBITORY PEPTIDES CO-EXPRESS IN THE BRAIN OF TRIBOLIUM CASTANEUM
Milosz Krala, Carsten M. Heuer, Joachim Schachtner

T19-7C THE DROSOPHILA MELANOGASTER OLFACTORY CO-RECEPTOR ORCO MEDIATES ODORANT SENSITIVITY IN ADULT FLIES
Thomas Tam Giang, Andrea Schneider, Henrike Scholz

T19-8C FUNCTIONAL CHARACTERIZATION OF ALTERNATIVE SIGNAL TRANSDUCTION PATHWAYS IN OLFACTORY RECEPTOR NEURONS
Paul Scholz, Sabrina Baumgart, Katharina Klasen, Benjamin Kalbe, Hanns Hatt

T19-9C SCAFFOLDING PROTEINS IN OLFACTION
Fabian Jansen, Sabrina Baumgart, Benjamin Kalbe, Mark Spehr, Christian Herrmann, Willem Bintig, Hanns Hatt, Eva Neuhaus

T19-10C DELTA-GAMMA PHASE-AMPLITUDE COUPLING IN THE MOUSE WHISKER BARREL CORTEX IS DRIVEN BY THE OLFACTORY BULB
Junji Ito, Snigdha Roy, Ying Cao, Max Fletcher, Sonja Grün, Detlef Heck

T19-11C UNTYPICAL CONNECTIVITY FROM OLFACTORY SENSORY NEURONS EXPRESSING OR37 INTO HIGHER BRAIN CENTERS VISUALIZED BY GENETIC TRACING
Jörg Strotmann, Andrea Bader, Heinz Breer

T19-12C CHARACTERIZATION OF THE IONTRANSPORTER NKCC1 IN THE FIELD OF CHEMOSENSATION
Claudia Haering, Janine Wäring, Hanns Hatt

T19-13C VARIATION IN THE HUMAN OLFACTORY SUBGENOME AND ITS IMPACT ON OLFACTORY PERCEPTION
Jonas Kuklan, Günter Gisselmann, Thomas Hummel, Hanns Hatt

T19-14C INVOLVEMENT OF SEVERAL TRP CHANNELS IN TRIGEMINAL ODOR SENSATION
Jessica Kyereme, Matthias Lübbert, Nicole Schoebel, Hanns Hatt

T19-15C TASTE RECEPTORS IN MAMMALIAN SPERMATOZOA: FUNCTIONAL ROLE OF TAS1R1 IN REGULATING BASAL CALCIUM AND CAMP CONCENTRATIONS IN SPERMATOZOA
Andrea Wartenberg, Dorke Meyer, Anja Voigt, Patricia Widmayer, Heike Borth, Andreas Breit, Ulrich Boehm, Thomas Gudermann, Wolfgang Meyerhof, Ingrid Boekhoff

T19-16C DEORPHANIZATION OF MEMBERS OF THE SEGREGATING PSEUDOGENES OF OLFACTORY RECEPTORS
Kaveh Ashti Baghaei, Günter Gisselmann, Hanns Hatt

T19-17C PROBING A POTENTIAL HETEROMULTIMERIZATION OF RECOMBINANT ANOCTAMIN PROTEINS
Tobias Ackels, Bastian Henkel, Eva Neuhaus, Marc Spehr

T19-18C AN IN VIVO ATLAS OF THE DROSOPHILA ANTENNAL LOBE BASED ON RECEPTOR NEURON TARGETING
Veit Grabe, Antonia Strutz, Bill S. Hansson, Silke Sachse

T19-19C A MODEL FOR SPARSE AND RELIABLE ENCODING OF OLFACTORY CUES IN THE HONEYBEE
Rinaldo Betkiewicz, Michael Schmuker, Farzad Farkhooi, Martin Paul Nawrot

T19-20C GENE EXPRESSION PROFILING AND THE OLFACTORY SENSE OF MANDUCA SEXTA
Christopher Koenig, Sascha Bucks, Monika Stengl, Heiko Vogel, Ewald Grosse-Wilde, Bill S. Hansson

T19-21C EFFECTS OF ADIPONECTIN ON THE OLFACTORY SYSTEM
Diana Loch, Heinz Breer, Jörg Strotmann

Saturday

T19-1D FMRFAMIDE-IMMUNOSTAINING REVEALS SIFAMIDE IN THE ANTENNAL LOBE OF THE HONEYBEE
Sabine Kreissl, Anne Schapals, Giovanni C. Galizia

T19-2D POST-STIMULUS ACTIVITY IN THE OLFACTORY PATHWAY OF DROSOPHILA
Alja Lüdke, Kristina Dylla, C. Giovanni Galizia, Paul Szyszka

T19-3D THE NEGLECTED SENSE - OLFACTORY COMMUNICATION IN A SONGBIRD, THE ZEBRA FINCH (TAENIOPYGIA GUTTATA)
E. Tobias Krause, Barbara A. Caspers

T19-4D SPLITGFP - MEDIATED LOCALIZATION OF CONNECTIVITIES BETWEEN INTRINSIC AND EXTRINSIC MUSHROOM BODY NEURONS IN DROSOPHILA
Ulrike Pech, Atefeh Pooryasin, Serge Birman, André Fiala

T19-5D COMPARATIVE NEUROANATOMICAL STUDY OF THE ANTENNAL LOBES OF HORNETS
Antoine Couto, Karine Monceau, Olivier Bonnard, Denis Thiéry, Jean-Christophe Sandoz

T19-6D PHEROMONAL SEX COMMUNICATION IN HONEYBEE DRONES: FROM ODOR PROCESSING TO ORIENTATION BEHAVIOR
Andreas S. Brandstaetter, Florian Bastin, Jean-Christophe Sandoz

T19-7D ACTIVITY DEPENDENT PLASTICITY IN THE OLFACTORY SYSTEM OF ADULT TRIBOLIUM CASTANEUM
Peter Christ, Martin Kollmann, Joachim Schachtner

T19-8D INHIBITORY PROJECTION NEURONS BIAS ODOR ATTRACTION BEHAVIOR IN THE LATERAL HORN AREA OF DROSOPHILA MELANOGASTER
Antonia Strutz, Jan Soelter, Amelie Baschwitz, Veit Grabe, Farhan Abu , Jürgen Rybak, Markus Knaden, Michael Schmuker, Bill S. Hansson, Silke Sachse

T19-9D THE OLFACTORY PATHWAY OF THE RED FLOUR BEETLE TRIBOLIUM CASTANEUM
Martin Kollmann, Stefan Dippel, Sergius Frank, Stephanie Crombach, Stefan Schütz, Ernst A. Wimmer, Joachim Schachtner

T19-10D KEY PLAYERS – FUNCTIONAL ANALYSIS OF MANDUCA SEXTA OLFACTORY RECEPTORS
Christian Klinner, Christopher König, Shannon Olsson, Marcus C. Stensmyr, Bill S. Hansson, Ewald Grosse-Wilde

T19-11D OLFACTION IN THE JUMPING BRISTLETAIL LEPISMACHILIS Y-SIGNATA(ARCHAEOGNATHA, MACHILIDAE)
Christine Mißbach, Hany Dweck, Steffen Harzsch, Marcus C. Stensmyr, Markus Knaden, Bill S. Hansson, Ewald Grosse-Wilde

T19-12D THE NEUROPEPTIDOME OF TRIBOLIUM CASTANEUM ANTENNAL LOBES AND MUSHROOM BODIES
Marlene Binzer, Carsten M. Heuer, Jörg Kahnt, Joachim Schachtner

T19-13D CODING OF FLORAL AND PHEROMONAL ODORS BY TWO OLFACTORY SUBSYSTEMS IN THE HONEY-BEE BRAIN
Jean-Christophe Sandoz, Julie Carcaud, Martin Giurfa

T19-14D SYNAPTIC CIRCUITRY OF IDENTIFIED NEURONS IN THE ANTENNAL LOBE OF DROSOPHILA MELANO-GASTER
Jürgen Rybak, Giovanni Talarico, Santiago Ruiz, Christopher Arnold, David Neubert, Rafael Cantera, Bill Hansson

T19-15D BIMODAL PROCESSING OF OLFACTORY INFORMATION IN AN AMPHIBIAN NOSE: ODOR RESPONSES SEGREGATE INTO A MEDIAL AND A LATERAL STREAM
Sebastian Gliem, Adnan S. Syed, Alfredo Sansone, Eugen Kludt, Evangelia Tantalaki, Sigrun I. Korsching, Ivan Manzini

T19-16D RAPID MATURATION OF ODOR-EVOKED SIGNALING IN ADULT-BORN JUXTAGLOMERULAR NEURONS OF THE MOUSE OLFACTORY BULB
Yury Kovalchuk, Ryota Homma, Yajie Liang, Anatoliy Maslyukov, Marina Hermes, Yovica Ninkovic, Magdalena Götz, Lawrence Cohen, Olga Garaschuk

T19-17D OLFACTORY RELATED GENE EXPRESSION IN THE ANTENNA OF LEAF-CUTTING ANTS (ATTA VOLLEN-WEIDERI)
Sarah Koch, Bill S. Hansson, Christoph J. Kleineidam, Ewald Grosse-Wilde

T19-18D SHORT-TIME EXPOSURE TO VARIOUS ODOR STIMULI OR ODOR DEPRIVATION AFFECTS THE DISTRIBUTION OF FOS POSITIVE CELLS IN THE OLFACTORY SYSTEM NEUROGENIC AREA OF THE RAT
Kamila Fabianova, Juraj Blasko, Marcela Martoncikova, Eniko Racekova

T19-19D POST-STIMULUS FIRING AND THE CORRESPONDING OLFACTORY SEARCH STRATEGY
Nicole Voges, Antoine Chaffiol, Philippe Lucas, Dominique Martinez

T20: Somatosensation: touch, temperature, proprioception, nociception

Wednesday

T20-1A INFRARED VISION IN SNAKES – HOW NEURONS IN THE RATTLESNAKE'S TECTUM OPTICUM RESPOND TO A MOVING WARM OBJECT
Felix Kaldenbach, Tobias Kohl, Horst Bleckmann

T20-2A ENHANCED RESPONSES TO ODDBALL STIMULI IN THE RAT BARREL CORTEX – AN ANIMAL MODEL FOR HUMAN MISMATCH NEGATIVITY?
Steffen Klein, Manuel Lemos M. Rodrigues, Klaus Funke

T20-3A NEURONAL CORRELATES OF WHISKER STIMULATION IN WILDTYPE MICE AND THE NRG1 MOUSE MODEL OF SCHIZOPHRENIA
Claudia Schreiner, Thomas Bessaih, Ted Abel, Dirk Feldmeyer, Diego Contreras

Thursday

T20-1B THE TRANSCRIPTION FACTOR C-MAF CONTROLS TOUCH RECEPTOR DEVELOPMENT AND FUNCTION
Hagen Wende, Stefan G. Lechner, Cyril Cheret, Steeve Bourane, Maria E. Sheean, Alexandre Pattyn, Katja Reuter, Francis L. Munier, Patrick Carroll, Gary R. Lewin, Carmen Birchmeier

T20-2B ACTIVITY LOCALISATION OF SOUND TRANSDUCING TRP CHANNELS VIA IN VIVO CA2+ - IMAGING
Robert Jago Wiek, Martin Göpfert

T20-3B COLD- AND WARM-RECEPTOR NEURONS OF THE SENSILLUM COELOCAPITULUM OF THE ANT CAMPONOTUS RUFIPES
Manuel Nagel, Christoph J. Kleineidam

Friday

T20-1C AN ELABORATE SUBGENUAL ORGAN COMPLEX IN STICK INSECTS
Johannes Strauß

T20-2C ENCODING OF TOUCH LOCATION AND INTENSITY BY NEURONS OF THE MEDICINAL LEECH HIRUDO MEDICINALIS
Gerrit Hilgen, Friederice Pirschel, Jutta Kretzberg

T20-3C LDCV RELEASE FROM DRG NEURONS AND ITS MODULATION BY NPY
Anneka Bost, Barbara Niemeyer, Jens Rettig, Ute Becherer

Saturday

T20-1D THREAT, PAIN, AND BRAIN - THE EFFECTS OF FEAR AND ANXIETY ON THE PERCEPTION OF PAIN
Matthias J. Wieser, Philipp Reicherts, Antje BM Gerdes, Andreas Mühlberger, Paul Pauli

T20-2D EFFECTS OF ASSOCIATIVE AND NON-ASSOCIATIVE TACTILE LEARNING ON ANTENNAL MOVEMENT IN HONEYBEES (APIS MELLIFERA L.)
Simon Würth, Samir Mujagic, Volker Dürr

T20-3D THE DEVELOPMENT OF CROSS-MODAL PROCESSING IN THE RAT PRIMARY SOMATOSENSORY CORTEX
Kay Sieben, Brigitte Röder, Ileana L. Hanganu-Opatz

T21: Motor systems

Wednesday

T21-1A CHARACTERIZATION OF A BEHAVIORAL SAMUEL MUTANT GENERATED BY P ELEMENT-MEDIATED GENE TRAPPING IN DROSOPHILA MELANOGASTER
Roswitha Jungnickel, Roland Strauss, Bert R. E. Klagges, Heinz Sass

T21-2A DETERMINING MODE OF ACTION OF PYMETROZINE – FROM SINGLE CELL TO SYSTEM LEVEL
Judith Förster, Ulrich Ebbingshaus-Kintscher, Ansgar Büschges

T21-3A DECODING OF REACH AND GRASP KINEMATICS FROM PRIMATE PREMOTOR, MOTOR, AND PARIETAL CORTEX
Veera Katharina Menz, Stefan Schaffelhofer, Hansjörg Scherberger

T21-4A INSECT LEG TARGETING: AIMING ACCURACY DEPENDS ON ACTIVITY OF TARGET LEG
Anne Wosnitza, Jennifer Engelen, Matthias Gruhn

T21-5A INTERSEGMENTAL COORDINATION IN THE SWIMMERET SYSTEM: NEURONAL PROPERTIES OF THE DESCENDING COORDINATING NEURON
Swantje Grätsch, Carmen Smarandache-Wellmann

T21-6A LFP SIGNALS IN MACAQUE PARIETAL HAND AREA AIP REPRESENT SPATIAL INFORMATION
Sebastian J. Lehmann, Hansjörg Scherberger

T21-7A INFLUENCE OF TEMPERATURE ON THE RHYTHMIC ACTIVITY OF THE SWIMMERET SYSTEM IN CRAYFISH (PACIFASTACUS LENIUSCULUS)
Felix Blumenthal, Carmen Smarandache-Wellmann

T21-8A CALCIUM IMAGING OF RETROGRADELY LABELED RETRACTOR COXAE NEURONS IN THE STICK INSECT CARAUSIUS MOROSUS
Jens Goldammer, Cathleen Rotte, Joachim Schmidt, Peter Kloppenburg, Ansgar Büschges

T21-9A GABAERGIC INNERVATION OF THE CILIARY GANGLION IN PIGMENTED AND ALBINO RATS
Miriam Barnerssoi, Anja K.E. Horn

Thursday

T21-1B CHARACTERIZATION OF MUSCLE FIBER TYPES IN AN INSECT LEG
Elzbieta Godlewska, Ansgar Büschges, Matthias Gruhn

T21-2B BODY-SIDE SPECIFICITY OF DESCENDING CONTROL OF LEG MOTOR ACTIVITY DURING TURNING IN AN INSECT
Matthias Gruhn, Philipp Rosenbaum, Anke Borgmann, Ansgar Bueschges

T21-3B CONTROL OF MOTOR ACTIVITY IN A WALKING STICK INSECT (CARAUSIUS MOROSUS) LEG WITH AND UPON LOSS OF GROUND CONTACT
Joscha Schmitz, Volker Berendes, Michael Dübbert, Matthias Gruhn, Ansgar Büschges

T21-4B CALCIUM FRET-IMAGING INDICATES BILATERAL POWER BALANCING IN TRANSGENE DROSOPHILA FLIGHT MUSCLE
Fritz-Olaf Lehmann, Dimitri Skandalis

T21-5B CONTROL OF HANDLING FOOD BY THE "HANDS" IN INSECT FEEDING
Reinhold Hustert, Anh-Vu Nguyen

T21-6B SINGLE TRIAL NEURONAL CORRELATES OF DECISION-MAKING FOR HAND GRASPING IN MACAQUE AREA F5 AND AIP
Benjamin Wellner, Jonathan A Michaels, Wiebke Alexandra Wellner, Hans Scherberger

T21-7B EMBODIED JOINT MOVEMENT CONTROL: INTERACION OF NEURAL NETWORKS AND PASSIVE MUSCLE PROPERTIES IN THE STICK INSECT
Arndt von Twickel, Christoph Guschlbauer, Charalampos Mantziaris, Anna Schwarz, Ansgar Büschges

T21-8B ALLOCENTRIC PLANNING OF IMMEDIATE REACH MOVEMENT IS PRONE TO INDUCED ROELOFS ILLUSION
Bahareh Taghizadeh, Alexander Gail

T21-9B INTERDEPENDENCE OF MOVEMENT PLANNING AND CHOICE BEHAVIOR FOR DECISIONS AMONG MULTIPLE REACH GOALS
Lalitta Suriya-Arunroj, Alexander Gail

T21-10B ACTIVITY OF DUM NEURONS IN THE SUBESOPHAGEAL GANGLION DURING LOCOMOTOR BEHAVIOR IN THE STICK INSECT
Thomas Stolz, Martin Heß, Joachim Schmidt

Friday

T21-1C CALRETININ INPUTS ARE CONFINED TO MOTONEURONS FOR UPWARD EYE MOVEMENTS IN PRIMATES
Christina Zeeh, Bernhard J. Hess, Emmanuel Chen Ngwa, Julia M. Feige, Anja K.E. Horn

T21-2C NEURAL CONTROL OF FORWARD AND BACKWARD WALKING IN INSECTS
Philipp Rosenbaum, Ansgar Bueschges

T21-3C WHOLE-CELL RECORDINGS FROM MOUSE FORELIMB MOTOR CORTEX NEURONS DURING TARGETED REACHING
Birgit Christina Voigt, Luc Estebanez, James F.A. Poulet

T21-4C MODULATION IN THE PROCESSING OF MOVEMENT SIGNALS FROM THE LEG DURING CURVE WALKING OF AN INSECT
Katja Hellekes, Ansgar Büschges

T21-5C IMMUNOCYTOCHEMICAL STUDIES ON THE NERVOUS SYSTEM OF ONYCHOPHORA (VELVET WORMS): INSIGHTS INTO THE EVOLUTION OF ARTHROPOD BODY SEGMENTATION
Georg Mayer, Hans-Joachim Pflüger, Paul Anthony Stevenson

T21-6C NETWORK DEPENDENT ACTIVATION OF A HYPER-POLARIZING CONDUCTANCE IN MOTONEURONS ENHANCES NEURONAL SYNCHRONY
Boris P. Chagnaud, Andrew H. Bass

T21-7C SPINAL COROLLARY DISCHARGE IN MECHANO-RECEPTOR-RELATED NERVES MEDIATES INFORMATION ABOUT LOCOMOTOR ACTIVITY
Roberto Banchi, Boris P. Chagnaud, Hans Straka

T21-8C ENCODING OF INTENDED REACH MOVEMENT DIRECTION IN LOCAL FIELD POTENTIAL PHASE IN MONKEY FRONTO-PARIETAL REACH AREA PRR
Pablo Martinez-Vazquez, Alex Gail

T21-9C EXTRINSIC AND INTRINSIC FACTORS INFLUENCING SPONTANEOUS AND REINFORCEMENT-INDUCED PITCH CHANGES IN ZEBRA FINCH SONG
Anna Ewa Stepien, Alessandro Canopoli, Alexei Vyssotski, Valance Yanxin Wang, Gagan Narula, Richard Hahnloser

T21-10C CHARACTERIZATION OF OCTOPAMINERGIC UNPAIRED MEDIAN NEURONS IN THE SUBOESOPHAGEAL GANGLION OF MANDUCA SEXTA
Jessika Erdmann , Hans-Joachim Pflüger

Saturday

T21-1D SYNERGY OF MOTOR CONTROL PATHWAYS FOR AERIAL STEERING IN DROSOPHILA
Ruben Andres Berthé, Peter Schützner, Fritz-Olaf Lehmann

T21-2D THE DEVELOPMENT OF TYRAMINERGIC/OCTOPAMINERGIC NEURONS OF DROSOPHILA MUSCLES INTEGRATED IN AN ATLAS
Konstantin Lehmann, Christina Zube, Stephan Sigrist, Carsten Duch, Hans-Joachim Pflüger

T21-3D SPATIO-TEMPORAL ORGANIZATION OF LOCAL FIELD POTENTIAL OSCILLATIONS IN THE MONKEY MOTOR CORTEX
Lyuba Zehl, Thomas Broschier, Alexa Riehle, Sonja Grün, Michael Denker

T21-4D PEPTIDERGIC MODULATION OF LARVAL DROSOPHILA LOCOMOTOR ACTIVITY
Dennis Pauls, Kristina Jessen, Christian Wegener

T21-5D NO EVIDENCE FOR DISTINCT GAITS IN DROSOPHILA
Till Bockemühl, Anne Wosnitza, Michael Dübbert, Henrike Scholz, Ansgar Büschges

T21-6D CORRECTION MOVEMENTS AND SPATIAL COORDINATION IN MULTIPEDAL LOCOMOTION
Leslie M. Theunissen, Subhashree Vikram, Volker Dürr

T21-7D THE IMPORTANCE OF CHARGED RESIDUES IN THE INTRACELLULAR TM3-4 LOOP OF THE INHIBITORY GLYCINE RECEPTOR
Georg Langlhofer, Bea Unterer, Carmen Villmann

T21-8D IDENTIFICATION OF INDIVIDUAL NEURONS IN EMG AND HOOK ELECTRODE RECORDINGS USING SPIKE SORTING TECHNIQUES
Sophie Ann Bradley, Luis A. Camunas Mesa, Ria Cooke, Rodrigo Quian Quiroga, Tom Matheson

T21-9D MONITORING OF REFLEX ACTIVITY AND MOTOR FUNCTION IN SPASTIC RATS, NNOS, PV IMMUNOREACTIVITY AND ASTROCYTE´S EXPRESSION IN SPINAL CORD AFTER REPEATED BACLOFEN TREATMENT
Andrea Kucharíková, Ludmila Hricová, Alexandra Kisucká, Andrea Schreiberová, Štefánia Gedrová, Nadežda Lukácová

T22: Homeostatic and neuroendocrine systems, stress response

Wednesday

T22-1A ROLE OF CB1 RECEPTOR AND ENDOCANNABINOIDS ON CORTICO-STRIATAL CONNECTIVITY OF PSYCHOSOCIALLY STRESSED MICE
Jordi Tomas Roig

T22-2A HEXOKINASE II-MEDIATED HYPOXIA TOLERANCE – A MOLECULAR SWITCH GOVERNING CELLULAR FATE DEPENDING ON THE METABOLIC STATE
Philipp Mergenthaler, David Andrews, Ulrich Dirnagl, Andreas Meisel

T22-3A EARLY-LIFE STRESS INDUCED MODULATION OF EXCITATORY SYNAPSES IN THE LIMBIC BRAIN
Anup Gopalakrishna Pillai, M.J. Arp, M.V. Schmidt, F. Holsboer, H. Krugers, M. Joels

Thursday

T22-1B THE NEUROPEPTIDE SIFAMIDE ENHANCES APPETITIVE BEHAVIOR IN DROSOPHILA MELANOGASTER
Simon Kobbenbring, Thomas Riemensperger, Mirjam-Vanessa Sommer, André Fiala

T22-2B IMPACT OF HEME AND HEME DEGRADATION PRODUCTS (HHDPS) ON CEREBRAL VASCULAR REACTIBILITY
Alexander Joerk, Anne Wiegand, Otto W. Witte, Knut Holthoff

Friday

T22-1C CORTICAL NNOS NEURONS AS AN ANATOMICAL LINK TO HOMEOSTATIC SLEEP REGULATION
Lars Dittrich, Alan J. Wilk, Michael Miller, Deepti P. Warrier, Stephen R. Morairty, Thomas S. Kilduff

T22-2C FTO CONTROLS ACTIVITY OF THE DOPAMINERGIC CIRCUITRY
Simon Hess, Martin E Hess, Linda Koch, Linda A.W. Verhagen, Hella S. Brönneke, Marcelo O. Dietrich, Sabine D. Jordan, Bengt F. Belgardt, Tamas L. Horvath, Ulrich Rüther, Jens C. Brüning, Peter Kloppenburg

T22-3C A GLUCOSE RESPONSIVE SUBPOPULATION OF THE LOCUS COERULEUS CONTRIBUTES TO BAT SYMPATHETIC TRAFFIC AND ENERGY HOMEOSTASIS
Lars Paeger, Sulay Tovar, Simon Hess, Donald A. Morgan, Christine Könner, Hella S. Brönneke, Brigitte Hampel, P. Justus Ackermann, Nadine Evers, Hildegard Büning, F. Thomas Wunderlich, Kamal Rhamouni, Jens C. Brüning, Peter Kloppenburg

Saturday

T22-1D DOWNREGULATION OF THE COPPER TRANSPORTER DATP7 IN PEPTIDERGIC NEURONS AND ENDOCRINE CELLS RESULTS IN IMPAIRED PEPTIDE AMIDATION
Christian Wegener, Azza Sellami, Jan A Veenstra

T22-2D REMOTE LONG-TERM REGISTRATIONS OF SLEEP-WAKE RHYTHMS AND ACTIVITY IN COMMON MARMOSET MONKEYS – HOMEOSTATIC RESPONSE TO SLEEP DEPRIVATION
Kerstin Hoffmann, Alex Coolen, Christina Schlumbohm, Eberhard Fuchs

T22-3D ULTRASONIC VOCALIZATIONS EMITTED DURING SOCIAL DEFEAT AND UPON REEXPOSURE TO THE SOCIAL DEFEAT ENVIRONMENT
Eberhard Fuchs, Nicole Yee, Rainer K.W. Schwarting, Markus Wöhr

T23: Neural networks and rhythm generators

Wednesday

T23-1A OPTOGENETIC DISSECTION OF ADAPTIVE INHIBITORY CIRCUIT MOTIFS IN ADULT NEOCORTEX
Dennis Kätzel, Gero Miesenböck

T23-2A OSCILLATORY ENTRAINMENT OF NEONATAL PREFRONTAL-HIPPOCAMPAL NETWORKS AFTER SELECTIVE LESION OF GABAERGIC NEURONS IN THE HIPPOCAMPUS
Sebastian H. Bitzenhofer, Ileana L. Hanganu-Opatz

T23-3A MATURATION OF OSCILLATORY ENTRAINMENT WITHIN PREFRONTAL-HIPPOCAMPAL NETWORKS IN A GENETIC MOUSE MODEL OF SCHIZOPHRENIA
Stephanie Riemann, Henrike Hartung, Ileana L. Hanganu-Opatz

T23-4A THE DECISION TO RESPOND: THE ROLE OF ELECTRICALLY COUPLED BRAINSTEM NEURONS IN THE DECISION TO SWIM
Edgar Buhl, Michael Hull, Alan Roberts, Stephen R. Soffe

T23-5A SCRATCH GENERATION BEYOND THE LUMBAR ENLARGEMENT
Robertas Guzulaitis, Aidas Alaburda, Jorn Hounsgaard

T23-6A ANATOMICAL AND IN VIVO OPTICAL IMAGING ANALYSIS OF METATHORACIC DUM NEURONS IN THE LOCUST SCHISTOCERCA GREGARIA
Marco Schubert, Florian Bilz, Victoria Antemann, Hans-Joachim Pflüger

T23-7A THE ROLE OF ELECTRICAL SYNAPSES IN A RAT MODEL OF ABSENCE EPILEPSY: CA2+ MODULATES THE INTERACTION BETWEEN NEURONS OF THE THALAMIC RETICULAR NUCLEUS
Denise Kohmann, Kay Jüngling, Hans-Christian Pape, Philippe Coulon

T23-8A CELLULAR MECHANISMS OF DYNAMICAL SWITCHING BETWEEN DIFFERENT NETWORK STATES IN THE HIPPOCAMPAL AREA CA3
Shota Zarnadze, Peter Bäuerle, Tengis Gloveli, Tamar Dugladze

T23-9A A NEURONAL BRAKE IN THE THALAMIC SOMATO-SENSORY PERCEPTION: THE ROLE OF KCNQ CHANNELS
Manuela Cerina, Hanna Szkudlarek, Tatyana Kanyshkova, Philippe Coulon, Sven G. Meuth, Hans-Christian Pape, Thomas Budde

T23-10A INSTABILITY AND PARTIAL SYNCHRONY IN A BALANCED NETWORK OF RESONATOR NEURONS
Maximilian Puelma Touzel, Michael Monteforte, Fred Wolf

Thursday

T23-1B SPECIFIC SIGNALLING OF PROPAGATING HIPPO-CAMPAL SHARP WAVES TO MEDIAL ENTORHINAL CORTEX LAYER V NEURONS IN VITRO
Fabian C. Roth, Katinka Marie Beyer, Martin Both, Andreas Draguhn, Alexei V. Egorov

T23-2B RECONSTRUCTION OF SYNAPTIC INPUTS TO PRE-BÖTZINGER COMPLEX NEURONS IN SITU
Anke Borgmann, Yaroslav I. Molkov, Hidehiko Koizumi, Ruli Zhang, Ilya A. Rybak, Jeffrey C. Smith

T23-3B MORPHOLOGICAL AND ELECTROPHYSIOLOGICAL CHARACTERIZATION OF VIP EXPRESSING INTER-NEURONS IN MOUSE BARREL CORTEX
Alvar Prönneke, Martin Möck, Jochen Staiger

T23-4B COROLLARY DISCHARGE MODULATION OF WIND-SENSITIVE INTERNEURONS IN THE SINGING CRICKET
Stefan Schöneich, Berthold Hedwig

T23-5B PHASE-SYNCHRONY FACILITATES BINDING AND SEGMENTATION OF NATURAL IMAGES IN A NEURAL NETWORK MODEL
Holger Finger, Peter König

T23-6B CIRCADIAN EXPRESSION OF THE CLOCK GENES PERIOD, TIMELESS 1 AND CRYPTOCHROME 2 IN THE COCKROACH RHYPAROBIA MADERAE IN DIFFERENT TISSUES AND PHOTOPERIODS
Achim Werckenthin, Christian Derst, Monika Stengl

T23-7B TOWARDS A CAUSAL ROLE OF OSCILLATIONS IN VISUAL PERCEPTION
Yuranny Cabral, Melanie Wilke

T23-8B FUNCTION OF THE POSITIVE FEEDBACK CIRCUITRY WITHIN LAYER 4 OF THE BARREL CORTEX
Omer Revah, Tatjana Tchumachenko, Fred Wolf, Michael Gutnick

T23-9B MODULATION OF HIPPOCAMPAL ASSEMBLIES BY REPETITIVE ACTIVATION OF GRANULE CELLS IN VITRO
Martin Keller, Andreas Draguhn, Susanne Reichinnek, Martin Both

Friday

T23-1C CONNECTIVITY ANALYSIS IN THE THORACIC GANGLIA BETWEEN LOCAL INTERNEURONS AND DUM NEURONS
Leonard Nadler, Hans-Joachim Pflüger

T23-2C FUNCTIONAL CONNECTIVITY OF LAYER II/III GABAERGIC MARTINOTTI CELLS IN THE PRIMARY SOMATOSENSORY (BARREL) CORTEX OF MICE
Florian Walker, Mirko Witte, Martin Möck, Jochen Staiger

T23-3C FAST NETWORK OSCILLATIONS IN THE LATERAL SEPTUM IN VIVO
Tatiana Korotkova, Natalia P. Denisova, Alexey Ponomarenko

T23-4C THE NEURONAL CIRCUIT UNDERLYING TIMING OF ECLOSION BEHAVIOR IN DROSOPHILA
Mareike Selcho, Kouji Yasuyama, Ronja Hensgen, Christian Wegener

T23-5C PHOTOPERIOD AFFECTS PHYSIOLOGICAL RESPONSES OF CIRCADIAN PACEMAKER NEURONS IN THE MADEIRA COCKROACH RHYPAROBIA MADERAE
Hongying Wei, El-Sayed Baz, Monika Stengl

T23-6C IMPACT OF CHRONIC NICOTINE TREATMENT ON HIPPOCAMPAL OSCILLATORY ACTIVITY IN A G72 TRANSGENIC MOUSE MODEL FOR SCHIZOPHRENIA
Andreas Lundt, Boris Hambsch, David-Marian Otte, Karl Broich, Anna Papazoglou, Andreas Zimmer, Marco Weiergräber

T23-7C THE CAV 2.3 R-TYPE CHANNEL IS A MODULATOR OF RODENT SLEEP ARCHITECTURE
Magdalena Elisabeth Siwek, Anna Papazoglou, Marco Weiergräber, Karl Broich

T23-8C TASK-DEPENDENT ACTIVATION OF THALAMO-CORTICAL NETWORKS WITH TACS
Christiane Weinrich, Carsten Schmidt-Samoa, Peter Dechent, Melanie Wilke, Mathias Baehr

T23-9C OPTIMIZED TEMPORALLY DECONVOLVED CA2+ IMAGING REVEALS SCALE-FREE TOPOLOGY OF CA1 HIPPOCAMPAL ASSEMBLIES
Thomas Pfeiffer, Susanne Reichinnek, Andreas Draguhn, Martin Both

Saturday

T23-1D IDENTIFICATION OF CLOSER-INTERNEURONS OF THE SONG PATTERN GENERATOR IN THE CRICKET (GRYLLUS BIMACULATUS DEGEER)
Joaquim Pedro Jacob, Berthold Hedwig

T23-2D ON THE IMPACT OF OSCILLATORY SYNCHRONY ON DIRECTED FUNCTIONAL CONNECTIVITY METRICS: A NETWORK-MODEL-BASED STUDY
Agostina Palmigiano, Demian Battaglia, Annette Witt, Theo Geisel

T23-3D APPLYING INTERNAL MODELS TO GAIT-AWARE NEURO-CONTROL IN A KNEE-ANKLE-FOOT-ORTHOSIS
Jan-Matthias Braun, Poramate Manoonpong, Timo von Marcard, Markus Tüttemann, Florentin Wörgötter, Bernhard Graimann

T23-4D RESTORATION OF IMPAIRED FUNCTIONAL COUPLING IN THE AMYGDALO-HIPPOCAMPAL-CORTICAL CIRCUITRY IN NCAM DEFICIENT MICE BY PARTIAL NMDA RECEPTOR AGONIST D-CYCLOSERINE
Oleg Senkov, Gerhard Engler, Melitta Schachner, Alexander Dityatev, Andreas K. Engel

T23-5D INVESTIGATION INTO O-LM CELL RECRUITMENT DURING HIPPOCAMPAL RIPPLES IN VITRO
Maria Pangalos, José R. Donoso, Jochen Winterer, Aleksandar R. Zivkovic, Richard Kempter, Nikolaus Maier, Dietmar Schmitz

T23-6D DECODING SPATIAL INFORMATION FROM MYOELECTRIC SIGNALS FOR CONTROL OF TRANS-RADIAL PROSTHESES
J. Michael Herrmann, David Hofmann, Dario Farina

T23-7D INTEGRATION AND SEGREGATION OF CHOICE RELEVANT INFORMATION ACROSS STATE TRANSITIONS IN MACAQUE PREFRONTAL CORTEX
Stephanie Westendorff, Daniel Kaping, Martin Vinck, Stefan Everling, Thilo Womelsdorf

T23-8D STRAIN DIFFERENCES IN ITBS RTMS EFFECTS ON THE CORTICAL EXPRESSION OF THE CALCIUM-BINDING PROTEIN CALBINDIN IN RATS
Annika Mix, Alia Benali, Klaus Funke

T23-9D DYNAMICS OF CORTICAL CIRCUITS WITH DIFFERENT NETWORK TOPOLOGIES
Rainer Engelken, Fred Wolf, Michael Monteforte

T23-10D NEURONAL SYNCHRONIZATION AND AMINERGIC MODULATION OF NETWORK OSCILLATIONS – IMPLICATIONS FOR SCHIZOPHRENIA
André Fisahn, Richard Andersson, April Johnston

T24: Attention, motivation, emotion and cognition

Wednesday

T24-1A AN INTERNAL REPRESENTATION OF ZERO YAW TORQUE IN DROSOPHILA MELANOGASTER
Franziska Toepfer, Martin Heisenberg, Reinhard Wolf

T24-2A RISK-SEEKING BEHAVIOR IN MONKEYS IS MODULATED BY EFFORT IN A SPATIAL DECISION TASK
Adán Ulises Domínguez Vargas, Annika Grass, Stefan Treue, Melanie Wilke, Igor Kagan

T24-3A ENGAGEMENT AND DISENGAGEMENT OF RECURRENT MICROCIRCUITS IN FUNCTIONAL AND DYSFUNCTIONAL STATES OF THE HUMAN AMYGDALA
Johanna Derix, Ioannis Vlachos, Martin Herpers, Isabella Mutschler, Moritz Helias, Andreas Schulze-Bonhage, Ad Aertsen, Martin Peper, Arvind Kumar, Tonio Ball

T24-4A SELECTIVE VISUAL ATTENTION IN DROSOPHILA: HOW LONG IS THE ATTENTION-SPAN?
Sebastian Koenig, Preeti Sareen, Reinhard Wolf, Martin Heisenberg

T24-5A FEATURE-BASED ATTENTIONAL MODULATION IN THE PRIMARY VISUAL CORTEX OF RHESUS MONKEYS
Rui-Feng Liu, Valeska Stephen, Stefan Treue

T24-6A THE INFLUENCE OF BODY POSTURE ON SPATIAL PERCEPTION: EFFECTS OF EGOCENTRIC MIDLINE SHIFT
Kerstin Paschke, Igor Kagan, Mathias Bähr, Melanie Wilke

T24-7A CONNECTING BRAIN AND MIND WITH FORMAL CONCEPT ANALYSIS: A DATA-DRIVEN INVESTIGATION OF THE SEMANTIC, EXPLICIT CODING HYPOTHESIS
Dominik M. Endres, Ruth Adam, Uta Noppeney, Martin A. Giese

T24-8A THE ENDOCANNABINOID SYSTEM AND ITS INFLUENCE ON COGNITION IN THE ZEBRAFISH (DANIO RERIO)
Nicole Prinz, Tim Ruhl, Gerhard von der Emde

T24-9A USING HALOPERIDOL AND LEVODOPA TO MIMIC EFFECTS OF INCREASED ACTION OF DOPAMINE AT D1 RECEPTORS IN HUMANS
Carola Wormuth, Peter van Ruitenbeek, Mitul A. Mehta

T24-10A EFFECTS OF SPATIAL ATTENTION ON MULTI-UNIT ACTIVITY IN THE PRIMARY VISUAL CORTEX OF THE RHESUS MONKEY
Valeska Marija Stephan, Rui-Feng Liu, Stefan Treue

T24-11A STIMULUS-UNSPECIFIC SPATIAL AND STIMULUS-SPECIFIC FEATURE-BASED ATTENTIONAL MODULATIONS IN AREA MSTD OF MACAQUE VISUAL CORTEX
Sonia Baloni, Daniel Kaping, Stefan Treue

T24-12A EFFECTS OF VISUAL ATTENTION ON NEURAL PROCESSING IN RHESUS' V1 BY SIMULTANEOUS ELECTROPHYSIOLOGY AND BOLD-FMRI
Frederico Augusto Casarsa de Azevedo, Leonardo Casarsa Azevedo, Nikos Logothetis, Georgios Keliris

Thursday

T24-1B AN ATTENTIONAL BLINK WITH MOTION STIMULI
Janina Hueer, Sonia Baloni, Nils Müller, Stefan Treue

T24-2B NUMEROSITY DISCRIMINATION IN THE CARRION CROW (CORVUS CORONE)
Almut Hoffmann, Andreas Nieder

T24-3B MAPPING THE REGULATION OF BEHAVIORAL MOTIVATION IN THE BRAIN OF DROSOPHILA MELANOGASTER
Ariane-Saskia Ries, Roland Strauss

T24-4B THE LONG AND THE SHORT OF IT: CARRION CROWS LEARN TO FLEXIBLY CHOOSE STIMULI BASED ON RELATIVE SIZE
Felix Moll, Andreas Nieder

T24-5B NEURAL CORRELATES UNDERLYING THE USE OF PRIOR INFORMATION IN PERCEPTUAL CLOSURE
Alla Brodski, Georg-Friedrich Paasch, Saskia Helbling, Michael Wibral

T24-6B TWO FUNCTIONAL SYSTEMS FOR SIZE PERCEPTION REVEALED THROUGH DIFFERENT BEHAVIOURAL TASKS
Torsten Stemmler, Jan Skorupa

T24-7B EFFECTS OF GRADED SPATIAL ATTENTION ON HUMAN DIRECTION DISCRIMINATION THRESHOLDS AND THEIR DEPENDENCE ON NOISE
Vera Katharina Marks, Stefan Treue

T24-8B DEPTH OF PROCESSING IN HUMAN PLACE RECOGNITION
Stephan Lancier, Sabrina Hansmann-Roth, Marc Halfmann, Hanspeter Mallot

T24-9B THE INFLUENCE OF EXOGENOUS SEX HORMONES ON HUMAN ATTENTION AND COGNITION: AN ERP-STUDY
Nora Lessing, Kristian Folta-Schoofs

T24-10B A MODALITY DEPENDENT EFFECT IN THE CORSI TAPPING TASK
Andrea Röser, Gregor Hardiess, Hanspeter A. Mallot

Friday

T24-1C EGO-MOTION FROM OPTIC FLOW: EVIDENCE FOR A MATCHED FILTER MECHANISM
Hanspeter A. Mallot, Till Becker, Fabian Recktenwald, Gregor Hardiess

T24-2C IMAGERY OF A FAMILIAR PLACE VARIES WITH INTERVIEW LOCATION
Wolfgang G. Röhrich, Niklas Binder, Hanspeter A. Mallot

T24-3C SOCIAL DEFEAT IN CRICKETS: INFLUENCES OF DOPAMINERGIC MODULATION ON THE SUPPRESSION OF AGGRESSION AND ITS RECOVERY
Paul Anthony Stevenson, Jan Rillich

T24-4C WINNERS AND LOSERS - PRODUCTS OF NATURE OR NURTURE? EVIDENCE FOR POTENTIALLY INHERENT DIFFERENCES IN AGGRESSION BETWEEN CRICKETS
Jacqueline Rose, Darron Cullen, Jan Rillich, Stephen Simpson, Paul Stevenson

T24-5C RELIEF CONDITIONING IN RATS: ROLE OF THE AMYGDALA AND THE NUCLEUS ACCUMBENS
Markus Fendt

T24-6C PERCEPTUAL CHANGES AND EMOTIONAL IMPACT OF SENSORY AUGMENTATION
Sabine Ursula König, Jessika Schwandt, Kai Kaspar, Peter König

T24-7C STIMULUS SALIENCE ENHANCEMENT AT THE EXPENSE OF ACCURATE REPRESENTATION: MT RESPONSES TO TRANSIENT DIRECTION CHANGES AND THEIR ATTENTIONAL ENHANCEMENT
Vahid Mehrpour, Julio C. Martinez-Trujillo, Stefan Treue

T24-8C PROBING NUMEROSITY-SELECTIVITY IN NEURONS OF THE ASSOCIATION CORTEX OF NUMERICALLY-NAÏVE MONKEYS
Pooja Viswanathan, Andreas Nieder

T24-9C CONTEXT-DEPENDENT CODING FLEXIBILITY OF NUMEROSITY-SELECTIVE NEURONS IN THE PRIMATE PREFRONTAL CORTEX
Maria Moskaleva, Andreas Nieder

T24-10C PREFRONTAL NEURONS ENCODE VOLITIONAL INITIATION OF MONKEY VOCALIZATIONS
Steffen R. Hage, Andreas Nieder

Saturday

T24-1D THE ROLE OF DOPAMINE IN RISK-BASED DECISION MAKING IN RATS
Bettina Mai, Wolfgang Hauber

T24-2D ACUTE STRESSOR EFFECTS ON GOAL-DIRECTED ACTION IN RATS
Wolfgang Hauber, Stephanie Braun

T24-3D PREFRONTAL CORTEX NEURONS REPRESENT ABSTRACT RULES APPLIED TO MULTIPLE AGNITUDES
Anne-Kathrin Eiselt, Andreas Nieder

T24-4D EFFECT OF INTENSE PHYSICAL ACTIVITY ON INDIVIDUAL ALPHA FREQUENCY (IAF) AND FATIGUE INDEX (FI)
Irina S. Polikanova, Aleksander G. Tonevitsky

T24-5D IONTOPHORETIC STIMULATION OF DOPAMINE D1 RECEPTOR ENHANCES NUMERICAL RULE CODING IN THE PRIMATE PREFRONTAL CORTEX
Torben Ott, Simon N Jacob, Andreas Nieder

T24-6D NEURAL CORRELATES OF ABSTRACT TASK-SWITCHING IN CARRION CROWS
Lena Veit, Andreas Nieder

T24-7D SALIVA ESTRADIOL LEVEL PREDICTS INDIVIDUAL ALPHA FREQUENCY IN WOMEN
Christina Brötzner, Wolfgang Klimesch, Michael Doppelmayr, Hubert H. Kerschbaum

T24-8D LAUGHING RATS ARE OPTIMISTIC
Rafal Rygula, Helena Pluta, Piotr Popik

T24-9D RHESUS MONKEYS CAN SWITCH VOLITIONALLY BETWEEN DISTINCT CALL TYPES
Natalja Gavrilov, Steffen R. Hage, Andreas Nieder

T24-10D ACQUISITION VS. MEMORIZATION TRADE-OFFS IN COMPARATIVE VISUAL SEARCH
Gregor Hardiess, Noemi D Martin, Aylin Sarikaya, Hanspeter A. Mallot

T24-11D VISUAL SEARCH IN BARN OWLS
Julius Orlowski, Petra Nikolay, Ohad Ben-Shahar, Hermann Wagner

T25: Learning and memory

Wednesday

T25-1A PUNISHMENT- VERSUS PAIN RELIEF-LEARNING IN DROSOPHILA
Sören Diegelmann, Thomas Niewalda, Mirjam Appel, Jennifer Bergmann, Stephan Preuschoff, Birgit Michels, Ayse Yarali, Bertram Gerber

T25-2A LEARNING TO NAVIGATE: EXPLORATORY ORIENTATION FLIGHTS OF YOUNG HONEYBEES
Jacqueline Degen, Andreas Kirbach, Konstantin Lehmann, Randolf Menzel

T25-3A HOUSING CONDITIONS MODULATE THE COGNITIVE PERFORMANCE IN TRANSGENIC MICE OVEREXPRESSING THE SCHIZOPHRENIA SUSCEPTIBILITY GENE TCF4
Magdalena M. Brzózka, Dorota Badowska, Peter Falkai, Moritz J. Rossner

T25-4A FASTER SPREADING ACTIVATION FOR HIGH FEATURE CONCEPT WORDS
Andrea Zauner, Wolfgang Klimesch, Nicole Alexandra Himmelstoß

T25-5A EFFECTS OF THE NEUROACTIVE INSECTICIDE THIACLOPRID ON THE FLIGHT BEHAVIOR OF HONEY-BEES
Lena Faust, Johannes Hahn, Bernd Grünewald

T25-6A PHASE CHANGE IN DESERT LOCUSTS IS ASSOCIATED WITH SHORT- AND LONG-TERM DIFFERENCES IN THE DISTRIBUTION OF SEROTONIN IN THE CNS
Swidbert Roger Ott, Stephen Mark Rogers

T25-7A ASSOCIATING NEURONAL ACTIVITY WITH VOCAL COMMUNICATION IN FREE MOVING MEMBERS OF A SOCIAL GROUP OF ZEBRA FINCHES
Andries Ter Maat, Lisa Trost, Rene F Jansen, Manfred Gahr

T25-8A ENHANCED PERFORMANCE IN A COMPLEX AUDITORY RELEARNING TASK BY CONTROLLED ENZYMATIC MODULATION OF THE EXTRACELLULAR MATRIX IN AUDITORY CORTEX
Hartmut Niekisch, Matthias Deliano, Laura L. Castiblanco, Renato Frischknecht, Max Happel

T25-9A EFFECTS OF NEONICOTINOID INSECTICIDES ON MOTOR AND NEURONAL ACTIVITY IN THE HONEYBEE
Martina Triltsch, Johannes Fischer, Konstantin Kabat vel Job, Bernd Grünewald

T25-10A QUANTIFICATION OF PHOSPHORYLATED CREB IN INNER COMPACT KENYON CELLS IN THE HONEY BEE BRAIN
Katrin B. Gehring, Karin Heufelder, Dorothea Eisenhardt

T25-11A CIRCUIT MECHANISMS OF ASSOCIATIVE FEAR LEARNING IN AUDITORY CORTEX
Johannes Jakob Letzkus, Steffen Wolff, Elisabeth Meyer, Philip Tovote, Julien Courtin, Cyril Herry, Julia Luedke, Andreas Luthi

T25-12A OCTOPAMINE AND TYRAMINE REGULATE THE SUCROSE SENSITIVITY IN THE HONEYBEE (APIS MELLIFERA) DEPENDING ON THE ANIMALS FEEDING STATE
Christina Buckemüller, Richard Zeumer, Oliver Siehler, Isabel Groß, Dorothea Eisenhardt

T25-13A IN SEARCH OF NEURAL CORRELATES OF DECISIONS IN HONEY BEES
Hanna Zwaka, Randolf Menzel

T25-14A HOW OUTCOME EXPECTATIONS ORGANIZE LEARNED BEHAVIOUR IN LARVAL DROSOPHILA
Michael Schleyer, Wiebke Nahrendorf, Benjamin Fischer, Bertram Gerber

T25-15A 'COGNITIVE ENHANCEMENT' IN DROSOPHILA LARVAE?
Birgit Michels, Maria Pakendorf, Kathrin Franke, Ludger Wessjohann, Oleh Lushchak, Dushyant Mishra, Bertram Gerber

Thursday

T25-1B THE REWARD MAGNITUDE IN CONDITIONING OF THE HONEY BEE'S PROBOSCIS EXTENSION RESPONSE AFFECTS MEMORY FORMATION
Kathrin Marter, Lars Bothe, Laura Morgenstern, Carmen Lewa, Dorothea Eisenhardt

T25-2B A NETWORK FOR THE REPRESENTATION OF OBJECT POSITIONS IN THE CENTRAL COMPLEX OF DROSOPHILA
Hannah Marie Wagner, Burkhard Poeck, Roland Strauss

T25-3B RAT NAVIGATION WITH VISUAL AND ACOUSTIC CUES IN VIRTUAL REALITY ON A SERVO BALL
Ursula Kaupert, York Winter

T25-4B ACOUSTICALLY GUIDED WAY-FINDING IN HUMANS: THE ROLE OF GENDER AND SIGHTEDNESS
Daniel Schmidtke, Sarah Galinski, Karl-Heinz Esser

T25-5B SYNAPTIC DYNAMICS IN THE AUDITORY CORTEX DURING LEARNING AND MEMORY RECALL
Kaja Moczulska, Manuel Peter, Juliane Tinter, Simon Rumpel

T25-6B SPATIAL ORIENTATION OF APIS MELLIFERA IN A LED-ENVIRONMENT
Sören Miehe, Randolf Menzel

T25-7B THE POTENTIAL FUNCTION OF CAMKII IN LONG-TERM MEMORY IN THE HONEYBEE
Christina Scholl, Wolfgang Rössler

T25-8B MELATONIN DEPENDENT CHANGES IN BIRDSONG - MEASURING CHANGES IN BRAIN ACTIVITY OF FREELY BEHAVING ZEBRA FINCHES
Susanne Seltmann, Lisa Trost, Andries TerMaat, Sebastien Deregnaucourt, Manfred Gahr

T25-9B CALLING BEHAVIOUR OF ZEBRA FINCHES (TAENIOPYGIA GUTTATA) FORCED PAIRS AND ACTIVATION PATTERN OF A PALLIAL SONG NUCLEUS DURING UNLEARNED VOCALIZATIONS
Pietro Bruno D'Amelio, Lisa Trost, Andries ter Maat

T25-10B A LABORATORY TEST OF SPATIAL RECOGNITION IN SOLITARY AND SOCIAL BEES
Nanxiang Jin, Randolf Menzel

T25-11B SUBCELLULAR DISTRIBUTION OF EPENDYMINS AND THEIR BINDING PARTNERS
Roman Göthe, Rupert Schmidt

T25-12B IMPACT OF CHRONIC AND ACUTE BDNF DEFICIENCY ON FEAR LEARNING AND FEAR EXTINCTION
Thomas Endres, Volkmar Lessmann

T25-13B MODELLING THE INTERACTION OF SYNAPTIC AND STRUCTURAL PLATICITY
Michael Fauth, Christian Tetzlaff, Florentin Wörgötter

T25-14B THE ROLE OF MICRORNAS IN LEARNING AND MEMORY IN THE HONEYBEE BRAIN
Julia Rennertz, Uli Müller

T25-15B BIDIRECTIONAL ACETYLATION-MEDIATED MODULATION OF MEMORY IN THE HONEYBEE: SEARCH FOR THE TARGETED GENES
Katja Merschbaecher, Uli Mueller

T25-16B ENHANCEMENT OF OLFACTORY ACUITY VIA DIFFERENTIAL CONDITIONING OF SIMILAR ODORS
Jonas Barth, Shubham Dipt, Moritz Hermann, Thomas Riemensperger, André Fiala

Friday

T25-1C DEVELOPMENTAL CHANGES IN LATERAL AMYGDALA INHIBITORY CIRCUITS
Daniel Bosch, Ingrid Ehrlich

T25-2C EFFECTS OF NEONICOTINOID INSECTICIDES ON HONEYBEE HOMING FLIGHT BEHAVIOR USING HARMONIC RADAR TRACKING
Johannes Fischer, Teresa Müller, Anne-Kathrin Spatz, Bernd Grünewald, Randolf Menzel

T25-3C THE SEQUENCE OF STIMULUS PRESENTATIONS DURING CONDITIONING IS CRITICAL FOR MEMORY FORMATION AND AFFECTS THE AMOUNT OF CREB
Johannes Felsenberg, Jenny Aino Plath, Dorothea Eisenhardt

T25-4C 5-HTT GENOTYPE INFLUENCES SPATIAL LEARNING AND THE EXPRESSION OF DIFFERENT MARKERS OF NEUROPLASTICTY
Margherita Maria Lee, Sina Kollert, Magdalena Weidner, Sandra Grauthoff, Rebecca S. Heiming, K.P. Lesch, Norbert Sachser, Lars Lewejohann, Angelika G. Schmitt, Sina Kollert

T25-5C SYNAPTIC PROTEOME CHANGES IN MOUSE BRAIN REGIONS UPON AUDITORY DISCRIMINATION LEARNING
Angela Kolodziej, Thilo Kähne, Karl-Heinz Smalla, Elke Eisenschmidt, Utz Uwe Haus, Robert Weismantel, Siegfried Kropf, Wolfram Wetzel, Frank W. Ohl, Wolfgang Tischmeyer, Michael Naumann, Eckart D. Gundelfinger

T25-6C MAPPING OF REGIONAL BRAIN ACTIVITY DURING TWO-WAY ACTIVE AVOIDANCE (TWA) BEHAVIOR USING IN VIVO SPECT-IMAGING IN RATS
Anja Mannewitz, Jürgen Goldschmidt, Katharina Braun

T25-7C DETECTION OF OBJECT-SPACE NOVELTY IN THE CA1 OF FREELY BEHAVING MICE INDUCES LTD WHICH IS DEPENDENT ON NMDA AND MGLU5 RECEPTOR ACTIVATION
Jeremy Goh, Denise Manahan-Vaughan

T25-8C APIS – A NOVEL SYSTEM FOR AUTOMATIC CONDITIONING OF HONEY BEES
Nicholas Hagen Kirkerud, David Gustav, Henja-Niniane Wehmann, C. Giovanni Galizia

T25-9C AGE-DEPENDENT IMPACT OF AVOIDANCE PRE-TRAINING ON ADULT LEARNING: FUNCTIONAL IMAGING IN FREELY BEHAVING MICE
Almuth Spröwitz, Anett Riedel, Jörg Bock, Katharina Braun

T25-10C A WALKING SIMULATOR FOR STUDYING AVERSIVE CLASSICAL AND OPERANT CONDITIONING IN HO NEYBEES
Florian BASTIN, Andreas S. Brandstaetter, Jean-Christophe Sandoz

T25-11C IONIC CURRENT MODULATIONS OF HONEYBEE ANTENNAL LOBE AND MUSHROOM BODY NEURONS
Sophie Himmelreich, Bernd Grünewald

T25-12C PHYSIOLOGICAL MECHANISMS OF SENSORY AUGMENTATION ASSESSED BY FMRI
Johannes Keyser, Susan Wache, Maria Schmitz, Sebastian Fleck, Sabine U. König, Robert Muil, Saskia K. Nagel, Frank Schumann, Thomas Wolbers, Christian Büchel, Peter König

T25-13C EFFECTS OF GLUTAMATE IN INTRA- AND EXTRACELLULAR RECORDINGS FROM MUSHROOM BODY EXTRINSIC NEURONS IN THE HONEY BEE
Ruth Bartels, Stefan Voigt, Randolf Menzel

T25-14C HETEROGENOUS POPULATIONS OF AMYGDALA MEDIAL PARACAPSULAR INTERCALATED CELLS RECEIVE PRESYNAPTICALLY - MODULATED SENSORY INPUTS
Douglas Asede, Daniel Bosch, Francesco Ferraguti, Ingrid Ehrlich

T25-15C PATTERN SEPARATION IN THE HUMAN HIPPOCAMPUS
David Berron, Hartmut Schütze, Emrah Düzel

T25-16C TESTING DROSOPHILA LEARNING AND MEMORY MUTANTS WITH AND WITHOUT METHYLPHENIDATE TREATMENT IN BURIDAN'S PARADIGM
Yasmine Jennifer Graf, Bjoern Brembs

Saturday

T25-1D CHARACTERIZATION OF MPFC INPUTS TO PRINCIPAL NEURONS AND INTERNEURONS IN THE BASOLATERAL AMYGDALA
Cora Hübner, Daniel Bosch, Andreas Lüthi, Ingrid Ehrlich

T25-2D THE CHARACTERIZATION OF THE DIFFERENT SAP47 ISOFORMS
Jörg Kleber, Timo Saumweber, Sören Diegelmann, Bertram Gerber

T25-3D TOWARDS THE BIOCHEMICAL COMPONENTS OF THE VISUAL ORIENTATION MEMORY IN DROSOPHILA
Sara Kuntz, Burkhard Poeck, Roland Strauss

T25-4D HIGH-VOLTAGE ACTIVATED CA2+ CHANNELS IN SEPTOHIPPOCAMPAL THETAGENSIS
Anna Papazoglou, Magdalena, Elisabeth Siwek, Christina Henseler, Ralf Müller, Karl Broich, Marco Weiergräber

T25-5D THERMO-GENTIC INDUCTION OF A MEMORY TRACE IN SUBSETS OF DROSOPHILA MUSHROOM BODY KENYON CELLS
Thomas Dieter Riemensperger, David Vasmer, Atefeh Pooryasin, Silke Dempewolf, Hendrik Urbanke, André Fiala

T25-6D SINGLE-NEURON PHOTOACTIVATION VIA RECOMBINASE-MEDIATED CELL-SPECIFIC EXPRESSION OF CHANNELRHODOPSIN-2, TO ANALYZE HABITUATION IN SENSORY NEURONAL CIRCUITS
Cornelia Schmitt, Jana Liewald, Sebastian Wabnig, Alexander Gottschalk

T25-7D POPULATION CLOCK MODELS AND DELAYED TEMPORAL MEMORY: AN INFORMATION THEORETIC APPROACH
Sakyasingha Dasgupta, Florentin Wörgötter, Poramate Manoonpong

T25-8D LEARNED HELPLESSNESS IN DROSOPHILA
Zhenghong Yang, Reinhard Wolf, Martin Heisenberg

T25-9D OPERANT CONDITIONING OF DROSOPHILA IN THE SHOCKBOX
Sophie Johanna Batsching, Reinhard Wolf, Martin Heisenberg

T25-10D POLICY LEARNING IN SELF-ORGANISING SPIKING NETWORKS THROUGH NEUROMODULATION OF SYNAPTIC TRANSMISSION
Simon M. Vogt, Ulrich G. Hofmann

T25-11D CHARACTERIZATION OF SINGING AND LISTENING ASSOCIATED FIRING PATTERNS OF SIX DIFFERENT NEURON TYPES IN BASAL GANGLIA SONG NUCLEUS AREA X DURING SONG DEVELOPMENT
Lisa Kolb, Constance Scharff, Richard Hahnloser

T25-12D DECIPHERING THE ARCHITECTURE OF THE INSECT MUSHROOM BODY TO UNDERSTAND ITS ROLE IN OLFACTORY LEARNING AND MEMORY
Gérard Leboulle

T25-13D TRANSIENT ACTION OF RNA-POLYMERASE II INHIBITOR ON LEARNING IN HONEYBEES
Aline Loehfelm, Katja Merschbaecher, Uli Mueller

T25-14D PATHWAY SPECIFIC NEURONAL DYNAMICS IN THE ENTORHINAL-HIPPOCAMPAL CIRCUIT
Gerrit Schwesig, Anton Sirota

T25-15D GLUCOSE, AMP-DEPENDENT PROTEIN KINASE AND LEARNING IN HONEYBEES
Marie-Anne Croyé, Kathy Rether, Uli Mueller

T25-16D SEARCH FOR THE UP-STREAM REGULATORS OF HISTONE DEACETYLASES IN HONEYBEES
Jennifer Folz, Uli Mueller

T25-17D CHARACTERIZATION OF A FUNCTIONAL RHOSAP/RICH2 – PROSAP2/SHANK3 INTERACTION USING A NOVEL RICH2 TRANSGENIC MOUSE MODEL JENNIFER FOLZ, ULI MUELLER
Claus Matti Eckert, Jürgen Bockmann, Tobias M. Boeckers, Andreas M. Grabrucker

T26: Computational neuroscience

Wednesday

T26-1A INTERPLAY OF INTRINSIC NOISE AND RECEPTIVE FIELD SIZES IN ELECTROSENSORY ENCODING IN WEAKLY ELECTRIC FISH
Jan Grewe, Anna Stöckl, Henriette Walz, Jan Benda

T26-2A DECODING CONTEXT DEPENDENT MOVEMENT PLANS FROM FRONTOPARIETAL REACH AREAS
Christoph Budziszewski, Axel Lindner, Alexander Gail

T26-3A SELF-ORGANIZED CRITICALITY IN NETWORKS OF LEAKY INTEGRATE AND FIRE NEURONS
Maximilian Uhlig, Anna Levina, J. Michael Herrmann, Theo Geisel

T26-4A RESTING STATE FUNCTIONAL CONNECTIVITY: LARGE-SCALE NEURAL MODEL WITH TIME-DELAYS AND SYSTEM NOISE
Vesna Vuksanovic , Philipp Hövel

T26-5A SELF-SUPERVISED NEURONAL PROCESSING OF SENSORY STREAMS
Robert Gütig

T26-6A HOW DO CHANNEL DENSITIES AND DIFFERENT TIME CONSTANTS AFFECT THE DYNAMIC GAIN OF A DETAILED MODEL OF A PYRAMIDAL NEURON?
David Hofmann, Andreas Neef, Ilya Fleidervish, Michael Gutnick, Fred Wolf

T26-7A BALANCED SYNFIRE CHAIN
Nikolay Chenkov, Henning Sprekeler, Richard Kempter

T26-8A RELATIONS BETWEEN THE MANDELBROT SET AND THE CENTRAL NERVOUS SYSTEM
Thomas Kromer

T26-9A REGULATION OF GLUTAMATE RECEPTOR COMPOSITION
Yue-Hien Lee, Hanspeter Herzel

T26-10A SIGNAL TRANSFER IN NEURONS WITH CENTRAL VERSUS EXTERNALIZED SOMA
Janina Hesse, Susanne Schreiber

T26-11A THE NA+ HYPOTHESIS CHALLENGED
Federico Faraci

T26-12A PYTEMPOTRON - A PYTHON BASED IMPLEMENTATION OF THE TEMPOTRON
Matthias Ihrke, Robert Gütig

T26-13A A MODEL OF LATERAL INTERACTIONS IN COLOR VISION
Olivia Haas, Christian Kellner, Thomas Wachtler

Thursday

T26-1B A COMPUTATIONAL MODEL OF HIPPOCAMPAL FORWARD SWEEP ACTIVITY AT DECISION POINTS
Lorenz Goenner, Julien Vitay, Fred H. Hamker

T26-2B CONSOLIDATION IN A HIERARCHICAL MEMORY NETWORK LEADS TO POWER-LAW FORGETTING
Urs Bergmann, Henning Sprekeler, Michiel Remme, Susanne Schreiber, Richard Kempter

T26-3B MODEL-FREE RECONSTRUCTION OF NEURONAL CONNECTIVITY FROM CALCIUM IMAGING SIGNALS
Olav Stetter, Javier Orlandi, Demian Battaglia, Jordi Soriano, Theo Geisel

T26-4B FISHER INFORMATION MODEL: V1 PROPERTIES LIMIT THE PATTERN MOTION SENSITIVITY OF MT
Stephanie Lehmann, Alexander Pastukhov, Jochen Braun

T26-5B ATTENTION IMPROVES INFORMATION PROCESSING BY TUNING CORTICAL NETWORKS TOWARDS CRITICAL STATES
Nergis Tömen, David Rotermund, Udo Ernst

T26-6B PHYSIOLOGICALLY-INSPIRED NEURAL MODEL FOR THE PROCESSING OF DYNAMIC FACIAL EXPRESSIONS
Martin A. Giese, Girija Ravishankar, Shervin Safavi, Dominik Endres

T26-7B GENERATION OF UNCORRELATED NOISE BY RECURRENT NEURAL NETWORKS
Jakob Jordan, Mihai A. Petrovici, Johannes Schemmel, Karlheinz Meier, Markus Diesmann, Tom Tetzlaff

T26-8B SUPERCOMPUTERS READY FOR USE AS DISCOVERY MACHINES FOR NEUROSCIENCE
Susanne Kunkel, Maximilian Schmidt, Jochen M. Eppler, Jun Igarashi, Gen Masumoto, Tomoki Fukai, Shin Ishii, Hans Ekkehard Plesser, Abigail Morrison, Markus Diesmann, Moritz Helias

T26-9B SYNAPTIC THETA SUSCEPTIBILITY IN SPIKE TIMING DEPENDENT PLASTICITY
Christian Albers, Klaus Richard Pawelzik

T26-10B SYMMETRY BREAKING IN POPULATIONS OF NEURONAL FEATURE DETECTORS
Julia Hillmann, Robert Gütig

T26-11B COMPACT INTERNAL REPRESENTATION - A MATHEMATICAL MODEL OF DROSOPHILA'S PREDICTION CAPABILITIES IN FLIGHT CONTROL
Bianca Zaepf, José Antonio Villacorta Villacorta, Jan-Lukas Oepen, Roland Strauss

T26-12B LINKING PHYSIOLOGY AND MORPHOLOGY IN TWO TYPES OF HONEYBEE PROJECTION NEURONS
Anneke Meyer, Martin F. Brill, Wolfgang Rössler, Martin Paul Nawrot

Friday

T26-1C DEPENDENCE OF NEURONAL ENCODING ON THE SITE OF ACTION POTENTIAL INITIATION
Maxim Volgushev, Evgeny Nikitin, Vladimir Ilin

T26-2C DETECTION OF SINGLE SOURCES DURING COGNITIVE PROCESSING OF AUDITORY STIMULI
Ralf Mueller, Max Taubert, Marco Weiergräber, Joachim Klosterkötter, Stephan Ruhrmann, Anke Brockhaus-Dumke

T26-3C TEMPERATURE COMPENSATED RESPONSES IN CONDUCTANCE-BASED MODELS OF GRASSHOPPER AUDITORY RECEPTORS: IONIC MECHANISMS AND METABOLIC COST
Frederic Roemschied, Jan-Hendrik Schleimer, Monika Eberhard, Bernhard Ronacher, Susanne Schreiber

T26-4C LEARNING LATERAL INHIBITION WITH INHIBITORY SPIKE-TIMING DEPENDENT PLASTICITY TO IMPROVE STIMULUS DISCRIMINATION IN A MODEL OF THE ANTENNAL LOBE
Bahadir Kasap, Michael Schmuker

T26-5C RECEPTIVE FIELD INFERENCE FROM BINARY SPIKE DECISIONS FOR RESPONSES TO NON-GAUSSIAN STIMULUS ENSEMBLES
Arne-Freerk Meyer, Jan-Philipp Diepenbrock, Frank W. Ohl, Jörn Anemüller

T26-6C A DYNAMIC MODEL FOR SELECTIVE VISUAL ATTENTION PREDICTS INFORMATION ROUTING
Daniel Harnack, Udo A Ernst, Klaus R Pawelzik

T26-7C NEUROPHYSIOLOGICAL VALIDATION OF COMPUTATIONAL METHODS TO PREDICT CORTICAL EXCITATION VOLUMES IN TRANSCRANIAL MAGNETIC STIMULATION
Alexander Opitz, Wynn Legon, Abby Rowlands, Walter Paulus, William J. Tyler

T26-8C SOMATIC SODIUM CHANNELS ACCOUNT FOR 2ND PHASE OF ACTION POTENTIAL UPSTROKE IN LAYER 5 PYRAMIDAL CELLS
Andreas Neef, Michael J. Gutnick, Fred Wolf, Ilya Fleidervish

T26-9C SPARSE AND RELIABLE CORTICAL REPRESENTATIONS EMERGE NATURALLY IN NETWORKS WITH ADAPTING NEURONS
Martin Paul Nawrot, Farzad Farkhooi

T26-10C SYNAPTIC SCALING ENABLES DYNAMICALLY DISTINCT SHORT- AND LONG-TERM MEMORY FORMATION
Christian Tetzlaff, Christoph Kolodziejski, Marc Timme, Misha Tsodyks, Florentin Wörgötter

T26-11C INTRINSIC AND EXTRINSIC SOURCES OF CORRELATED ACTIVITY IN RECURRENT NETWORKS
Moritz Helias, Tom Tetzlaff, Markus Diesmann

T26-12C RECONSTRUCTION OF NETWORK CONNECTIVITY IN THE IRREGULAR FIRING REGIME
Dmytro Grytskyy, Markus Diesmann, Moritz Helias

Saturday

T26-1D SPIKE PATTERN DETECTION BY FREQUENT ITEMSET MINING
Emiliano Torre, Michael Denker, Christian Borgelt, David Picado, George Gerstein, Sonja Gruen

T26-2D SIMULATION OF A MULTI-ELECTRODE ARRAY NEUROCHIP EXPERIMENT WITH CLONAZEPAM
Kerstin Lenk, Olaf H.-U. Schroeder , Barbara Priwitzer

T26-3D NEURONAL VARIABILITY VS. PRECISE STIMULUS DISCRIMINATION IN AN OLFACTION-INSPIRED NETWORK: A NEUROMORPHIC CASE STUDY
Michael Schmuker, Thomas Pfeil, Martin Paul Nawrot

T26-4D THE EXTREME LEARNING MACHINE AS A MODEL TO STUDY PATTERN DISCRIMINATION IN INSECT BRAINS
Niklas Flindt, Amir Madany Mamlouk, Michael Schmuker

T26-5D INPUT-DEPENDENT DECORRELATION OF NEURONAL ACTIVITY IN BARREL CORTEX
Birgit Kriener, Gaute T. Einevoll

T26-6D RELIABILITY OF ALGORITHMS FOR AUTOMATIZED DETECTION OF NEURONAL ACTIVITY IN VITRO
Franz Carlsen, Knut Kirmse, Ernst Günter Schukat-Talamazzini, Knut Holthoff

T26-7D MICROSCOPIC RECRUITMENT OF NETWORK SPIKES IN RECURRENT NETWORKS WITH SYNAPTIC SHORT-TERM PLASTICITY
Christoph Bauermeister, Gustavo Deco, Jochen Braun

T26-8D THE CONNECTOME OF THE SPINAL CORD OF THE RAT
Oliver Schmitt, Peter Eipert, Ann-Kristin Klünker, Richard Kettlitz, Pauline Morawska, Andreas Wree

T26-9D WINNER-TAKE-ALL CIRCUITS EXHIBIT KEY HALLMARKS OF BINOCULAR RIVALRY
Svenja Marx, Gina Gruenhage, Daniel Walper, Ueli Rutishauser, Wolfgang Einhäuser

T26-10D TOWARD A SPIKING MULTI-AREA NETWORK MODEL OF MACAQUE VISUAL CORTEX
Maximilian Schmidt, Sacha van Albada, Rembrandt Bakker, Markus Diesmann

T26-11D ACTION POTENTIAL SHAPE AND SPIKE ENCODING PROPERTIES MATURATE IN PARALLEL IN CULTURED HIPPOCAMPAL NEURONS
Elinor Lazarov, Michael Gutnick, Fred Wolf, Andreas Neef

T26-12D APPLICATION OF NETWORK THEORY TO REAL LIVING CULTURES
Christian Claus Schmeltzer

T26-13D DESYNCHRONIZING EFFECT OF HIGH-FREQUENCY STIMULATION IN A GENERIC CORTICAL NETWORK MODEL
Jens Christian Claussen, Markus Schütt

T27: Techniques and demonstrations

Wednesday

T27-1A STRUCTURAL AND QUANTITATIVE MRI OF THE COMMON MARMOSET MONKEY USING A CLINICAL 3T SCANNER
Gunther Helms, Enrique Garea-Rodriguez, Christina Schlumbohm, Jessica König, Peter Dechent, Eberhard Fuchs, Melanie Wilke

T27-2A A WIRELESS AND FULLY IMPLANTABLE RECORDING SYSTEM FOR ECOG SIGNALS
David Rotermund, Dmitriy Boll, Victor Gordillo-Gonzalez, Darren Gould, Thomas Hertzberg, Janpeter Höffmann, Sunita Mandon, Dagmar Peters-Drolshagen, Jonas Pistor, Marius Richter, Tim Schellenberg, Elena Tolstosheeva, Guido Widman, Christian E. Elger, Walter Lang, Steffen Paul, Martin Schneider, Klaus R. Pawelzik, Andreas K. Kreiter

T27-3A A HIGH-RESOLUTION, PHOTOACTIVATED TRANSGENE EXPRESSION METHOD IN VIVO TO STUDY HOMEOSTATIC EFFECTS OF GENETICALLY ALTERED NEURONAL ACTIVITY
Aline Dubos, Alexandre Specht, Sidney Cambridge

T27-4A AN OPTOGENETIC APPROACH TO THE AUDITORY SYSTEM OF THE MONGOLIAN GERBIL
Stefan Keplinger, Fred Koch, Stylianos Michalakis, Martin Biel, Benedikt Grothe, Lars Kunz

T27-5A OPTICAL IMAGING: A COMPARISON OF TWO METHODS IN MICE AND BIRDS
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Dominik Florian Aschauer, Sebastian Kreuz, Simon Rumpel

Saturday

T27-1D IN VIVO IMAGING OF PKA ACTIVATION IN THE STRIATUM USING AN OPTICAL FIBER BUNDLE AND BIOSENSOR
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Caspar Mathias Goeke, Peter König, Klaus Gramann

T27-4D BRAIN TUMOR VOLUME AS A RELIABLE PREDICTOR FOR OVERALL GLIOBLASTOMA PATIENTS SURVIVAL – A EPIDEMIOLOGICAL APPROACH
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Carlana Ramlochansingh, Francisco Branoner, Werner Graf, Hans Straka

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Addresses

(Registered Participants as of February 12, 2013)

Abunassar, Nabeel, NAN Instruments LTD., NAN Instruments LTD., Hayetzira, 17840, Nazareth Illite, Israel, Tel.: +972 4 601 8999, Email: nabil@naninstruments.com

Ache, Jan Marek, Biological Cybernetics, Universität Bielefeld, Universitätsstr. 25, 33615, Bielefeld, Germany, Tel.: +49 521 106 5530, Email: jan_marek.ache@uni-bielefeld.de

Ackels, Tobias, Dept. of Chemosensation, Institute of Biology II, RWTH Aachen University, Worringer Weg 1, 52074, Aachen, Germany, Tel.: +49 241 802 0804, Email: t.ackels@sensorik.rwth-aachen.de

Adelsberger, Dr. Helmuth, Institute of Neuroscience, Technische Universität München, Biedersteinerstr. 29, 80802, München, Germany, Tel.: +49 89 4140 3518, Email: adelsberger@lrz.tum.de

Afify, Ali, AG Galizia, Universität Konstanz, Universitätsstraße 10, 78464, Konstanz, Germany, Tel.: +49 176 7030 5724, Email: ali.aliafify@fulbrightmail.org

Afsari, Zaeinab, Cognitive Science, Universität Osnabrück, Albrechtstrasse 28, 49069, Osnabrück, Germany, Tel.: +49 176 3563 8886, Email: zafsari@uos.de

Agudelo-Toro, Andres, Non linear dynamics, Max-Planck-Institute for Dynamics and Self-organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 551 517 6413, Email: agdtoro@nld.ds.mpg.de

Ahlf, Sönke, Experimental Otorhinolaryngology, Universitsklinik Erlangen, Otorhinolaryngology - Head and Neck Surgery, Waldstr. 1, 91054, Erlangen, Germany, Tel.: +49 9131 854 3853, Email: soenke.ahlf@uk-erlangen.de

Ahrens, Dr. Sandra, Neuroscience, Cold Spring Harbor Laboratory, 1 Bungtown Road, NY, 11724, Cold Spring Harbor, USA, Tel.: +1 631 220 9983, Email: sahrens@cshl.edu

Ahuja, Gaurav, Neurobiology, Institute for Genetics, Zülpicher Strasse 47a, 50674, Köln, Germany, Tel.: +49 176 3416 8334, Email: gauravahuja77@gmail.com

Albers, Christian, Institute of Theoretical Physics, Universität Bremen, Hochschulring 18, 28359, Bremen, Germany, Tel.: +49 421 2186 2010, Email: calbers@neuro.uni-bremen.de

Alfaro Sanchis, Jose Francisco, Molecular Physiology & Brain Extracellular Matrix, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 6263 93171, Email: Jose.Sanchis@lin-magdeburg.de

Alt, Marco D., General Zoology, TU Kaiserslautern, Biologie, P.O. Box 3049, 67653, Kaiserslautern, Germany, Tel.: +49 631 205 3518, Email: marcod.alt@googlemail.com

Altenhein, Ph.D. Benjamin, Institute of Genetics, Universität Mainz, J.-J.-Becherweg 32, 55099, Mainz, Germany, Tel.: +49 6131 392 5340, Email: balt@uni-mainz.de

Andres-Alonso, Maria, Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 176 8444 2828, Email: mandres@ifn-magdeburg.de

Angelov, Svilen Delchev, Department of Neurosurgery, Medical University Hannover, Carl-Neuberg-Str. 1, 30625, Hannover, Germany, Tel.: +49 511 532 2863, Email: sdelchev@gmail.com

Appel, Mirjam, Behavioural Genetics, Max-Planck-Institute for Neurobiology, Am Klopferspitz 18, 82152, Martinsried, Germany, Tel.: +49 89 8578 3452, Email: appel@neuro.mpg.de

Arendt, Andreas, Animal Physiology, Universität Kassel, Heinrich-Plett-Str. 40, 34132, Kassel, Germany, Tel.: +49 561 804 4726, Email: Arendt@uni-kassel.de

Arnal, Ph.D. Luc H., Department of Psycholgy, New York University, 6 Washington Place, Room 275, 10003, New York, USA, Tel.: +1 347 284 7842, Email: luc.arnal@nyu.edu

Arndt, Gunter, Vertrieb, Science Products GmbH, Hofheimer Str. 63, 65719, Hofheim, Germany, Tel.: +49 6192 901396, Email: g.arndt@science-products.com

Arndt, Dr. Wolfgang, Vertrieb, Science Products GmbH, Hofheimer Str. 63, 65719, Hofheim, Germany, Tel.: +49 6192 901396, Email: w.arndt@science-products.com

Asan, Prof. Esther Silke, Institute of Anatomy and Cell Biology, Universität Würzburg, Koellikerstr. 6, 97070, Würzburg, Germany, Tel.: +49 931 3182715, Email: esther.asan@uni-wuerzburg.de

Aschauer, Dominik Florian, Rumpel Group, IMP Vienna, Dr. Bohr Gasse 7, 1030, Wien, Austria, Tel.: +43 699 11650238, Email: aschauer@imp.ac.at

Asede, Douglas, Physiology of Learning and Memory, Centre for Integrative Neuroscience/Hertie Institute for Clinical Brain Research, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2989226, Email: douglas.asede@cin.uni-tuebingen.de

Ashti Baghaei, Kaveh, Cell Physiology, Ruhr-Bochum Universität, Universitätsstraße 150/ND4, 44801, Bochum, Germany, Tel.: +49 172 9174532, Email: kavehbaghai@gmail.com

Atanasoski, Prof. Suzana, Institute of Cell Biology and Anatomy, University of Freiburg, Albertstrasse 17, 79104, Freiburg, Germany, Tel.: +49 761 2035079, Email: suzana.atanasoski@anat.uni-freiburg.de

Atorf, Jenny, Experimental Ophthalmology, University Hospital Erlangen, Schwabachanlage 6, 91054, Erlangen, Germany, Tel.: +49 9131 8528059, Email: jenny.atorf@uk-erlangen.de

Augustin, B.A. Maximilian Sebastian, Department of Neurosurgery-Cellular Neurophysiology II, Albert-Ludwigs-University of Freiburg, Breisacherstr 64, 79106, Freiburg, Germany, Tel.: +49 761 27052910, Email: maximilian.augustin@uniklinik-freiburg.de

Ayala, Yaneri A., Auditory Neurophysiology, Institute of Neuroscience of Castilla y Leon, Pintor Fernando Gallego 1, 37007, Salamanca, Spain, Tel.: +349 23 294500, Email: yaneri.a.ayala@gmail.com

Bachmann, Claudia, Inst. of Neuroscience and Medicine (INM-6), Jülich Research Center, Leo-Brandt-Str., 52425, Jülich, Germany, Tel.: +49 2461 619466, Email: claudia_bachmann1@gmx.de

Backhaus, Prof. Werner Georg Karl, AG Psychophysiologie, Freie Universität Berlin und Technische Universität Berlin, Flachbau HFT-CO, Einsteinufer 25, 10587, Berlin, Germany, Tel.: +49 30 31473614, Email: backhaus@cs.tu-berlin.de

Badde, Stephanie, Biological Psychology and Neuropsychology, University of Hamburg, Von-Melle-Park 11, 20146, Hamburg, Germany, Tel.: +49 179 2020305, Email: stephanie.badde@uni-hamburg.de

Baden, Dr. Tom, CIN/BCCN, University of Tübingen, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2984749, Email: thomas.baden@uni-tuebingen.de

Badowska, Dorota, Neurogenetics, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899776, Email: badowska@em.mpg.de

Baloni, Sonia, Cognitive Neuroscience Laboratory, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851345, Email: sbaloni@gwdg.de

Banchi, Roberto, Department II, Ludwigs-Maximilians-Universität München, Grosshadernerstr. 2, 82152, Martinsried, Germany, Tel.: +49 89 218074298, Email: b.chagnaud@gmail.com

Bao, Ph.D. Jin, Laboratoire de Physiologie Cerebrale, CNRS et Université Paris Descartes, 45 Rue des Saints Pères, 75006, Paris, France, Tel.: +33 1 42 863833, Email: jinbaobpc@gmail.com

Barnerssoi, Miriam, Oculomotor Group, Institute of Anatomy and Cell Biology I, LMU München, Pettenkoferstrasse 11, 80336, München, Germany, Tel.: +49 89 51604851, Email: miriam.barnerssoi@med.uni-muenchen.de

Barnikol, Heinz Ulrich, AG Immunchemie, Max-Planck-Institut für Experimentelle Medizin, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 5030569, Email: watanabe_mpg-em@t-online.de

Barnikol-Watanabe, Shitsu, AG Immunchemie, Max-Planck-Institut für Experimentelle Medizin, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 5030569, Email: watanabe_mpg-em@t-online.de

Bartels, Ruth, Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83859902, Email: ruthbartels@gmail.com

Barth, Jonas, Neurobiology of Behavior, Georg-August-Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177928, Email: jbarth2@gwdg.de

Bartos, Prof. Marlene, Institute for Physiology I, University Freiburg, Hermann-Herder-Strasse 7, D-79104, Freiburg, Germany, Tel.: +49 761 2035194, Email: marlene.bartos@physiologie.uni-freiburg.de

Baschwitz, Amelie E. E., Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Straße 8, 07745, Jena, Germany, Tel.: +49 3641 571452, Email: abaschwitz@ice.mpg.de

Bastin, Florian, Laboratoire Evolution, Génomes et Spéciation, CNRS Gif-sur-Yvette, Avenue de la Terrasse, 91198, Gif-sur-Yvette, France, Tel.: +331 6982 3752, Email: florian.bastin@legs.cnrs-gif.fr

Batsching, Sophie Johanna, AG Heisenberg, Rudolf Virchow Zentrum, DFG Forschung, Josef-Schneider-Str. 2, Haus D15, 97080, Würzburg, Germany, Tel.: +49 931 3189635, Email: Sophie.Batsching@uni-wuerzburg.de

Battaglia, Dr. Francesco P., Donders Centre for Neuroscience, Radboud Universiteit Nijmegen, Heyendaalseweg 135, 6525 AJ, Nijmegen, Netherlands, Tel.: +31 6 21888544, Email: fpbattaglia@gmail.com

Batut, Eric, Sales Engineer, Viewpoint, 3 Allée des Chevreuils, 69380, Lissieu, France, Tel.: +331 4 72179192, Email: info@viewpoint.fr

Bauermeister, Christoph, Institut für Biologie, Abteilung Kognitionsbiologie, Otto-von-Guericke Universität Magdeburg, Leipziger Straße 44 / Haus 91, 39120, Magdeburg, Germany, Tel.: +49 391 6755059, Email: chrbauermeister@googlemail.com

Bautze, Verena, , Universität Hohenheim, Institute of Physiology, Garbenstr. 30, 70593, Stuttgart, Germany, Tel.: +49 711 45922270, Email: verenabautze@web.de

Bavelier, Prof. Daphne, Cognitive Neuroscience - FPSE, U. of Geneva and U of Rochester, 40 bd du Pont d'Arve, CH-1205, Geneva, Switzerland, Tel.: +41 22 3799022, Email: daphne@cvs.rochester.edu

Bayley, M.A. Timothy George, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 7800 721534, Email: tgb29@cam.ac.uk

Baz, El-Sayed, Animal Physiology, Universität Kassel, Heinrich-Plett-Strasse 40, 34132, Kassel, Germany, Tel.: +49 561 8044727, Email: elsayedelbaz@uni-kassel.de

Beetz, Jerome M., AG Homberg, Philipps-Universität Marburg, Karl-von-Frisch Straße 8, 35032, Marburg, Germany, Tel.: +49 6421 2826944, Email: jeromebeetz@arcor.de

Behncke-Braunbeck, Merlet, Springer Spektrum, Springer Verlag, Tiergartenstraße 17, 69121, Heidelberg, Germany, Tel.: +49 6221 4878061, Email: merlet.braunbeck@springer.com

Beis, Daniel, AG Bader, Max-Delbrück-Center für Molekulare Medizin, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94063268, Email: daniel.beis@mdc-berlin.de

Bekemeier, Holger Horst, Biological Cybernetics, Universität Bielefeld, Universitätsstr. 25, 33615, Bielefeld, Germany, Tel.: +49 521 1065530, Email: holger.bekemeier@uni-bielefeld.de

Ben Abdallah, Ph.D. Nada, Department of Molecular Neurology, University Hospital Erlangen, Schwabachanlage 6, 91054, Erlangen, Germany, Tel.: +49 9131 8535881, Email: nada.benabdallah@uk-erlangen.de

Benardais, Karelle, Neuroimmunologie and Neurologie Department, Medizinische Hochschule Hannover, Carl-Neuberg-Str. 1, 30627, Hannover, Germany, Tel.: +49 511 5323737, Email: benardais.karelle@mh-hannover.de

Benninger, Felix, Neurology, Rabin Medical Center, Campus Beilinson, Jabotinsky, 49100, Petach Tikva, Israel, Tel.: +972 52 6756300, Email: felixbenninger@gmail.com

Berendes, Volker, AG Büschges, Universität Köln, Zülpicherstr. 47b, 50674, Köln, Germany, Tel.: +49 221 4703132, Email: vberende@smail.uni-koeln.de

Berg, Eva, AG Büschges, Universität Köln, Zülpicherstr. 47b, 50674, Köln, Germany, Tel.: +49 221 4703133, Email: eva.berg@uni-koeln.de

Berger, Christina, Neurobiology/ AG Felmy, LMU Biocenter, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074368, Email: c.berger@bio.lmu.de

Bergmann, Dr. Urs, Institute for Theoretical Biology, Humboldt-Universität zu Berlin, BCCN Berlin, Invalidenstr. 43, 10405, Berlin, Germany, Tel.: +49 30 20938630, Email: urs.bergmann@biologie.hu-berlin.de

Berner, M.Sc. Sarah Anna, AG Felmy, LMU Munich, Division Neurobiology, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074342, Email: berner@bio.lmu.de

Berron, David, Institute of Cognitive Neurology and Dementia Research, Otto-von-Guericke-University Magdeburg, Leipziger Straße 44, 39120, Magdeburg, Germany, Tel.: +49 391 6117511, Email: david.berron@med.ovgu.de

Berthé, Dr. Ruben Andres, Institute of Neurobiology, Universität Ulm, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel.: +49 731 5023116, Email: ruben.berthe@uni-ulm.de

Bessa, Eva, Institute of Cell - and Neurobiology, Charite, Philippstr 12, 10115, Berlin, Germany, Tel.: +49 30 450528403, Email: eva.bessa@charite.de

Betkiewicz, Rinaldo, Theoretical Neuroscience Group, Institute of Biology, FU Berlin, BCCN Berlin, Königin-Luise-Strasse 1-3, 14195, Berlin, Germany, Tel.: +49 30 83856692, Email: rinaldo@ni.tu-berlin.de

Betz, Sebastian Florian, Institute for Cell Biology and Neuroscience, Goethe Universität Frankfurt, Max-von-Laue-Straße 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842064, Email: betz.sebastian@web.de

Beyer, Timo, Department of Neurogenetics, Carl-von-Ossietzky-Universität Oldenburg, Carl-von-Ossietzky-Strasse 9-11, 26111, Oldenburg, Germany, Tel.: +49 441 7982937, Email: timo.beyer@uni-oldenburg.de

Bhattacharya, Soumee, Special Lab Neurogenetics, Leibniz Institute for Neurobiology, Brenneckestrasse 6, 39118, Magdeburg, Germany, Tel.: +49 3916263 94231, Email: sbhattac@lin-magdeburg.de

Biber, Prof. Knut, Department of Psychiatry and Psychotherapy, University Freiburg, Hauptstr. 5, 79104, Freiburg, Germany, Tel.: +49 761 27066580, Email: knut.biber@uniklinik-freiburg.de

Bicker, Prof. Gerd, Cell Biology, University of Veterinary Medicine Hannover, Bischofsholer Damm 15, 30173, Hannover, Germany, Tel.: +49 511 8567765, Email: gerd.bicker@tiho-hannover.de

Bickmeyer, Dr. Ulf, Ökologische Chemie, Alfred-Wegener-Institut, Am Handelshafen 12, 27570, Bremerhaven, Germany, Tel.: +49 471 48312028, Email: Ulf.Bickmeyer@awi.de

Biermann, Ph.D. Barbara, Molecular Physiology, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 176 76337746, Email: barbara.biermann@ifn-magdeburg.de

Bikson, Prof. Marom, Department of Biomedical Engineering, The City College of New York, 160 Convent Ave, Room T-403B, 11238, New York, USA, Tel.: +1 212 6506791, Email: bikson@ccny.cuny.edu

Bilaney, Sushil M., Neuroscience, Bilaney Consultants GmbH, Schirmerstr. 23, 40211, Düsseldorf, Germany, Tel.: +49 211 364043, Email: sushil@bilaney.de

Birngruber, Konstantin, Sales Dept., TOPTICA Photonics AG, Lochhamer Schlag 19, 82166, Graefelfing, Germany, Tel.: +49 89 858370, Email: konstantin.birngruber@toptica.com

Bischofberger, Prof. Josef, Department of Biomedicine, University of Basel, Pestalozzistr. 20, 4056, Basel, Switzerland, Tel.: +41 61 2672729, Email: josef.bischofberger@unibas.ch

Biswas, Sonia, Cellular Biophysics, Institute of Complex System-4, Forschungzentrum Jülich, Wilhelm-Johnen-Straße, 52428, Jülich, Germany, Tel.: +49 2461 612897, Email: s.biswas@fz-juelich.de

Bitzenhofer, Sebastian H., Developmental Neurophysiology, Center for Molecular Neurobiology Hamburg (ZMNH), Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741056597, Email: sebbitz@zmnh.uni-hamburg.de

Blachutzik, Dr. Jörg, Visitron Systems GmbH, Gutenbergstraße 9, 82178, Puchheim, Germany, Tel.: +49 89 8902450, Email: info@visitron.de

Blankenburg, Stefanie, Animal Physiology, Universität Potsdam, Karl-Liebknecht-Str. 24-25, 14476, Potsdam, Germany, Tel.: +49 331 9775537, Email: sblanken@uni-potsdam.de

Bleckmann, Prof. Horst, Institute of Zoology, Universität Bonn, Poppelsdorfer Schloss, 53115, Bonn, Germany, Tel.: +49 73 5453, Email: bleckmann@uni-bonn.de

Blum, Dr. Robert, Institute for Clinical Neurobiology, Universität Würzburg, Versbacherstr. 5, E4, 97078, Würzburg, Germany, Tel.: +49 931 20144031, Email: Blum_R@klinik.uni-wuerzburg.de

Bockemühl, Dr. Till, Department of Animal Physiology, Zoological Institute, Universität Köln, Zülpicher Str. 47b, 50677, Köln, Germany, Tel.: +49 221 4708069, Email: till.bockemuehl@uni-koeln.de

Bockhorst, Tobias, Dept. of Biology, Animal Physiology, Philipps Universität Marburg, Karl-von-Frisch-Straße 8, 35032, Marburg, Germany, Tel.: +49 6421 2825956, Email: tobias.bockhorst@biologie.uni-marburg.de

Bola, Michal, Institute of Medical Psychology, Otto-von-Guericke-Universität Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6721800, Email: michalbola@gmail.com

Boldi, Cinzia, Sale Dept., Ugo Basile S.r.l., Via Guido Borghi, 43, 21025, Comerio, Italy, Tel.: +39 0332 744574, Email: cinzia.boldi@ugobasile.com

Bollmann, Dr. Johann H., Biomedical Optics - Neural Circuits and Behavior, Max-Planck-Institute for Medical Research, Jahnstrasse 29, 69120, Heidelberg, Germany, Tel.: +49 6221 486282, Email: johann.bollmann@mpimf-heidelberg.mpg.de

Booker, Ph.D. Sam Anthony, Neurocure Cluster of Excellence, Institute of Integrative Neuroanatomy, Chariteplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450528414, Email: samuel-anthony.booker@charite.de

Borgmann, Dr. Anke, Institut für Zoologie, Universität zu Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4701617, Email: anke.borgmann@uni-koeln.de

Bormuth, Ingo, Institute of Cell- and Neurobiology, Charité - University of Berlin, Philippstr.12, 10115, Berlin, Germany, Tel.: +49 176 42055935, Email: ingo.bormuth@charite.de

Bosch, Dr. Daniel, Physiology of Learning and Memory, HIH/CIN, Otfried-Mueller-Strasse 25, 72076, Tuebingen, Germany, Tel.: +49 7071 88858, Email: daniel.bosch@cin.uni-tuebingen.de

Boucsein, Ph.D. Clemens, Neurobiology and Biophysics, Faculty of Biology, Albert-Ludwig-Universität Freiburg, Schänzlestrasse 1, 79104, Freiburg, Germany, Tel.: +49 761 2032862, Email: clemens.boucsein@biologie.uni-freiburg.de

Bradley, Ph.D. Sophie Ann, Biology, University of Leicester, University Road, LE1 7RH, Leicester, United Kingdom, Tel.: +44 116 2523393, Email: sb335@le.ac.uk

Brandstätter, Prof. Johann Helmut, Department of Biology, Universität Erlangen-Nürnberg, Staudtstr. 5, 91058, Erlangen, Germany, Tel.: +49 9131 8528054, Email: jbrandst@biologie.uni-erlangen.de

Brandstaetter, Dr. Andreas S., Laboratoire Évolution, Génomes et Spéciation (LEGS), CNRS Gif-sur-Yvette, Avenue de la Terrasse, Bât 13, 91198, Gif-sur-Yvette, France, Tel.: +331 6982 3752, Email: Andreas.Brandstaetter@legs.cnrs-gif.fr

Brandt, Ph.D. Claudia, Dept. of Pharmacology, Toxicology and Pharmacy, University of Veterinary Medicine, Bünteweg 17, 30419, Hannover, Germany, Tel.: +49 511 3730600, Email: claudia.brandt@tiho-hannover.de

Branoner, Dr. Francisco, Division of Neurobiology, Department Biology II, Ludwig-Maximilians-Universität München, Großhardenerstraße 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074353, Email: mail@francisco-branoner.de

Braul, Dr. Reinhard, Sales, MicroBrightField Europe e.K., Matthissonstr. 6, 39108, Magdeburg, Germany, Tel.: +49 391 7326989, Email: rbraul@online.de

Braun, Jan-Matthias, Computational Neuroscience, Georg-August-Universität Göttingen; BFNT Göttingen, Friedrich-Hund-Platz 1, 37077, Göttingen, Germany, Tel.: +49 551 3910765, Email: jbraun@physik3.gwdg.de

Bresenitz, Pia, Institute of Physiology, RWTH Aachen Universität, Pauwelsstraße 30, 52074, Aachen, Germany, Tel.: +49 241 8088826, Email: pia.bresenitz@rwth-aachen.de

Breuer, Lars, TSE Systems GmbH, Siemensstr. 21, 61352, Bad Homburg, Germany, Tel.: +49 6172 7890, Email: info@TSE-Systems.com

Brill, Martin F., Behavioral Physiology and Sociobiology (Zoology II), Biozentrum, University of Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3184335, Email: martin.brill@biozentrum.uni-wuerzburg.de

Brockmann, Dr. Axel, Neurobiology and Behavior, National Centre for Biological Sciences, Tata Institute for Fundamental Research, GKVK Campus, Bellary Road, 560065, Bangalore, India, Tel.: +91 80 67176512, Email: axel@ncbs.res.in

Brodski, Alla, MEG Unit, Brain Imaging Center, Goethe Universität Frankfurt, Heinrich-Hoffmann-Strasse 10, 60528, Frankfurt/Main, Germany, Tel.: +49 178 3367202, Email: alla@brodski.de

Brötzner, Christina, Department Cell Biology, University of Salzburg, Hellbrunnerstr. 34, 5020, Salzburg, Austria, Tel.: +43 662 80445164, Email: Christina.Broetzner@stud.sbg.ac.at

Brunne, Dr. Bianka, Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741056294, Email: bianka.brunne@zmnh.uni-hamburg.de

Brzózka, Ph.D. Magdalena M., Max-Planck-Institute of Experimental Medicine, Department of Psychiatry and Psychotherapy, Universität München; MPI, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899479, Email: brzozka@em.mpg.de

Buchholz, Ph.D. Verena Nadine, Dept. of Neuropsychology and Pathophysiology, University Medical Center, Martinistr. 52, 20246, Hamburg, Germany, Tel.: +49 40 741057476, Email: v.buchholz@uke.de

Buckemüller, Christina, Institut für Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856454, Email: Christina.Buckemueller@fu-berlin.de

Buddrus, Kristina, Neurophysiology, Universität Hamburg, Martin-Luther-King Platz 3, 20146, Hamburg, Germany, Tel.: +49 40 428383872, Email: kristina.buddrus@uni-hamburg.de

Budinger, Dr. Eike, Auditory Learning and Speech, Leibniz Institute for Neurobiology, Brenneckstr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 626395421, Email: budinger@lin-magdeburg.de

Bueschges, Prof. Ansgar, Animal Physiology, Zoological Institute, Biocenter Köln, Zülpicher Strasse 47b, 50694, Köln, Germany, Tel.: +49 221 4702607, Email: ansgar.bueschges@uni-koeln.de

Buhl, Dr. Edgar, School of Biological Sciences, University of Bristol, Woodland Road, BS8 1UG, Bristol, United Kingdom, Tel.: +44 117 9545955, Email: e.buhl@bristol.ac.uk

Bundschuh, Dr. Sebastian Tylman, Sales Life Science Products, Thorlabs GmbH, Hans-Böckler-Str. 6, 85221, Dachau, Germany, Tel.: +49 8131 595684, Email: sbundschuh@thorlabs.com

Burgess, Prof. Neil, Inst Cognitive Neuroscience, UCL, 17 Queen Square, WC1N 3AR, London, United Kingdom, Tel.: +44 20 76791147, Email: n.burgess@ucl.ac.uk

Burtscher, Verena, Neurophysiology and Neuropharmacology, Medical University of Vienna, Währingerstrasse 13a, 1090, Vienna, Austria, Tel.: +43 1 4016031315, Email: verena.burtscher@meduniwien.ac.at

Bywalez, Wolfgang Georg, Neurobiology, Department II of Biology, AG Egger, LMU München, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074369, Email: bywalez@biologie.uni-muenchen.de

Cambridge, Ph.D. Sidney, Cell Biology and Anatomy, Universität Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548659, Email: cambridge@ana.uni-heidelberg.de

Campanelli, Dario, Molecular Physiology of Hearing, AG Knipper, HNO Klinik, Elfriede-Aulhorn-Strasse 5, 72076, Tübingen, Germany, Tel.: +49 7071 2988246, Email: dariocampanelli@gmail.com

Cang, Ph.D. Jianhua, Neurobiology, Northwestern University, 2205 Tech Drive, Hogan 2-160, IL 60208, Evanston, USA, Tel.: +1 847 4670478, Email: cang@northwestern.edu

Carcaud, Julie, LEGS, CNRS, 1, avenue de la terrasse, 91198, Gif-sur-Yvette, France, Tel.: +33 169823752, Email: julie.carcaud@legs.cnrs-gif.fr

Cardoso de Oliveira, Dr. Simone, Bernstein Coordination Site, Albert-Ludwigs-University, Hansastr. 9a, 79104, Freiburg, Germany, Tel.: +49 761 2039583, Email: cardoso@bcos.uni-freiburg.de

Carlsen, Franz, Hans-Berger-Klinik für Neurologie, Universitätsklinikum Jena, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325911, Email: Franz.Carlsen@med.uni-jena.de

Carson, Ph.D. Monica, Division of Biomedical Sciences, School of Medicine, University of California Riverside, 1274 Webber Hall, 92521, Riverside, USA, Tel.: +1 951 8276089, Email: monica.carson@ucr.edu

Castellano, Marta, Neuroinformatics, Univeristy of Osnabrück, Albrechtstrasse 28, 49076, Osnabrück, Germany, Tel.: +49 176 82181967, Email: m@martacastellano.eu

Cepeda, Efrain A, Institute of Physiology, Otto-von-Guericke Universität, Medical School, Leipziger Strasse 44, 39120, Magdeburg, Germany, Tel.: +49 391 6717979, Email: efrain.cepeda-prado@med.ovgu.de

Cerda, M.D. Fabian Esteban, Department of Physiology, University of Concepcion, Edificio Arco s/n 3rd floor, 4030000, Concepcion, Chile, Tel.: +56 41 2207318, Email: fabiancerda@udec.cl

Cerina, Manuela, Institute of Physiology I, Westfälische Wilhelms-Universität Münster, Robert-Koch-Str. 27a, 48149, Münster, Germany, Tel.: +49 251 8358112, Email: manu.cerina@live.it

Certel, Ph.D. Sarah J, Division of Biological Sciences, University of Montana, 32 Campus Drive, 59812, Missoula, USA, Tel.: +1 406 2436479, Email: sarah.certel@umontana.edu

Chai, Dr. Xuejun, UKE, ZMNH, Institute for Structural Neurobiology, University of Hamburg, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741054283, Email: xuejun.chai@zmnh.uni-hamburg.de

Chanda, Ph.D. Baron, Neuroscience, University of Wisconsin-Madison, 1300 University Avenue, 53706, Madison, USA, Tel.: +1 608 2653936, Email: chanda@wisc.edu

Chang, Cin-He, AG Stenhaeuser, Inst. of Cellular Neuroscience, University of Bonn, Sigmund-Freud-Str. 25, 53127, Bonn, Germany, Tel.: +49 228 28711823, Email: cin-he.chang@ukb.uni-bonn.de

Chang, Shuwen, Membrane Biophysic, Max-Planck-Institute for Biophysical Chemistry, Am Fassberg 11, 37077, Göttingen, Germany, Tel.: +49 551 1676, Email: neuron.chang@gmail.com

Channappa, Lakshmi, Neurochip Research Group, Universität Tübingen, Natural and Medical Sciences Institute, Markwiesenstr. 55, 72770, Reutlingen, Germany, Tel.: +49 7121 51530868, Email: lakshmi.channappa@nmi.de

Chapochnikov, Dr. Nikolai M., Department of Nonlinear Dynamics, Max-Planck-Institute for Dynamics and Self-Organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176414, Email: nikolai@nld.ds.mpg.de

Chatterjee, Mahua, Neurobiology, Department II, AG Egger, LMU München, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074369, Email: chatterjee@biologie.uni-muenchen.de

Chazeau, Anaël, Biophysics of Adhesion and Cytoskeleton, IINS UMR 5297 CNRS, 146 rue Léo-Saignat, 33077, Bordeaux, France, Tel.: +33 5 57575749, Email: anael_chazeau@hotmail.com

Chen, Rongqing, Institute of Physiology and Pathophysiology, Johannes Gutenberg-Universität, Duesbergweg 6, D-55128, Mainz, Germany, Tel.: +49 6131 3920179, Email: chen@uni-mainz.de

Chhabra, Resham, Neurology, Ulm University, Albert-Einstein-Allee 11, 89077, Ulm, Germany, Tel.: +49 151 61121764, Email: resham.chhabra@uni-ulm.de

Chistyakova, Dr. Marina, Psychology, University of Connecticut, 406 Babbidge road, CT 06269, Storrs, USA, Tel.: +1 860 4866825, Email: chistyakovam@gmail.com

Chomis, Yann, Sales Engineer, VIEWPOINT, 3 Allée des Chevreuils, 69380, LISSIEU, France, Tel.: +331 4 72179192, Email: info@viewpoint.fr

Chudotvorova, Ph.D. Ilona, Moleculare Embriologie, Albert-Ludwigs-Universität Freiburg Institut für Anatomie und Zell Biologie, Albertstrasse 23, 79104, Freiburg, Germany, Tel.: +49 761 2035373, Email: ilona.chudotvorova@anat.uni-freiburg.de

Cichy, Annika, Dept. Chemosensation, Institute of Biology II, RWTH Aachen University, Worringerweg 1, 52074, Aachen, Germany, Tel.: +49 241 8020805, Email: a.cichy@sensorik.rwth-aachen.de

Claussen, Dr. Jens Christian, INB, University Lübeck, Ratzeburger Allee 160, 23562, Lübeck, Germany, Tel.: +49 451 5005412, Email: claussen@inb.uni-luebeck.de

Coulon, Dr. Philippe, Institut für Physiologie I, Westfälische Wilhelms-Universität Münster, Robert-Koch-Str. 27a, 48149, Münster, Germany, Tel.: +49 251 8355531, Email: coulon@uni-muenster.de

Couto, Antoine, LEGS, CNRS, 1 Avenue de la terrasse, 91190, Gif-sur-Yvette, France, Tel.: +331 6982 3752, Email: antoine.couto@legs.cnrs-gif.fr

Croyé, Marie-Anne, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 30258141, Email: s9macroy@stud.uni-saarland.de

Cruces-Solis, Hugo, Neurogenetics, Max-Planck-Institute for Experimental Medicine, Herman-Rein-Strasse 3, 37075, Göttingen, Germany, Tel.: +49 551 3899770, Email: cruces@em.mpg.de

Csicsvari, Prof. Jozsef, Systems Neuroscience, Institute of Science and Technology (IST) Austria, Am Campus 1, 3400, Klosterneuburg, Austria, Tel.: +43 2243 90001096, Email: jozsef.csicsvari@ist.ac.at

D'Amelio, Pietro Bruno, Department Gahr - Behavioral Neurobiology, Max-Planck-Institute for Ornithology, Eberhard-Gwinner-Strasse, 82319, Seewiesen, Germany, Tel.: +49 8157 932263, Email: pdamelio@orn.mpg.de

Dahmen, Dr. Hansjürgen, Kognitive Neurowissenschaften, Universität Tübingen, Auf der Morgenstelle 28, D-72076, Tübingen, Germany, Tel.: +49 7071 2972894, Email: hansjuergen.dahmen@uni-tuebingen.de

Danzenbächer, Dr. Nicolas, Technical, PeproTech GmbH, Oberaltenallee 8, 22081, Hamburg, Germany, Tel.: +49 40 7343577755, Email: ndanzenbaecher@peprotech.de

Dasgupta, Sakyasingha, Department for Computational Neuroscience, Bernstein Center for Computational Neuroscience, Uni Göttingen, Friedrich-Hund Platz 1, 37077, Göttingen, Germany, Tel.: +49 551 391020258, Email: dasgupta@physik3.gwdg.de

Davidson, Jutta, Marketing, Charles River, Sandhofer Weg 7, 97633, Sulzfeld, Germany, Tel.: +49 9761 4060, Email: jutta.davidson@crl.com

Davison, Ph.D. Andrew P., UNIC, Centre National de la Recherche Scientifique, 1 avenue de la Terrasse, 91198, Gif sur Yvette, France, Tel.: +331 69 823451, Email: andrew.davison@unic.cnrs-gif.fr

de Knecht, Sicco Derek, Swammerdam Institute for Life Sciences, University of Amsterdam, Science Park 904, PO box 94215, 1098 XH,

Amsterdam, Netherlands, Tel.: +31 20 5258258, Email: s.d.deknecht@uva.nl

de Wit, Dr. Heidi, Dept. Functional Genomics and Clinical Genetics, Center for Neurogenomics and Cognitive Research, De Boelelaan 1085, 1081 HV, Amsterdam, Netherlands, Tel.: +31 20 5986930, Email: h.de.wit@vu.nl

Deca, Diana, Institute of Neuroscience, Konnerth Lab, Technische Universität München, Biedersteiner Str. 29, 80802, München, Germany, Tel.: +49 151 58565139, Email: dianadeca@yahoo.com

Degen, Jacqueline, Neurobiology, Freie Universität Berlin, Königin-Luise-Str. 28-30, 14195, Berlin, Germany, Tel.: +49 30 54298, Email: jacquelinefdegen@gmail.com

Deitmer, Prof. Joachim W., FB Biologie, TU Kaiserslautern, P.B. 3049, 67753, Kaiserslautern, Germany, Tel.: +49 631 2052877, Email: deitmer@biologie.uni-kl.de

Delvendahl, Dr. Igor, European Neuroscience Institute, Universitätsmedizin Göttingen, Grisebachstr. 5, 37077, Göttingen, Germany, Tel.: +49 551 3912218, Email: i.delvendahl@eni-g.de

Dempsey, Conor, Graduate Program in Neurobiology and Behavior, Columbia University, 1051 Riverside Dr., 10032, New York, USA, Tel.: +1 646 6272854, Email: cd2656@columbia.edu

Denker, Dr. Michael, Institute of Neuroscience and Medicine (INM-6), Forschungszentrum Jülich, Wilhelm-Johnen-Straße, 52428, Jülich, Germany, Tel.: +49 2461 619465, Email: m.denker@fz-juelich.de

Depner, Manfred, Experimental Otolaryngology, University Hospital Erlangen, Otorhinolaryngology - Head and Neck Surgery, Waldstr. 1, 91054, Erlangen, Germany, Tel.: +49 9131 8533810, Email: manfred.depner@uk-erlangen.de

Derix, Johanna, Epilepsy Center, Universitätsmedizin Freiburg, Engelberger Str 21, 79106, Freiburg, Germany, Tel.: +49 761 27093280, Email: Johanna.derix@uniklinik-freiburg.de

Diegelmann, Dr. Sören, Genetics of Learning and Memory, Leibniz Institute for Neurobiology, Brenneckestrasse 6, 39118, Magdeburg, Germany, Tel.: +49 391 626392241, Email: soeren.diegelmann@lin-magdeburg.de

Diepenbrock, Jan-Philipp, Systems Physiology of Learning, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626394381, Email: jdiepenb@lin-magdeburg.de

Diesmann, Prof. Markus, Inst of Neuroscience and Medicine (INM-6), Jülich Research Center, Wilhelm-Johnen-Strasse, 52425, Jülich, Germany, Tel.: +49 2461 614748, Email: diesmann@fz-juelich.de

Diester, Ph.D. Ilka, Sensory-motor circuits and Optogenetics, Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck, Deutschordenstr. 46, 60528, Frankfurt, Germany, Tel.: +49 69 96769571, Email: ilka.diester@esi-frankfurt.de

Dieterich, Prof. Daniela Christiane, Institute for Pharmacology and Toxicology, Otto-von-Guericke Universität Magdeburg, Leipziger Strasse 44, 39120, Magdeburg, Germany, Tel.: +49 391 6715875, Email: daniela.dieterich@med.ovgu.de

Direnberger, Dr. Stephan, Department of Biology II, Division of Neurobiology, Ludwig-Maximilians-Universität, Großhaderner Str. 2, 82152, Martinsried, Germany, Tel.: +49 89 218074337, Email: direnberger@bio.lmu.de

Dirks, Anika, Dept. of Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393301, Email: Anika.Dirks@lin-magdeburg.de

Dittrich, Ph.D. Lars, Center for Neuroscience and Metabolic Diseases, SRI International, 333 Ravenswood Avenue, CA 94025, Menlo Park, USA, Tel.: +1 650 8622036, Email: lars.dittrich@sri.com

Dobrota, Prof. Dušan, Department of Medical Biochemistry, Jessenius faculty of Medicine in Martin, Comenius University in Bratislava, Malá hora 4, 036 01, Martin, Slovakia, Tel.: +42 143 4131565, Email: dobrota@jfmed.uniba.sk

Döring, Dr. Frank, AG Moleculare Electrophysiology, Universität Würzburg, Physiologisches Institut, c/o Frauenklinik, Josef-Schneider-Str. 4, 97080, Würzburg, Germany, Tel.: +49 931 20177532, Email: fdoering@uni-wuerzburg.de

Doerr, Christopher, FB KMUB, Technische Hochschule Mittelhessen, Wiesenstraße 14, 35390, Gießen, Germany, Tel.: +49 1761 61584456, Email: christopher.doerr@kmub.thm.de

Domínguez Vargas, Adán Ulises, Decision and Awareness Group, CNL, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 176 79002402, Email: adominguezvargas@dpz.eu

Draguhn, Prof. Andreas, Neurophysiologie, Institut für Physiologie, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544056, Email: andreas.draguhn@physiologie.uni-heidelberg.de

Drakew, Alexander, Institut für Strukturelle Neurobiologie, Zentrum für Molekulare Neurobiologie Hamburg, UKE Hamburg, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741056107, Email: alexander.drakew@zmnh.uni-hamburg.de

Dresbach, Prof. Thomas, Synaptogenesis Group, Universität Göttingen Medical School, Center of Anatomy, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 397004, Email: thomas.dresbach@med.uni-goettingen.de

Dubos, Ph.D. Aline, Department of Anatomy and Cell Biology, Universität Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548673, Email: dubos@ana.uni-heidelberg.de

Duch, Prof. Carsten, Neurobiology, Universität Mainz, Colonel-Kleinmann-Weg 2 (SBII), 55099, Mainz, Germany, Tel.: +49 6131 3923419, Email: cduch@uni-mainz.de

Dürr, Prof. Volker, Biological Cybernetics, Universität Bielefeld, Universitätsstr. 25, 33615, Bielefeld, Germany, Tel.: +49 521 1065528, Email: volker.duerr@uni-bielefeld.de

Dwarakanath, Abhilash, Otto-Hahn-Gruppe, Max-Planck-Institut für Biologische Kybernetik, Spemannstr. 38, 72076, Tübingen, Germany, Tel.: +49 152 57485078, Email: abhilash.dwarakanath@tuebingen.mpg.de

Dylla, Kristina Verena, Neurobiology, University of Konstanz, Universitätsstraße 10, 78464, Konstanz, Germany, Tel.: +49 7531 882103, Email: kristina.dylla@uni-konstanz.de

Eberle, Julia, Institute of Physiology, University of Hohenheim, Garbenstraße 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922267, Email: eberlejulia@web.de

Eckenstaler, Robert, Institute of Physiology, Medical Faculty, Otto-von-Guericke-University, Leipziger Straße 44, Haus 13, 39120, Magdeburg, Germany, Tel.: +49 39167 15811, Email: robert.eckenstaler@med.ovgu.de

Eckert, Claus Matti, Anatomy and Cell Biology, Universität Ulm, Albert-Einstein-Allee 11, 89069, Ulm, Germany, Tel.: +49 1525 1443621, Email: matti.eckert@uni-ulm.de

Eckmeier, Dr. Dennis, Shea lab, Cold Spring Harbor Laboratory, 1 Bungtown Road, NY 11724, Cold Spring Harbor, USA, Tel.: +1 631 6974619, Email: deckmeie@cshl.edu

Eckrich, Dr. Tobias, Department of Biophysics, Universität des Saarlandes, Kirrberger Str. 100, Gebäude 76, 66424, Homburg/Saar, Germany, Tel.: +49 6841 1626261, Email: T.Eckrich@mx.uni-saarland.de

Edelmann, Dr. Elke, Institute of Physiology, Otto-von-Guericke University Magdeburg; Medical School, Leipziger Straße 44, 39120, Magdeburg, Germany, Tel.: +49 391 6713677, Email: elke.edelmann@med.ovgu.de

Egger, Dr. Veronica, Neurobiology, Department II Biology, LMU, Grosshadernerstr. 2, 82152, Martinsried, Germany, Tel.: +49 89 218074338, Email: V.Egger@lmu.de

Egorov, Dr. Alexei V., Institute of Physiology and Pathophysiology, Universität Heidelberg, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544053, Email: alexei.egorov@urz.uni-heidelberg.de

Ehrenreich, Prof. Hannelore, Clinical Neuroscience, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899615, Email: ehrenreich@em.mpg.de

Ehret, Prof. Günter, Institute of Neurobiology, Universität Ulm, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel.: +49 731 5022628, Email: guenter.ehret@uni-ulm.de

Ehrlich, Dr. Ingrid, Physiology of Learning and Memory, HIH/CIN, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2989189, Email: ingrid.ehrlich@uni-tuebingen.de

Eickhoff, René, AG Zellbiologie, Tierärztliche Hochschule Hannover, Bischofsholer Damm 15/102, 30173, Hannover, Germany, Tel.: +49 511 9537768, Email: r.eickhoff@web.de

Eisbach, Sibylle Elisabeth, Department for Neurodegeneration and Restorative Research, Universität Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913546, Email: seisbach@gwdg.de

Eiselt, Anne-Kathrin, Institue of Neurobiology, University of Tübingen, Auf der Morgenstelle 28, 72072, Tübingen, Germany, Tel.: +49 7071 2972957, Email: anne-kathrin.eiselt@biologie.uni-tuebingen.de

Eisermann, Dr. Klaus, Sales, WPI Germany GmbH, Zossener Strasse 55, 10961, Berlin, Germany, Tel.: +49 30 6188845, Email: wpide@wpi-europe.com

El Hady, Ahmed, Non linear dynamics, Max-Planck-Institute for Dynamics and Self Organization, Am Fassberg 17, 37077, Göttingen, Germany, Tel.: +49 170 1866408, Email: ahmed@nld.ds.mpg.de

Eliasson, Johan, Exhibitor, AgnTho´s, Dalenum 29, 18170, Lidingö, Sweden, Tel.: +46 8 7665715, Email: johan.eliasson@agnthos.se

Endres, Dr. Thomas, Institute of Physiology, Otto-von-Guericke Universität Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6713687, Email: thomas.endres@med.ovgu.de

Endres, Dr. Dominik M, Section Computational Sensomotorics, Dept. Cogn. Neurology, CIN, HIH, BCCN, Universitätsklinik Tübingen, Otfried-Müller Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2989135, Email: dominik.endres@klinikum.uni-tuebingen.de

Engelken, Rainer, Nonlinear Dynamics - Neurophysics, Max-Planck-Institute for Dynamics and Selforganization, Fassberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176479, Email: rainer@nld.ds.mpg.de

Erdmann, Jessika, Institut für Biologie-Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856282, Email: jerdmann@live.de

Euler, Prof. Thomas, Centre for Integrative Neuroscience (CIN), Universität Tübingen, Otfried-Müller-Str. 25, 72072, Tübingen, Germany, Tel.: +49 7071 2985028, Email: thomas.euler@cin.uni-tuebingen.de

Evers, Dr. Jan Felix, Physiology, Development and Neuroscience, University of Cambridge, Downing Street, CB2 3DY, Cambridge, United Kingdom, Tel.: +44 1223 333781, Email: jfe22@cam.ac.uk

Fabianova, Ph.D. Kamila, Institute of Neurobiology, Institute of Neurobiology, Slovak Academy of Sciences, Soltesovej 4-6, 04001, Kosice, Slovakia, Tel.: +42 55 7276234, Email: lievajova@saske.sk

Faghihi, Faramarz, Department of Computational Neuroscience, Bernstein Center for Computational Neuroscience, Institute of Physics, Friedrich-Hund-Platz 1, 37077, Göttingen, Germany, Tel.: +49 551 3910760, Email: faghihi@physik3.gwdg.de

Faissner, Prof. Andreas, Cell Morphology & Molecular Neurobiology, Ruhr-Universität, Universitätsstr. 150, 44801, Bochum, Germany, Tel.: +49 234 3223851, Email: andreas.faissner@rub.de

Falomir Lockhart, Ph.D. Lisandro Jorge, Laboratory of Cellular Dynamics, Max-Planck-Institute for Biophysical Chemistry, Am Fassberg 11, 37077, Göttingen, Germany, Tel.: +49 551 2011390, Email: lfalomi@gwdg.de

Faraci, Federico, Nonlinear Dynamics, Max-Planck-Institute for Dynamics and Self Organization, Bunsenstrasse 10, 37073, Göttingen, Germany, Tel.: +49 5515176 491, Email: fede@nld.ds.mpg.de

Farzana, Fatima, Dept. of Functional Genomics, Center for Neurogenomics and Cognitive Research (CNCR), De Boelelaan 1085, 1081 HV, Amsterdam, Netherlands, Tel.: +31 20 5986931, Email: f.farzana@vu.nl

Fauth, Michael, Drittes Physikalisches Institut, Bernstein Center for Computational Neuroscience, Friedrich-Hund-Platz 1, 37077, Göttingen, Germany, Tel.: +49 1515 6936945, Email: mfauth@physik3.gwdg.de

Feigenspan, Prof. Andreas, Lehrstuhl für Tierphysiologie, FAU Erlangen-Nürnberg, Staudtstraße 5, 91058, Erlangen, Germany, Tel.: +49 9131 8528057, Email: afeigen@biologie.uni-erlangen.de

Fejtova, Ph.D. Anna, Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 62639332, Email: afejtova@ifn-magdeburg.de

Fell, Barbara, Department of Biophysics, Saarland University, Kirrberger Str. 100, Building 76, 66424, Homburg, Germany, Tel.: +49 6841 1626261, Email: barbara.disteldorf@uks.eu

Felmy, Dr. Felix, Department Biology II, Division of Neurobiology, Ludwig-Maximilians University, Biocenter, Grosshadener Strasse 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074316, Email: felmy@zi.biologie.uni-muenchen.de

Felsenberg, Johannes, Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28-30, 14195, Berlin, Germany, Tel.: +49 30 83856454, Email: johannes.felsenberg@fu-berlin.de

Fendt, Dr. Markus, Pharmakologie und Toxikologie, Otto-von-Guericke Universität Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6721982, Email: markus.fendt@med.ovgu.de

Ferger, Roland, Department of Zoology and Animal Physiology, Institute for Biology II, RWTH Aachen, Mies-van-der-Rohe-Straße 15, 52056, Aachen, Germany, Tel.: +49 241 8020836, Email: roland@bio2.rwth-aachen.de

Fester, Bill, Exhibitor, Intelligent Imaging Innovations GmbH, Königsallee 9-21, 37081, Göttingen, Germany, Tel.: +49 551 50839266, Email: 3ieurope@intelligent-imaging.com

Fettermann, Dr. Andrea, New England Biolabs GmbH, New England Biolabs GmbH, Brüningstraße 50, Geb. B852, 65926, Frankfurt, Germany, Tel.: +49 160 4767258, Email: fettermann@neb.com

Fiehler, Prof. Katja, Experimental Psychology, Justus-Liebig-Universität Gießen, Otto-Behaghel-Str. 10 F, 35394, Gießen, Germany, Tel.: +49 641 9926144, Email: katja.fiehler@psychol.uni-giessen.de

Finger, Holger, Institute of Cognitive Science, Universität Osnabrück, Albrechtstraße 28, 49069, Osnabrück, Germany, Tel.: +49 541 9693902, Email: holger.finger@uni-osnabrueck.de

Firzlaff, Dr. Uwe, Lehrstuhl für Zoologie, Technische Universität München, Liesel-Beckmann-Str. 4, 85350, Freising Weihenstephan, Germany, Tel.: +49 8161 712803, Email: uwe.firzlaff@wzw.tum.de

Fisahn, Ph.D. André, KI-Alzheimer Disease Research Center, Karolinska Institute, Retzius väg 8, 17177, Stockholm, Sweden, Tel.: +46 8 52487354, Email: andre.fisahn@ki.se

Fischer, Johannes, Institut für Zellbiologie und Neurowissenschaften, Goethe Universität Frankfurt am Main, Max-von-Laue-Str. 13, 60438, Frankfurt am Main, Germany, Tel.: +49 6171 21278, Email: johfisch@stud.uni-frankfurt.de

Flórez Weidinger, Juan Daniel, Nonlinear Dynamics, Max-Planck-Institute for Dynamics and Self - Organization, Am Fassberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176420, Email: Chepe@nld.ds.mpg.de

Fleischer, Dr. Joerg, Institute of Physiology, Universität Hohenheim, Garbenstrasse 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922270, Email: joergf@uni-hohenheim.de

Flindt, Niklas, Institute for Neuro- and Bioinformatics, Universität Lübeck, Ratzeburger Allee 160, 23562, Lübeck, Germany, Tel.: +49 451 5005500, Email: niklas.flindt@yahoo.de

Flügge, Prof. Gabriele, AG Fuchs, Universität Götttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851133, Email: gfluegg@gwdg.de

Förster, Dr. Eckart, Institute of Neuroanatomy, University Medical Center Hamburg-Eppendorf, Martinistr. 52, 20246, Hamburg, Germany, Tel.: +49 40 53020, Email: efoerste@uke.uni-hamburg.de

Förster, Rita, Institute of Neuroscience, Technische Universität München, Biedersteinerstr. 29, 80802, München, Germany, Tel.: +49 89 41403367, Email: rita.foerster@lrz.tum.de

Foerster, Dr. Walter, Sales, TSE Systems GmbH, Siemensstr. 21, 61352, Bad Homburg, Germany, Tel.: +49 6172 7890, Email: Info@TSE-Systems.com

Folz, Jennifer, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 30258141, Email: j.folz@mx.uni-saarland.de

Frahm, Dr. Silke, Molecular Neurobiology, Max-Delbrück-Centrum für Molekulare Medizin, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94063415, Email: sfrahm@mdc-berlin.de

Franck, Martin Wilhelm Erich, Institute of Physiology, Otto-von-Guericke-Universität Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6717979, Email: martin.franck@st.ovgu.de

Franke, Katrin, Department of Ophthalmic Research, Centre for Integrative Neuroscience (CIN) Tübingen, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 89026, Email: katrin.franke@cin.uni-tuebingen.de

Franzen, Louise Delwen, AG Felmy, LMU Munich, Division Neurobiology, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074342, Email: delwen.franzen@gmail.com

Fregin, Dr. Torsten, Chemische Ökologie, Alfred Wegener Institute, Beim Handelshafen 12, 27570, Bremerhaven, Germany, Tel.: +49 471 48311731, Email: Torsten.Fregin@awi.de

Freing, Alina, Abteilung Neuroradiologie, Universitätsmedizin Göttingen, Robert-Koch-Straße 40, 37075, Göttingen, Germany, Tel.: +49 551 399964, Email: alina.freing@stud.uni-goettingen.de

Friauf, Prof. Hans Fritz Eckhard, Animal Physiology, Universität Kaiserslautern, Erwin-Schroedinger-Str. 13/570, 67663, Kaiserslautern, Germany, Tel.: +49 631 2052424, Email: eckhard.friauf@biologie.uni-kl.de

Friedlein, Katharina Sofia, Neurooncological laboratory, Universitätsklinikum Erlangen-Nürnberg, Vierzigmannstraße 15, 91054, Erlangen, Germany, Tel.: +49 171 4981617, Email: friedlein_katharina@gmx.net

Friedrich, Katharina, Institute of Physiology, UK Aachen, RWTH Aachen, Pauwelsstraße 30, 52074, Aachen, Germany, Tel.: +49 241 8088815, Email: katharina.friedrich@rwth-aachen.de

Frischknecht, Dr. Renato, Neurochemistry, Leibniz Institute for Neuroscience, Brenneckestr 6, 39118, Magdeburg, Germany, Tel.: +49 391 62639336, Email: rfrischk@lin-magdeburg.de

Fritschy, Prof. Jean-Marc, Institute of Pharmacology and Toxicology, University of Zurich, Winterthurerstrasse 190, 8057, Zurich, Switzerland, Tel.: +41 44 6355926, Email: fritschy@pharma.uzh.ch

Frotscher, Prof. Michael, Institute for Structural Neurobiology, Center for Molecular Neurobiology Hamburg (ZMNH), Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741055028, Email: Michael.Frotscher@zmnh.uni-hamburg.de

Fu, Ph.D. YU, Physiology, University of California San Francisco, Rm436 685 Nelson Rising Lane, 94158, San Francisco, USA, Tel.: +1 631 5617537, Email: yufu@phy.ucsf.edu

Fürst, Carina Iris, Molekulare Physiologie, Leibniz Institut für Neurobiologie, LIN, Breiter Weg 256, 39104, Magdeburg, Germany, Tel.: +49 170 7903800, Email: carinafuerst@gmail.com

Fuhr, Martin, Animal Physiology, Technische Universität Kaiserslautern, Erwin-Schrödinger-Strasse 13/566, 67663, Kaiserslautern, Germany, Tel.: +49 631 2052501, Email: martin.fuhr@bio.uni-kl.de

Funk, Nico, Animal Physiology, Universität Kassel, Heinrich-Plett-Str. 40, 34132, Kassel, Germany, Tel.: +49 561 8044727, Email: funk@uni-kassel.de

Fusca, Debora, Zoology, Animal Physiology, AG Kloppenburg, Universität Köln, Zülpicher Straße 47b, 50674, Köln, Germany, Tel.: +49 221 4708278, Email: debora.fusca@uni-koeln.de

Gaab, Stefanie, AG Neuhaus, Charité Universitätsmedizin, Cluster of Excellence NeuroCure, Charitéplatz 1, CCO, 10117, Berlin, Germany, Tel.: +49 30 450539769, Email: gaabdhoe@mailbox.tu-berlin.de

Gaese, Ph.D. Bernhard, Inst. Cell Biology and Neuroscience, Goethe University Frankfurt, Max-von-Laue-Str. 13, 60438, Frankfurt/Main, Germany, Tel.: +49 69 79842061, Email: gaese@bio.uni-frankfurt.de

Gail, Prof. Alexander, Sensorimotor Group, Universität Göttingen, German Primate Center, Kellnerweg 4, 37073, Göttingen, Germany, Tel.: +49 551 3851358, Email: agail@gwdg.de

Gampe, Dr. Kristine, Molecular and Cellular Neuroscience, Goethe-Universität Frankfurt, Max-von-Laue Str. 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842002, Email: k.gampe@bio.uni-frankfurt.de

Gansel, Kai, Neurophysiologie, Max-Planck-Institut für Hirnforschung, Deutschordenstrasse 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769272, Email: kai.gansel@brain.mpg.de

Garea-Rodríguez, Ph.D. Enrique, Clinical Neurobiology Laboratory, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851125, Email: egarea-rodriguez@cnl-dpz.de

Garry, Ph.D. Emer Mary, Blue Box Sensors Ltd., Blue Box Sensors Ltd., Hilton House, 3 Ardee Road, Rathmines, 6, Dublin, Ireland, Tel.: +353 87 1784875, Email: e.garry@blueboxsensors.com

Gasser, Prof. Thomas, Neurodegeneration, Neurologische Univ.-Klinik, Hoppe-Seyler-Str. 3, 72076, Tübingen, Germany, Tel.: +49 7071 2986529, Email: thomas.gasser@uni-tuebingen.de

Gawalek, Petra, Animal Physiology, Universität Kassel, Heinrich-Plett-Straße 40, 34132, Kassel, Germany, Tel.: +49 561 8044726, Email: gawalek@uni-kassel.de

Geier, Thomas, Neuroscience, Bilaney Consultants GmbH, Schirmerstraße 23, 40211, Düsseldorf, Germany, Tel.: +49 211 364043, Email: thomas@bilaney.de

Genç, Özgür, Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, EPFL, Station 19, 1015, Lausanne, Switzerland, Tel.: +41 21 6931608, Email: ozgur.genc@epfl.ch

Geoghegan, Rory, Director, Blue Box Sensors Ltd, Hilton House, 3 Ardee Rd., Dublin 6, Rathmines, Ireland, Tel.: +353 353870515570, Email: r.geoghegan@blueboxsensors.com

Georgieva, Petya, Cellular Neurosciences, MDC Berlin, Robert-Rössle-Str.10, 13125, Berlin, Germany, Tel.: +49 30 94063503, Email: petya.georgieva@mdc-berlin.de

Giese, Prof. Martin A., Section Computational Sensomotorics, Dept. Cogn. Neurology, Universitätsklinik Tübingen,CIN, HIH, BCCN, Otfried-Müller Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2989124, Email: martin.giese@uni-tuebingen.de

Giraldez, Ph.D. Teresa, Research Unit HUNSC, University Hospital NS Candelaria, Ctra Rosario 145, 38010, Sta Cruz de Tenerife, Spain, Tel.: +349 922 299670, Email: giraldez@ull.es

Gleiss, Helge, Department of Biology II, Division of Neurobiology, Ludwig-Maximilians-Universität München, Großhaderner Str. 2, 82152, Martinsried, Germany, Tel.: +49 173 6623898, Email: hgleiss@mac.com

Gliem, Dr. Sebastian, Dept. of Neurophysiology and Cellular Biophysics, Universität Göttingen, Humboldtallee 23, 37073, Göttingen, Germany, Tel.: +49 551 397639, Email: sgliem@gwdg.de

Godlewska, Elzbieta, Animal Physiology, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4703132, Email: E.Godlewska@gmx.de

Goeckel, Tom, Department for Biology II, RWTH Aachen University, Mies-van-der-Rohe Strasse 15, 52074, Aachen, Germany, Tel.: +49 241 8020827, Email: tom.goeckel@rwth-aachen.de

Gödecke, Nina, Cellular Neurobiology, Zoological Institute, Spielmannstr.7, 38106, Braunschweig, Germany, Tel.: +49 531 3913228, Email: nina.goedecke@tu-bs.de

Goeke, Caspar Mathias, Cognitive Science, Universität Osnabrück, Albrechtstraße 28, 49076, Osnabrück, Germany, Tel.: +49 157 88486316, Email: cgoeke@uos.de

Goenner, Lorenz, Dept. of Computer Science, Artificial Intelligence group, TU Chemnitz, Straße der Nationen 62, 09107, Chemnitz, Germany, Tel.: +49 371 53139979, Email: logo@hrz.tu-chemnitz.de

Göthe, Roman, Biotechnology Centre, Justus-Liebig-Universität Giessen, Leihgesterner Weg 217, 35392, Gießen, Germany, Tel.: +49 641 9916505, Email: romangoethe@gmx.de

Goetze, Bianka, Bernstein Focus for Neurotechnology (BFNT) and School of Biology, Systems Neuros, Georg-August-Universität Göttingen, Von-Siebold-Str. 4, 37075, Göttingen, Germany, Tel.: +49 551 3920163, Email: bianka.goetze@biologie.uni-goettingen.de

Goldammer, Jens, Department of Animal Physiology, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4703133, Email: goldammj@uni-koeln.de

Goldschmidt, Ph.D. Maite Gabriele, Systems Physiology of Learning, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626394381, Email: Maite.Goldschmidt@lin-magdeburg.de

Gollisch, Prof. Tim, Dept of Ophthalmology, University Medical Center Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913542, Email: tim.gollisch@med.uni-goettingen.de

Gorin, Monika, Institute for Biology II, Dept. of Chemosensation, RWTH Aachen, Worringer Weg 1, 52074, Aachen, Germany, Tel.: +49 241 8020805, Email: m.gorin@sensorik.rwth-aachen.de

Goyer, David, Institute for Biology 2, Zoology/Animal Physiology, RWTH Aachen Universität, Lukasstraße 1, 52070, Aachen, Germany, Tel.: +49 241 8020831, Email: goyer@bio2.rwth-aachen.de

Grabe, Veit, Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Str. 8, 07745, Jena, Germany, Tel.: +49 3641 571452, Email: vgrabe@ice.mpg.de

Gräwe, Dr. Walter, Systems Sales, Hamamamatsu Photonics Deutschland GmbH, Arzbergerstr. 10, 82211, Herrsching, Germany, Tel.: +49 8152 375200, Email: wgraewe@hamamatsu.de

Gras, Dr. Heribert, Zelluläre Neurobiologie, Univ.Göttingen, Inst. für Zoologie und Anthropologie, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177960, Email: hgras@gwdg.de

Grasskamp, Andreas Till, Behavioural and Molecular Neurobiology, Universität Regensburg, Schopperplatz 7, 93059, Regensburg, Germany, Tel.: +49 176 44476668, Email: andreas.grasskamp@googlemail.com

Greene, Ph.D. Garrett, Neurobiologie, Ludwig-Maximilians-Universität, Großhaderner Straße 2-4, 82152, Planegg-Martinsried, Germany, Tel.: +49 174 7963976, Email: greene@bio.lmu.de

Greifzu, Franziska, J.F.Blumenbach-Institut für Zoologie und Anthropologie, Georg-August-Universität, Systems Neuroscience, Bernstein Fokus Neurotechnologie, Von-Sieboldstr. 4, 37075, Göttingen, Germany, Tel.: +49 551 3920163, Email: Franziska.Greifzu@biologie.uni-goettingen.de

Grewe, Dr. Jan, Department Biologie II, Ludwig-Maximilians-Universität München, Grosshaderner Strasse 2, 82152, Martinsried, Germany, Tel.: +49 89 218074806, Email: grewe@bio.lmu.de

Grienberger, Christine, Institute of Neuroscience, Technische Universität München, Biedersteiner Str. 29, 80802, München, Germany, Tel.: +49 89 41403367, Email: christine.grienberger@lrz.tum.de

Grimes, Ph.D. William N, Physiology and Biophysics, HHMI/UofWa, 1307 E John St. #306, WA 98102, Seattle, USA, Tel.: +1 301 9061204, Email: wgrimes8@gmail.com

Grimpe, Dr. Barbara, Applied Neurobiologie, Heinrich-Heine-Universität, Moorenstr. 5, 40225, Düsseldorf, Germany, Tel.: +49 211 8108688, Email: Barbara.Grimpe@med.uni-duesseldorf.de

Grishina, Olga, Institute of Cell- and Neurobiology, Charité University of Berlin, Philippstr. 12, 10115, Berlin, Germany, Tel.: +49 30 450528323, Email: olga.grishina@charite.de

Groh, Katrin Christine, Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knoell-Str. 8, 07745, Jena, Germany, Tel.: +49 3641 571460, Email: kgroh@ice.mpg.de

Groh, Dr. Claudia, Behavioural Physiology and Sociobiology, Universität Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3189266, Email: claudia.groh@biozentrum.uni-wuerzburg.de

Grosche, Ph.D. Antje, Pathophysiology of Neuroglia, Paul-Flechsig-Institute of Brain Research, Jahnallee 59, 04109, Leipzig, Germany, Tel.: +49 341 9725796, Email: antje.grosche@medizin.uni-leipzig.de

Grothe, Iris, Fries Lab, Ernst Strüngmann Institute for Neuroscience in Cooporation with Max Planck Soci, Deutschordenstrasse 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769519, Email: iris.grothe@esi-frankfurt.de

Gruber, David, Institute of Neurophysiology, Charité Universitätsmedizin Berlin, Garystr. 5, 14195, Berlin, Germany, Tel.: +49 30 450539024, Email: david.gruber@charite.de

Grün, Prof. Sonja, Institute of Neuroscience and Medicine (INM-6), Forschungszentrum Jülich, Wilhelm-Johnen-Str. 1522, 52428, Jülich, Germany, Tel.: +49 175 2972436, Email: s.gruen@fz-juelich.de

Grünewald, Prof. Bernd, Cellbiology and Neuroscience, Goethe-Universität Frankfurt am Main, Max-von-Laue-Str. 13, 60438, Frankfurt am Main, Germany, Tel.: +49 6171 21278, Email: b.gruenewald@bio.uni-frankfurt.de

Grünewald, Nora, Institute of Biochemistry, Universität Köln, Zülpicherstr. 47, 50674, Köln, Germany, Tel.: +49 221 4706452, Email: lisanogr@googlemail.com

Gruhn, Dr. Matthias, Biocenter, Dept. of Zoology/Animal Physiology, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4703103, Email: mgruhn@uni-koeln.de

Grytskyy, Dmytro, INM-6 (Computational and System Neuroscience), Research Center Jülich, Wilhelm-Johnen-Straße, 52425, Jülich, Germany, Tel.: +49 1578 6057413, Email: d.grytskyy@fz-juelich.de

Grzeschik, Ramona, Department of Experimental Audiology, Otto-von-Guericke University Magdeburg, Leipziger Strasse 44, 39120, Magdeburg, Germany, Tel.: +49 391 6713882, Email: ramona.grzeschik@med.ovgu.de

Günter, Dr. Robert Heinz, Research Centre Jülich, Institute for Neuroscience and Medicine INM-2, Leo-Brandt-Straße, 52428, Jülich, Germany, Tel.: +49 2461 611821, Email: r.guenter@fz-juelich.de

Guerreiro, Patricia Silva, Cell and Molecular Neuroscience Unit, Instituto de Medicina Molecular, Instituto de Fisiologia, Faculdade de Medicin, 1649-028, Lisboa, Portugal, Tel.: +351 965615910 96, Email: psguerreiro@gmail.com

Gundelfinger, Prof. Eckart D., Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393321, Email: gundelfi@LIN-magdeburg.de

Gunszt, Dóra, Department of General Zoology, University of Pécs, Ifjúság street 6., 7624, Pécs, Hungary, Tel.: +36 30 5000717, Email: gunsztdora@gmail.com

Gustav, David, Neurobiology, University of Konstanz, Universitätsstr. 10, 78457, Konstanz, Germany, Tel.: +49 7531 5066, Email: david.gustav@uni-konstanz.de

Guzulaitis, Robertas, Biochemistry and Biophysics, Vilnius University, M.K.Ciurlionio g. 21/27, 03101, Vilnius, Lithuania, Tel.: 622 61471, Email: r.guzulaitis@gmail.com

Haas, Olivia, Computational Neuroscience, Department Biology II, Ludwig-Maximilians-Universität München, Großhaderner Strasse 2, 82152, München, Germany, Tel.: +49 89 218074819, Email: o.haas@campus.lmu.de

Haas, Prof. Carola A., Exp. Epilepsy Research, Universität Freiburg, Breisacher Str. 64, 79106, Freiburg, Germany, Tel.: +49 761 27052950, Email: carola.haas@uniklinik-freiburg.de

Haberkern, Hannah Julia Martina, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 12233 36622, Email: hjmh2@cam.ac.uk

Haenicke, Joachim, Theoretical Neuroscience / Neuroinformatics, Freie Universität Berlin, Königin-Luise-Str. 1-3, 14195, Berlin, Germany, Tel.: +49 30 57291, Email: joachim.haenicke@fu-berlin.de

Härtig, Prof. Wolfgang, Pathophysiology of Neuroglia, Universität Leipzig, Paul-Flechsig-Institute for Brain Research, Jahnallee 59, 04109, Leipzig, Germany, Tel.: +49 341 9725772, Email: wolfgang.haertig@medizin.uni-leipzig.de

Häussler, Ph.D. Ute, Experimental Epilepsy Research, Dept. of Neurosurgery, University of Freiburg, Breisacherstrasse 64, 79106, Freiburg, Germany, Tel.: +49 761 52970, Email: ute.haeussler@uniklinik-freiburg.de

Hage, Ph.D. Steffen R, Animal Physiology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972966, Email: steffen.hage@uni-tuebingen.de

Hagena, Ph.D. Hardy, Abteilung für Neurophysiologie, Ruhr-Universität Bochum, Universitätsstraße 150, 44780, Bochum, Germany, Tel.: +49 234 3224908, Email: hardy.hagena@rub.de

Haid, Désirée, Institute of Physiology, Universität Hohenheim, Garbenstraße 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922267, Email: desi.haid@gmx.de

Hainmüller, Thomas, Institute for Physiology I, Universität Freiburg, Hermann-Herder Str. 7, 79104, Freiburg i.Br., Germany, Tel.: +49 761 20367309, Email: Thomas.Hainmueller@physiologie.uni-freiburg.de

Halfmann, Marc, Cognitive Neuroscience Unit, Dept. of Biology, Universität Tübingen, Auf der Mogenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2973452, Email: marc.halfmann@uni-tuebingen.de

Hallermann, Dr. Stefan, High-frequency Signaling, European Neuroscience Institute Göttingen, Grisebachstr. 5, 37077, Göttingen, Germany, Tel.: +49 551 3913909, Email: s.hallermann@eni-g.de

Handschuh, Juliane, Neurochemistry, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 176 23315064, Email: jhandsch@lin-magdeburg.de

Hanganu-Opatz, Prof. Ileana Livia, ZMNH, Developmental Neurophysiology, Universitätsklinikum Hamburg-Eppendorf, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741058966, Email: hangop@zmnh.uni-hamburg.de

Hanisch, Prof. Uwe-Karsten, Institute of Neuropathology, University of Göttingen, Robert-Koch-Straße 40, 37075, Göttingen, Germany, Tel.: +49 551 396520, Email: ukhanisch@med.uni-goettingen.de

Hansen, Dr. Niels, Department of Neurophysiology, Ruhr-Universität Bochum, Universitätsstrasse 150, 44780, Bochum, Germany, Tel.: +49 234 3227961, Email: niels.hansen@rub.de

Hansmann-Roth, Sabrina, Cognitive Neuroscience, Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: 49 7071 2974604, Email: roth.sabrina@gmx.de

Happel, Dr. Max, Systems Physiology of Learning, Leibniz-Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 94411, Email: mhappel@lin-magdeburg.de

Hardiess, Dr. Gregor, Neurobiology, Cognitive Neuroscience, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2974605, Email: gregor.hardiess@uni-tuebingen.de

Harnack, Daniel, Theoretical Neurophysics, Universität Bremen, Hochschulring 18, 28359, Bremen, Germany, Tel.: +49 421 21862004, Email: daniel@neuro.uni-bremen.de

Harrach, Denise, Department of Anatomy and Cell Biology, Universität Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548673, Email: Harrach@ana.uni-heidelberg.de

Hartfil, Sergej, Institut für Biologie - Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856285, Email: sergej.hartfil@gmail.com

Hartmann, Konstantin, Dept. of Animal Physiology / Institute of Neurobiology, Eberhard Karls Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 170 2764801, Email: konstantin.hartmann@student.uni-tuebingen.de

Hartveit, Prof. Espen, Department of Biomedicine, University of Bergen, Jonas Lies vei 91, N-5009, Bergen, Norway, Tel.: +47 55 586350, Email: espen.hartveit@biomed.uib.no

Hasan, Mohammad Rakibul, Department of Neurology, AG Prof. Hermann, University Hospital Essen, Hufelandstrasse 55, MFZ, 2. OG, R 2.36, 45147, Essen, Germany, Tel.: +49 201 72383551, Email: rakibul@uk-essen.de

Hassanshahi, Jalal, Physiology, Tehran University of Medical Science, Hemmat Street, 7717854811, Tehran, Iran, Tel.: +98 913 2908326, Email: hasanshahij@yahoo.com

Hassenklöver, Dr. Thomas, Neurophysiology and Cellular Biophysics, Universität Göttingen, Humboldtallee 23, 37073, Göttingen, Germany, Tel.: +49 551 399858, Email: thassen@gwdg.de

Hauber, Prof. Wolfgang, Abt. Tierphysiologie, Universität Stuttgart, Pfaffenwaldring 57, 70550, Stuttgart, Germany, Tel.: +49 711 68565003, Email: Hauber@bio.uni-stuttgart.de

Hawlitschka, Dr. Alexander, Institute of Anatomy, University of Rostock, Gertrudenstraße 9, 18055, Rostock, Germany, Tel.: +49 381 4948439, Email: alexander.hawlitschka@uni-rostock.de

Hedwig, Dr. Berthold, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 1223 336603, Email: bh202@cam.ac.uk

Heermann, Dr. Stephan, Department of Molecular Embryology, Institute of Anatomy and Cell Biology, University of Freiburg, Albertstrasse 17, 79104, Freiburg, Germany, Tel.: +49 6221 546496, Email: stephan.heermann@cos.uni-heidelberg.de

Hefft, Ph.D. Stefan Martin, Department of Neurosurgery-Cellular Neurophysiology II, Albert Ludwigs University of Freiburg, Breisacherstr 64, 79106, Freiburg, Germany, Tel.: +49 761 27093120, Email: stefan.hefft@uniklinik-freiburg.de

Hegg, Prof. Colleen Cosgrove, Pharmacology and Toxicology, Michigan State University, 1355 Bogue St, 48824, East Lansing, USA, Tel.: +1 517 4322339, Email: hegg@msu.edu

Heil, Ph.D. Peter, Auditory Learning and Speech, Leibniz Institute for Neurobiology, Brenneckestrasse 6, 39118, Magdeburg, Germany, Tel.: +49 391 626394441, Email: peter.heil@lin-magdeburg.de

Heindorff, Dr. Kristoffer, Department of Physiology, Universität des Saarlandes - School of Medicine, Kirrberger Str. - Building 45.2, 66421, Homburg, Germany, Tel.: +49 6841 1626576, Email: Kristoffer.Heindorff@uks.eu

Heine, Dr. Martin, Research Group Molecular Physiology, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393361, Email: martin.heine@lin-magdeburg.de

Heinemann, Dr. Christian, Dr. Schulze GmbH, HEKA Elektronik, Wiesenstraße 71, 67466, Lambrecht, Germany, Tel.: +49 6325 955350, Email: sales@heka.com

Heinrich, Prof. Ralf, Dept. of Cellular Neurobiology, Georg-August-Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177958, Email: rheinri1@gwdg.de

Helias, Dr. Moritz, Institute of Neuroscience and Medicine (INM-6), Jülich Research Center, Wilhelm-Johnen-Str., 52425, Jülich, Germany, Tel.: +49 2461 619467, Email: m.helias@fz-juelich.de

Hellbach, Nicole, Department Molecular Embryology, Albert-Ludwigs-Universität Freiburg, Institute of Anatomy and Cell Biology, Albertstraße 17, 79104, Freiburg, Germany, Tel.: +49 761 2036464, Email: nb1007@anat.uni-freiburg.de

Hellekes, Dr. Katja, Department of Animal Physiology, Biocenter, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4703133, Email: katja.hellekes@uni-koeln.de

Helms, Ph.D. Gunther, Dept. of Cognitive Neurology, Göttingen University Medical Centre, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 3913132, Email: ghelms@gwdg.de

Henkel, Bastian, AG Neuhaus, Charité Berlin, Cluster of Excellence Neurocure, Charitéplatz1, 10117, Berlin, Germany, Tel.: +49 30 450539769, Email: Bastian.Henkel@charite.de

Henninger, Jörg, Neuroethology, Ludwig-Maximilians-Universität München, Großhaderner Str. 2, 81541, Planegg-Martinsried, Germany, Tel.: +49 89 218074807, Email: henninger@bio.lmu.de

Henrich-Noack, Dr. Petra, Institut of Medical Psychology, Otto-von-Guericke University, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6721806, Email: petra.henrich-noack@med.ovgu.de

Henschke, Julia, Auditory Learning and Speech, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626395431, Email: Julia.Henschke@lin-magdeburg.de

Henseler, Christina, Cellular and Systemic Neurophysiology, Bundesinstitut für Arzneimittel und Medizinprodukte, Kurt-Georg-Kiesinger-Allee 3, 53175, Bonn, Germany, Tel.: +49 228 99307573, Email: christina.henseler@bfarm.de

Hermann, Sebastian, AG Neurobiology, Universität Oldenburg, Carl-von-Ossietzky-Straße 9-11, 26129, Oldenburg, Germany, Tel.: +49 441 7983202, Email: sebastianj.hermann@gmx.de

Herold, Dr. Sabine, Neurology, Universitätsmedizin Göttingen, Robert-Koch-Straße 40, 37075, Göttingen, Germany, Tel.: +49 551 3912837, Email: sabine.herold@med.uni-goettingen.de

Herrmann, Ulrike, Zoological Institute, Department Cellular Neurobiology, TU-Braunschweig, Spielmannstr. 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913227, Email: ulrike.herrmann@tu-bs.de

Herrmann, Dr. J. Michael, Institute for Perception, Action and Behaviour, University of Edinburgh, 10 Crichton St, EH10 4Er, Edinburgh, United Kingdom, Tel.: +44 131 6517177, Email: michael.herrmann@ed.ac.uk

Hertel, Dr. Nicole, Institute of Anatomy I, Jena Universitätsklinkum, Teichgraben 7, 07743, Jena, Germany, Tel.: +49 3641 938540, Email: Nicole.Hertel@mti.uni-jena.de

Herz, Prof. Andreas, Bernstein Center for Computational Neuroscience, Ludwig-Maximilians-Universität München, Großhaderner Straße 2, 82152, Martinsried, Germany, Tel.: +49 89 218074801, Email: herz@bio.lmu.de

Hesse, Janina, Institute for Theoretical Biology, HU Berlin, BCCN Berlin, Invalidenstr. 43, 10115, Berlin, Germany, Tel.: +49 30 20938838, Email: janina.hesse@bccn-berlin.de

Higgs, Ph.D. Matthew Henry, Neurology, Veterans Affairs Puget Sound Health Care System, 1660 S. Columbian Way, WA 98108, Seattle, USA, Tel.: +1 206 8590415, Email: higgsm@uw.edu

Hildebrandt, Prof. Herbert, Cellular Chemistry (OE4330), Hannover Medical School, Carl-Neuberg-Str. 1, 30625, Hannover, Germany, Tel.: +49 511 5329808, Email: hildebrandt.herbert@mh-hannover.de

Hilgen, Dr. Gerrit, Computational Neuroscience, Universität Oldenburg, Carl-von-Ossietzky-Str. 9-11, 26111, Oldenburg, Germany, Tel.: +49 441 7983316, Email: gerrit.hilgen@uni-oldenburg.de

Hillmann, Julia, AG Theoretische Neurowissenschaften, MPI für Experimentelle Medizin, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899497, Email: furche@em.mpg.de

Himmelreich, Sophie, Institute for Cell- and Neurobiology, Goethe Universität Frankfurt, Max-von-Laue-Straße 13, 60438, Frankfurt, Germany, Tel.: +49 6171 21278, Email: himmelreich@bio.uni-frankfurt.de

Hinchliffe, David, Zentrale Biotechnische Betriebseinheit, Justus-Liebig Universität Gießen, Leihgesterner Weg 217, 35392, Gießen, Germany, Tel.: +49 641 9916507, Email: david.hinchliffe@zbb.uni-giessen.de

Hirnet, Dr. Daniela, Neurophysiology, Biocentre Grindel, Universität Hamburg, Martin-Luther-King Platz, 20146, Hamburg, Germany, Tel.: +49 40 428383872, Email: daniela.hirnet@uni-hamburg.de

Hirrlinger, Dr. Johannes, Carl-Ludwig-Institute for Physiology, Universität Leipzig, Liebigstr. 27, 04103, Leipzig, Germany, Tel.: +49 341 9715891, Email: johannes.hirrlinger@medizin.uni-leipzig.de

Hock, Stefan W., AG Neurooncology, Department of Neurosurgery (Universitätsklinik Erlangen-Nürnberg), Schwabachanlage 6, 91054, Erlangen, Germany, Tel.: +49 9131 8534315, Email: stefan.hock@uk-erlangen.de

Hofer, Dr. Sabine, Biomedizinische NMR Forschungs GmbH, Max-Planck-Institut für biophysikalische Chemie, Am Fassberg 11, 37070, Göttingen, Germany, Tel.: +49 551 2011735, Email: shofer1@gwdg.de

Hoffmann, Dr. Michael B., Opthalmology - Visual Processing Laboratory, Otto-von-Guericke-University, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6713585, Email: michael.hoffmann@med.ovgu.de

Hoffmann, Dr. Kerstin, AGF, Universität Göttingen, German Primate Center Göttingen, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851135, Email: kplassmann@cnl-dpz.de

Hoffmann, Dr. Susanne, Biologie II, Ludwig-Maximilians Universität, Grosshaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074308, Email: hoffmann@bio.lmu.de

Hoffmann, Almut, Animal Physiology, Institute of Neurobiology, Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972623, Email: almut.hoffmann@ntz.de

Hofmann, M.Sc. David, Nonlinear Dynamics Group, Max-Planck Institute for Dynamics and Self-Organization, Am Fassberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176417, Email: david@nld.ds.mpg.de

Hollmann, Christina, AG Sigrist, Freie Universität Berlin, Takustraße 6, 14195, Berlin, Germany, Tel.: +49 30 83856947, Email: hollmanc@zedat.fu-berlin.de

Holthoff, Prof. Knut, Hans-Berger-Klinik für Neurologie, Friedrich-Schiller-Universität, Universitätsklinikum Jena, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 323418, Email: knut.holthoff@med.uni-jena.de

Homberg, Dr. Judith R., Department of Cognitive Neuroscience, Donders Institute for Brain, Cognition, and Behaviour, Geert Grooteplein 21, 6525 EZ, Nijmegen, Netherlands, Tel.: +31 24 3610906, Email: j.homberg@cns.umcn.nl

Homberg, Prof. Uwe, Faculty of Biology, Universität Marburg, Karl-von-Frisch-Strasse 8, 35032, Marburg, Germany, Tel.: +49 6421 2823402, Email: homberg@biologie.uni-marburg.de

Horschitz, Dr. Sandra, Department of Psychiatry, Central Institute of Mental Health, J5, 68159, Mannheim, Germany, Tel.: +49 621 17032906, Email: sandra.horschitz@zi-mannheim.de

Housley, Ph.D. Gary D., Physiololgy and Translational Neuroscience, University of New South Wales, School of Medical Sciences, UNSW Kensington C, NSW 2052, Sydney, Australia, Tel.: +61 2 93851057, Email: g.housley@unsw.edu.au

Hoyo Becerra, Dr. Carolina, Gastroenterology and Hepatology, Universitätsklinik Essen, Hufelandstrasse, 55 (MFZ), 45122, Essen, Germany, Tel.: +49 201 7236015, Email: carolina.hoyo-becerra@uni-due.de

Hrncic, M.D. Dragan, Institute of Medical Physiology, Belgrade University Faculty of Medicine, Visegradksa 26/II, 11000, Belgrade, Serbia Montenegro, Tel.: +381 11 3607085, Email: drhrncic@yahoo.com

Huang, Xiaojie, Molecular Neurobiology, European Neuroscience Institute Göttingen, Grisebachstrasse 5, 37077, Göttingen, Germany, Tel.: +49 176 27648846, Email: x.huang@eni-g.de

Huber Brösamle, Dr. Andrea B., Institute of Developmental Genetics, Helmholtz Zentrum München, Ingolstädter Landstr. 1, 85764, Neuherberg, Germany, Tel.: +49 89 31874117, Email: andrea.huber@helmholtz-muenchen.de

Hübner, Cora, AG Ehrlich, HIH/CIN, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2988858, Email: cora.huebner@cin.uni-tuebingen.de

Huerta, Ph.D. Ramon, BioCircuits Institute, University of California San Diego, 9500 Gilman Dr, CA 92101, San Diego, USA, Tel.: +1 858 5341942, Email: rhuerta@ucsd.edu

Hummel, Prof. Thomas, Department of Neurobiology, University of Vienna, Althanstr. 14, 1090, Vienna, Austria, Tel.: +43 4277 56500, Email: thomas.hummel@univie.ac.at

Hustert, Dr. Reinhold, JFB-Institut f. Zoologie, Neurobiologie, Sensomotorik, Georg-August-Universität Göttingen, Berliner Str. 28, 37073, Göttingen, Germany, Tel.: +49 551 395436, Email: rhuster@gwdg.de

Icheln, Dr. Bärbel, CEO, PeproTech GmbH, Oberaltenallee 8, 22081, Hamburg, Germany, Tel.: +49 40 734357770, Email: ndanzenbaecher@peprotech.de

Ignatious Raja, Jennifer Sinthiya, Department of Biology, Universität Konstanz, Universitätsstraße 10, 78457, Konstanz, Germany, Tel.: +49 152 13469345, Email: jennifer.ignatious-raja@uni-konstanz.de

Ihrke, Dr. Matthias, Theoretical Neuroscience, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899497, Email: ihrke@nld.ds.mpg.de

Ikegaya, Ph.D. Yuji, Grad School of Pharmaceutical Sciences, The University of Tokyo, 7-3-1 Hongo, 113-0033, Bunkyo-ku, Japan, Tel.: +81 3 58414783, Email: ikegaya@mol.f.u-tokyo.ac.jp

Imbrosci, Ph.D. Barbara, Institute of Physiology and Pathophysiology, University of Mainz, Duesbergweg 6, 55128, Mainz, Germany, Tel.: +49 6131 3925715, Email: barbara.imbrosci@googlemail.com

in t Veld, Rijk Willem, Neurobiology, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 1573 7637073, Email: rintveld@dpz.eu

Iobbi, Cristina, Neurobiology Department, TU Braunschweig - Zoological Institute, Spielmannstrasse 7, 38106, Braunschweig, Germany, Tel.: +49 176 98225689, Email: cristina.iobbi@gmail.com

Issa, Lina, Center for Anatomy, Charité-Universitätsmedizin Berlin, Institute of Cell Biology and Neurobiology, Philippstr. 12, 10115, Berlin, Germany, Tel.: +49 30 450528429, Email: lina.issa@charite.de

Isstas, Marcel, Institut für Allgemeine Zoologie und Tierphysiologie, Friedrich-Schiller-Universität Jena, Erbertstrasse 1, 07743, Jena, Germany, Tel.: +49 3641 323506, Email: marcel.isstas@uni-jena.de

Ivashkin, Evgeny G., Comparative Physiology, Institute of Developmental Biology RAS, Vavilov str., 26, 119991, Moscow, Russia, Tel.: +7 926 6688340, Email: veliger@ya.ru

Jacob, Joaquim Pedro, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 1223 769013, Email: jpfj2@cam.ac.uk

Jaehde, Philipp, Department of Cellular Neurobiology, Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177962, Email: pjaehde@gwdg.de

Jancke, Prof. Lutz, Neuropsychology, University Zurich, Binzmuhlestrasse 14, 8050, Zürich, Switzerland, Tel.: +41 44 6357401, Email: lutz.jaencke@uzh.ch

Jancke, Dr. Dirk, Institut für Neuroinformatik, Ruhr-University Bochum, NB 2/27, 44780, Bochum, Germany, Tel.: +49 234 3227845, Email: dirk.jancke@rub.de

Janova, Hana, Neuropathologie, Universitätmedizin Göttingen, Robert-Koch-Straße 40, 37075, Göttingen, Germany, Tel.: +49 551 398468, Email: hana.janova@med.uni-goettingen.de

Jastorff, Dr. Jan, Neurophysiology, KU Leuven, Herestraat 49, bus 1021, 3000, Leuven, Belgium, Tel.: +321 6 330208, Email: jan.jastorff@med.kuleuven.be

Jauch, Dr. Mandy, Molecular Neurobiology of Behavior, Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177926, Email: mjauch@gwdg.de

Jaumann, Dr. Mirko, THRC, Universität Tübingen, Elfriede-Aulhorn-Str. 5, 72076, Tübingen, Germany, Tel.: +49 7071 2988184, Email: mirko.jaumann@gmail.com

Jendryke, Thomas, LS: Zellphysiologie, Ruhr-Universität Bochum, Universitätsstrasse 150 ND4, 44780, Bochum, Germany, Tel.: +49 2343 227930, Email: thomas@jendryke.de

Jin, Nanxiang, Neurobiology, Institut für Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28-30, 14195, Berlin, Germany, Tel.: +49 30 83856283, Email: neil.jnx@163.com

Joachim, Dr. Stephanie C., Experimental Eye Research Institute, Ruhr University Eye Hospital, In der Schornau 23-25, 44895, Bochum, Germany, Tel.: +49 2345 2993156, Email: stephanie.joachim@rub.de

Jochner, Magdalena CE, Experimental and Physiological Psychology, Philipps-Universität Marburg, Gutenbergstr. 18, 35032, Marburg, Germany, Tel.: +49 176 30468041, Email: jochner@students.uni-marburg.de

Joerk, Alexander, Universitätsklinikum Jena, Hans-Berger-Klinik für Neurologie, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325911, Email: alexander.joerk@med.uni-jena.de

Jois, Shreyas Venkataraman, Animal Physiology, Universität Köln, Zoological Institute, Zülpicher Strasse 47b, 50674, Köln, Germany, Tel.: +49 221 4708071, Email: joisshreyasv@yahoo.co.in

Joly, Dr. Marine, Institute of Zoology, University of Veterinary Medicine Hannover, Buenteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538424, Email: marine.joly@tiho-hannover.de

Jordan, Julia, Neurowissenschaftliches Forschungszentrum - AG Rosenmund, Charité Berlin, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450639, Email: julia.jordan@charite.de

Jordan, Jakob, Institute for Neuroscience and Medicine (INM-6), Computational and Systems Neuro, Jülich Research Center, Leo-Brandt-Straße, 52428, Jülich, Germany, Tel.: +49 2461 619471, Email: j.jordan@fz-juelich.de

Jüngling, Dr. Kay, Institut für Physiologie I, Westfälische Wilhelms-Universität, Robert-Koch-Str. 27a, 48149, Münster, Germany, Tel.: +49 251 8355553, Email: kay.juengling@gmx.de

Junca, Ph.D. Pierre, LEGS (Laboratoire Evolution, Génome et Spéciation), CNRS, avenue de la terrasse, 91198, Gif-sur-Yvette, France, Tel.: +331 6982 3752, Email: pierre.junca@legs.cnrs-gif.fr

Jungnickel, Roswitha, Genetics of Learning and Memory, LIN-Leibniz Institute for Neurobiology Magdeburg, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626392241, Email: roswitha.jungnickel@lin-magdeburg.de

Kafitz, Dr. W. Karl, Institute of Neurobiology, Heinrich-Heine-University, Universitätsstr. 1, 40225, Düsseldorf, Germany, Tel.: +49 211 8113486, Email: kafitz@uni-duesseldorf.de

Kaila, Prof. Kai K., Department of Biosciences, University of Helsinki, P.O.Box 65 (Viikinkaari 1), 00014, Helsinki, Finland, Tel.: +358 9 19159860, Email: kai.kaila@helsinki.fi

Kalamakis, Georgios, Physiology II Institute, Universität Tübingen, Fichtenweg 15, 72076, Tübingen, Germany, Tel.: +49 7071 2973640, Email: kala968@hotmail.com

Kalil, Ph.D. Katherine, Department of Neuroscience, University of Wisconsin-Madison, 1300 University Ave., 53706, Madison, Wisconsin, USA, Tel.: +1 608 2628902, Email: kakalil@facstaff.wisc.edu

Kaminiarz, Dr. Andre, Neurophysik, Philipps-Universität Marburg, Karl-von-Frisch-Strasse 8a, 35043, Marburg, Germany, Tel.: +49 6421 2825683, Email: andre.kaminiarz@physik.uni-marburg.de

Kanai, Ph.D. Ryota, School of Psychology, University of Sussex, Pevensey Building, BN1 9QH, Falmer, United Kingdom, Tel.: +44 1273 876638, Email: r.kanai@sussex.ac.uk

Kann, Prof. Oliver, Physiology and Pathophysiology, Universität Heidelberg, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544560, Email: oliver.kann@physiologie.uni-heidelberg.de

Kardinal, Mareike, Bernstein Coordination Site (BCOS), University of Freiburg, Hansastr. 9A, 79104, Freiburg, Germany, Tel.: +49 761 2039593, Email: mareike.kardinal@bcos.uni-freiburg.de

Karlowatz, Dr. Manfred, Sales Dept., TOPTICA Photonics AG, Lochhamer Schlag 19, 82166, Graefelfing, Germany, Tel.: +49 89 858370, Email: manfred.karlowatz@toptica.com

Karsai, Gergely, Department of General Zoology, University of Pécs, Ifjúság u. 6, 7668, Pécs, Hungary, Tel.: +36 30 5540454, Email: szalonszalon@hotmail.com

Kaupert, Ursula, Exzellenzcluster Neurocure Kognitive Neurobiologie, Humboldt Universität Berlin, Dorotheenstr. 96, 10117, Berlin, Germany, Tel.: +49 30 450539737, Email: ursula.kaupert@gmx.de

Keegan, Ph.D. Jemma Louise, Neuralynx Europe, Neuralynx, Hilton House, 3 Ardee Road, Rathmines, D.6, Dublin, Ireland, Tel.: +353 1 6853455, Email: jkeegan@neuralynxeurope.com

Keller, Martin, AG Draguhn, Institut für Physiologie und Pathophysiologie, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544064, Email: susanne.reichinnek@gmx.de

Kellner, Christian Johannes, Computational Neuroscience, Ludwig-Maximilians-Universität München, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074819, Email: kellner@bio.lmu.de

Kellner, Yves, Zoological Institute, Div. Cellular Neurobiology, TU Braunschweig, Spielmannstr. 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913185, Email: y.kellner@tu-bs.de

Kelly Pérez, Ph.D. Ismael, Institute for Ophthalmic Research, Universität Tübingen, Frondsbergstrasse 23, 72070, Tübingen, Germany, Tel.: +49 7071 2984765, Email: ismael.kelly.perez@gmail.com

Kemmler, Robin, Ophthalmic Research, Centre for Integrative Neuroscience, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2985029, Email: robin.kemmler@gmx.net

Kempter, Prof. Richard, Institute for Theoretical Biology, Humboldt-Universität zu Berlin, Invalidenstr. 43, 10115, Berlin, Germany, Tel.: +49 30 20938925, Email: r.kempter@biologie.hu-berlin.de

Kerr, Ph.D. Jason ND, Network Imaging Group, Max Planck Institute for Biological Cybernetics, Spemannstrasse 41, 72076, Tuebingen, Germany, Tel.: +49 7071 6011721, Email: jason@tuebingen.mpg.de

Kerschbaum, Prof. Hubert H., Department Cell Biology, University of Salzburg, Hellbrunnerstr. 34, 5020, Salzburg, Austria, Tel.: +43 662 80445667, Email: Hubert.Kerschbaum@sbg.ac.at

Kettenmann, Prof. Helmut, Celluläre Neurowissenschaften, Max-Delbrück-Centrum für Molekulare Medizin, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94062806, Email: kettenmann@mdc-berlin.de

Keyser, Johannes, Institute of Cognitive Science, Neurobiopsychology, Universität Osnabrück, Albrechtstraße 28, 49076, Osnabrück, Germany, Tel.: +49 541 9693532, Email: jkeyser@uos.de

Khadimallah, Ines, Department of Fundamental Neurosciences, University of Lausanne, Rue de Bugnon 9, 1005, Lausanne, Switzerland, Tel.: +41 21 6925134, Email: ines.khadimallah@unil.ch

Khani, Mohammad Hossein, Department of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 176 32804207, Email: mohammad.khani@med.uni-goettingen.de

Kilias, Antje, Department of Microsystems Engineering – IMTEK, Laboratory for Biomicrotechnology, Universität Freiburg, Georges-Köhler-Allee 102, 79110, Freiburg, Germany, Tel.: +49 761 2037523, Email: kilias@bcf.uni-freiburg.de

Kirchhoff, Prof. Frank, Molecular Physiology, University of Saarland, Building 58, 66424, Homburg, Germany, Tel.: +49 151 16732156, Email: frank.kirchhoff@uks.eu

Kirkerud, Nicholas Hagen, Neurobiology, AG Galizia, Universität Konstanz, Universitätsstraße 10, 78457, Konstanz, Germany, Tel.: +49 7531 885066, Email: nicholas.kirkerud@uni-konstanz.de

Kirmse, Knut, AG BioImaging, Hans-Berger-Klinik für Neurologie, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325998, Email: knut.kirmse@med.uni-jena.de

Kirsch, Dr. Janina, Bernstein Center Freiburg, University of Freiburg, Hansastr. 9a, 79104, Freiburg, Germany, Tel.: +49 761 2039575, Email: kirsch@bcf.uni-freiburg.de

Kittelmann, Maike, Cellular Neurobiology, Schwann-Schleiden-Centre, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177962, Email: mkittel@gwdg.de

Klein, Adrian, Institute of Zoology, Universität Bonn, Poppelsdorfer Schloss, 53115, Bonn, Germany, Tel.: +49 228 735474, Email: adrian@uni-bonn.de

Klemen, Ph.D. Jane, Department of Opthalmology, Visual Processing Lab, Otto-von-Guericke-University Magdeburg, Leipzigerstr. 44, 39120, Magdeburg, Germany, Tel.: +49 391667 21722, Email: jane.klemen@med.ovgu.de

Klenerova, Prof. Vera, Neuropharmacology, Charles University of Prague, 1st faculty of Medicine, Albertov 4, 128 00, Prague 2, Czech Republic, Tel.: +42 604790885, Email: vera.klenerova@LF1.cuni.cz

Klietz, Martin, Molecular Neuroscience, Universität Marburg, Anatomy and Cell Biology, Robert-Koch-Str. 8, 35037, Marburg, Germany, Tel.: +49 171 5268850, Email: martklietz@web.de

Klimaschewski, Prof. Lars, Division of Neuroanatomy, Medical University Innsbruck, Müllerstrasse 59, 6020, Innsbruck, Austria, Tel.: +43 512 900371160, Email: lars.klimaschewski@i-med.ac.at

Klingenhoefer, Ph.D. Steffen, Dept. Neurophysics, Philipps-Universität Marburg, Karl-von-Frisch-Str. 8a, 35043, Marburg, Germany, Tel.: +49 6421 2824115, Email: steffen.klingenhoefer@physik.uni-marburg.de

Klinner, Christian, Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Straße 8, D-07745, Jena, Germany, Tel.: +49 3641 571413, Email: cklinner@ice.mpg.de

Klippenstein, Viktoria, Molecular Neuroscience and Biophysics, Leibniz-Institut Für Molekulare Pharmakologie & Neurocure Initiative, Charité, TRH, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94062817, Email: klippenstein@fmp-berlin.de

Klopfer, Georg, General Manager, HiSS Diagnostics GmbH, Güterhallenstr. 3, 79106, Freiburg, Germany, Tel.: +49 761 389490, Email: hiss@hiss-dx.de

Klucken, Jochen, Department of Molecular Neurology, University Hospital Erlangen, Schwabachanlage 6, 91054, Erlangen, Germany, Tel.: +49 9131 8539324, Email: jochen.klucken@uk-erlangen.de

Klüger, Anne, Marketing, neuroConn GmbH (exhibitor), Grenzhammer 10, 98693, Ilmenau, Germany, Tel.: +49 3677 6897922, Email: anne.klueger@neuroconn.de

Klyueva, Ph.D. Yulia, Neurochemistry, Leibniz Institute für Neurobiologie, Brenneckestrasse 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393181, Email: yklyueva@lin-magdeburg.de

Knipper, Prof. Marlies, Molecular Physiology of Hearing, Universität Tübingen, Elfriede-Aulhorn-Str. 5, 72076, Tübingen, Germany, Tel.: +49 7071 2988244, Email: marlies.knipper@uni-tuebingen.de

Kobbenbring, Simon, Molecular Neurobiology of Behavior, Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177928, Email: skobben@gwdg.de

Koch, Sarah, Neuroethology, Universität Konstanz, Universitätsstr. 10, 78464, Konstanz, Germany, Tel.: +49 7531 883052, Email: Sarah.Koch@uni-konstanz.de

König, Dr. Sabine Ursula, Institute for Neurobiopsychology, Universität Osnabrück, Albrechtstr. 28, 49076, Osnabrück, Germany, Tel.: +49 541 9693532, Email: sabkoeni@uos.de

Koenig, Christopher, Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knoell-Strasse 8, 07745, Jena, Germany, Tel.: +49 3641 571460, Email: ckoenig@ice.mpg.de

Koenig, Sebastian, AG Heisenberg, Rudolf-Virchow-Center, Universität Würzburg, Josef-Schneider-Str. 2, 97080, Würzburg, Germany, Tel.: +49 931 3186683, Email: sebastian.koenig@virchow.uni-wuerzburg.de

Könnecke, Birte, University of Medicine, Department of Neurology, Georg-August-Universität, Robert-Koch-Str. 40, 37073, Göttingen, Germany, Tel.: +49 551 3912837, Email: bkoenne@gwdg.de

Körber, Dr. Christoph, Institute of Anatomy and Cell Biology, Universität Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548630, Email: koerber@ana.uni-heidelberg.de

Koester, Prof. Reinhard Wolfgang, Zoological Institute, TU Braunschweig, Spielmannstrasse 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913230, Email: r.koester@tu-bs.de

Kohler, Ph.D. Axel, Institute of Psychology, University of Münster, Fliednerstr. 21, 48149, Münster, Germany, Tel.: +49 251 8334181, Email: axel.kohler@uni-muenster.de

Kohmann, Denise, Institut für Physiologie I, Westfälische Wilhems-Universität Münster, Robert-Koch-Str. 27a, 48149, Münster, Germany, Tel.: +49 251 8355531, Email: kohmann@uni-muenster.de

Kollert, Sina, AG Molekulare Elektrophysiologie, Universität Würzburg, GK Emotions c/o Universitätsfrauenklinik, Josef-Schneider-Str. 4, 97080, Würzburg, Germany, Tel.: +49 931 20177535, Email: E_Kollert_S@klinik.uni-wuerzburg.de

Kollmann, Martin, Animal Physiology, Philipps-Universität Marburg, Karl-von-Frisch-Straße 8, D-35043, Marburg, Germany, Tel.: +49 6421 23475, Email: Kollmann@students.uni-marburg.de

Kolodziej, Dr. Angela, Systems Physiology of Learning, Leibniz Institute of Neurobiology, Brenneckestraße 6, 39108, Magdeburg, Germany, Tel.: +49 391 626394441, Email: angela.kolodziej@lin-magdeburg.de

Korotchenko, Svetlana, Department of Neurodynamics and Neurobiology, Nizhny Novgorod State University, Gagarin st. 23, 603950, Nizhny Novgorod, Russia, Tel.: +7 910 8897348, Email: svetlana_neuron@mail.ru

Korotkova, Ph.D. Tatiana, Behavioural Neurodynamics, Leibniz-Institut für Molekulare Pharmakologie (FMP)/NeuroCure Exzellenzcluster, Charité Campus Mitte, Charitéplatz 1; Intern:, 10117, Berlin, Germany, Tel.: +49 30 450539764, Email: korotkova@fmp-berlin.de

Korsching, Prof. Sigrun I., Biocenter, Universität Köln, Institute of Genetics, Zülpicher Str. 47a, 50674, Köln, Germany, Tel.: +49 221 4704843, Email: skorsching@googlemail.com

Kovalchuk, Dr. Yury, Physiology II, Universität Tübingen, Keplerstr. 15, 72074, Tübingen, Germany, Tel.: +49 7071 2973646, Email: y.kovalchuk@medizin.uni-tuebingen.de

Kowalski, Maria, Rudolf-Boehm-Institut für Pharmakologie und Toxikologie, Universität Leipzig, Härtelstraße 16-18, 04107, Leipzig, Germany, Tel.: +49 341 9724631, Email: Maria.Kowalski@medizin.uni-leipzig.de

Kozyrev, Dr. Vladislav, Real-time Optical Imaging Group, Institut für Neuroinformatik, Ruhr-Universität Bochum, Geb. NB2/26, Universitätsstr.150, 44780, Bochum, Germany, Tel.: +49 234 3227978, Email: vladislav.kozyrev@ini.ruhr-uni-bochum.de

Krämer, Dr. Nadine, Institute of Cell Biology and Neurobiology and Department of Pediatric Neurology, Charité - Universitätsmedizin Berlin, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450528429, Email: nadine.kraemer@charite.de

Krause, Tammo, Zoology Neurobiology, Johannes Gutenberg Universität Mainz, Colonel-Kleinmannweg 2, 55099, Mainz, Germany, Tel.: +49 6131 3922468, Email: krauset@uni-mainz.de

Krause, Dr. E. Tobias, Department of Animal Behaviour, Universität Bielefeld, Morgenbreede 45, 33615, Bielefeld, Germany, Tel.: +49 521 1062841, Email: tobias.krause@uni-bielefeld.de

Kreissl, Dr. Sabine, Biology, Universität Konstanz, M624, 78457, Konstanz, Germany, Tel.: +49 7531 882106, Email: s.kreissl@uni-konstanz.de

Krejczy, Magda, Institute of Cell - and Neurobiology, Charite, Philippstr. 12, 10115, Berlin, Germany, Tel.: +49 30 450528323, Email: magda.krejczy@charite.de

Kremkow, Ph.D. Jens, Department of Biological Sciences, State University of New York (SUNY-Optometry), 33 West 42nd St, 10036, New York, USA, Tel.: +1 347 2253906, Email: jens@kremkow.info

Krempler, Katja, Universitätsklinikum Jena, Hans-Berger-Klinik für Neurologie, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325911, Email: katja.krempler@med.uni-jena.de

Kretzberg, Dr. Jutta, Computational Neuroscience, Universität Oldenburg, Carl-von-Ossietzky-Str. 9-11, 26129, Oldenburg, Germany, Tel.: +49 441 7983314, Email: jutta.kretzberg@uni-oldenburg.de

Krieger, Ph.D. Jürgen, Institute of Physiology, Universität Hohenheim, Garbenstr. 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922265, Email: juergen.krieger@uni-hohenheim.de

Krippner, Matthias, Physik Department, T35, TU München, James-Franck-Straße, 85748, Garching, Germany, Tel.: +49 89 28912380, Email: matthias.krippner@ph.tum.de

Krishnamoorthy, Vidhyasankar, Department of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3991248, Email: krishna@med.uni-goettingen.de

Kröcher, Tim, Cellular Chemistry, Hannover Medical School, Carl-Neuberg-Str. 1, 30625, Hannover, Germany, Tel.: +49 511 5325210, Email: kroecher.tim@mh-hannover.de

Kromer, Thomas, Neuropsychiatry, Münsterklinik Zwiefalten, Hauptstraße 9, 88529, Zwiefalten, Germany, Tel.: +49 7371 4196, Email: thomas.kromer@t-online.de

Kucharíková, Dr. Andrea, Institute of neurobiology, Slovak Academy of Sciences, Šoltésovej 4-6, 04001, Košice, Slovakia, Tel.: +42 55 6785069, Email: kucharikova@saske.sk

Kühn, Sandra, Experimental Eye Research Institute, Ruhr-Universität Bochum, Knappschaftskrankenhaus, In der Schornau 23-25, 44892, Bochum, Germany, Tel.: +49 234 2993157, Email: sandra.kuehn@rub.de

Kühn, Norma, Dept. of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 399081, Email: norma.kuehn@med.uni-goettingen.de

Künzel, Dr. Thomas, Institute for Biology II, Department of Zoology/Animal Physiology, RWTH Universität Aachen, Lukasstrasse 1, 52070, Aachen, Germany, Tel.: +49 241 8024852, Email: kuenzel@bio2.rwth-aachen.de

Kuklan, Jonas, Lehrstuhl für Zellphysiologie, Ruhr-Universität Bochum, Universitätsstr. 150, 44801, Bochum, Germany, Tel.: +49 234 3228841, Email: jonas.kuklan@rub.de

Kulkarni, Manoj Mohan, Centre for Ophthalmology, Centre for Integrative Neuroscience, Röntgenweg 11, 72076, Tübingen, Germany, Tel.: +49 7071 2984781, Email: manoj.kulkarni@uni-tuebingen.de

Kullmann, Dr. Jan, Neurobiology/Neurophysiology, TU Kaiserslautern, Erwin-Schrödinger-Str. 13, 67663, Kaiserslautern, Germany, Tel.: +49 631 2055442, Email: jankullm@rhrk.uni-kl.de

Kummer, Michael, Hans Berger Department of Neurology, Jena University Hospital, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325911, Email: Michael.Kummer1@med.uni-jena.de

Kunkel, Susanne, Institute of Neuroscience and Medicine (INM-6), Computational and Systems Neuros, Research Center Jülich, Wilhelm-Johnen-Straße, 52425, Jülich, Germany, Tel.: +49 2461 619467, Email: kunkel@fz-juelich.de

Kuntz, Sara, Department of Zoology III - Neurobiology, Johannes Gutenberg-University Mainz, Col.-Kleinmann Weg 2, 55099, Mainz, Germany, Tel.: +49 6131 3927264, Email: kuntzs@uni-mainz.de

Kunz, Dr. Lars, Division of Neurobiology, Department Biology II, Universität München, Grosshaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074299, Email: Lars.Kunz@bio.lmu.de

Kurt, Ph.D. Simone, Institute of Neurobiology, Universität Ulm, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel.: +49 731 5022648, Email: simone.kurt@uni-ulm.de

Kuznetsova, Tatiana, NBT (Neuroscience and Brain Technology), Italian Institute of Technology (IIT), Via Morego, 30, 16163, Genova, Italy, Tel.: +39 10 71781513, Email: tatiana.kuznetsova@iit.it

Kyereme, Jessica, Department of Cell Physiology, Ruhr-Universität Bochum, Universitätsstr. 150, 44780, Bochum, Germany, Tel.: +49 234 3225839, Email: Jessica.Kyereme@rub.de

Lévi, Ph.D. Sabine, Institut du Fer à Moulin, INSERM UMR839, 17 rue du Fer à Moulin, 75005, Paris, France, Tel.: +331 01 45876119, Email: sabine.levi@inserm.fr

Lagnado, Ph.D. Leon, Neurobiology Division, MRC Laboratory of Molecular Biology, Hills Road, CB2 0QH, Cambridge, United Kingdom, Tel.: +44 1223 402177, Email: ll1@mrc-lmb.cam.ac.uk

Lakes-Harlan, Prof. Reinhard, Integrative Sensory Physiology, Institute of Animal Physiology, Heinrich-Buff-Ring 26, 35392, Gießen, Germany, Tel.: +49 641 9935270, Email: reinhard.lakes-harlan@uni-giessen.de

Lampl, Prof. Ilan, Neurobiology, Weizmann Institue of Science, 234 Hertzel st., 76100, Rehovot, Israel, Tel.: +972 8 9343179, Email: ilan.lampl@weizmann.ac.il

Lancier, Stephan, Cognitive Neuroscience, Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2973452, Email: stephan.lancier@uni-tuebingen.de

Lange, None Dirk, Exhibitor, Intelligent Imaging Innovations GmbH, Königsallee 9-21, 37081, Göttingen, Germany, Tel.: +49 551 50839266, Email: 3ieurope@intelligent-imaging.com

Langlhofer, Georg, AG Villmann, Institute for Clinical Neurobiology, Versbacherstrasse 5, 97078, Würzburg, Germany, Tel.: +49 931 20144036, Email: E_Langlhof_G@klinik.uni-wuerzburg.de

Laßek, Melanie, Dept. Molecular and Cellular Neurobiology, Institute for Cell Biology and Neuroscience, Max-von-Laue-Str 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842034, Email: lassek@bio.uni-frankfurt.de

Lau, Dr. Thorsten, Biochemisches Labor, Zentralinstitut für Seelische Gesundheit, I5, 68159, Mannheim, Germany, Tel.: +49 621 17032906, Email: thorsten.lau@zi-mannheim.de

Lebhardt, Fleur, Behavioural Physiology, Humboldt-Universität zu Berlin, Invalidenstr. 43, 10115, Berlin, Germany, Tel.: +49 30 20938799, Email: fleur.lebhardt@biologie.hu-berlin.de

Leboulle, Ph.D. Gérard, Institut für Biologie - Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83852058, Email: gerleb@zedat.fu-berlin.de

Lee, Margherita Maria, Molecular and Clinical Psychobiology, Universität Würzburg, Clinic and Policlinic for Psychiatry and Psychosomatic, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 20177380, Email: margherita.lee@stud-mail.uni-wuerzburg.de

Legler, Christof, Department of Animal Physiology, Universität Köln Biocenter, Zülpicher Strasse 47b, 50674, Köln, Germany, Tel.: +49 221 4703101, Email: christof.legler@gmail.com

Lehmann, Sebastian J., AG Neurobiologie, DPZ Göttingen, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851484, Email: slehmann@dpz.eu

Lehmann, Konstantin, Institute of Biology - Neurobiology, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856880, Email: k.lehmann@fu-berlin.de

Lehmann, Stephanie, Institute of Biology, Dept. of Cognitive Biology, Otto-von-Guericke-Universität Magdeburg, Leipziger Strasse 44 / Haus 91, 39120, Magdeburg, Germany, Tel.: +49 391 6755067, Email: stephanie.lehmann@ovgu.de

Lehmann, Dr. Konrad, Institut für Allgemeine Zoologie und Tierphysiologie, Friedrich-Schiller-Universität Jena, Erbertstr. 1, 07743, Jena, Germany, Tel.: +49 3641 949106, Email: Konrad.Lehmann@uni-jena.de

Lehmann, Ph.D. Fritz-Olaf, Institute of Neurobiology, Universität Ulm, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel.: +49 731 5023122, Email: fritz.lehmann@uni-ulm.de

Lehotsky, Prof. Jan, Med Biochem, Comenius University, Jessenius fac med, Mala Hora 4, SK 03601, Martin, Slovakia, Tel.: +42 43 2633442, Email: lehotsky@jfmed.uniba.sk

Lei, Juan, Department Ophthalmology, Visual Processing Laboratory, Otto-von-Guericke-University Magdeburg, Leipziger Str.44, 39120, Magdeburg, Germany, Tel.: +49 391 6713585, Email: michael.hoffmann@med.ovgu.de

Leibinger, Dr. Marco, Department of Neurology, Heinrich-Heine-University of Düsseldorf, Merowingerplatz 1a, 40225, Düsseldorf, Germany, Tel.: +49 211 30203924, Email: marco.leibinger@med.uni-duesseldorf.de

Leitinger, Dr. Gerd, Institute of Cell Biology, Histology and Embryology, Medical University of Graz, Harrachgasse 21, 8010, Graz, Austria, Tel.: +43 316 3804237, Email: gerd.leitinger@medunigraz.at

Lenk, Kerstin, Faculty of Engineering and Computer Science, Lausitz University of Applied Sciences, Großenhainer Str. 57, 01968, Senftenberg, Germany, Tel.: +49 3573 85635, Email: kerstin.lenk@hs-lausitz.de

Lenz, Maximilian, Institut der Anatomie I, Johann-Wolfgang-Goethe-Universität Frankfurt am Main, Theodor-Stern-Kai 7, Haus 89 / 2.OG, 60590, Frankfurt am Main, Germany, Tel.: +49 69 63016900, Email: s1605391@stud.uni-frankfurt.de

Lessing, Nora, Institute of Psychology, Universität Hildesheim, Marienburger Platz 22, 31141, Hildesheim, Germany, Tel.: +49 5121 883485, Email: lessin@uni-hildesheim.de

Letzkus, Ph.D. Johannes Jakob, Neurobiology, FMI, Maulbeerstrasse 66, 4058, Basel, Switzerland, Tel.: +41 6169 78573, Email: johannes.letzkus@fmi.ch

Li, Ph.D. Qin, Cellular Neurobiology, Zoological Institute, Spielmannstr. 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913227, Email: liqin8592@yahoo.com

Li, Prof. Jia-Yi, Wallenberg Neuroscience Center Department of Experimental Medical Science, Lund University, BMC A10, 22184, Lund, Sweden, Tel.: +46 46 2220505, Email: jia-yi.li@med.lu.se

Li, Jiawei, Institute for Structural Neurobiology, Center for Molecular Neurobiology, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741054958, Email: jiawei.li@zmnh.uni-hamburg.de

Lien, Ph.D. Chun-Fu, School of Pharmacy & Biomedical Sciences, University of Portsmouth, St Michael's Building, White Swan Road, PO1 2DT, Portsmouth, United Kingdom, Tel.: +44 23 92843616, Email: chun-fu.lien@port.ac.uk

Lin, Kun-Han, Dept. of Membrane Biophysics, Max-Planck-Institute for Biophysical Chemistry, Am Fassberg 11, 37077, Göttingen, Germany, Tel.: +49 551 2011668, Email: klin@gwdg.de

Lindenberg, Annekathrin, Biozentrum, Department of Behavioral Physiology and Sociobiology, Universität Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 174 2406558, Email: annekathrin.lindenberg@stud-mail.uni-wuerzburg.de

Lingner, Ph.D. Andrea, Neurobiology, Ludwig-Maximilians-Universität, Großhadernerstrasse 2, 82152, München, Germany, Tel.: +49 89 218074308, Email: lingner@bio.lmu.de

Lippmann, Kristina, PG Uwe Heinemann, Charité - Universitätsmedizin, Institute of Neurophysiology, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450528122, Email: Kristina.Lippmann@charite.de

Liu, Ph.D. Jian, Department of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3991248, Email: jian.liu@med.uni-goettingen.de

Liu, Ph.D. Yanling, Molecular Neurobiology, European Neuroscience Institute, Grisebachstr. 5, 37077, Göttingen, Germany, Tel.: +49 551 393487, Email: yliu1@gwdg.de

Liu, Dr. Rui-Feng, Cognitive Neuroscience Lab, Universität Göttingen, German Primate Center, Kellnerweg 6, 37077, Göttingen, Germany, Tel.: +49 551 3851355, Email: rliu@gwdg.de

Loch, Diana, Institute of Physiology, Universität Hohenheim, Garbenstraße 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922267, Email: fralochdi@aol.com

Löchner, Marie, Department of Neurology, Universität Bonn, Sigmund-Freud-Str. 25, 53127, Bonn, Germany, Tel.: +49 228 28719180, Email: marie.loechner@ukb.uni-bonn.de

Loehfelm, Aline, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 30258141, Email: a.b.loehfelm@t-online.de

Löhner, Martina, Dept. Biology, Universität Erlangen-Nürnberg, Animal Physiology, Staudtstr. 5, 91058, Erlangen, Germany, Tel.: +49 9131 8528059, Email: m.loehner@biologie.uni-erlangen.de

Löwel, Prof. Siegrid, Systems Neuroscience - BFNT & JF-Blumenbach-Inst. Zool. & Anthropol., Georg-August-Universität Göttingen, Von-Siebold-Str. 4, 37075, Göttingen, Germany, Tel.: +49 551 3920161, Email: sloewel@gwdg.de

Lohr, Prof. Christian, Neurophysiology, Biocenter Grindel, University of Hamburg, Martin-Luther-King-Pl. 3, 20146, Hamburg, Germany, Tel.: +49 40 428385924, Email: christian.lohr@uni-hamburg.de

Lopes da Fonseca, Tomás Ribeiro da Sil, Neurodegeneration and Restorative Research, UMG, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913546, Email: tlopesdafonseca@gmail.com

Lüdke, Dr. Alja, Neurobiology, Universität Konstanz, Fach 624, 78457, Konstanz, Germany, Tel.: +49 7531 884642, Email: alja.luedke@uni-konstanz.de

Lüscher, Prof. Bernhard, Depts. of Biology, Biochemistry & Molecular Biology and Psychiatry, Penn State University, 221 Life Sciences Building, 16802, University Park, Pennsylvania, USA, Tel.: +1 814 8655549, Email: BXL25@psu.edu

Luksch, Prof. Harald, Department of Zoology, Technische Universität München, Liesel-Beckmann-Straße 4, 85354, Freising, Germany, Tel.: +49 8161 712800, Email: harald.luksch@wzw.tum.de

Lundt, Andreas, Cellular and Systemic Neurophysiology, Federal Institute for Drugs and Medical Devices, Kurt-Georg-Kiesinger Allee 3, 53175, Bonn, Germany, Tel.: +49 228 993975722, Email: andreas.lundt@bfarm.de

Lázaro, Diana Fernandes, Department of NeuroDegeneration and Restaurative Research, Universität Göttingen Medical School, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913544, Email: dianaflazaro@gmail.com

Magnusson, Ph.D. Anna Katarina, Center for Hearing and Communication Research, Karolinska Institutet, M1:00, 17176, Stockholm, Sweden, Tel.: +46 8 51773215, Email: anna.magnusson@ki.se

Mahlke, Dr. Claudia, Neuroscience Research Center, Charité - Universitätsmedizin Berlin, Chariteplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450539124, Email: claudia.mahlke@charite.de

Mai, Bettina, Biologisches Institut, Abt. Tierphysiologie, Universität Stuttgart, Pfaffenwaldring 57, 70550, Stuttgart, Germany, Tel.: +49 711 68565005, Email: bettina.mai@bio.uni-stuttgart.de

Maier, Urban, Institut für Strukturelle Neurobiologie, ZMNH, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741054958, Email: urban.maier@zmnh.uni-hamburg.de

Mallot, Prof. Hanspeter A., Cognitive Neuroscience Unit, Dept. of Biology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2978830, Email: hanspeter.mallot@uni-tuebingen.de

Mann, Ph.D. Fanny, IBDML UMR 7288, CNRS, Campus de Luminy, 13288, Marseille cedex 09, France, Tel.: +331 4 91269337, Email: fanny.mann@univ-amu.fr

Marks, Vera Katharina, Cognitive Neuroscience Laboratory, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851354, Email: vmarks@dpz.eu

Marongiu, Daniele, Institut für Physiologie und Pathophysiologie, Johannes Gutenberg-Universität, Duesbergweg 6, 55128, Mainz, Germany, Tel.: +49 1577 5214108, Email: marongiu@uni-mainz.de

Marquardt, Ph.D. Till, Developmental Neurobiology, European Neuroscience Institute Göttingen, Grisebachstr. 5, 37077, Göttingen, Germany, Tel.: +49 551 3913400, Email: T.Marquardt@eni-g.de

Marter, Kathrin, Neurobiologie, Freie Universität Berlin, Königin-Luise-Straße 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856454, Email: k.marter@fu-berlin.de

Marx, Svenja, Neurophysics, Philipps-University Marburg, Karl-von-Frisch-Str. 8a, 35032, Marburg, Germany, Tel.: +49 6421 2821383, Email: svenja.marx@physik.uni-marburg.de

Marx, Manuel, Research Centre Jülich, Institute of Neuroscience and Medicine (INM-2), Leo-Brandt-Str., 52425, Jülich, Germany, Tel.: +49 2461 614385, Email: man.marx@fz-juelich.de

Mason, Sara Opal, Biochemistry, Kansas City University of Medicine and Biosciences, 1750 Independence Avenue, 641424, Kansas City, USA, Tel.: +1 515 9885552, Email: saraomason@gmail.com

Matheson, Ph.D. Tom, Biology, University of Leicester, University Road, LE1 7RH, Leicester, United Kingdom, Tel.: +44 116 2231263, Email: tm75@le.ac.uk

Mayer, Simone, Department of Molecular Neurobiology, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899688, Email: mayer@em.mpg.de

Mayer, Dr. Georg, Animal Evolution & Development, Institute of Biology, Universität Leipzig, Talstraße 33, D-04103, Leipzig, Germany, Tel.: +49 341 9736789, Email: gmayer@onychophora.com

Mehlan, Juliane, Institute of Anatomy, University of Rostock, Gertrudenstraße 9, 18055, Rostock, Germany, Tel.: +49 152 27683568, Email: julianemehlan@googlemail.com

Mehrpour, Vahid, Cognitive Neuroscience Laboratory (CNL), German Primate Center (DPZ), Universität Göttingen, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851344, Email: vmehrpour@dpz.eu

Meier, Prof. Jochen Christian, Neuroscience, Max-Delbrück-Center for Molecular Medicine, Robert-Rössle-Strasse 10, 13092, Berlin, Germany, Tel.: +49 30 94063062, Email: jochen.meier@mdc-berlin.de

Mendoza Schulz, Alejandro, InnerEarLab, UMG Göttingen, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 398974, Email: a.mendoza.schulz@gmx.net

Menz, Veera Katharina, Primate Neurobiology, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851484, Email: kmenz@dpz.eu

Mergenthaler, Dr. Philipp, Abt. f. Experimentelle Neurologie, Charité Universitätsmedizin Berlin, Charitéplatz 1, 10098, Berlin, Germany, Tel.: +49 30 450560020, Email: philipp.mergenthaler@charite.de

Mergia, Dr. Evanthia, Pharmakologie und Toxikologie, Ruhruniversität Bochum, Universitätsstrasse 150, 44780, Bochum, Germany, Tel.: +49 2343 3224990, Email: mergia@evanthia.de

Merschbaecher, Katja, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 30258136, Email: k.merschbaecher@mx.uni-saarland.de

Meschkat, Martin, AG Entwicklungsneurobiologie, Ruhr Universität Bochum, Universitätsstraße 150, 44780, Bochum, Germany, Tel.: +49 234 3224367, Email: martin.meschkat@rub.de

Mey, Prof. Jörg, Laboratorio Regeneración nerviosa, Hospital Nacional de Parapléjicos, Finca la Peraleda s/n, 45071, Toledo, Spain, Tel.: +349 925 247754, Email: jmey@sescam.jccm.es

Meyer, Arndt, Department of Neurobiology, Universität Oldenburg, Carl-von-Ossietzky-Straße 9-11, 26111, Oldenburg, Germany, Tel.: +49 441 7983423, Email: arndt.meyer@uni-oldenburg.de

Meyer, Arne-Freerk, Medical Physics, Carl-von-Ossietzky University Oldenburg, Carl-von-Ossietzky-Straße 9-11, 26129, Oldenburg, Germany, Tel.: +49 441 7983249, Email: arne.f.meyer@uni-oldenburg.de

Miceli, Stephanie, Department of Cognitive Neuroscience, Donders Institute for Brain, Cognition and Behaviour, Postbus 9101, 6500 HB, Nijmegen, Netherlands, Tel.: +31 6 84682049, Email: s.miceli@donders.ru.nl

Michael, Neethu, Systems Neuroscience, Johann-Friedrich-Blumenbach-Institute of Zoology and Anthropology Bernstein Focu, von-Siebold-Strasse 4, 37075, Göttingen, Germany, Tel.: +49 551 20165, Email: nmichae@gwdg.de

Michaels, Jonathan A., Neurobiology, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 1525 1029583, Email: JMichaels@dpz.eu

Michaelsen-Preusse, Ph.D. Kristin, Cellular Neurobiology, TU Braunschweig, Spielmannstr. 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913186, Email: k.michaelsen@tu-bs.de

Michels, Dr. Birgit, Genetics of learning and memory, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393411, Email: birgit.michels@lin-magdeburg.de

Miehe, Sören, Institut für Biologie - Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 176 24863381, Email: smiehe@students.uni-mainz.de

Miljus, Natasa, Dept. of Cellular Neurobiology, Georg-August-Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177958, Email: nmiljus@gwdg.de

Mißbach, Christine, Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Straße 8, 07745, Jena, Germany, Tel.: +49 3641 571412, Email: cmissbach@ice.mpg.de

Mix, Dr. Annika, Department of Neurophysiology, Ruhr-Universität Bochum, Universitätsstr. 150, 44801, Bochum, Germany, Tel.: +49 234 3226828, Email: annika.mix@rub.de

Moczulska, Ph.D. Kaja, Rumpel group, Institute of Molecular Pathology, Dr. Bohr-Gasse 7, 1030, Wien, Austria, Tel.: +43 1 79730, Email: kaja.moczulska@imp.ac.at

Möck, Ph.D. Martin, Neuroanatomie, Universitätsmedizin Göttingen, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 397068, Email: martin.moeck@med.uni-goettingen.de

Möckel, Doreen, Institut für Zellbiologie und Neurowissenschaft, Goethe Universität Frankfurt, Max-von-Laue-Str. 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842064, Email: moeckel@bio.uni-frankfurt.de

Moeller, Lisa Marie, Institute for Biology II / Chemosensation, RWTH Aachen Universität, Worringer Weg 1, 52074, Aachen, Germany, Tel.: +49 241 8020804, Email: l.moeller@sensorik.rwth-aachen.de

Moll, Felix, Animal Physiology, Institute of Neurobiology, Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972623, Email: felix87moll@googlemail.com

Molnár, Ph.D. László, Department of General Zoology, University of Pécs, Ifjúság u. 6., H-7624, Pécs, Hungary, Tel.: +36 72 503600, Email: molnar@gamma.ttk.pte.hu

Morales-Quezada, Jorge Leon, Neuromodulation Laboratory, Department Physical medicine and rehab, Spaulding Rehabilitation Hospital. Harvard Medical School, 125 Nashua Street, 02114, Boston, USA, Tel.: +1 617 5732196, Email: lmorales@neuromodulationlab.org

Morgan-Bilaney, Ph.D. Sarah C., Neuroscience, Bilaney Consultants GmbH, Schirmerstr. 23, 40211, Düsseldorf, Germany, Tel.: +49 211 364043, Email: sarah@bilaney.de

Mosienko, Valentina, Molecular Biology of Peptide Hormones, Max-Delbrück-Center for Molecular Medicine, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 176 62269381, Email: valentina.mosienko@mdc-berlin.de

Moskaleva, Maria, Institute of Neurobiology, Animal Physiology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972623, Email: maria.moskaleva@gmail.com

Müller, Prof. Michael, Zentrum Physiologie und Pathophysiologie, Universitätsmedizin Göttingen, Humboldtallee 23, D-37073, Göttingen, Germany, Tel.: +49 551 3922933, Email: mmuelle7@gwdg.de

Müller, Prof. Christian P., Psychiatric University Clinic, Universität Erlangen-Nürnberg, Schwabachanlage 6, 91054, Erlangen, Germany, Tel.: +49 9131 8536896, Email: christian.mueller@uk-erlangen.de

Müller, Anke, Pharmakologie und Toxikologie, Otto-von-Guericke-Universität Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6715347, Email: anke.mueller@st.ovgu.de

Müller, Sabrina, Department Neurochemistry and Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393271, Email: Sabrina.Mueller@lin-magdeburg.de

Müller, Alexandra, HNO, UMG Göttingen, Robert-Koch-Straße 40, 37075, Göttingen, Germany, Tel.: +49 551 3912555, Email: alexandra_mueller@t-online.de

Mueller, Prof. Ulrich, Dorris Neuroscience Center, The Scripps Research Institute, 10550 N. Torrey Pines Rd, CA 92037, La Jolla, USA, Tel.: +1 858 7847288, Email: umueller@scripps.edu

Mueller, Prof. Uli, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 3022412, Email: uli.mueller@mx.uni-saarland.de

Mueller, Ralf, Cologne Cognitive Neurophysiology Lab (CCNL), Department of Psychiatry and Psych, Universität Köln, Kerpener Straße 62, 50924, Köln, Germany, Tel.: +49 221 47887150, Email: ralf.mueller@uk-koeln.de

Münch, Daniel, Neurobiologie, Universität Konstanz, Universitätsstr. 10, 78457, Konstanz, Germany, Tel.: +49 7531 884642, Email: daniel.muench@uni-konstanz.de

Mukunda, Latha, Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Strasse 8, 07745, Jena, Germany, Tel.: +49 3641 571466, Email: lmukunda@ice.mpg.de

Myoga, Ph.D. Michael Hideki, Department Biologie II, Ludwig-Maximilians-Universität München, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 160 94996012, Email: myoga@biologie.uni-muenchen.de

Nadler, Leonard, Institut für Biologie - Neurobiologie, Freie Universität Berlin, Königin-Luise-Straße 28-30, 14195, Berlin, Germany, Tel.: +49 30 83855934, Email: nadler@zedat.fu-berlin.de

Nagel, Manuel, Neuroethology, Universität Konstanz, Universitätsstraße 10, 78464, Konstanz, Germany, Tel.: +49 7531 885065, Email: manuel.nagel@uni-konstanz.de

Nagpal, Jatin, Cellular and Molecular Neurobiology, Buchmann Institute for Molecular Life Sciences, Goethe University, Max-von-Laue- Str. 15, 60438, Frankfurt, Germany, Tel.: +49 69 79842517, Email: jatin@stud.uni-frankfurt.de

Nair, Sharmila, Innate Immunity and Infection, Helmholtz Centre for Infection Research, Inhoffenstr.-7, 38124, Braunschweig, Germany, Tel.: +49 1761 229122, Email: sna10@gbf.de

Nawrot, Prof. Martin Paul, Theoretical Neuroscience, Institute of Biology, Freie Universität Berlin, Königin-Luise-Straße 1-3, 14195, Berlin, Germany, Tel.: +49 30 83856692, Email: martin.nawrot@fu-berlin.de

Neef, Dr. Jakob, Inner Ear Lab, Universität Göttingen, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 3922837, Email: jneef@gwdg.de

Neef, Dr. Andreas, HNO, Universitätsmedizin Göttingen, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 5176424, Email: aneef@gwdg.de

Neher, Torsten, Institut für Neuroinformatik, Ruhr-Universtät Bochum, Universitätsstr. 150, 44801, Bochum, Germany, Tel.: +49 234 3227988, Email: torsten.neher@ini.rub.de

Neitz, Dr. Angela, Inst. für Physiologie, Johannes Gutenberg-Universität, Duesbergweg 6, 55128, Mainz, Germany, Tel.: +49 6131 3925715, Email: neitz@uni-mainz.de

Neuhaus, Prof. Eva M., AG Neuhaus, Charité - Universitätsmedizin Berlin, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450539761, Email: eva.neuhaus@charite.de

Neumann, Sonja, Neuroanatomy Research Unit, Max-Planck-Institute for Brain Research, Deutschordenstraße 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769256, Email: Sonja.Neumann@brain.mpg.de

Neumann, Dr. Sebastian, Faculty of Chemistry and Biochemistry, Department of Molecular Neurobiochemistry, Ruhr-Universität Bochum, Universitätsstr. 150, 44780, Bochum, Germany, Tel.: +49 234 3225774, Email: sebastian.neumann@ruhr-uni-bochum.de

Neuzeret, Frederic, Sales Engineer, VIEWPOINT, 3 Allée des Chevreuils, 69380, LISSIEU, France, Tel.: +331 4 72179192, Email: info@viewpoint.fr

Newman, Andrew Garfield, Developmental Neurobiology, Charite CCO, Chariteplatz 1, 10117, Berlin, Germany, Tel.: +49 152 55456727, Email: andrew.Newman@charite.de

Niederleitner, Bertram, Zoologie, Technische Universität München, Liesel-Beckmann-Straße 4, 85354, Freising, Germany, Tel.: +49 8161 712806, Email: bertram.niederleitner@wzw.tum.de

Niekisch, Hartmut, Systems Physiology of Learning, Leibniz-Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 94481, Email: hartmut.niekisch@lin-magdeburg.de

Nikiforuk, Ph.D. Agnieszka, Department of Behavioral Neuroscience and Drug Development, Institute of Pharmacology, Polish Academy of Sciences, 12 Smetna street, 31-343, Kraków, Poland, Tel.: +48 12 6623374, Email: nikifor@if-pan.krakow.pl

Nitsche, Prof. Michael A., Dept. Clinical Neurophysiology, University Medicine Goettingen, Robert-Koch-Str. 40, 37099, Göttingen, Germany, Tel.: +49 551 399571, Email: mnitsch1@gwdg.de

Noack, Monika, Department of Biology, Molecular Neurobiology, University of Oldenburg, Ammerländer Heerstraße 78, 26129, Oldenburg, Germany, Tel.: +49 441 21718844, Email: monika.noack@uni-oldenburg.de

Noesselt, Prof. Toemme, Institute of Biological Psychology, Otto-von-Guericke-Universität, Universitätsplatz 1, 39106, Magdeburg, Germany, Tel.: +49 391 6718477, Email: toemme.noesselt@med.ovgu.de

Nolte, Andreas, Animal Physiology, Universität Kassel, Heinrich-Plett-Straße 40, 34132, Kassel, Germany, Tel.: +49 561 8044727, Email: andreasnolte@uni-kassel.de

Nowotny, Dr. Thomas, School of Engineering and Informatics, University of Sussex, Falmer, BN1 9QJ, Brighton, United Kingdom, Tel.: +44 1273 678593, Email: t.nowotny@sussex.ac.uk

Nunes, Daniel, Functional Neuroanatomy, Anatomie und Medizinische Zellbiologie, INF 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548601, Email: nunes@ana.uni-heidelberg.de

Oberland, Sonja, AG Neuhaus, Charité Universitätsmedizin, Cluster of Excellence NeuroCure, Charitéplatz 1, CCO, 10117, Berlin, Germany, Tel.: +49 30 450539769, Email: sonja.oberland@charite.de

Oggioni, Dr. Federico, Sales Dept., Ugo Basile S.r.l., Via Guido Borghi, 43, 21025, Comerio (VA), Italy, Tel.: +39 332 744574, Email: cinzia.boldi@ugobasile.com

Oliveira, Ph.D. Luis Miguel, Laboratory of Cellular Dynamics, Max-Planck-Institute for Biophysical Chemistry, Am Fassberg 11, 37077, Göttingen, Germany, Tel.: +49 551 2011390, Email: lolivei@gwdg.de

Orback, Beatrice, Head office, Denator AB, Arvid Wallgrens backe 20, 413 46, Gothenburg, Sweden, Tel.: +46 31 412841, Email: beatrice.orback@denator.com

Orlowski, Julius, Institute for Biology II, RWTH Aachen, Mies-van-der-Rohe-Straße 15, 52074, Aachen, Germany, Tel.: +49 241 8020833, Email: Julius@bio2.rwth-aachen.de

Osovnikar, Hans-Peter, Vertrieb, Science Products GmbH, Hofheimer Str. 63, 65719, Hofheim, Germany, Tel.: +49 6192 901396, Email: Info@science-products.com

Ostwald, Prof. Joachim, Animal Physiology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972622, Email: joachim.ostwald@uni-tuebingen.de

Ott, Torben, Animal Physiology, University Tübingen, Institute of Neurobiology, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972957, Email: torben.ott@uni-tuebingen.de

Ott, Ph.D. Swidbert Roger, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 7914 223001, Email: S.R.Ott@cantab.net

Outeiro, Prof. Tiago Fleming, Department of Neurodegeneration and Restorative Research, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 171 9755610, Email: touteiro@gmail.com

Ouzir, Mounir, Laboratory of Clinical Neuroscience and Mental Health, Faculty of Medicine and Pharmacy, 19 Rue Tarik Ibnou Ziad, BP: 9154 Mers Sultan, 20000, Casablanca, Morocco, Tel.: +212 5 37298614, Email: m.ouzir@gmail.com

Pérez de los Cobos Pallarés, Fernando, Neurobiology, Department II of Biology, LMU Munich, Großhaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074369, Email: perez@biologie.uni-muenchen.de

Paffhausen, Benjamin H, Neurobiologie, Freie Universität Berlin, Königin-Luise-Straße 28/30, 14195, Berlin, Germany, Tel.: +49 30 83856537, Email: ben@paffhausen.org

Pahle, Jasmine, Center for Molecular Neurobiology Hamburg, University Medical Center Hamburg-Eppendorf, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741054958, Email: jasmine.pahle@zmnh.uni-hamburg.de

Palmigiano, Agostina, Non Linear Dynamics, Max-Planck-Institute for Dynamics and Self-Organization, Am Fassberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176414, Email: agos@nld.ds.mpg.de

Pangalos, Maria, AG Prof. Schmitz, Charité-Universitätsmedizin, Neurowissensch. Forschungszentrum, Virchowweg 6 - Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450639063, Email: maria.pangalos@charite.de

Paolicelli, Ph.D. Rosa Chiara, Division of Psychiatry Research, University of Zurich, August Forel-Strasse 1, 8008, Zurich, Switzerland, Tel.: +41 78 8363727, Email: rosachiara.paolicelli@bli.uzh.ch

Papa, Dr. Michele, Department of Mental, Physical and Preventive Medicine, Second University of Naples, Via L Armanni 5, 80138, Naples, Italy, Tel.: +39 81 296636, Email: michelepapasun@gmail.com

Papadopoulos, Ph.D. Theofilos, Department of Molecular Neurobiology, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899696, Email: papadopoulos@em.mpg.de

Papageorgiou, Ismini E., General Neurophysiology, AG Kann, Institute of Physiology and Pathophysiology, University Heidelberg, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544568, Email: i.papageorgiou@physiologie.uni-heidelberg.de

Papazoglou, Dr. Anna, Cellular and Systemic Neurophysiology, Federal Institute for Drugs and Medical Devices (BfArM), Kurt-Georg-Kiesinger Allee 3, 53175, Bonn, Germany, Tel.: +49 228 99307337, Email: anna.papazoglou@bfarm.de

Paquet-Durand, Dr. François, Cell Death Mechanisms Group, University of Tübingen, Röntgenweg 11, 72076, Tübingen, Germany, Tel.: +49 7071 2987430, Email: francois.paquet-durand@klinikum.uni-tuebingen.de

Parthasarathy, Srinivas, Cortical Development Group, Institute for Cell and Neurobiology, Charite, Chariteplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450528403, Email: srinivas.parthasarathy@charite.de

Paschke, Dr. Kerstin, Cognitive Neurology, Georg-August–Universität Göttingen, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 3913140, Email: kerstin.paschke@med.uni-goettingen.de

Pasqualetti, Ph.D. Massimo, Cell and Developmental Biology Unit, Biology Department, University of Pisa, S.S.12 Abetone e Brennero 4, 56127, Pisa, Italy, Tel.: +39 50 2211496, Email: mpasqualetti@biologia.unipi.it

Pastukhov, Dr. Alexander, Cognitive Biology, Otto-von-Guericke Universität, Leipziger Str. 44/Haus 91, 39120, Magdeburg, Germany, Tel.: +49 391 6755058, Email: pastukhov.alexander@gmail.com

Pauls, Dr. Dennis, Neurobiology and Genetics, Theodor-Boveri Institute; Biocenter, Universität Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3186704, Email: dennis.pauls@uni-wuerzburg.de

Pech, Ulrike, Molecular Neurobiology of Behavior, Georg-August-Universität Göttingen, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 3917926, Email: upech@gwdg.de

Penninella, Donato, Biotechnology Centre, Justus-Liebig-Universität Gießen, Leihgesterner Weg 217, 35392, Gießen, Germany, Tel.: +49 641 9916505, Email: donato.penninella@gmail.com

Peter, Dr. Manuel, Circuit Neuroscience, Research Institute of Molecular Pathology (IMP), Dr. Bohr Gasse 7, 1030, Vienna, Austria, Tel.: +43 650 5521022, Email: manuel.peter@imp.ac.at

Peters, Matthias, Sales Dept., TOPTICA Photonics AG, Lochhamer Schlag 19, 82166, Graefelfing, Germany, Tel.: +49 89 858370, Email: matthias.peters@toptica.com

Pfänder, Stefanie, Institute for Anatomy and Cell Biology, Ulm University, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel.: +49 731 50023207, Email: stefanie.pfaender@uni-ulm.de

Pfeiffer, Thomas, Institute for Physiology and Pathophysiology, Universität Heidelberg, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544139, Email: th.pfeiffer87@googlemail.com

Pflüger, Prof. Hans-Joachim, Biologie/Neurobiologie, Freie Universität, Königin-Luise-Straße 28-30, 14195, Berlin, Germany, Tel.: +49 30 83854676, Email: pflueger@neurobiologie.fu-berlin.de

Piepenbrock, David, Cellular Neurobiology, Johann-Friedrich-Blumenbach-Institut für Zoologie, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177962, Email: david.piepenbrock@biologie.uni-goettingen.de

Pingel, Dr. Thomas, Director of Sales & Marketing, LaVision BioTec GmbH, Astastraße 14, 33617, Bielefeld, Germany, Tel.: +49 521 9151390, Email: pingel@lavisionbiotec.com

Pinho, Raquel, Neurodegeneration and Restorative Research, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913547, Email: raquel.opinh@gmail.com

Pizzorusso, Prof. Tommaso, Inst. Neuroscience, CNR, via Moruzzi, 1, 56124, Pisa, Italy, Tel.: +39 050 3153167, Email: tommaso@in.cnr.it

Plested, Ph.D. Andrew John, Molecular Neuroscience and Biophysics, FMP Berlin, Robert-Rössle-Str 10, 13125, Berlin, Germany, Tel.: +49 30 94063071, Email: plested@fmp-berlin.de

Polikanova, Ph.D. Irina S., Department of Psychophysiology, Lomonosov Moscow State University, Mokhovaya st. 11/9, 125009, Moscow, Russia, Tel.: +7 905 5046549, Email: irinapolikanova@mail.ru

Polito, Marina, UMR7102, CNRS UPMC, 9 quai St Bernard, 75005, Paris, France, Tel.: +331 1 44272588, Email: marina.polito@snv.jussieu.fr

Popik, Prof. Piotr, Department of Behavioral Neuroscience and Drug Development, Institute of Pharmacology, Polish Academy of Sciences, 12 Smetna street, 31-343, Kraków, Poland, Tel.: +48 12 6623375, Email: nfpopik@cyf-kr.edu.pl

Post, Antonia, Department of Psychiatry, Universitätsklinik Würzburg, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 20177360, Email: E_Post_A@klinik.uni-wuerzburg.de

Prescott, Greg, Project Engineering, Campden Instruments Ltd., PO Box 8148, LE12 7TJ, Leicester, United Kingdom, Tel.: +44 1509 814790, Email: gprescott@campdeninstruments.com

Prescott, Gregory Mark, Instrument Engineering, Campden Instruments Ltd., PO Box 8148, LE12 7XT, Loughborough, United Kingdom, Tel.: +44 1509 814790, Email: gprescott@campdeninstruments.com

Prömper, Dr. Claudia, Marketing, Biotrend Chemikalien GmbH, Eupenerstraße 157, 40789, Köln, Germany, Tel.: +49 2173 940930, Email: proemper@biotrend.com

Prönneke, Alvar, Neuroanatomie, Georg-August-Universität Göttingen, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 397072, Email: alvar.proenneke@med.uni-goettingen.de

Psotta, Laura, Institute of Physiology, Medical School, Otto-von-Guericke University, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6715811, Email: laura.psotta@med.ovgu.de

Puelma Touzel, Maximilian, Nonlinear Dynamics, Max-Planck-Institute for Dynamics and Self Organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176444, Email: mptouzel@nld.ds.mpg.de

Pukaß, Katharina, Molecular Neurobiology/Neurochemistry, Carl-von-Ossietzky Universität, Carl-von-Ossietzky Straße 9-11, 26129, Oldenburg, Germany, Tel.: +49 441 7983287, Email: katharina.pukass@uni-oldenburg.de

Purdie, Carolyn, Business Development, Jackson ImmunoResearch Europe, Unit 7 Acorn Business Centre, Oaks Drive, CB8 7SY, Newmarket, United Kingdom, Tel.: +44 1638 782616, Email: carolyn@jireurope.com

Puskarjov, M.Sc. Martin, Biosciences, University of Helsinki, Viikinkaari 1 P.O. 65, 00014, Helsinki, Finland, Tel.: +358 40 4741454, Email: martin.puskarjov@helsinki.fi

Quinlan, Ph.D. Elizabeth Mary, Biology, University of Maryland, 1110 Biosciences Research Building, MD 21403, College Park, USA, Tel.: +1 301 4057396, Email: equinlan@umd.edu

Quinn, Thomas, Sales, Stoelting Europe, 3 Ardee Road, Rathmines, 6, Dublin, Ireland, Tel.: +353 1 5242200, Email: t.quinn@stoeltingeurope.com

Racay, Ph.D. Peter, Department of Medical Biochemistry, Comenius University, Jessenius Faculty of Medicine, Mala Hora 4, 03601, Martin, Slovakia, Tel.: +42 43 2633443, Email: racay@jfmed.uniba.sk

Raiser, Georg, Neurobiology, Universität Konstanz, Universitätsstr.10, 78457, Konstanz, Germany, Tel.: +49 7531 882102, Email: georg.raiser@uni-konstanz.de

Ramlochansingh, Ph.D. Carlana, Division of Neurobiology, Department Biology II, Ludwig-Maximilians-Universität München, Großhaderner Str. 2, 82152, Planegg, Germany, Tel.: +49 89 218074315, Email: carlana.ramlochansingh@gmail.com

Ranjan, Ashish, Molecular Biology of Peptide Hormones, Max-Delbrück Centrum für Molekulare Medizin (MDC), Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 177 6825088, Email: ashish.ranjan@mdc-berlin.de

Ravindran, Ethiraj, Institute of Cell and Neurobiology, Charite Universität-Medizin,Berlin, Philippstraße 12, 10115, Berlin, Germany, Tel.: +49 30 157385183, Email: ethiraj.ravindran@charite.de

Reichart, Markus, Sales Department, Multi Channel Systems MCS GmbH, Aspenhaustr. 21, 72770, Reutlingen, Germany, Tel.: +49 7121 909250, Email: reichart@multichannelsystems.com

Reichinnek, Dr. Susanne, AG Draguhn, Institut für Physiologie und Pathophysiologie, Im Neuenheimer Feld 326, 69120, Heidelberg, Germany, Tel.: +49 6221 544064, Email: susanne.reichinnek@physiologie.uni-heidelberg.de

Reidy, Eoin, Hilton House, Eicom Europe, 3 Ardee Road, Rathmines, D6, Dublin, Ireland, Tel.: +353 01 9022700, Email: e.reidy@eicomeurope.com

Reim, Dr. Kerstin, Molekulare Neurobiologie, Max-Planck-Institut für Experimentelle Medizin, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899711, Email: reim@em.mpg.de

Reimers, Linda, Neuroscience Discovery Research, Abbott GmbH & Co. KG, Knollstraße, 67061, Ludwigshafen am Rhein, Germany, Tel.: +49 621 5892460, Email: linda.reimers@abbott.com

Reinehr, Sabrina, Experimental Eye Research Institute, Ruhr University Eye Hospital, In der Schornau 23-25, 44807, Bochum, Germany, Tel.: +49 234 2993157, Email: sabrina.reinehr@rub.de

Reiser, Prof. Georg, Institut für Neurobiochemie, Otto-von-Guericke-Universität, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6713088, Email: georg.reiser@med.ovgu.de

Relo, Ph.D. Ana Lucia, Pharmacology, Abbott GmbH & Co. KG, Knollstrasse 50, 67061, Ludwigshafen, Germany, Tel.: +49 621 5892933, Email: ana-lucia.relo@abbott.com

Remus, Ph.D. Anita, Neuroinflammation und Neurodegeneration, Helmholtz Zentrum für Infektionsforschung, Spielmannstraße 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913228, Email: A.Remus@tu-bs.de

Renner, Ph.D. Marianne, Section Neurosciences S4.3, Institut de Biologie de l'Ecole Normale Supérieure (IBENS), 46 rue d'Ulm, 75005, Paris, France, Tel.: +33 1 4432 3518, Email: renner@biologie.ens.fr

Rennertz, Julia, FR 8.3, Zoologie/Physiologie/Neurobiologie, Universität des Saarlandes, Campus Gebäude B2 1, 66123, Saarbrücken, Germany, Tel.: +49 681 3023606, Email: j.rennertz@mx.uni-saarland.de

Renninger, Christoph, Institute of Anatomy and Cell Biology, Universität Würzburg, Koellikerstr. 6, 97070, Würzburg, Germany, Tel.: +49 931 3184133, Email: christoph.renninger@uni-wuerzburg.de

Reuss, Prof. Bernhard, Anatomy - Neuroanatomy, University of Göttingen, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 397059, Email: breuss@gwdg.de

Revah, Omer, Veterinary School, Hebrew University of Jerusalem, Herzel, 76100, Rehovot, Israel, Tel.: +972 528 585035, Email: omerrevah@gmail.com

Richter, Ph.D. Franziska, VMF, Institute for Pharmacology, Pharmacy and Toxicology, University Leipzig, An den Tierkliniken 15, 04103, Leipzig, Germany, Tel.: +49 341 9738141, Email: franziska.richter@vetmed.uni-leipzig.de

Rieche, Franziska, Abt. III Neurobiologie, Universität Mainz, Zoologie, Colonell Kleinmannweg 2, 55099, Mainz, Germany, Tel.: +49 6131 3927264, Email: rieche@uni-mainz.de

Riedel, Dr. Thomas, Rudolf-Boehm-Institut für Pharmakologie und Toxikologie, Universität Leipzig, Härtelstraße 16-18, 04107, Leipzig, Germany, Tel.: +49 341 9724610, Email: Thomas.Riedel@medizin.uni-leipzig.de

Riegel, Ann-Kathrin, Institute for Cell Biology and Neuroscience, Goethe Universität Frankfurt, Max-von-Laue-Straße 13, 60438, Frankfurt/Main, Germany, Tel.: +49 69 79842064, Email: Ann-Kathrin.riegel@gmx.de

Riemann, Stephanie, Developmental Neurophysiology, Center for Molecular Neurobiology Hamburg (ZMNH), Falkenried 84, 20251, Hamburg, Germany, Tel.: +49 407410 56597, Email: stephanie.riemann@zmnh.uni-hamburg.de

Riemensperger, Dr. Thomas Dieter, Neurobiology of Behavior, Georg-August-Universität, Johann-Friedrich-Blumenbach-Institut, Julia-Lermontowa-Weg 3, 37077, Göttingen, Germany, Tel.: +49 551 39177923, Email: triemen@gwdg.de

Rien, Diana, Neurobiology, Bielefeld Universität, Postbox 100131, 33501, Bielefeld, Germany, Tel.: +49 521 1065734, Email: drien@uni-bielefeld.de

Ries, Ariane-Saskia, Department of Zoology III - Neurobiology, Johannes-Gutenberg Universität, Colonel-Kleinmann-Weg 2, 55128, Mainz, Germany, Tel.: +49 6131 3927264, Email: ries@uni-mainz.de

Rillich, Dr. Jan, Institute for Neurobiology, Freie Universität Berlin, Königin-Luise-Str. 28-30, 14195, Berlin, Germany, Tel.: +49 30 83853234, Email: jan.rillich@fu-berlin.de

Ring, Johan, Exhibitor, AgnTho´s, Dalenum 29, 18170, Lidingö, Sweden, Tel.: +46 8 7665715, Email: johan.ring@agnthos.se

Ritzau-Jost, Andreas, High-frequency Signalling, European Neuroscience Institute, Göttingen, Grisebachstraße 5, 37077, Göttingen, Germany, Tel.: +49 551 3913909, Email: andreas.ritzau-jost@medizin.uni-leipzig.de

Rivero, Ph.D. Olga, Department of Psychiatry, Psychosomatics and Psychotherapy, Universitätsklinikum Würzburg, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 20177350, Email: RiveroMar_O@klinik.uni-wuerzburg.de

Roch, Anke, Marketing, Charles River, Sandhofer Weg 7, 97633, Sulzfeld, Germany, Tel.: +49 9761 4060, Email: anke.roch@crl.com

Rochefort, Dr. Nathalie, Institut for Neuroscience, TUM, Biedersteiner Strasse 29, 80802, München, Germany, Tel.: +49 1 7663195063, Email: nathalie.rochefort@lrz.tu-muenchen.de

Röder, Prof. Brigitte, Biologische Psychologie und Neuropsychologie, Universität Hamburg, Von-Melle-Park 11, 29146, Hamburg, Germany, Tel.: +49 40 428383251, Email: brigitte.roeder@uni-hamburg.de

Röhrich, Wolfgang G., Cognitive Neuroscience Unit, Dept. of Biology, Universität Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2974604, Email: wolfgang.roehrich@uni-tuebingen.de

Röser, Andrea, Cognitive Neuroscience Unit, Dept. of Biology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2974604, Email: andrea.roeser@uni-tuebingen.de

Rössler, Prof. Wolfgang, Behavioral Physiology and Sociobiology (Zoology II), University of Würzburg, Biozentrum, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3184306, Email: roessler@biozentrum.uni-wuerzburg.de

Roidl, Deborah, Department of Molecular Embryology, Institute of Anatomy and Cell Biology, Albertstr. 19, 70104, Freiburg, Germany, Tel.: +49 761 2036464, Email: deborah.roidl@anat.uni-freiburg.de

Rolke, Daniel, Institute for Biochemistry and Biology, Animal Physiology, Universität Potsdam, Karl-Liebknecht-Str. 24-25, Haus 26, 14476, Potsdam, Germany, Tel.: +49 331 9775539, Email: daniel.rolke@uni-potsdam.de

Rolls, Prof. Edmund, Department of Computer Science, Oxford Centre for Computational Neuroscience, University of Warwick, CV4 7AL, Coventry, United Kingdom, Tel.: +44 7789 748941, Email: Edmund.Rolls@oxcns.org

Rose, Prof. Christine Rosemarie, Institute of Neurobiology, Heinrich-Heine-University Düsseldorf, Universitaetsstr. 1, Building 26.02, 40225, Düsseldorf, Germany, Tel.: +49 211 1381416, Email: rose@hhu.de

Rose, Jacqueline, Institute for Biology, University of Leipzig, Talstr. 33, 04103, Leipzig, Germany, Tel.: +49 341 9736741, Email: jacqueline.rose2@yahoo.de

Rosenbaum, Philipp, Department of Animal Physiology, Universität Köln, Zuelpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 3133, Email: philipp.rosenbaum@uni-koeln.de

Rossini, Prof. Paolo Maria, Institute of Neurology, Catholic University of The Sacred Heart, Largo Gemelli 8, 00168, Rome, Italy, Tel.: +39 6 6837300, Email: paolomaria.rossini@afar.it

Rosskothen-Kuhl, M.A. Nicole, Department of Otorhinolaryngology, University of Freiburg, Neurobiological Research Laboratory, Killianst. 5, 79106, Freiburg, Germany, Tel.: +49 761 27042650, Email: nicole.rosskothen@gmx.net

Rossner, Ph.D. Moritz J, Research Group Gene Expression, Max-Planck-Institute of Experimental Medicine, Hermann-Rein-Str. 3, 37075, Göttingen, Germany, Tel.: +49 551 3899781, Email: rossner@em.mpg.de

Rosário, Dr. Marta, Institute of Cell and Neurobiology, Charite Universitätsmedizin Berlin, Phillipstr 12, 10115, Berlin, Germany, Tel.: +49 30 450528333, Email: marta.rosario@charite.de

Rotermund, Dr. David, Institute for Theoretical Physics, University of Bremen, Hochschulring 18, 28334, Bremen, Germany, Tel.: +49 421 21862003, Email: davrot@neuro.uni-bremen.de

Rotermund, Natalie, Neurophysiology, University of Hamburg, Martin-Luther-King Platz 3, 20146, Hamburg, Germany, Tel.: +49 40 428383872, Email: Natalie.Rotermund@Uni-Hamburg.de

Roussa, Prof. Eleni, Anatomy and Cell Biology; Molecular Embryology, Universität Freiburg, Albertstr. 17, 79104, Freiburg, Germany, Tel.: +49 761 2035114, Email: eleni.roussa@anat.uni-freiburg.de

Rozenblit, Fernando, Dept. of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 399081, Email: fernando.rozenblit@med.uni-goettingen.de

Rudolph, Dr. Kathrin, Microscopy, Nikon Instruments GmbH, Tiefenbroicher Weg 25, 40472, Düsseldorf, Germany, Tel.: +49 175 2206314, Email: Kathrin.Rudolph@nikon.de

Ruhl, Dr. Tim, Zoology - Neuroethology, University of Bonn, Endenicher Allee 11-13, 53115, Bonn, Germany, Tel.: +49 228 733751, Email: truhl@uni-bonn.de

Rumpel, Dr. Simon, Research Institute of Molecular Pathology (IMP), Dr. Bohr-Gasse 7, 1030, Vienna, Austria, Tel.: +43 1 797303470, Email: rumpel@imp.ac.at

Russig, Dr. Holger, Sales, TSE Systems GmbH, Siemensstr. 21, 61352, Bad Homburg, Germany, Tel.: +49 6172 7890, Email: Info@TSE-Systems.com

Rust, Dr. Marco, Neurobiology/Neurophysiology Group, University of Kaiserslautern, Erwin-Schrödinger Strasse 13, 67663, Kaiserslautern, Germany, Tel.: +49 631 2054669, Email: marco.rust@biologie.uni-kl.de

Ruusuvuori, Dr. Eva Maria, Physiology and Neuroscience, University of Helsinki, POB 65, 00014, University of Helsinki, Finland, Tel.: +358 50 5401971, Email: Eva.Ruusuvuori@Helsinki.fi

Rybak, Dr. Jürgen, Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knoell-Str. 8, 07745, Jena, Germany, Tel.: +49 3641 571406, Email: jrybak@ice.mpg.de

Ryglewski, Dr. Stefanie, Department of Neurobiology, Johannes Gutenberg Universität Mainz, Colonel-Kleinmann-Weg 2, 55128, Mainz, Germany, Tel.: +49 6131 3924483, Email: ryglewsk@uni-mainz.de

Saal, Kim-Ann, Neurology, AG Lingor, University Medicine of the Georg-August-University Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 394927, Email: kim-ann.saal@med.uni-goettingen.de

Sabel, Prof. Bernhard A., Institute of Medical Psychology, Otto-von-Guericke University Magdeburg, Leipziger Str. 44, 39120, Magdeburg, Germany, Tel.: +49 391 6721800, Email: imp@med.ovgu.de

Sachse, Dr. Silke, Department of Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knöll-Str. 8, 07745, Jena, Germany, Tel.: +49 3641 571416, Email: ssachse@ice.mpg.de

Saldeitis, Katja, Department Auditory Learning and Speech, Leibniz Institute for Neurobiology, Brenneckestraße 6, 39118, Magdeburg, Germany, Tel.: +49 391 626395431, Email: Katja.Saldeitis@lin-magdeburg.de

Salmen, Dr. Benedikt, AG Schmitz, Charité Neuroscience Research Center, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450539059, Email: benedikt.salmen@charite.de

Samtleben, Samira, Institute for Clinical Neurobiology, Universität Würzburg, Versbacherstrasse No.5, 97078, Würzburg, Germany, Tel.: +49 931 20144008, Email: Samtleben_S@klinik.uni-wuerzburg.de

Sander, Dr. Svenja Esther, Institute of Pharmacology and Toxicology, Department of Veterinary Science, Freie Universität Berlin, Koserstr. 20, 14195, Berlin, Germany, Tel.: +49 30 83853532, Email: svenja.sander@fu-berlin.de

Sandoz, Dr. Jean-Christophe, Evolution Genomes Speciation Lab, CNRS, 1 avenue de la Terrasse, 91198, Gif-sur-Yvette, France, Tel.: +331 6982 3751, Email: sandoz@legs.cnrs-gif.fr

Sartori, Raffaella, Sales Dept., Ugo Basile S.r.l., Via Guido Borghi, 43, 21025, Comerio (Va), Italy, Tel.: +39 332 744574, Email: cinzia.boldi@ugobasile.com

Sauer, Jonas-Frederic, AG Bartos - Information processing in neural networks, Institute of Physiology, Hermann-Herder Straße 7, 79104, Freiburg, Germany, Tel.: +49 761 2035157, Email: jonas.sauer@physiologie.uni-freiburg.de

Schachtner, Prof. Joachim, Biology, Philipps-Univrsität Marburg, Karl-von-Frisch-Str. 8, 35032, Marburg, Germany, Tel.: +49 6421 2826240, Email: schachtj@staff.uni-marburg.de

Schäfer, Simon Thomas, Institut für Anatomie und Zellbiologie, Universität Greifswald, Friedrich-Löffler-Str. 23c, 17489, Greifswald, Germany, Tel.: +49 3834 855831, Email: simon.thomas.schaefer@googlemail.com

Schäfer, Ph.D. Christina, Productmanager, HiSS Diagnostics GmbH, Güterhallenstr. 3, 79106, Freiburg, Germany, Tel.: +49 761 389490, Email: ch.schaefer@hiss-dx.de

Schaefer, Natascha, AG Villmann, Institute for Clinical Neurobiology, Versbacherstrasse 5, 97078, Würzburg, Germany, Tel.: +49 931 20144036, Email: Schaefer_N1@klinik.uni-wuerzburg.de

Schanze, Prof. Thomas, FB KMUB, Technische Hochschule Mittelhessen, Wiesenstr. 14, 35390, Gießen, Germany, Tel.: +49 641 3092639, Email: thomas.schanze@kmub.thm.de

Scheiblich, Hannah Christina, Physiologisches Institut, Abteilung Zellbiologie, Stiftung Tierärztliche Hochschule Hannover, Bischofsholer Damm 15, Gebäude 102, 30173, Hannover, Germany, Tel.: +49 511 8567768, Email: hannah.scheiblich@googlemail.com

Schellhorn, Klaus, CTO, neuroConn GmbH, Grenzhammer 10, 98693, Ilmenau, Germany, Tel.: +49 3677 6897922, Email: anne.klueger@neuroconn.de

Schendzielorz, Thomas, Animal Physiology, Universität Kassel, Heinrich-Plett-Str. 40, 34132, Kassel, Germany, Tel.: +49 561 8044655, Email: schendzielorz@uni-kassel.de

Scherberger, Prof. Hans, RG Neurobiology, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851494, Email: hscherb@gwdg.de

Scheunemann, Lisa, Neurogenetic, Freie Universität Berlin, Takustr. 6, 14195, Berlin, Germany, Tel.: +49 30 83856901, Email: lisa.scheunemann@fu-berlin.de

Schicker, Ph.D. Klaus, Center for Physiology and Pharmacology, Medical University of Vienna, Schwarzspanierstrasse 17, 1090, Vienna, Austria, Tel.: +43 1 4016031221, Email: klaus.schicker@meduniwien.ac.at

Schleicher, Sabine, Institute for Zoology, Universität Köln, Zülpicher Straße 47b, 50674, Köln, Germany, Tel.: +49 221 4702605, Email: sabine.schleicher@uni-koeln.de

Schlenther, Désirée, Neurobiology and Biosensors, Institute for Cell Biology and Neuroscience, Max-von-Laue-Str. 13, 60438, Frankfurt, Germany, Tel.: +49 69 79842065, Email: desiree.schlenther@gmx.de

Schmeer, Ph.D. Christian Walter, Experimental Neurology, Hans-Berger Department of Neurology, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325828, Email: christian.schmeer@med.uni-jena.de

Schmid, Dr. Heiko, Experimental Eye Reserach Institute, Knappschafts-krankenhaus, In der Schornau 23-25, 44892, Bochum, Germany, Tel.: +49 234 2993158, Email: heiko.schmid@rub.de

Schmidt, Maximilian, Institut für Neurowissenschaften und Medizin, Forschungszentrum Jülich, INM-6, 52425, Jülich, Germany, Tel.: +49 2461 619472, Email: max.schmidt@fz-juelich.de

Schmidt, Prof. Rupert, Biotechnology Centre, Justus-Liebig-Universität, Leihgesterner Weg 217, 35392, Giessen, Germany, Tel.: +49 641 9916500, Email: Rupert.Schmidt@zbb.uni-giessen.de

Schmidt, Dr. Joachim, Zoologisches Institut, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4706135, Email: joachim.schmidt@uni-koeln.de

Schmidt, Alexander, Max-Planck-Institute for Dynamics and Self-Organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 176 34404785, Email: alexander.schmidt3@stud.uni-goettingen.de

Schmidt, Sein, Dept. Neurology, Charité, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450560045, Email: Sein.Schmidt@charite.de

Schmidtke, Daniel, Auditory Neuroethology and Neurobiology Laboratory, Institute of Zoology, University of Veterinary Medicine Hannover, Bünteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538427, Email: Daniel.Schmidtke@tiho-hannover.de

Schmitt, Prof. Oliver, Anatomy, University Rostock, Gertrudenstr. 9, 18055, Rostock, Germany, Tel.: +49 381 4948408, Email: schmitt@med.uni-rostock.de

Schmitt, Franziska Veronika, Biozentrum, Zoology II, Universität Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3186906, Email: Franziska.Schmitt@stud-mail.uni-wuerzburg.de

Schmitt, Ph.D. Angelika G., Department of Psychiatry, Psychosomatics and Psychotherapy, University of Würzburg, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 20177350, Email: angelika.schmitt@mail.uni-wuerzburg.de

Schmitt, Cornelia, Buchmann Institute of molecular life siences, Goethe Universität Frankfurt, Max-von-Laue-Strasse 15, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842519, Email: schmitt@biochem.uni-frankfurt.de

Schmitz, Prof. Josef, Biological Cybernetics, Universität Bielefeld, Universitätsstr. 25, 33615, Bielefeld, Germany, Tel.: +49 521 1065532, Email: josef.schmitz@uni-bielefeld.de

Schnaitmann, Christopher, Behavioural Genetics, Max-Planck-Institute of Neurobiology, Am Klopferspitz 18, 82152, Martinsried, Germany, Tel.: +49 89 85783791, Email: schnaitmann@neuro.mpg.de

Schneggenburger, Prof. Ralf, Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, EPFL, Station 19, 1015, Lausanne, Switzerland, Tel.: +41 21 6935364, Email: ralf.schneggenburger@epfl.ch

Schneider, Prof. Toni, Institute for Neurophysiology, University of Cologne, Robert-Koch-Str. 39, 50931, Köln, Germany, Tel.: +49 221 4786946, Email: toni.schneider@uni-koeln.de

Schneider, Ph.D. Till R., Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Martinistr. 52, 20246, Hamburg, Germany, Tel.: +49 40 741053188, Email: t.schneider@uke.de

Schnell, Dr. Christian, Neurophysiologie und Zelluläre Biophysik, Universitätsmedizin Göttingen, Humboldtallee 23, 37073, Göttingen, Germany, Tel.: +49 551 3912205, Email: christian.schnell@medizin.uni-goettingen.de

Schnichels, Ph.D. Sven, Centre for Ophthalmology, Universitätsaugenklinik, Schleichstr. 12/1, 72076, Tübingen, Germany, Tel.: +49 7071 2984015, Email: sven.schnichels@med.uni-tuebingen.de

Schnurr, Alexander, Integrative Sinnesphysiologie, Justus-Liebig-Universität Gießen, IFZ - Heinrich-Buff-Ring 26, 35392, Gießen, Germany, Tel.: +49 641 9935271, Email: alexander.schnurr@bio.uni-giessen.de

Schöneich, Dr. Stefan, Department of Zoology, University of Cambridge, Downing Street, CB2 3EJ, Cambridge, United Kingdom, Tel.: +44 01223 769013, Email: ss817@cam.ac.uk

Schönle, Isabel, Pharmakologie und Toxikologie, Ruhruniversität Bochum, Universitätsstrasse 150, 44780, Bochum, Germany, Tel.: +49 234 3224990, Email: isabel.schoenle@rub.de

Scholl, Christina, Behavioral Physiology and Sociobiology, Universität Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3186906, Email: christina.scholl@uni-wuerzburg.de

Scholvinck, Ph.D. Marieke Louise, Fries Laboratory, Ernst Strüngmann Institute for Neuroscience, Deutschordenstrasse 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769518, Email: marieke.scholvinck@esi-frankfurt.de

Schopf, Christian, Institute of Zoology, University of Veterinary Medicine Hannover, Foundation, Bünteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538743, Email: christian.schopf@tiho-hannover.de

Schottdorf, Manuel, Theoretical Neurophysics, Max-Planck-Institut für Dynamik und Selbstorganisation, Am Faßberg 17, D-37077, Göttingen, Germany, Tel.: +49 551 5176430, Email: manuel@nld.ds.mpg.de

Schrader, Dr. Henning, Vertrieb Deutschland, Carl Zeiss Microscopy GmbH, Königsallee 9-21, 37081, Göttingen, Germany, Tel.: +49 551 5060660, Email: henning.schrader@zeiss.com

Schreiner, Ph.D. Dietmar, Cell Biology/Neurobiology, Biozentrum/Uni Basel, Klingelbergstrasse 50-70, 4056, Basel, Switzerland, Tel.: +41 61 2672062, Email: Dietmar.Schreiner@unibas.ch

Schreiner, Claudia, Institute of Neuroscience and Medicine, Research Center Jülich, Leo-Brandt-Str., 52074, Jülich, Germany, Tel.: +49 241 95785439, Email: c.schreiner@fz-juelich.de

Schröder, Sabrina, Institute for Anatomy and Cell Biology, AG von Holst, Universität Heidelberg, Im Neuenheimerfeld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548673, Email: schroeder@ana.uni-heidelberg.de

Schroedl, Magdalena, Anatomy and Cell Biology, Universität Freiburg, Albertstr. 17, 79104, Freiburg, Germany, Tel.: +49 761 2035373, Email: magdalena.schroedl@anat.uni-freiburg.de

Schröer, Dr. Uwe, Area Sales Manager, LaVision BioTec GmbH, Astastrasse 14, 33617, Bielefeld, Germany, Tel.: +49 521 9151390, Email: schroeer@lavisionbiotec.com

Schubert, Dr. Marco, Institut für Biologie - Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28/30, 14195, Berlin, Germany, Tel.: +49 30 83854675, Email: m.schubee@gmx.de

Schubert, Ph.D. Timm, Ophthalmic Research, CIN - Centre for Integrative Neuroscience Institute for Ophthalmic Research, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 2984749, Email: timm.schubert@cin.uni-tuebingen.de

Schuh, Johannes, Animal Physiology, AG Homberg, Philipps-Universität Marburg, Karl-von-Frisch-Straße 8, 35043 Marburg, Marburg, Germany, Tel.: +49 6421 2823416, Email: schuh@students.uni-marburg.de

Schuldt, Dr. Claus, Referat 58, Regierungspräsidium, Konrad-Adenauer-Str. 42, 72072, Tübingen, Germany, Tel.: +49 7071 7575212, Email: claus.schuldt@rpt.bwl.de

Schultze, Anna, Institute of Physiology, Universität Hohenheim, Garbenstr. 30, 70599, Stuttgart, Germany, Tel.: +49 711 45922265, Email: A.Schultze@uni-hohenheim.de

Schulz, Dr. Andreas L., System Physiology of Learning, Leibniz Institute for Neurobiology, Brenneckestr 6, 39118, Magdeburg, Germany, Tel.: +49 391 626394381, Email: andreas.schulz@ifn-magdeburg.de

Schulze, Julia, Animal Physiology, Universität Kassel, Heinrich-Plett-Straße 40, 34132, Kassel, Germany, Tel.: +49 561 8044726, Email: julia.schulze@uni-kassel.de

Schuman, Prof. Erin M., Synaptic Plasticity, Max Planck Institute for Brain Research, Deutschordenstr. 46, 60438, Frankfurt am Main, Germany, Tel.: +49 69 5068201000, Email: erin.schuman@brain.mpg.de

Schuster, Steffen, Institute of Cell Biology and Neurobiology, Charité-Universitätsmedizin Berlin, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 172 1656650, Email: steffen.schuster@gmail.com

Schwandt, Jessika, Institute of Cognitive Science, Universität Osnabrück, Albrechtstr. 28, 49076, Osnabrück, Germany, Tel.: +49 541 9693532, Email: jschwand@uos.de

Schwarting, Prof. Rainer, Faculty of Psychology, Philipps-University of Marburg, Gutenbergstr. 18, 35032, Marburg, Germany, Tel.: +49 6421 2823636, Email: schwarti@staff.uni-marburg.de

Schwarz, Prof. Guenter, Department of Chemistry, Institute of Biochemistry, Universität Köln, Zülpicher Str. 47, 50674, Köln, Germany, Tel.: +49 221 4706440, Email: gschwarz@uni-koeln.de

Schwarzwaelder, Dr. Kerstin, Bernstein Coordination Site, University of Freiburg, Hansastrasse 9a, 79104, Freiburg, Germany, Tel.: +49 761 2039594, Email: schwarzwaelder@bcos.uni-freiburg.de

Schwedler, Michael, Vertrieb Deutschland, Carl Zeiss Microscopy GmbH, Königsallee 9-21, 37081, Göttingen, Germany, Tel.: +49 551 5060660, Email: michael.schwedler@zeiss.com

Schweinhuber, Stefanie, Zoological Institute, Cellular Neurobiology, TU Braunschweig, Spielmannstraße 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913185, Email: s.schweinhuber@tu-bs.de

Schweitzer, Barbara C., Neurochemistry & Molecular Biology, Leibniz Institute for Neurobiology, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393341, Email: bschweit@lin-magdeburg.de

Schwesig, M.D. Gerrit, Physiology of cortico-hippocampal interactions, Centre for Integrative Neuroscience, Otfried-Müller-Str. 25, 72076, Tübingen, Germany, Tel.: +49 7071 29898884, Email: gerrit.schwesig@cin.uni-tuebingen.de

Seffer, Ph.D. Dominik, Experimental and Physiological Psychology, Philipps-University of Marburg, Gutenbergstraße 18, 35032, Marburg, Germany, Tel.: +49 6421 2823646, Email: seffer@staff.uni-marburg.de

Seiberlich, Veronika, Molecular Neurobiology/Neurochemistry, Carl-von-Ossietzky-Universität, Carl von Ossietzky Straße 9-11, 26129, Oldenburg, Germany, Tel.: +49 441 7983287, Email: veronika.seiberlich@uni-oldenburg.de

Seidel, Viktoria G., Centre for Integrative Physiology, University of Edinburgh, George Square, EH8 9XD, Edinburgh, United Kingdom, Tel.: +44 131 6503110, Email: vgseidel@gmail.com

Seidl, Dr. Armin Harry, Virginia Merrill Bloedel Hearing Research Center, University of Washington, Box 357923, WA 98195, Seattle, USA, Tel.: +1 206 6164152, Email: armins@uw.edu

Seidler, Ph.D. Norbert Wendelin, Biochemistry, Kansas City University of Medicine and Biosciences, 1750 Independence Ave, MO 64106, Kansas City, USA, Tel.: +1 816 6547612, Email: nseidler@kcumb.edu

Seifert, Bianca, Institute of Physiology, Medical Faculty, Otto-von-Guericke-Universität, Leipziger Straße 44, 39120, Magdeburg, Germany, Tel.: +49 391 6717979, Email: bianca.seifert@med.ovgu.de

Seja, Dr. Patricia, Department of Biosciences, University of Helsinki, P.O.BOX 65, 00014, Helsinki, Finland, Tel.: +358 9 19159834, Email: patricia.seja@helsinki.fi

Selcho, Dr. Mareike, Neurobiology and Genetics, Universität Würzburg, Biocenter, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3186705, Email: mareike.selcho@uni-wuerzburg.de

Seltmann, Susanne, Department of Behavioural Neurobiology, Max Planck Institute for Ornithology, Eberhard-Gwinner-Str. 6a, 82319, Seewiesen, Germany, Tel.: +49 8157 932392, Email: sseltmann@orn.mpg.de

Sendelbeck, Anna, Department of Biology, Animal Physiology, Universität Erlangen-Nürnberg, Staudtstrasse 5, 91058, Erlangen, Germany, Tel.: +49 9131 8528059, Email: a.sendelbeck@biologie.uni-erlangen.de

Senkov, Ph.D. Oleg, Molekulare Neuroplastizität, Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE), Leipziger Strasse 44, Haus 15, 39120, Magdeburg, Germany, Tel.: +49 391 626392211, Email: oleg.senkov@dzne.de

Sergeeva, Ph.D. Elena G., Institute of Medical Psychology, Otto-von-Guericke Universität Magdeburg, Leipziger Strasse 44, 39120, Magdeburg, Germany, Tel.: +49 391 6721800, Email: elena.sergeeva@med.ovgu.de

Shaban, Ph.D. Hamdy, Neuroscience, Janssen Pharmaceutica, Turnhoutsweg 30, 2340, Beerse, Belgium, Tel.: +321 14 603988, Email: hamdy.shaban@gmx.com

Sharopov, Salim, Institute of Physiology and Pathophysiology, Universitätsmedizin der Johannes Gutenberg-Universität Mainz, Duesbergweg 6, 55128, Mainz, Germany, Tel.: +49 6131 24548, Email: sharopov@uni-mainz.de

Sieben, Kay, Developmental Neuroscience, UKE, ZMNH, Martinistr. 52, 20246, Hamburg, Germany, Tel.: +49 40 741056597, Email: kay.sieben@zmnh.uni-hamburg.de

Siegert, Dr. Sandra, Department of Brain and Cognitive Science, MIT/The Picower Institute for Learning and Memory, 77 Massachusetts Avenue, Building 46, Room 42, MA 02139-4307, Cambridge, USA, Tel.: +1 617324 1654, Email: ssiegert@mit.edu

Sigrist, Prof. Stephan J, Neurogenetics, Freie Universität Berlin, Paulsenstrasse 1, 14195, Berlin, Germany, Tel.: +49 30 83856940, Email: stephan.sigrist@fu-berlin.de

Singer, Dr. Wibke, Molecular Physiology of Hearing, THRC, Universität Tübingen, Elfriede-Aulhron-Str. 5, 72076, Tübingen, Germany, Tel.: +49 7071 2988246, Email: Wibke.Singer@uni-tuebingen.de

Singh, Jeet Bahadur, Extra cellular matrix, Neurochemistry, Leibniz Institute for Neurobiology, Magdeburg, Germany, Brenneckestr. 6, 39118, Magdeburg, Germany, Tel.: +49 391 626393341, Email: Jeet.Singh@ifn-magdeburg.de

Siveke, Dr. Ida, Division of Neurobiology, Ludwig-Maximilians-Universität München, Grosshaderner Str. 2, 82152, München, Germany, Tel.: +49 89 218074355, Email: ida.siveke@lmu.de

Siwek, Magdalena Elisabeth, Cellular and systemic Neurophysiology, Federal Institute for Drugs and Medical Devices, Kurt-Georg-Kiesinger-Allee 3, 53175, Bonn, Germany, Tel.: +49 0228 99307381, Email: Magdalena.Siwek@bfarm.de

Sköld, Ph.D. Karl, R&D, Denator AB, Arvid Wallgrens backe 20, 413 46, Gothenburg, Sweden, Tel.: +46 31 412841, Email: karl@denator.com

Slovin, Ph.D. Hamutal, Gonda Brain Research Center, Bar Ilan Univ., North Campus, 52900, Ramat Gan, Israel, Tel.: +972 3 5317140, Email: hamutal.slovin@biu.ac.il

Smarandache-Wellmann, Dr. Carmen, Animal Physiology / Zoological Institute, Universität Köln, Zuelpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4708068, Email: carmen.wellmann@uni-koeln.de

Smith, Ph.D. Robert G., Department of Neuroscience, University of Pennsylvania, Rm 123, Anat-Chem Bldg /6058, 422 Curie Blvd., PA 19104, Philadelphia, USA, Tel.: +1 215 5733211, Email: rob@retina.anatomy.upenn.edu

Sobolev, Andrey, German Neuroinformatics Node, Ludwig-Maximilians-Universität, Grosshaderner Str. 2, 82152, Planegg, Germany, Tel.: +49 151 11021092, Email: sobolev.andrey@gmail.com

Solecki, Ph.D. David Joseph, Developmental Neurobiology, St. Jude Children's Research Hospital, 262 Danny Thomas Place, 38105, Memphis, USA, Tel.: +1 901 4388912, Email: david.solecki@stjude.org

Sompolinsky, Prof. Haim, The Edmond and Lily Safra Center for Brain Sciences, The Hebrew University, Neurophysics Lab Silberman Building Room 3-30, 91904, Jerusalem, Israel, Tel.: +972 2 6584563, Email: haim@fiz.huji.ac.il

Spanou, Elena, Cognitive Neuroscience Lab, Decision and Awareness Group, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851389, Email: elenaspanou@gmail.com

Spehr, Prof. Marc, Institute for Biology II, Dept. Chemosensation, RWTH-Aachen University, Worringer Weg 1, Sammelbau Biologie, 42D / Ra, 52074, Aachen, Germany, Tel.: +49 241 8020802, Email: m.spehr@sensorik.rwth-aachen.de

Spittau, Dr. Björn, Department of Molecular Embryology, Albert-Ludwigs-Universität Freiburg, Institute for Anatomy and Cell Biology, Albertstraße 17, 79104, Freiburg, Germany, Tel.: +49 761 2035092, Email: bjoern.spittau@anat.uni-freiburg.de

Spoida, Katharina Margaretha, General Zoology and Neurobiology, Ruhr-University Bochum, Universitätsstr. 150, 44801, Bochum, Germany, Tel.: +49 234 3227246, Email: Katharina.Spoida@rub.de

Spring, Karsten, Sales&Marketing, Hugo Sachs Elektronik - Harvard Apparatus GmbH, Gruenstr. 1, 79232, March-Hugstetten, Germany, Tel.: +49 2241 204416, Email: kspring@hugo-sachs.de

Srivatsa, Swathi, Cortical Development Group, Institute for Cell and Neurobiology, Charité, Philippstr 12, 10117, Berlin, Germany, Tel.: +49 30 450528403, Email: swathi.srivatsa@charite.de

Stahlberg, Markus, Trans-Synaptic Signaling, European Neuroscience Institute, Grisebachstraße 5, 37077, Göttingen, Germany, Tel.: +49 551 3913894, Email: m.stahlberg@eni-g.de

Staiger, Prof. Jochen, Neuroanatomy, Georg-August-Universität, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 397052, Email: jochen.staiger@med.uni-goettingen.de

Stange, Dr. Annette, Division of Neurobiology, Ludwig-Maximilians-Universität München, Grosshadernerstr. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074337, Email: stange@bio.lmu.de

Stangl, Dr. Christoph, Sales Department, Multi Channel Systems MCS GmbH, Aspenhaustr. 21, 72770, Reutlingen, Germany, Tel.: +49 7121 909250, Email: stangl@multichannelsystems.com

Stemmler, Ph.D. Torsten, Institute for Biology 2, RWTH Aachen, Mies-van-der-Rohe-Strasse 15, 52074, Aachen, Germany, Tel.: +49 241 8020829, Email: stemmler@uni-bremen.de

Stengl, Prof. Monika, Biology, Animal Physiology, Universität Kassel, Heinrich-Plett-Str. 40, 34132, Kassel, Germany, Tel.: +49 561 8044564, Email: stengl@uni-kassel.de

Stephan, Valeska Marija, Cognitive Neuroscience Laboratory, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851345, Email: vstepha@gwdg.de

Stephan, Dr. Jonathan, Animal Physiology Group, Universität Kaiserslautern, Erwin-Schoedinger-Strasse 13, 67663, Kaiserslautern, Germany, Tel.: +49 631 2055002, Email: jonathan.stephan@bio.uni-kl.de

Stern, Dr. Michael, Cell Biology, University of Veterinary Medicine Hannover, Bischofsholer Damm 15/102, 30173, Hannover, Germany, Tel.: +49 511 8567767, Email: michael.stern@tiho-hannover.de

Stetter, Olav, Nonlinear Dynamics, Max-Planck-Insitute for Dynamics and Self-Organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 551 5176444, Email: olav@nld.ds.mpg.de

Steuer Costa, Wagner, Cell Biology and Neurobiochemistry, Buchmann Institute for Molecular Life Sciences, Max-von-Laue-Str. 15, 60438, Frankfurt, Germany, Tel.: +49 69 79842519, Email: wasteuer@stud.uni-frankfurt.de

Stevenson, Prof. Paul Anthony, Institute for Biology, University of Leipzig, Talstr. 33, 04103, Leipzig, Germany, Tel.: +49 341 9736879, Email: stevenson@rz.uni-leipzig.de

Stitt, Iain Maurice, Dept. of Neurophysiology and Pathophysiology, Universitätsklinikum Hamburg-Eppendorf, Martinistr. 52, 20246, Hamburg, Germany, Tel.: +49 40 741056853, Email: i.stitt@uke.de

Stodieck, Sophia Katharina, Biology, Systems Neuroscience, Georg-August-Universität Göttingen, Bernstein Focus for Neurotechnology (BFNT), Von-Siebold-Str. 4, 37075, Göttingen, Germany, Tel.: +49 174 3990395, Email: sophia.stodieck@gmail.com

Stoll, Josef, AG Neurophysik, Philipps-Universität Marburg, Fachbereich Physik, Karl-von-Frisch-Strasse 8a, 35043, Marburg, Germany, Tel.: +49 6421 2824176, Email: josef.stoll@physik.uni-marburg.de

Stoya, Dr. Gudrun, Institute of Anatomy I, Jena University Hospital, Teichgraben 7, 07743, Jena, Germany, Tel.: +49 3641 938543, Email: gsto@mti.uni-jena.de

Strauß, Dr. Johannes, AG Integrative Sensory Physiology, Institute of Animal Physiology, IFZ – Heinrich-Buff-Ring 26, 35392, Giessen, Germany, Tel.: +49 641 9935253, Email: johannes.strauss@physzool.bio.uni-giessen.de

Strauss, Prof. Roland, Institut für Zoologie III - Neurobiologie, Johannes Gutenberg-Universität Mainz, Colonel-Kleinmann-Weg 2, 55099, Mainz, Germany, Tel.: +49 6131 3925034, Email: rstrauss@uni-mainz.de

Strehl, Aurelien, Dept. 8.3 Biosciences Zoology/Physiology-Neurobiology, Universität des Saarlandes, Campus, 66123, Saarbrücken, Germany, Tel.: +49 681 30258136, Email: aurelienstrehl@hotmail.fr

Strenzke, Nicola, InnerEarLab, Dept. of Otolaryngology, Universität Göttingen Medical School, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 399688, Email: NStrenzke@med.uni-goettingen.de

Strotmann, Prof. Jörg, Physiology, Universität Hohenheim, Garbenstrasse 30, 70593, Stuttgart, Germany, Tel.: +49 711 45923137, Email: strotman@uni-hohenheim.de

Strube-Bloss, Dr. Martin Fritz, Department of Evolutionary Neuroethology, Max Plank Institute for Chemical Ecology, Hans-Knoell Strasse 8, 07745, Jena, Germany, Tel.: +49 3641 571452, Email: mstrube-bloss@ice.mpg.de

Strutz, Antonia, Evolutionary Neuroethology, Max-Planck-Institute for Chemical Ecology, Hans-Knoell-Str. 8, 07745, Jena, Germany, Tel.: +49 3641 571453, Email: astrutz@ice.mpg.de

Sturm, Richard, AG von Holst, Institute for Anatomy and Cell Biology Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548673, Email: sturm@ana.uni-heidelberg.de

Stutzki, Henrike, Neurochip Research Group, NMI, Markwiesenstraße 55, 72770, Reutlingen, Germany, Tel.: +49 7121 51530843, Email: henrike.stutzki@nmi.de

Sun, Ping, Department of Psychiatry, Psychosomatics and Psychotherapy, University of Würzburg, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 77541, Email: josp124@gmail.com

Sungur, A. Özge, Experimental and Physiological Psychology, Philipps-Universität Marburg, Gutenbergstr. 18, 35032, Marburg, Germany, Tel.: +49 6421 2823678, Email: oezge.sungur@staff.uni-marburg.de

Suriya-Arunroj, Lalitta, Sensorimotor Group, Universität Göttingen, Deutsches Primatenzentrum, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851360, Email: lsuriya-arunroj@dpz.eu

Suska, Ph.D. Anna, Molecular Neurobiology, European Neuroscience Institute, Grisebachstr. 5, 37077, Göttingen, Germany, Tel.: +49 551 3910377, Email: asuska@gwdg.de

Sygnecka, Katja, TRM Leipzig, Universität Leipzig, Philipp-Rosenthal-Straße 55, 04103, Leipzig, Germany, Tel.: +49 0341 9724606, Email: katja.sygnecka@trm.uni-leipzig.de

Szegö, Dr. Éva M., Dept. Neurodegeneration, Universität Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3913546, Email: eszego@gwdg.de

Taghizadeh, Bahareh, Sensorimotor Group, Universität Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 551 3851360, Email: btaghizadeh@dpz.eu

Takeshita, Ph.D. Daisuke, Department of Ophthalmology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 3991248, Email: daisuke.takeshita@med.uni-goettingen.de

Tanimoto, Dr. Hiromu, Verhaltensgenetik, Max-Planck-Institut für Neurobiologie, Am Klopferspitz 18, 82152, Martinsried, Germany, Tel.: +49 89 85783492, Email: hiromut@neuro.mpg.de

Tarabykin, Prof. Victor, CCO - Institut für Zell- und Neurobiologie, Charité -Universitätsmedizin Berlin, Charitéplatz 1, 10117, Berlin, Germany, Tel.: +49 30 450628418, Email: victor.tarabykin@charite.de

Taschenberger, Dr. Grit, Dept. of Neurology, Universität Göttingen, Waldweg 33, 37075, Göttingen, Germany, Tel.: +49 551 3914475, Email: gtasche@gwdg.de

Tatenhorst, Dr. Lars, Neurology, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 394749, Email: lars.tatenhorst@med.uni-goettingen.de

Tchaptchet, Aubin, Institute of Physiology and Pathophysiology, Philipps Universität Marburg, Deutschhaustr. 2, 35037, Marburg, Germany, Tel.: +49 6421 2862305, Email: aubin.tchaptchet@googlemail.com

Tellers, Philipp, Institute for Biology II, RWTH - Aachen, Mies-van-der-Rohe-Straße 15, 52074, Aachen, Germany, Tel.: +49 241 8020819, Email: tellers@bio2.rwth-aachen.de

ten Bruggencate, Prof. Gerrit, Fontanestr. 18, 14193, Berlin, Germany, Tel.: +49 30 66774244, Email: ten.bruggencate@lrz.uni-muenchen.de

Ter Maat, Dr. Andries, Behavioural Neurobiology, Max-Planck-Institute for Ornithology, Eberhard-Gwinner-Str. 6a, 82319, Seewiesen, Germany, Tel.: +49 8157 932274, Email: termaat@orn.mpg.de

Tetzlaff, Christian, Computational Neuroscience - Biophysics, Faculty of Physics - Universität Göttingen, Friedrich-Hund-Platz 1, 37077, Göttingen, Germany, Tel.: +49 551 3910762, Email: tetzlaff@physik3.gwdg.de

Tetzlaff, Dr. Tom, Inst. of Neuroscience and Medicine (INM-6), Jülich Research Center, Leo-Brandt-Str., 52425, Jülich, Germany, Tel.: +49 2461 619466, Email: t.tetzlaff@fz-juelich.de

Thamm, Dr. Markus, Zoophysiologie, Universität Potsdam, Karl-Liebknecht-Straße 24-25, 14476, Potsdam, Germany, Tel.: +49 331 9775539, Email: mthamm@uni-potsdam.de

Theden, Florian, RD, Audiocure Pharma GmbH, Schlegelstrasse 9, 10115, Berlin, Germany, Tel.: +49 30 275617995, Email: ft@audiocure.de

Theilmann, Wiebke, Department of Pharmacology, Toxicology, and Pharmacy, University of Veterinary Medicine Hannover, Bünteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538594, Email: w.theilmann@googlemail.com

Theis, Prof. Martin, Institute of Cellular Neurosciences, Universität Bonn, Sigmund-Freud-Str. 25, 53105, Bonn, Germany, Tel.: +49 228 28715969, Email: martin.theis@ukb.uni-bonn.de

Theparambil, Shefeeq M., General Zoology, TU Kaiserslautern, Postfach 3049, 67653, Kaiserslautern, Germany, Tel.: +49 631 2052565, Email: mtsbiophysics@gmail.com

Theunissen, Leslie M., Biological Cybernetics, Universität Bielefeld, Universitätsstr. 25, 33615, Bielefeld, Germany, Tel.: +49 521 1065530, Email: ltheunissen@uni-bielefeld.de

Thiel, Prof. Christiane M., Department of Psychology, University of Oldenburg, Ammerländer Heer Str. 114-118, 26111, Oldenburg, Germany, Tel.: +49 441 7983641, Email: christiane.thiel@uni-oldenburg.de

Thiele, Prof. Alexander, Institute of Neuroscience, Newcastle University, Framlington Place, NE2 4HH, Newcastle upon Tyne, United Kingdom, Tel.: +44 191 2227564, Email: alex.thiele@ncl.ac.uk

Thoumine, Ph.D. Olivier, Interdisciplinary Institute for Neuroscience, CNRS - University of Bordeaux, 146 rue Léo saignat, 33077, Bordeaux, France, Tel.: +331 5 57575744, Email: othoumin@u-bordeaux2.fr

Thran, Julia, Neurobiology, University of Mainz, Colonel-Kleinmann-Weg 2, 55099, Mainz, Germany, Tel.: +49 6131 27265, Email: thranj@uni-mainz.de

Thurley, Dr. Kay, Computational Neuroscience, Ludwig-Maximilians-Universität München, Großhaderner Straße 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074823, Email: thurley@bio.lmu.de

Tillmann, Sandra, Behavioural and Molecular Neurobiology, University of Regensburg, Rotteneckstr. 12, 93053, Regensburg, Germany, Tel.: +49 176 96528525, Email: Sandra.tillmann@msn.com

Tinter, Juliane, Rumpel Group, Research Institute of Molecular Pathology IMP, Dr. Bohr-Gasse 7, 1030, Vienna, Austria, Tel.: +43 699 19060780, Email: tinter@imp.ac.at

Töllner, Ph.D. Kathrin, Department of Pharmacology, Toxicology and Pharmacy, University of Veterinary Medicine Hannover, Bünteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538722, Email: kathrin.toellner@tiho-hannover.de

Tömen, Nergis, Department of Physics, Group of Theoretical Neurophysics, Universität Bremen, Gebäude Cognium, Hochschulring 18, Postfach 3, 28334, Bremen, Germany, Tel.: +49 421 21862000, Email: nergis@neuro.uni-bremen.de

Toepfer, Franziska, AG Heisenberg, Rudolf-Virchow-Zentrum Würzburg, Josef-Schneider-Str. 2, 97080, Würzburg, Germany, Tel.: +49 931 3189036, Email: franziska.toepfer@uni-wuerzburg.de

Torab, Kian, Sales Department, Blackrock Microsystems, 391 Chipeta Way, Suite G, 84101, Salt Lake City, USA, Tel.: +1 801 5825533, Email: ktorab@blackrockmicro.com

Torre, Emiliano, Computational and Systems Neuroscience, Institute of Neuroscience and Medicine, Binsfelder Strasse 1, 52351, Düren, Germany, Tel.: +49 176 30515512, Email: e.torre@fz-juelich.de

Trattner, Barbara, Neurobiology, Ludwig-Maximilians-Universität München, Großhaderner Straße 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074365, Email: trattner@bio.lmu.de

Trauner, Prof. Dirk, Department of Chemistry, Ludwig-Maximilians-Universität München, Butenandtstr. 5-9, 81377, München, Germany, Tel.: +49 89 218077800, Email: dirk.trauner@lmu.de

Trebels, Björn, Department of Biology, Philipps-Universität Marburg, Karl-von-Frisch-Straße 8, 35032, Marburg, Germany, Tel.: +49 6421 2823494, Email: Trebelsb@students.uni-marburg.de

Trepte, Philipp, Proteomics and Molecular Mechanisms of Neurodegenerative Diseases, Max-Delbrück-Center for Molecular Medicine, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94892147, Email: philipp.trepte@mdc-berlin.de

Trilck, Michaela, Albrecht-Kossel-Institute for Neuroregeneration, Universität Rostock, Gehlsheimer Straße 20, 18147, Rostock, Germany, Tel.: +49 381 4949771, Email: michaela.trilck@uni-rostock.de

Tritsch, Ph.D. Eva, Technical and Sales Support Organization, Merck Millipore, 39, Route Industrielle de la Hardt, 67124, Molsheim, France, Tel.: +331 39046 9576, Email: eva.tritsch@merckgroup.com

Tron, Nanina, Institute for Animal Physiology, AG Integrative Sensory Physiology, Justus-Liebig-Universität Gießen, Heinrich-Buff-Ring 38, 35392, Gießen, Germany, Tel.: +49 177 6126708, Email: nanina.tron@bio.uni-giessen.de

Trost, Lisa, Behavioural Neurobiology, Max-Planck-Institute for Ornithology, Eberhard-Gwinner-Str. 6a, 82319, Seewiesen, Germany, Tel.: +49 8157 932280, Email: trost@orn.mpg.de

Tuoc, Ph.D. Tran Cong, Molecular Developmental Neurobiology, Max-Planck-Institute for Biophysical Chemistry, Am Fassberg 11, 37077, Göttingen, Germany, Tel.: +49 551 2011469, Email: tcong@gwdg.de

Tziridis, Ph.D. Konstantin, Experimental Otolaryngology, University Hospital Erlangen, Otorhinolaryngology - Head and Neck Surgery, Waldstrasse 1, 91054, Erlangen, Germany, Tel.: +49 9131 8543853, Email: konstantin.tziridis@uk-erlangen.de

Tzvetanov, Ph.D. Tzvetomir, none, None, 84 rue Paul Jozon, 77300, Fontainebleau, France, Tel.: +331 0 982331355, Email: tzvetomir.tzvetanov@gmail.com

Uhlig, Maximilian, Nonlinear Dynamics, Max-Planck-Institute for Dynamics and Self-Organization, Am Faßberg 17, 37077, Göttingen, Germany, Tel.: +49 162 5248876, Email: maxu@nld.ds.mpg.de

Urra Quiroz, Francisco José, Dept. of Functional Neuroanatomy, Universität Heidelberg, Im Neuenheimer Feld 307, 69120, Heidelberg, BW, Germany, Tel.: +49 6221 548601, Email: urra@ana.uni-heidelberg.de

v. Wrangel, Christof, Department of Neurosurgery, Hannover Medical School, Carl-Neubert-Straße 1, 30625, Hannover, Germany, Tel.: +49 152 25849605, Email: v.wrangel@googlemail.com

van Albada, Dr. Sacha Jennifer, INM-6: Computational and Systems Neuroscience, Research Center Jülich, Leo-Brandt-Str., 52425, Jülich, Germany, Tel.: +49 2461 611944, Email: s.van.albada@fz-juelich.de

van Coevorden - Hameete, Margje Helena, Cell Biology, Universiteit Utrecht, Padualaan 8, 3584 CH, Utrecht, Netherlands, Tel.: +31 10 4651037, Email: M.H.vanCoevorden-Hameete@uu.nl

van Gaalen, Ph.D. Marcel, Behavioral Pharmacology, Abbott, Knollstrasse, 67061, Ludwigshafen, Germany, Tel.: +49 621 5892710, Email: marcel.vangaalen@abbott.com

van Leeuwen, Dr. Tessa Marije, Department of Neurophysiology, Max-Planck-Institute for Brain Research, Deutschordenstraße 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769240, Email: tessa.van-leeuwen@brain.mpg.de

van Stijn, Sylvia, Prof. Singer, Ernst Strüngmann Inst. (ESI) In Cooperation with Max-Planck-Society, Deutschordenstrasse 46, 60528, Frankfurt am Main, Germany, Tel.: +49 69 96769332, Email: svanstijn@gmail.com

Varakina, Ksenia, Molecular Physiology of Hearing, Tübingen Hearing Research Center, Elfriede-Aulhorn-Strasse 5, 72076, Tübingen, Germany, Tel.: +49 70071 298820, Email: ksenandrevna@gmail.com

Varenne, Florent, Sales Engineer, VIEWPOINT, 3 Allée des Chevreuils, 69380, LISSIEU, France, Tel.: +331 4 72179192, Email: info@viewpoint.fr

Vasileva, Dr. Mariya, Medical Cell Biology, Universität Heidelberg, INF 307, 69120, Heidelberg, Germany, Tel.: +49 6221 548601, Email: vasileva@ana.uni-heidelberg.de

Vaucher, Ph.D. Elvire, School of Optometry, Université de Montréal, CP 6128 succursale centre-ville, H3C 3J7, Montreal, Canada, Tel.: +1 514 3437537, Email: elvire.vaucher@umontreal.ca

Vega-Zuniga, Ph.D. Tomas, Lehrstuhl für Zoologie, Technische Universität München, Liesel-Beckmann Strasse 4, 85354, Freising, Germany, Tel.: +49 8161 712816, Email: tomas.vega-zuniga@tum.de

Veit, Lena, Animal Physiology, Institute of Neurobiology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 176 66881263, Email: lena.veit@gmail.com

Veit, Julia, Medicine, University of Fribourg, Chemin du Musée 5, 1700, Fribourg, Switzerland, Tel.: +41 26 3008601, Email: julia.veit@unifr.ch

Vekrellis, Ph.D. Kostas, Basic Neurosciences, Biomedical Research Foundation, Academy of Athens, Soranou Efesiou 4, 11527, Athens, Greece, Tel.: +30 210 6597498, Email: vekrellis@bioacademy.gr

Vercelli, Prof. Alessandro, Neuroscience Institute of the Cavalieri Ottolenghi Foundation, University of Torino, regione Gonzole 10, 10043, Orbassano (TO), Italy, Tel.: +39 11 6706617, Email: alessandro.vercelli@unito.it

Vergoz, Dr. Vanina, School of Biological Sciences, University of Sydney, room 253, A12 Macleay, 2006, Sydney, Australia, Tel.: +61 02 90365216, Email: vanina.vergoz@sydney.edu.au

Verhaal, Dr. Josine, Lehrstuhl für Zoologie, Technische Universität München, Liesel-Beckmann-Straße 4, 85350, Freising-Weihenstephan, Germany, Tel.: +49 8161 712812, Email: josine.verhaal@wzw.tum.de

Vezzali, Riccardo, Institut für Anatomie und Zellbiologie, Abteilung für Molekulare Embryologie, AG, Albert-Ludwigs-Universität Freiburg, Albertstr. 19, 79104, Freiburg, Germany, Tel.: +49 761 2036464, Email: riccardo.vezzali@anat.uni-freiburg.de

Villmann, Prof. Carmen, Institute for Clinical Neurobiology, Universität Würzburg, Versbacherstr. 5, 97078, Würzburg, Germany, Tel.: +49 931 20144035, Email: villmann_C@klinik.uni-wuerzburg.de

Vincent, Ph.D. Pierre, UMR7102, CNRS UPMC, 9 quai St Bernard, F-75005, Paris, France, Tel.: +331 44 272588, Email: pierre.vincent@upmc.fr

Viswanathan, Pooja, Animal Physiology, Institute of Neurobiology, University of Tübingen, Auf der Morgenstelle 28, 72076, Tübingen, Germany, Tel.: +49 7071 2972623, Email: pooja.viswanathan@student.uni-tuebingen.de

Vlachos, Dr. Andreas, Institute of Clinical Neuroanatomy, Goethe-Universität Frankfurt, Theodor-Stern-Kai 7, 60590, Frankfurt am Main, Germany, Tel.: +49 69 63016900, Email: a.vlachos@med.uni-frankfurt.de

Vogel, Prof. Tanja, Anatomy and Cell Biology, Molecular Embryology, Albert-Ludwigs-University Freiburg, Albertstr. 17, 79104, Freiburg/Breisgau, Germany, Tel.: +49 761 2035086, Email: tanja.vogel@anat.uni-freiburg.de

Voges, Ph.D. Nicole, LORIA/INRIA, Equipe Cortex-Bat C., Campus scientifique BP 239, 54506, Vandoeuvre-lès-Nancy Cedex, France, Tel.: +331 3549 58573, Email: nicole.voges@loria.fr

Vogt, Simon M., Institute for Signal Processing, Universität Lübeck, Ratzeburger Allee 160, 23562, Lübeck, Germany, Tel.: +49 451 5005816, Email: vogt@isip.uni-luebeck.de

Voigt, Mathias Benjamin, Institut für Zoologie, Tierärztliche Hochschule Hannover, Bünteweg 17, 30559, Hannover, Germany, Tel.: +49 511 9538427, Email: mathias.voigt@tiho-hannover.de

Volgushev, Prof. Maxim, Psychology, University of Connecticut, 406 Babbidge Rd, CT 06269, Storrs, USA, Tel.: +1 860 4866825, Email: maxim.volgushev@uconn.edu

Volknandt, Prof. Walter, Molecular and Cellular Neurobiology, Goethe-University, Biosciences, Max-von-Laue-Str. 13, 60438, Frankfurt, Germany, Tel.: +49 69 79842022, Email: volknandt@bio.uni-frankfurt.de

von Bohlen und Halbach, Prof. Oliver, Institut für Anatomie und Zellbiologie, Ernst-Moritz-Arndt Universität Greifswald, Friedrich-Loeffler-Str. 23c, 17487, Greifswald, Germany, Tel.: +49 3834 865313, Email: oliver.vonbohlen@uni-greifswald.de

von der Behrens, Dr. Wolfger, Institute of Pharmacology & Toxicology, University Zurich, Rämistr. 100, 8091, Zürich, Switzerland, Tel.: +41 44 255981, Email: wbehrens@pharma.uzh.ch

von Holst, Dr. Alexander, Anatomy and Cell Biology, Universität Heidelberg, INF 307, 69120, Heidebelberg, Germany, Tel.: +49 6221 548659, Email: holst@ana.uni-heidelberg.de

von Twickel, Dr. Arndt, Dept. of Animal Physiology, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4708278, Email: Arndt.Twickel@uni-koeln.de

Voronezhskaya, Dr. Elena E., Comparative Physiology, Institute of Developmental Biology Russian Academy of Sciences, Vavilov str 26, 119334, Moscow, Russia, Tel.: +7 905 7175786, Email: lenavor@gmail.com

Vuksanovic, Ph.D. Vesna, Institute for Theoretical Physics, Technische Universität Berlin, bccn, Harderberg Str. 36, 10623, Berlin, Germany, Tel.: +49 30 31427658, Email: vesna.vuksanovic@bccn-berlin.de

Wache, Susan, Institute of Cognitive Science, Neurobiopsychology, Universität Osnabrück, Albrechtstr. 28, 49076, Osnabrück, Germany, Tel.: +49 541 9693532, Email: swache@uni-osnabrueck.de

Wachtler, Dr. Thomas, Department Biologie II, Ludwig-Maximilians-Universität München, Grosshaderner Str. 2, 82152, Martinsried, Germany, Tel.: +49 89 218074810, Email: wachtler@bio.lmu.de

Wade-Martins, Ph.D. Richard, Oxford Parkinson's Disease Centre, Department of Physiology, Anatomy and Genetic, University of Oxford, South Parks Road, OX1 3QX, Oxford, United Kingdom, Tel.: +44 1865 282837, Email: richard.wade-martins@dpag.ox.ac.uk

Wadman, Prof. Wytse Jan, SILS-CNS, University of Amsterdam, SPA 904, 1098XH, Amsterdam, Netherlands, Tel.: +31 20 5257641, Email: wjwadman@gmail.com

Wagener, Robin J., Neuroanatomy, Universitätsmedizin Göttingen, Kreuzbergring 36, 37075, Göttingen, Germany, Tel.: +49 551 396876, Email: Robin.Wagener@med.uni-goettingen.de

Wagner, Prof. Hermann, Zoology, RWTH Aachen University, Mies-van-der-Rohe-Strasse 15, 52074, Aachen, Germany, Tel.: +49 241 8020822, Email: wagner@bio2.rwth-aachen.de

Wagner, Hannah Marie, Neurobiology, Universität Mainz, Zoology, Colonel-Kleinmannweg 2, 55128, Mainz, Germany, Tel.: +49 6131 3927265, Email: joger@uni-mainz.de

Wagner, Lysann, Paul-Flechsig-Institute for Brain Research, Medizinische Fakultät der Universität Leipzig, Jahnallee 59, 04109, Leipzig, Germany, Tel.: +49 341 9725754, Email: Lysann.Wagner@medizin.uni-leipzig.de

Wahane, Shalaka Dhanraj, Molecular Embryology, Albert-Ludwigs-Universität Freiburg, Albertstrasse 17, 79104, Freiburg, Germany, Tel.: +49 761 2036464, Email: shalaka.wahane@anat.uni-freiburg.de

Wahle, Prof. Petra, AG Entwicklungsneurobiologie, Ruhr Universität Bochum, Universitätsstraße 150, 44780, Bochum, Germany, Tel.: +49 234 3224367, Email: petra.wahle@rub.de

Walkowiak, Prof. Wolfgang, Biocentre Köln, Universität Köln, Zülpicher Str. 47b, 50674, Köln, Germany, Tel.: +49 221 4703119, Email: w.walkowiak@uni-koeln.de

Walle, Hagen Lothar, Neurologie, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen, Germany, Tel.: +49 551 394749, Email: h.walle@mail.com

Wallrabenstein, Ivonne, Cellphysiology, Ruhr University Bochum, Universitätsstrasse 150, 44780, Bochum, Germany, Tel.: +49 234 23529, Email: ivonne.wallrabenstein@rub.de

Wang, Shaobo, Institute for Structural Neurobiology, Center for Molecular Neurobiology Hamburg, Falkenried 94, 20251, Hamburg, Germany, Tel.: +49 40 741054958, Email: shaobo.wang@zmnh.uni-hamburg.de

Wang, Tzu-Lun, Inner Ear Lab, Universität Medizin Göttingen, Robert-Koch-Str. 40, 37075, Göttingen, Germany, Tel.: +49 551 3922843, Email: twang@gwdg.de

Waniek, Alexander, Paul-Flechsig Institute for Brain Research, Universität Leipzig, Jahnallee 59, 04109, Leipzig, Germany, Tel.: +49 341 9725777, Email: alexander.waniek@medizin.uni-leipzig.de

Warren, Ph.D. Ben, Biocenter, Institut für Zoologie, Universität Köln, Zülpicher Strasse 47b, 50674, Köln, Germany, Tel.: +49 221 4705207, Email: benwarrenculex@hotmail.co.uk

Wasser, Hannah, Cell Biology, University of Veterinary Medicine Hannover, Bischofsholer Damm 15/102, 30173, Hannover, Germany, Tel.: +49 511 9537768, Email: hannah.wasser@tiho-hannover.de

Webb, Prof. Barbara, School of Informatics, University of Edinburgh, 10 Crichton St, EH8 9AB, Edinburgh, United Kingdom, Tel.: +44 131 6513453, Email: bwebb@inf.ed.ac.uk

Wegener, Prof. Christian, Neurobiology and Genetics, Biocenter, University of Würzburg, Am Hubland, 97074, Würzburg, Germany, Tel.: +49 931 3185380, Email: christian.wegener@uni-wuerzburg.de

Wei, Dr. Hongying, Department of Animal Physiology, Biology, Heinrich-Plett-Straße 40, 34132, Kassel, Germany, Tel.: +49 0561 8044655, Email: wei@uni-kassel.de

Weick, Dr. Michael, Ophthalmology; Sensory Processing in the Retina Group, Universitätsmedizin Göttingen, Waldweg 33, 37073, Göttingen,

Germany, Tel.: +49 551 399081, Email: michael.weick@med.uni-goettingen.de

Weiergräber, Dr. Marco, Cellular and Systemic Neurophysiology, Federal Institute for Drugs and Medical Devices (Bundesinstitut für Arzneimittel, Kurt-Georg-Kiesinger-Allee 3, 53175, Bonn, Germany, Tel.: +49 228 99307319, Email: Marco.Weiergraeber@bfarm.de

Weigel, Dr. Stefan, Zoology, Technische Universität München, Liesel-Beckmann-Strasse 4, 85354, Freising, Germany, Tel.: +49 8161 712809, Email: stefan.weigel@wzw.tum.de

Weinert, Dieter M., Neurosurgery, Helios Vogtland Clinic, Röntgenstraße 2, 08529, Plauen, Germany, Tel.: +49 170 2982099, Email: DieterWeinert@t-online.de

Weingarten, Jens, Dept. Molecular and Cellular Neurobiology, Institute for Cell Biology and Neuroscience, Max-von-Laue-Straße 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842034, Email: weingarten@bio.uni-frankfurt.de

Weise, Stefan, Molecular Embryology, Universität Freiburg, Anatomy and Cell Biology, Albertstr. 19, 79104, Freiburg, Germany, Tel.: +49 761 2036464, Email: stefan.weise@anat.uni-freiburg.de

Weißflog, Dr. Lena, Department of Psychiatry, Psychosomatics and Psychotherapy, University of Würzburg, Füchsleinstr. 15, 97080, Würzburg, Germany, Tel.: +49 931 20177360, Email: Weissflog_L@klinik.uni-wuerzburg.de

Weller, Jonathan, Zentrum Physiologie und Pathophysiologie, Universitätsmedizin Göttingen, Humboldtallee 23, 37073, Göttingen, Germany, Tel.: +49 551 3922933, Email: Jonathanw@hotmail.de

Weller, Marianna Martha Simo, Neuroinflammation und Neurodegeneration, Helmholtz Zentrum für Infektionsforschung, Spielmannstraße 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913228, Email: m.weller@tu-braunschweig.de

Werckenthin, Achim, FB 10, Biology, Animal Physiology, Universität Kassel, Heinrich-Plett-Str. 40, 34132, Kassel, Germany, Tel.: +49 561 8044727, Email: werckenthin@uni-kassel.de

Werk, Stephan, Area Sales Manager, LaVision BioTec GmbH, Astastrasse 14, 33617, Bielefeld, Germany, Tel.: +49 521 9151390, Email: werk@lavisionbiotec.com

Werneburg, Sebastian, Institute for Cellular Chemistry, Hannover Medical School, Carl-Neuberg-Straße 1, 30625, Hannover, Germany, Tel.: +49 511 5323367, Email: werneburg.sebastian@mh-hannover.de

Wernitznig, Stefan, Institute of Cell Biology, Histology and Embryology, Medical University of Graz, Harrachgasse 21, 8010, Graz, Austria, Tel.: +43 316 3804259, Email: stefan.wernitznig@stud.medunigraz.at

Westendorff, Dr. Stephanie, Laboratory for Attentional Control and Neural Circuits, York University, 4700 Keele Street (320 Lumbers Bldg), M3J 1P3, Toronto, Canada, Tel.: +1 4167362100 229, Email: swesten@yorku.ca

Westerhausen, Ph.D. René, Dept. Biol. & Med. Psychology, University of Bergen, Jonas Lies vei 91, 5009, Bergen, Norway, Tel.: +47 555 86640, Email: rene.westerhausen@psybp.uib.no

Wetzel, Prof. Christian, Lehrstuhl für Psychiatrie und Psychotherapie, Universität Regensburg, Universitätsstr. 84, 93053, Regensburg, Germany, Tel.: +49 941 9412067, Email: christian.wetzel@ukr.de

Wewetzer, Prof. Konstantin, Functional and Applied Anatomy, Hannover Medical School, Carl-Neuberg-Str. 1, 30625, Hannover, Germany, Tel.: +49 511 5325397, Email: wewetzer.konstantin@mh-hannover.de

Whitney, David Edward, Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, 15213, Pittsburgh, USA, Tel.: +1 719 6491756, Email: dwhitney@andrew.cmu.edu

Wicke, Dr. Karsten M., Neuropharmacology, Abbott GmbH & Co KG, Knollstr. 50, 67008, Ludwigshafen, Germany, Tel.: +49 621 5891256, Email: karsten.wicke@abbott.com

Wiegand, Anne, Experimental Neurology; Bioimaging, Universitätsklinikum Jena, Clinic of Neurology, Erlanger Allee 101, 07747, Jena, Germany, Tel.: +49 3641 9325910, Email: anne.wiegand@med.uni-jena.de

Wiegrebe, Prof. Lutz, Division of Neurobiology, LMU München, Department Biology II, Grosshaderner Str. 2, 82152, Planegg-Martinsried, Germany, Tel.: +49 89 218074314, Email: lutzw@lmu.de

Wierschke, Dr. Stephan, Center for Anatomy/ Institute for Cell Biology and Neurobiology, Charité Universitätsmedizin Berlin, Philippstraße 12, 10115, Berlin, Germany, Tel.: +49 30 450528059, Email: stephan.wierschke@charite.de

Wiescholleck, Ph.D. Valentina, Department of Neurophysiology, Ruhr-Universität Bochum, Universitätsstrasse 150, 44780, Bochum, Germany, Tel.: +49 234 24940, Email: valentina.wiescholleck@rub.de

Wieser, Dr. Matthias J., Department of Psychology, Universität Würzburg, Marcusstr. 9-11, 97070, Würzburg, Germany, Tel.: +49 931 3181987, Email: wieser@psychologie.uni-wuerzburg.de

Wigger, Frank, Springer Spektrum, Springer-Verlag GmbH, Tiergartenstr. 17, 69121, Heidelberg, Germany, Tel.: +49 6221 4878040, Email: frank.wigger@springer.com

Wille, Michael, Department of Anatomy, University of Rostock, Gertrudenstraße 9, 18055, Rostock, Germany, Tel.: +49 381 4948442, Email: michael.wille@uni-rostock.de

Willem, Dr. Michael, Biochemistry, Ludwig-Maximilians-Universität, Schillerstrasse 44, 80336, Munich, Germany, Tel.: +49 89 218075496, Email: mwillem@med.uni-muenchen.de

Wilms, Dr. Christian D., Neural Computation Group, Wolfson Institute for Biomedical Research – University College London, Gower Street, WC1E 6BT, London, United Kingdom, Tel.: +44 7928 389249, Email: c.wilms@ucl.ac.uk

Wirth, Dr. Marcus Joseph, Biologie II - Zoologie und Tierphysiologie, RWTH Aachen, Lukasstrasse 1, 52070, Aachen, Germany, Tel.: +49 241 8027773, Email: wirth@bio2.rwth-aachen.de

Wirtssohn, Sarah, Behavioural Physiology, Humboldt-Universität Berlin, Invalidenstraße 43 (Westbau), 10115, Berlin, Germany, Tel.: +49 30 20938729, Email: sarah.wirtssohn@biologie.hu-berlin.de

Wischmeyer, Prof. Erhard, Institute of Physiology, Universität Würzburg, Röntgenring 9, 97070, Würzburg, Germany, Tel.: +49 931 20177531, Email: e.wischmeyer@uni-wuerzburg.de

Wiskott, Prof. Laurenz, Institut für Neuroinformatik, Ruhr-Universität Bochum, Universitätsstr. 150, 44780, Bochum, Germany, Tel.: +49 234 3227997, Email: laurenz.wiskott@rub.de

Witke, Prof. Walter, Institute of Genetics, Universität Bonn, Karlrobert-Kreiten 13, 53115, Bonn, Germany, Tel.: +49 228 734211, Email: w.witke@uni-bonn.de

Witte, Dr. Mirko, Dept. Neuroanatomy, Universitätsmedizin Göttingen, Kreuzbergring 26, 37075, Göttingen, Germany, Tel.: +49 551 396876, Email: mirko.witte@med.uni-goettingen.de

Wöhr, Dr. Markus, Experimental and Physiological Psychology, Philipps-University of Marburg, Gutenbergstr. 18, 35032, Marburg, Germany, Tel.: +49 06421 2823612, Email: markus.woehr@staff.uni-marburg.de

Wolf, Ph.D. Susanne A., Cellular Neuroscience, Max-Delbrück-Center, Robert-Rössle-Str. 10, 13125, Berlin, Germany, Tel.: +49 30 94063260, Email: susanne.wolf@mdc-berlin.de

Wolf, Prof. Fred, Theoretical Neurophysics, Max-Planck-Institute for Dynamics and Self-Organization, Am Fassberg 17, 37073, Göttingen, Germany, Tel.: +49 551 5173915, Email: fred@nld.ds.mpg.de

Wolfes, Anne Christine, Trans-synaptic signaling, European Neuroscience Institute Göttingen, Grisebachstraße 5, 37077, Göttingen, Germany, Tel.: +49 551 3913894, Email: a.wolfes@eni-g.de

Wormuth, Carola, Cellular and Systemic Neurophysiology, Federal Institute for Drugs and Medical Devices, Kurt-Georg-Kiesinger-Allee, 53175, Bonn, Germany, Tel.: +49 228 993075722, Email: carola.wormuth@bfarm.de

Wunderle, Dr. Thomas, Fries Lab, Ernst Strüngmann Institute (ESI) for Neuroscience, Deutschordenstraße 46, 60528, Frankfurt, Germany, Tel.: +49 69 96769519, Email: thomas.wunderle@esi-frankfurt.de

Wurm, Helmut, -, Visitron Systems GmbH, Gutenbergstraße 9, 82178, Puchheim, Germany, Tel.: +49 89 8902450, Email: info@visitron.de

Xue, Cheng, Cognitive Neuroscience Laboratory, University Göttingen, German Primate Center, Kellnerweg 4, 37077, Göttingen, Germany, Tel.: +49 176 66531592, Email: cxue@gwdg.de

Yan, Kuo, AG Tarabykin, Charité, Universitätsmedizin Berlin, Institute of Cell and Neurobiology, Phillippstrasse 12, 10115, Berlin, Germany, Tel.: +49 30 450528335, Email: kuo.yan@charite.de

Yang, Zhenghong, AG Heisenberg, Rudolf-Virchow-Zentrum, Josef-Schneider Str. 2, Haus D15, 97080, Würzburg, Germany, Tel.: +49 931 3185198, Email: zhenghong.yang@virchow.uni-wuerzburg.de

Yao, Tao, Cognitive Neuroscience, University Göttingen, German Primate Center, Kellnerweg 4 (AKN), 37077, Göttingen, Germany, Tel.: +49 551 3851355, Email: taoyao@dpz.eu

Zaepf, Bianca, Institute of Zoology - Neurobiology, Johannes Gutenberg-University, Colonel-Kleinmann-Weg 2, 55099, Mainz, Germany, Tel.: +49 6131 3927264, Email: zaepf@uni-mainz.de

Zagrebelsky, Ph.D. Marta, Cellular Neurobiology, TU Braunschweig, Spielmannstrasse 7, 38106, Braunschweig, Germany, Tel.: +49 0531 3913225, Email: m.zagrebelsky@tu-bs.de

Zarnadze, Shota, Institut für Neurophysiologie (CCO), Charité Universitätsmedizin Berlin, Chariteplatz 1 (Virchowweg 6), 10117, Berlin, Germany, Tel.: +49 30 450539021, Email: shota.zarnadze@charite.de

Zauner, Andrea, Physiological Psychology, University of Salzburg, Hellbrunnerstrasse 34, 5020, Salzburg, Austria, Tel.: +43 662 80445146, Email: Andrea.Zauner2@sbg.ac.at

Zeck, Dr. Günther, Neurochip Research Group, Natural and Medical Sciences Institute at the University of Tübingen, Markwiesenstr. 55, 72770, Reutlingen, Germany, Tel.: +49 7121 51530807, Email: guenther.zeck@nmi.de

Zeeh, Christina, Institute of Anatomy, Oculomotor Group, German Dizziness/Vertigo Center, Universität München, Pettenkoferstr. 11, 80336, München, Germany, Tel.: +49 89 51604881, Email: christina.zeeh@med.uni-muenchen.de

Zehendner, Dr. Christoph Michael, Institute of Physiology and Pathophysiology, University Medical Center of the Johannes Gutenberg-University Mainz, Duesbergweg 6, 55128, Mainz, Germany, Tel.: +49 6131 3926410, Email: Zehendner@uni-mainz.de

Zehl, Lyuba, Institute for Neuroscience and Medicine (INM-6), Computational and Systems Neuro, Jülich Research Center, Wilhelm-Johnen-Straße, 52425, Jülich, Germany, Tel.: +49 2461 619468, Email: l.zehl@fz-juelich.de

Zerle, Julia, Institute of Developmental Genetics, Helmholtz Zentrum München, Ingolstädter Landstrasse 1, 85764, München/Neuherberg, Germany, Tel.: +49 89 31872601, Email: julia.zerle@helmholtz-muenchen.de

Zessin, Sabine, Zoological Institute, Div. Cellular Neurobiology, TU Braunschweig, Spielmannstr. 7, 38106, Braunschweig, Germany, Tel.: +49 531 3913229, Email: s.zessin@tu-bs.de

Zhang, Jiong, Moleculargenetical Neurobiology, University Bonn, Institute of Cellular Neurosciences, Sigmund-Freud-Strasse 25, 53105, Bonn, Germany, Tel.: +49 228 28714570, Email: jiong.zhang@ukb.uni-bonn.de

Zhao, Zhijian, Cellular Biophysics, Institute of Complex Systems, Forschungszentrum Jülich, Wilhelm-Johnen-Strasse, 52428, Jülich, Germany, Tel.: +49 176 64268860, Email: z.zhao@fz-juelich.de

Ziemann, Prof. Ulf, Neurology and Stroke, Hertie Institute for Clinical Brain Research and University of Tübingen, Hoppe-Seyler-Str. 3, 72076, Tübingen, Germany, Tel.: +49 7071 2982049, Email: ulf.ziemann@med.uni-tuebingen.de

Zimmermann, Prof. Herbert, Institute of Cell Biology and Neuroscience, Goethe-Universität, Max-von-Laue-Str. 13, 60438, Frankfurt am Main, Germany, Tel.: +49 69 79842036, Email: h.zimmermann@bio.uni-frankfurt.de

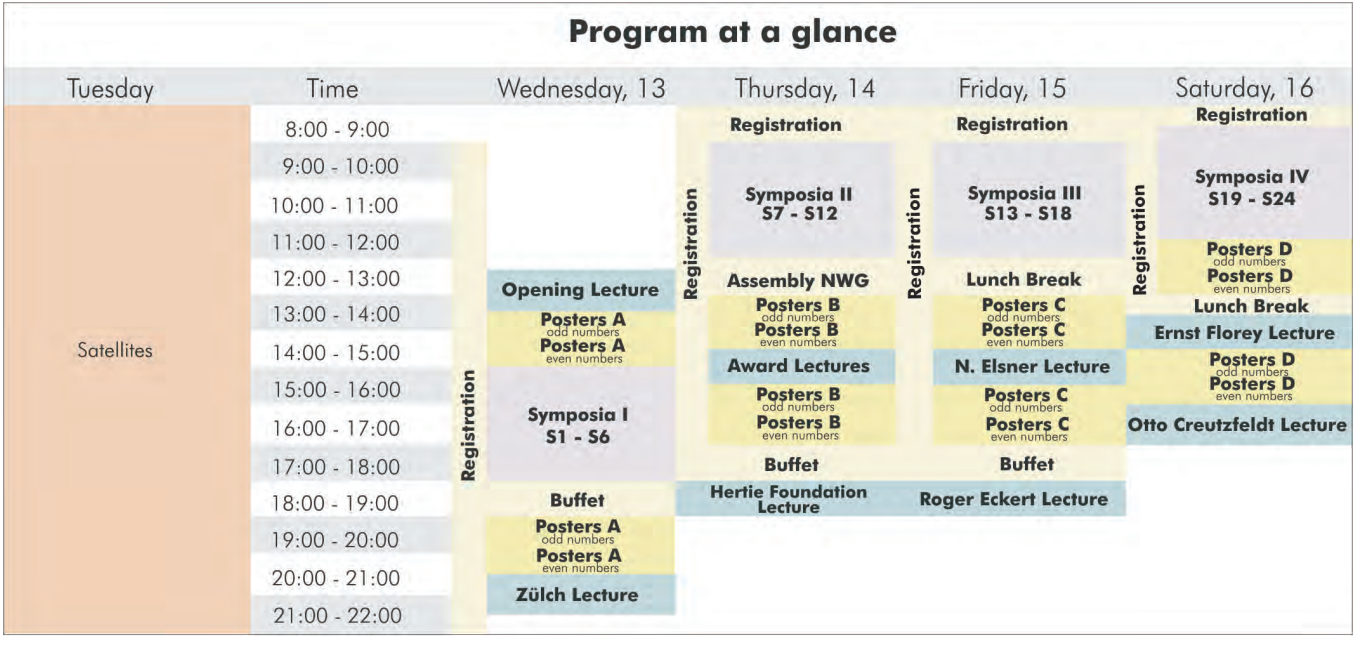
Zobiack, Dr. Nicole, Intelligent Imaging Innovations GmbH, Königsallee 9-21, 37081, Göttingen, Germany, Tel.: +49 551 50839266, Email: 3ieurope@intelligent-imaging.com

Zufall, Prof. Frank, Physiology, University of Saarland, Kirrbergerstr. Bldg. 58, 66421, Homburg, Germany, Tel.: +49 6841 1626450, Email: frank.zufall@uks.eu

Zwaka, Hanna, Neurobiologie, Freie Universität Berlin, Königin-Luise-Str. 28, 14195, Berlin, Germany, Tel.: +49 30 83856597, Email: hanna.zwaka@fu-berlin.de

Print: Druckerei Blankenburg, 16321 Bernau, info@druckerei-blankenburg.de
Conception and Layout: Stefanie Korthals/Meino Gibson
Cover: Eta Friedrich, 10827 Berlin, mail@et-a.de
Advertisement: Bernd Beutel, 69469 Weinheim, info@top-ad-online.de
Published by Neurowissenschaftliche Gesellschaft e.V. 2013

Program at a glance



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