Program

6th Meeting of the German Neuroscience Society

30th Göttingen Neurobiology Conference

February 17 - 20, 2005

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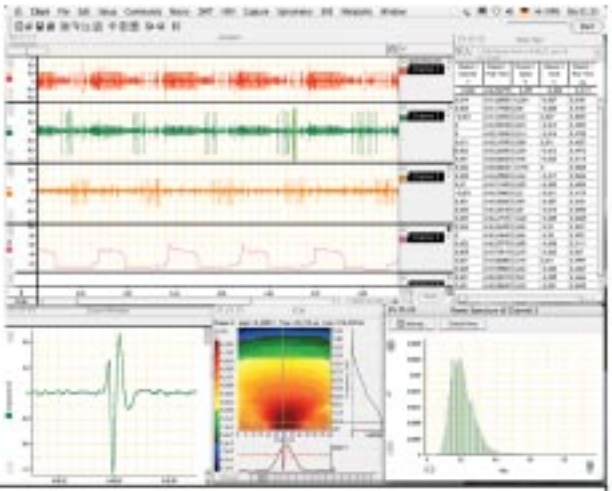

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Welcome Address

It is our great pleasure to welcome you to the 6th Congress of the German Neuroscience Society that is also the 30th Göttingen Neurobiology Conference. The first Neurobiology Conference was held in 1973 at the Max-Planck-Institute of Biophysical Chemistry in Göttingen, initiated and organized by the late Otto Creutzfeldt (1927 – 1992) and Ernst Florey (1927 – 1997). This year, we celebrate the 30th anniversary of this conference that experienced an outstanding development and success. After its founding, the German Neuroscience Society that celebrated its 10th anniversary in 2003, took an active part in the scientific organization of this conference that covers all aspects of neuroscience from invertebrate to vertebrate neurobiology, from experimental to theoretical neuroscience and from basic to applied research. One of the strengths of this conference over the years has been the fundamental contribution by young researchers, presenting their data and discussing these in front of a broad audience. We have received over 900 posters, of which many are authored by the younger delegates - a special welcome to them.

As the University of Göttingen has abandoned the Whitsun break, the university facilities are no longer available in June. The search for a new slot for 2005 was hampered by numerous other commitments the university had already made to others. Therefore, it is the first (but also the last) time that this conference is held in February and we hope that you will – in spite of some cold weather – enjoy the pretty university town of Göttingen. Future meetings will be held in summer.

A major change has occurred in the local organization of this conference series. Norbert Elsner, who had so perfectly and pleasantly organized this conference within the university lecture halls since 1982, has handed over the responsibility. Kerstin Krieglstein and her team have now taken on the local organization, to continue the local tradition and to ensure the future success of this extraordinary series of conferences, together with the German Neuroscience Society.

As before, the German Neuroscience Society invited proposals for symposia, of which 49 were received. Most of these were of excellent standard and, because of lack of conference time and space, it was again difficult for the Program Committee to scale down the number of accepted proposals to 24. All effort was taken to cover a broad

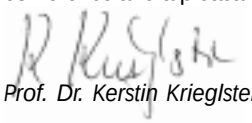
spectrum of neuroscience activities and to spot recent developments in the field. Seven invited plenary lectures presented by highly renowned scientists will highlight progress in individual fields of neuroscience research. These will be flanked by lectures of two young neuroscientists who have been awarded one of the two scientific prices of the German Neuroscience Society: The T.I.L.L. Photonics price for excellent achievements in developing novel techniques in neuroscience and the "Schilling-Forschungspreis der Neurowissenschaftlichen Gesellschaft" that has recently been granted by the Schilling Foundation. We would like to take the opportunity to sincerely thank both institutions for their generous support. The program is flanked by five satellite symposia, one of which is organized for students participating in graduate programs (Graduiertenkollegs) supported by the Deutsche Forschungsgemeinschaft.

There are a number of additional organizational changes to the previous meeting. In particular, we no longer provide an abstract book. As for other larger meetings, we provide abstracts on CD but still hand out a program booklet. This abstracts CD is a supplement to Neuroforum and thus citable. Furthermore, we introduce an intinarary planner on the meeting web site (http://www.neuro.uni-goettingen.de/) to allow delegates to create individual timetables guiding them through the sessions.

We would like to point out that the next Forum of the European Neuroscience Societies will be held in Vienna from July 8-12 2006, jointly organized by the Austrian and German Neuroscience Societies. We therefore expect a particular high contribution of German delegates and hope that you will support this conference, by organizing symposia or satellite symposia, or by submitting posters.

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

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



Prof. Dr. Kerstin Krieglstein *Prof. Dr. Herbert Zimmermann*

A tribute to Norbert Elsner

It was in 1982, when the Max-Planck-Institute for Biophysical Chemistry could no longer accommodate the increasing number of delegates and poster presentations, that the Neurobiology Conference was moved down town to the Georg-August-University and that Norbert Elsner and his group took over its annual organization. Since then, Norbert Elsner was responsible for both the financing and technical organization of the conference and he edited the program and abstract booklets and the conference proceedings. Following the 29th Göttingen Neurobiology Conference in 2003 he handed over the responsibility to the German Neuroscience Society and to the new local organizer, Kerstin Krieglstein.

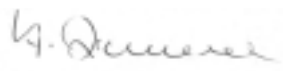
Whereas the number of delegates at the first meeting in 1973 was about 120, their number steadily increased to about 1500 in recent years. It is quite obvious that the workload for organizing the Conference shot up in parallel. But Norbert Elsner met this challenge with a perfect organizational protocol and a standing work team that he had set up in his institute. The conference was held at an annual basis until 1999. In order to secure the success of the newly founded Federation of European Neuroscience Societies (FENS) and of its biennial Forum meetings, the German conference was also held at a biennial scheme - to avoid overlap.

Norbert Elsner, born in 1940 in Silesia, did his studies in biology and chemistry at the Universities of Münster, Tübingen, Munich and finally Cologne, where he obtained his PhD in 1967. Following postdoctoral training years in Uganda (1968), Copenhagen (1971) and the United States (1972), he obtained his habilitation in zoology in Cologne in 1974. Already in 1978 he was appointed chairman of zoology at the Georg-August-University, Göttingen. Norbert Elsner dedicated his scientific life to the neurobiology of invertebrates. One focus of his work is on the acoustic communication in insects, particularly in grasshoppers. He aims to unravel the sensory and neuronal basis of behavior and he and his team developed novel techniques to record electrical activities of neurons and muscle cells during natural behavior, even in freely moving animals. A second focus concerns the interaction of motor and sensory systems, e.g. the impact of respiration and locomotion on hearing. These studies have now been advanced to several projects where

the perception of auditory patterns is recorded in animals in their natural habitat.

In spite of the time-demanding activities in teaching and research, Norbert Elsner keeps a very broad interest in many cultural activities. He has a particularly deep interest in the history of science and in the interrelation between science and the humanities. Amongst others this led him to edit the correspondence between Ernst Haeckel and Frida von Uslar-Gleichen (Das ungelöste Welträtsel, 3 volumes, Wallstein Verlag, 2000) and the publication of several public lecture series of the Göttingen University and the Göttingen Academy of Science that he had organized. The lectures were published in several volumes dealing e.g. with the interaction between brain and mind ("Das Gehirn und sein Geist"), the question what defines human beings ("Was ist der Mensch?"), or also with poetry and science ("Scientia poetica – Literatur und Naturwissenschaft"). These books were a great success and all volumes have now appeared in several editions. The wonderful illustrations Norbert Elsner decorated the program booklet with over the years, testify his interest in the arts, in history and his sense for aesthetics. Withdrawing from the demanding local organization of the Neurobiology Conferences by no means reduces his activities. He continues as the director of the Institute of Zoology, Anthropology and Developmental Biology and as the head of the neurobiology section of this institute. Norbert Elsner presently is vice-president of the Göttingen Academy of Science and chairman of its mathematical-physical section. In addition he was awarded membership of the Academy of Science Leopoldina (Akademie der Naturforscher Leopoldina zu Halle) and of the Slovenian Academy of Science.

The dedication to organizing the Neurobiology Conference and the workload Norbert Elsner has taken on over the many years cannot be overestimated. The development of an ever growing and successful German scientific neuroscience community owes very much to the excellent organization of the Göttingen Neurobiology Conferences. We express our sincere thanks to Norbert Elsner and his team and shall do our best to ensure the organization of many successful conferences to come.



Herbert Zimmermann
(President, German Neuroscience Society)

Acknowledgement

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Deutsche Forschungsgemeinschaft (DFG)

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TILL Photonics GmbH, Gräfenfing

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Roger Eckert Fund, Göttingen

Center for Molecular Physiology of the Brain, Göttingen

and Werner Zuschratter, Magdeburg, for providing the cover figure.

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Awards

TILL Photonics Technology Award of the German Neuroscience Society 2005

This prize is awarded by the German Neuroscience Society for outstanding contributions to the development of new technologies in the field of brain research. The prize money is donated by the company TILL Photonics GmbH in Gräfelfing.
This award supports young researchers of an age under 35. The sum awarded is EUR 2.500. Qualified research is reflected in outstanding publications. Elegible are scientists either working in a German laboratory or she/he is a German native working abroad. Applications from all fields of neuroscience research are invited. The candidate either applies directly for the award or is nominated by another person. Being a member of the German Neuroscience Society is not mandatory.
The prize was given for the first time in 2003. It is awarded during the Congress of the German Neuroscience Society in Göttingen.

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Schilling-Research Award of the German Neuroscience Society 2005

This prize is awarded by the German Neuroscience Society for outstanding contributions in the field of brain research. The award supports young researchers up to the age of 35. The prize money amounts to 20.000 Euro. Qualified research is reflected in outstanding publications. The applicant can either work in a German laboratory or she/he is of German origin working abroad. The applicaton can be submitted by the applicant her-/himself or the candidate can be nominated. Applications from all fields of neuroscience research are invited. Being a member of the German Neuroscience Society is not mandatory.
The prize will be given for the first time in 2005 during the Congress of the German Neuroscience Society in Göttingen.

Stifterverband für die Deutsche Wissenschaft
Postfach 164460
45224 Essen
www.stifterverband.de

Both prize winners will present their work in a lecture on Sunday, February 20, between 9:00 and 10:00 a.m.

Young Investigator Stipends

Travel grants from the German Neuroscience Society

The following applicants were granted a travel stipends from the German Neuroscience Society amounting to 300 EUR.

Bauer, Nina (Oldenburg)
Benard, Julie (Toulouse, France)
Boelmans, Kai (Magdeburg)
Borkmann, Anke (Köln)
Bukalo, Olena (Hamburg)
Fesenko, Galina (Moskow, Russia)
Frank, Elisabeth (München)
Frey, Hans-Peter (Osnabrück)
Freyberg, Sylvava (Tübingen)
Gießl, Andreas (Mainz)
Greiner, Birgit (Lund, Sweden)
Karg, Sandra (Regensburg)
Karpova, Anna (Magdeburg)
Keller, Andreas (New York, USA)
Moisel, Marion (Berlin)
Neumann, Nicola (Tübingen)
Nolte, Marc (Hannover)
Peuckert, Christiane (Jena)
Phillip, Melanie (Zürich, Switzerland)
Plekhanova, Irina (Berlin)
Sachse, Silke (New York)
Schmidt, Conny (Zürich, Switzerland)
Schreiber, Susanne (Berlin)
Schulzke, Erich (Bremen)
Schwamborn, Jens (Münster)
Tessmar-Raible, Kirstin (Heidelberg)
Yeschenko, Oxana (Paris, France)
Zehle, Stefanie (Magdeburg)

Travel Grants from the BMBF for young investigators from Israel

The following young scientists received a travel grant of up to 2000 EUR from the German Federal Ministry of Education and Research (BMBF) within the cooperation program with the Israeli Ministry of Science and Technology (MOST) „German-Israeli cooperation in medical research, neuroscience“ to attend the Göttingen Neurobiology Conference 2005.

Ofek Einat
Mezer Aviv
Aharoni-Simon Michal
Kamber Dotan
Malkinson Guy
Kartvelishvily Elena
Bendikov Inna
Bibchkov Dmitri
Belokopytov Mark
Rokem Ariel
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General Information

Venue

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

Conference Office

During the meeting the conference office is open from Wednesday, February 16, to Saturday, February 19, from 8 a.m. to 9 p.m. and on Sunday, February 20, from 8 a.m. to 1 p.m.

Phone: 0551/39-9595
Fax: 0551/39-9596
email: nbc@uni-goettingen.de

Exhibition

The exhibition is open from Thursday to Saturday from 9 a.m. to 7 p.m.

Public transportation and travel

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

Registration:

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

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

Students must show a copy of their student identity card.

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

On Saturday night, all participants have free access to the Göttingen Neurobiology Disco Party, which is held from 8 p.m. on in the foyer of the Mensa. Drinks will be available at moderate prices.

Lunch

Lunch is available from Wednesday to Saturday in the Mensa in the same building. Lunch tickets can be purchased for EUR 4,00 at the registration desk. We recommend to buy tickets for all days at once to avoid standing in line at lunchtime.

Internet Access

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

For Internet and E-mail access we offer two choices:

1. Some local PCs in the Internet Café

To use these PCs for reading your E-mail via Internet Browser you need
- the webaddress (url) of your mail-server
- your username
- your password

2. Access via your own laptop

To connect your laptop with the Internet you need
- an installed RJ45 connection
- the TCP/IP protocol must be set on DHCP
- an installed E-mail program or the webaddress (url) of your mail-server and subsequently
- your username
- your password

Please ask your local computer administrator to help you with the information on your local environment.

Projection

The standard equipment in all lecture rooms is a PowerPoint projector as well as an overhead and a slide projector, but there are not two of the latter. We therefore have to ask you to present your talk without double projection. Furthermore, we must point out that only one tape recorder for all lecture rooms is available. In any case, if you have special requirements regarding projection, please let us know by January 31, 2005 at the latest (contact Dr. Ivo Chao, E-mail:nbc@uni-goettingen.de). All such requests will be collected up to that date, after which you will be informed about what is possible and what is not.

Poster presentations

Each poster will hang for two days. Posters with poster numbers containing A will hang on Thursday and Friday, posters containing B will hang on Saturday and Sunday.

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 even and odd numbers. Each poster is presented in three sessions of one hour duration each:

Posters A even numbers (e.g. 94A)
Thursday, February 17, 12:30 - 13:30
Friday, February 18, 13:00 - 14:00 and 16:00 - 17:00

Posters A odd numbers (e.g. 95A)
Thursday, February 17, 13:30 - 14:30
Friday, February 18, 14:00 - 15:00 and 17:00 - 18:00

Posters B even numbers (e.g. 94B)
Saturday, February 19, 10:00 - 11:00 and 13:00 - 14:00
Sunday, February 20, 10:00 - 11:00

Posters B odd numbers (e.g. 95B)
Saturday, February 19,11:00 - 12:00 and 14:00 - 15:00
Sunday, February 20, 11:00 - 12:00

Posters A can be hung on Thursday, February 17, 2005 between 12:00 - 12:30. They must be removed immediately after the third session on Friday, February 18, 2005 after 18:00. Posters B can be hung on Saturday, February 19, 2005 before 10:00.

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Please be aware that the registration number you received is NOT corresponding to your poster number. You can easily find your poster using the online itinerary planer (http://www.neuro.uni-goettingen.de) or with the auhors' index in this program booklet.

Despite the fact that the posters will hang on different days, space is limited and the ceilings are very low in some places. We, therefore, urge you to refrain from smoking in the whole poster area.

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

Language

The official language of this meeting is English.

Hotels

The travel agency responsible for hotel reservation is the Deutsche Reisebüro Berlin (Annemarie van der Hoff, DER Deutsches Reisebüro GmbH & Co. OHG, Ritterstr. 3, 10969 Berlin, Tel.: +49 30 219 98 997, Fax: +49 30 219 98 405, eMail: annemarie.vanderhoff@der.de).

Visas

No visas are required for visitors from most European countries, USA, Japan, South America and British Commonwealth. For details it is advisable to contact the German Embassy or Consulate in your country. Airlines and travel agents may also give information.

Insurance

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

Shops

The shops are generally open on workdays from 9 a.m. to 6 p.m. Shops are closed on Saturday afternoon and on Sundays.

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Program at a glance

Wednesday	Time	Thursday	Friday	Saturday	Sunday
Registration	8:00 - 9:00	Registration	Registration	Registration	
10:30-18:10 Satellite Symposium I	9:00 - 10:00	Symposia I S1 - S6	Symposia III S13 - S18	Martin Schwab	Martin Theis Dietmar Schmitz
16:00-19:30 Satellite Symposium II	10:00 - 11:00			Posters B (even)	Posters B (even)
16:00-19:30 Satellite Symposium III	11:00 - 12:00	Hanging of posters A		Posters B (odd)	Posters B (odd)
13:00-16:00 Satellite Symposium IV	12:00 - 13:00	Posters A (even)	Posters A (even)	Assembly NWG	Hannah Monyer
13:00-19:30 Satellite Symposium V	13:00 - 14:00	Posters A (odd)	Posters A (odd)	Posters B (even)	
	14:00 - 15:00	Opening Ceremony		Posters B (odd)	
	15:00 - 16:00	Barry Dickson	Miguel Nicolelis	Symposia IV S19 - S24	
	16:00 - 17:00	Symposia II S7 - S12	Posters A (even)		
	17:00 - 18:00		Posters A (odd)		
	18:00 - 19:00		Buffet	Buffet	
	19:00 - 20:00	Buffet	Christopher Miller	Farewell Prof. Elsner William Newsome	
	20:00 - 21:00	Leonardo Cohen			
	21:00			Neuro-Disco-Night	

Scientific Program

Wednesday, February 16, 2005

10:30-18:10 Satellite Symposium I , Hall 11
The acoustics of emotions in nonhuman mammals and man
Chair: Elke Zimmermann, Sabine Schmidt, and Eckart Altenmüller, Hanno ver

16:00-19:30 Satellite Symposium II, Hall 9
Functional brain proteomics
Chair: Hans Gerd Nothwang and Marius Ueffing, Kaiserslautern and Oberschleißheim/Neuherberg

16:00-19:30 Satellite Symposium III, Hall 10
Functional microdomains and embedded proteins
Chair: Frank Lehmann-Horn and Albert Ludolph, Ulm

13:00-16:00 Satellite Symposium IV, Hall 8
Analysis of brain transcriptomes: principals, goals, achievements
Chair: Gabriele Flügge, Nils Brose and Eleni Roussa, Göttingen

13:00-19:30 Satellite Symposium V, Hall 105
Joint Symposium of the DFG Neuroscience Graduate Schools
Chair: Walter Paulus and Guido Reifenberger, Göttingen and Düsseldorf

Thursday, February 17, 2005

9:00-12:00 **Symposia I (S1 - S6)**
9:00-12:00 Symposium 1, Hall 104
Threshold currents: modulators of neuronal excitability
Chair: Jürgen R. Schwarz, Hamburg

9:00-12:00 Symposium 2, Hall 105
Amyloid and Neurodegeneration
Chair: Klaus Fassbender, Göttingen

9:00-12:00 Symposium 3, Hall 102
Ion channels and transporters in the cochlea: from current to molecule to pathology
Chair: Jutta Engel and Marlies Knipper, Tübingen

9:00-12:00 Symposium 4, Hall 8
Pushing toward the limits of what insects can know: Case studies for comparative cognition
Chair: Martin Giurfa and Brian Smith, Toulouse (F) and Columbus (USA)

9:00-12:00 Symposium 5, Hall 9
Signals in early neural development
Chair: Tomas Pieler and Edgar Pera, Göttingen

9:00 - 12:00 Symposium 6, Hall 10
Brain plasticity and cognition: Cellular mechanisms and clinical perspectives
Chair: Eberhard Fuchs and Gerd Kempermann, Göttingen and Berlin

12:00-12:30 **Lunch Break and Hanging of Posters A**

12:30-14:30 **Poster Session I:**
12:30 - 13:30 Posters A (even numbers)
13:30 - 14:30 Posters A (odd numbers)

14:30-15:00 **Opening Ceremony, Hall 11**

15:00-16:00 **Plenary Lecture, Hall 11**
Chair: Kerstin Krieglstein, Göttingen
Barry Dickson, Vienna (A)
Axon guidance at the Drosophila midline

16:15-19:15 **Symposia II (S7 - S12)**

16:15 -19:15 Symposium 7, Hall 9
Extracellular matrix molecules in regeneration and synaptic plasticity
Chair: Catherina G. Becker, Alexander Dityatev, Thomas Becker, Hamburg

16:15-19:15 Symposium 8, Hall 102
Efference Copies and Corollary Discharge Mechanisms in Sensory and Mental Processing
Chair: Berthold Hedwig and James F. A. Poulet, Cambridge (UK)

16:15 -19:15 Symposium 9, Hall 10
Real time processing vs. variability of neural responses
Chair: R. Matthias Hennig and Bernhard Ronacher, Berlin

16:15-19:15 Symposium 10, Hall 105
Plasticity and Task-Dependence of Auditory Processing
Chair: Frank W. Ohl and Holger Schulze, Magdeburg

16:15-19:15 Symposium 11, Hall 104
The integrated role of glial cells in the CNS: new methodological approaches
Chair: Paola Bezzi and Carola Schipke, Lausanne (CH) and Berlin

16:15-19:15 Symposium 12, Hall 8
Cellular and molecular control of vertebrate neurogenesis
Chair: Alexander von Holst, Bochum

19:10-20:00 **Cold Buffet, Lecture Hall Foyer**

20:00-21:00 **Plenary Lecture, Hall 11 (Ernst Lorey Lecture)**
Chair: Niels Birbaumer, Tübingen
Leonardo G. Cohen, Bethesda (USA)
Mechanisms of cortical reorganization underlying recovery of motor function after stroke

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Friday, February 18, 2005

9:00-12:00 **Symposia III (S13 - S18)**

9:00 - 12:00 Symposium 13, Hall 10
Use of two-photon fluorescence microscopy to study neuronal calcium signaling in brain slices and in the intact brain
Chair: Rafael Kurtz and Jack Waters, Bielefeld and Heidelberg

9:00-12:00 Symposium 14, Hall 8
Neuronal injury and infection
Chair: Roland Nau and Wolfgang Brück, Göttingen

9:00-12:00 Symposium 15, Hall 102
Nitric oxide/cyclic nucleotide signaling as regulator of developmental processes and cell motility in the nervous system
Chair: Gerd Bicker and Vincent Rehder, Hannover and Atlanta (USA)

9:00-12:00 Symposium 16, Hall 105
New vistas on insect vision
Chair: Roland Strauss and Reinhard Wolf, Würzburg

9:00-12:00 Symposium 17, Hall 104
Genomic and Proteomic Expression Profiling in Neural Repair
Chair: Joost Verhaagen and Hans W. Müller, Amsterdam (NL) and Düsseldorf

9:00-12:00 Symposium 18, Hall 9
Brain-Computer-Interfaces (BCI): neuroprostheses for the paralyzed
Chair: Ute Strehl, Tübingen

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

13:0 -15:00 ***Poster Session II:***
13:00-14:00 *Posters A (even numbers)*
14:00-15:00 *Posters A (odd numbers)*

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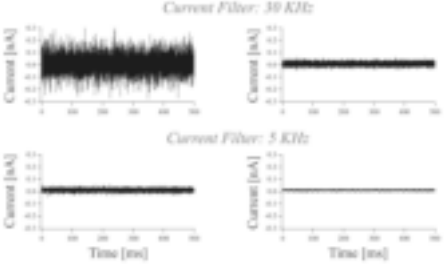

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15:00-16:00 **Plenary Lecture, Hall 11**
Chair: Ad Aertsen, Freiburg
Miguel A. L. Nicolelis, Durham (USA)
Computing with Neural Ensembles

16:00-18:00 **Poster Session III**
16:00 - 17:00 Posters A (even numbers)
17:00 - 18:00 Posters A (odd numbers)

18:00-19:00 **Cold Buffet, Lecture Hall Foyer**

19:00-20:00 **Plenary Lecture, Hall 11 (Roger Eckert Lecture)**
Chair: Erwin Neher, Göttingen
Christopher Miller, Waltham (USA)
Proteins that move ions across membranes: our evolving picture

Saturday, February 19, 2005

9:00-10:00 **Plenary Lecture, Hall 11 (CMPB Lecture)**
Chair: Diethelm Richter, Göttingen
Martin E. Schwab, Zurich (CH)
Axonal repair in the adult mammalian central nervous system

10:00-12:00 **Poster Session IV**
10:00-11.00 Posters B (even numbers)
11:00-12:00 Posters B (odd numbers)

12:00-13:00 **Annual General Assembly of the Neurowissenschaftliche Gesellschaft (NWG), Hall 11**

13:00-15:00 **Poster Session V**
13:00-14:00 Posters B (even numbers)
14:00-15:00 Posters B (odd numbers)

15:00-18:00 **Symposia IV (S19 - S24)**
15:00-18:00 Symposium 19, Hall 10
Neural mechanisms of visual perception and learning in man and monkey
Chair: Gregor Rainer, Tuebingen

15:00-18:00 Symposium 20, Hall 102
Amyotrophic Lateral Sclerosis (ALS) and Motoneuron Disease: From basic molecular and cellular mechanisms to novel clinical applications
Chair: Bernhard U. Keller, Jochen Weishaupt, and Mathias Bähr, Göttingen

15:00-18:00 Symposium 21, Hall 9
What the nose tells the brain - News and views in olfactory coding
Chair: Ivan Manzini and Frank Zufall, Göttingen and Baltimore

15:00-18:00 Symposium 22, Hall 104
Function of the glial cell line derived neurotrophic factor family in development and disease
Chair: Heike Peterziel, K. Herbert Schäfer and Klaus Unsicker, Heidelberg and Kaiserslautern

15:00-18:00 Symposium 23, Hall 8
Possible mechanisms contributing to memory consolidation during sleep
Chair: Steffen Gais and Jan Born, Lübeck

15:00-18:00 Symposium 24, Hall 105
Comparative insights into genetic and activity-dependent mechanisms of CNS development
Chair: Christian Lohr and Carsten Duch, Kaiserslautern and Berlin

18:00-18:45 **Cold Buffet, Lecture Hall Foyer**

18:45-19:00 **Farewell Ceremony for Professor Norbert Elsner, Hall 11**

19:00-20:00 **Plenary Lecture, Hall 11 (Otto Creutzfeldt Lecture)**
Chair: Klaus-Peter Hoffmann, Bochum
William T. Newsome, Stanford (USA)
Reward, value and decisions

Sunday, February 20, 2005

9:00-10:00 **Prize Awarding and Lectures, Hall 11,**

Chair: Sigrun Korsching, Köln
Martin Theis, New York (USA) (TILL Photonics Prize Lecture)
Conditional gene replacement: the benefits of a direct link between loss of gene expression and reporter activation

Chair: Herbert Zimmermann, Frankfurt
Dietmar Schmitz, Berlin (Schilling Research Award Lecture)
Comparison of different forms of synaptic plasticity in the hippocampus

10:00-12:00 **Poster Session VI**
10:00-11:00 Posters B (even numbers)
11:00-12:00 Posters B (odd numbers)

12:00-13:00 **Plenary Lecture, Hall 11**

Chair: Michael Frotscher, Freiburg
Hannah Monyer, Heidelberg
GABAergic interneurons at the cellular and network level

13:00 **Departure**

Neurowissenschaftliche Gesellschaft e.V.

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

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

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

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

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

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

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

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

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

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

Slots für das SFN-Meeting
Die NWG vergibt jedes Jahr für das Meeting der amerikanischen Society für Neuroscience sog. „society sponsored abstract slots". NWG-Mitglieder zahlen die selbe reduzierte Teilnahmegebühr beim SfN-Meeting wie SfN-Mitglieder.

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

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

Geschäftsstelle

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Neurowissenschaftliche Gesellschaft

Plenary Lectures

Barry Dickson, Vienna (A)
Axon guidance at the Drosophila midline
Thursday, February 17, 2005, 15:00 - 16:00, Hall 11

Leonardo G. Cohen, Bethesda (USA) (Ernst Lorey Lecture)
Mechanisms of cortical reorganization underlying recovery of motor function after stroke
Thursday, February 17, 2005, 20:00 - 21:00, Hall 11

Miguel A. L. Nicolelis, Durham (USA)
Computing with neural ensembles
Friday, February 18, 2005, 15:00 - 16:00, Hall 11

Christopher Miller, Waltham (USA) (Roger Eckert Lecture)
Proteins that move ions across membranes: our evolving picture
Friday, February 18, 2005, 19:00 - 20:00, Hall 11

Martin E. Schwab, Zurich (CH) (CMPB Lecture)
Axonal repair in the adult mammalian central nervous system
Saturday, February 19, 2005, 9:00 - 10:00, Hall 11

William T. Newsome, Stanford (USA) (Otto Creutzfeldt Lecture)
Reward, value and decisions
Saturday, February 19, 2005, 19:00 - 20:00, Hall 11

Martin Theis, New York (USA) (TILL Photonics Prize Lecture)
Conditional gene replacement: the benefits of a direct link between loss of gene expression and reporter activation
Dietmar Schmitz, Berlin (Schilling Research Award Lecture)
Comparison of different forms of synaptic plasticity in the hippocampus
Sunday, February 20, 2005, 9:00 - 10:00, Hall 11

Hannah Monyer, Heidelberg
GABAergic interneurons at the cellular and network level
Sunday, February 20, 2005, 12:00 - 13:00, Hall 11

Introductory Remarks to Satellite Symposium I

The acoustics of emotions in non-human mammals and man

Elke Zimmermann, Sabine Schmidt, Eckart Altenmüller

What are the biological roots of music and speech in man? To what extent do humans share mental capacities as well as coding and decoding strategies in acoustic communication with other animals with a highly developed auditory system? These are the central but yet unanswered questions in the evolutionary neurobiology of the acoustics of emotions. A fundamental trait of the communication system of all mammals is to convey emotions. In the acoustic domain, emotions are transmitted by voice and music in man and by vocalisations of nonhuman mammals. For the first time, researchers working on different mammalian groups with highly developed auditory communication, including humans, will discuss cross-taxa information to give a critical synopsis on the current state of the art. We use an empirically and comparative approach to illuminate both shared and unique components important to reconstruct evolutionary pathways for emotion in the acoustic domain.

Satellite Symposium I

Wednesday, February 16, 2005,
10:30 -18:10, Hall 11

Chair: Günter Ehret, Ulm

A. The acoustics of emotional communication in animal and man

10:30 *Elke Zimmermann, Hannover*
Opening Remarks

10:35 *Jeff Burgdorf, Bowling Green (USA)*
Ultrasonic vocalisations as indices of affective states in rats

11:20 *Karl-Heinz Esser, Hannover*
Vocal expression of emotion in the lesser spear nosed bat, Phyllostomus discolor

11:40 *Sabine Schmidt, Hannover*
Effects of emotion on vocal communication in the Indian False Vampire bat, Megaderma lyra

12:00 *Elke Zimmermann, Hannover*
Vocal expression of emotion archaic in primates

12:20 *Uwe Jürgens, Göttingen*
How emotions are encoded in the acoustics of vocal communication in nonhuman primates and man

12:40 *Kathleen Wermke, Würzburg*
The expression of emotion in human infants´ crying

13:00 **Lunch Break**

Chair: Karl-Heinz Esser, Hannover

B. Perception and neural correlates of acoustically induced emotions in animals and man

14:00 Michael J. Owren, Ithaca (USA)
Acoustics, perception and function of human laughter

14:45 Günter Ehret, Ulm
Communication-call perception and parental emotions in the brains of mice

15:05 Kai Alter, Newcastle (UK)
The acoustics and perception of aversive and non-aversive communication in humans

15:25 Kerstin Sander, Magdeburg
Neural correlates of laughter and crying in humans

15:45 **Coffee Break**

Chair: Sabine Schmidt , Hannover

C. Neuroacoustics of emotions in music and language

16.00 Isabelle Peretz, Montreal (Canada)
Impaired recognition of danger as expressed in music following lesions of the amygdala in humans

16:45 Eckart Altenmüller, Reinhard Kopiez, Hannover
Music as a model for acoustic communication of emotions in humans

17:05 Stefan Koelsch, Leipzig
Music as a tool to examine pleasantness and unpleasantness

17:25 Sonja Kotz, Leipzig
EfMRI evidence on nonverbal and verbal perception of emotions

17.45 Christine Schröder, Reinhard Dengler , Hannover
Expression and perception of emotional prosody in Parkinson's disease

18.05 Eckart Altenmüller, Hannover (Germany)
Concluding remarks

Introductory Remarks to Satellite Symposium II

Functional brain proteomics

Hans Gerd Nothwang and Marius Ueffing, Kaiserslautern and Oberschleißheim/Neuherberg

To a large extent, the structure and function of any nervous system is defined by the specific set of its proteins, i.e. the respective proteome. Recently, novel techniques have been developed to study these proteomes on a so far unprecedented large-scale level. The goal of proteomics is to define the identities, quantities, dynamics, structures, interactions, and functions of all proteins and to dissect the metabolic, signaling and regulatory networks within a given biological system. Even though still in their infancy, the novel techniques have already provided us with astonishing insights into biological systems and physiological processes. It is therefore very likely that proteomics approaches will also have a major impact in the field of neurobiology. We think that it is time to present an overview of the current state of the art. The suggested symposium attempts to present several facets of so-called proteomics approaches to CNS studies under both normal and pathological conditions. It includes various technical approaches, such as comparative 2-D gel electrophoresis, high-throughput mass spectrometry, and large-scale identification of protein interactions. Helmut Meyer, one of the leaders of the international Human Brain Proteome Project, will give a general introduction to this project, present the data obtained so far, and discuss their impact on neuroscience. Hans Gerd Nothwang will then present more detailed protein mapping data on the auditory brainstem and discuss current advantages and limitations of comparative proteomics compared to other large-scale gene expression profiling techniques. Reinhard Jahn will show results on the characterisation of synaptic vesicles. Proteomic approaches also deepen our knowledge on the underlying mechanisms leading to dysfunctional networks in diseases. Several strategies are available which will be illustrated and discussed by Marius Ueffing. The usefulness of proteomics for dissecting pathological pathways will be demonstrated by Erich Wanker and by Bernhard Kuester. Both speakers will illustrate the current states of different techniques to characterize protein interactions and protein complexes and their importance to better understand disorders such as polyglutamine diseases and Alzheimer.

Satellite Symposium II

Wednesday, February 16, 2005,
16:00 - 19:30, Hall 9

Chair: Hans Gerd Nothwang and Marius Ueffing,
Kaiserslautern and Oberschleißheim/Neuherberg

16:00 *Helmut Meyer, Bochum*
The HUPO Brain Proteome Project

16:30 *Hans Gerd Nothwang, Kaiserslautern*
Proteome analysis in the auditory brainstem

17:00 *Reinhard Jahn, Göttingen*
Protein analysis of synaptic vesicles

17.30 **Coffee Break**

18:00 *Marius Ueffing, Munich*
Neurogenetics through proteomics: analysing protein composition and interactions

18:30 *Erich Wanker, Berlin*
Neuroproteomics: from interaction networks to protein function and disease mechanisms

19:00 *Bernhard Küster, Heidelberg*
Proteomic Approaches to Drug Discovery in Alzheimer's Disease

Introductory Remarks to Satellite Symposium III

Functional microdomains and embedded proteins

Frank Lehmann-Horn and Albert Ludolph, Ulm

Microdomains are membrane areas rich in clustered proteins that permit cellular signaling and exo- and endocytosis. This symposium deals with microdomains of the surface membrane of excitable cells and their interaction with extra- and intracellular components. Essential elements of the excitable microdomains will be discussed, e.g. receptor and ion channel proteins. The structure and function of these proteins is best characterized by use of fluorescence and various combined nanotechniques, e.g. force microscopy and patch clamping. Some of these techniques were originally applied to non-biological surfaces and are only recently being used for cell membranes and adjacent structures.

Satellite Symposium III

Wednesday, February 16, 2005,
16:00 - 19:30; Hall 10

Chair: Frank Lehmann-Horn and Albert Ludolph, Ulm

16:00 *Ralf Schneggenburger and Erwin Neher, Göttingen*
Quantal parameters at the calyx of Held synapse

16:30 *Tobias Böckers, Ulm*
Dynamics of the synaptic membrane

17:00 *C. Fahlke, Aachen*
Molecular and cellular function of glutamate transporters

17:30 **Coffee Break**

18:00 *M. Langer, Ulm*
Electrical activity due to cochlear hair cell movements

18:30 *B. Qualmann and M. Kessels, Magdeburg*
The role of cytoskeletal and cytomatrix components in the organization and function of synaptic specializations

19:00 *U. Nienhaus and K. Jurkat-Rott, Ulm*
Voltage sensor movements within the channel protein and surrounding membrane

Introductory Remarks to Satellite Symposium IV

Analysis of brain transcriptomes: principals, goals, achievements

Gabriele Flügge, Nils Brose and Eleni Roussa, Göttingen

Analysis of gene transcripts via cDNA microarrays and related methods provide powerful tools to find new molecular components that underlie various processes of brain development, neuronal differentiation and central nervous disorders. Within the symposium, experts from different areas of neurobiology will describe latest results from their research on gene expression during differentiation of dopaminergic neurons, on expression of hippocampal and brain stem genes. Methodological aspects such as potentials, planning and interpretation of microarray experiments will also be addressed.

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Satellite Symposium IV

Wednesday, February 16, 2005,
13:00 - 16:00, Hall 8

Chair: Gabriele Flügge, Nils Brose and Eleni Roussa, Göttingen

13:00 *N. Prakash, Munich/Neuherberg*
Dissection of the genetic pathway underlying dopaminergic neuron development

13:30 *B. Liss, Marburg*
Correlating function and gene-expression of individual dopaminergic neurons

14:00 *E. Vreugdenhil, Leiden (NL)*
Corticosteroid-responsive genes in the rodent hippocampus: a genomics approach

14:30 **Coffee Break**

15:00 *A. Köhl, Kaiserslautern*
Transcriptome analysis in the rat auditory brainstem

15:30 *K. Nieselt, Tübingen*
Analysis of microarray brain expression data: computational and statistical challenges

Introductory Remarks to Satellite Symposium V

Joint Symposium of the DFG Neuroscience Graduate Schools

Walter Paulus and Guido Reifenberger, Göttingen and Düsseldorf

In addition to invited lectures by M. Schachner, Hamburg, and P. Bondre-Beil, Bonn, doctoral students of the German DFG Neuroscience Graduate Schools in Berlin, Bielefeld, Bochum, Bonn, Düsseldorf, Frankfurt/Main, Freiburg, Giessen/Marburg, Göttingen, Hamburg, Heidelberg, Magdeburg, Mainz, München, Potsdam and Tübingen are invited to contribute oral and poster presentations.

Satellite Symposium V

Wednesday, February 16, 2005,
13:00 - 19:30, Hall 105

Walter Paulus and Guido Reifenberger,
Göttingen and Düsseldorf

13.00 *Walter Paulus and Guido Reifenberger, Göttingen and Düsseldorf*
Welcome address and introduction to the symposium

13.15 *M. Schachner, Hamburg*
Recognition molecules and the rejuvenating nervous system

14.00 **Oral presentations by doctoral students**

15.30 **Poster session with coffee and cake**

17.00 **Oral presentations by doctoral students**

19.00 *P. Bondre-Beil, Bonn*
New features of DFG research training groups

Elektronenmikroskopie

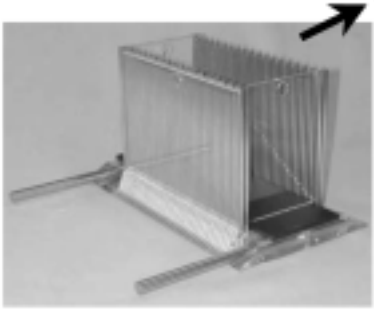
Sinnesorgan Fruchtfliege

Aufdampfanlagen
BSE-Detektoren
Carbon Coater
CCD-Kamera TEM/LM
Cryo-Präparation
EBSD von HKL
EDX LN_2-freie Detektoren
Funkenerosion
Kritisch-Punkt-Trockner
Plasmareiniger
Probenstrom-Messgerät
Sputter Coater

Histologie/Pathologie/Pharmakologie

Schneidapparate f. Stereologie
Mikromanipulatoren
Gefriermikrotome
KnifeMaker
Vibratome
Mikrotome
Mikrowellen-Ofen
Stereotaxieausrüstung
Neu! Einbettmittel
(kalt polymerisierend) u.v.m.

Schnitt menschliches Gehirn



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Introductory Remarks to Symposium 1

Threshold currents: modulators of neuronal excitability

Jürgen R. Schwarz, Hamburg

Information processing within the brain involves the generation of action potentials which are responsible for fast communication between nerve cells. Action potentials have a short duration and are generated by a transient influx of Na^+ and a subsequent outflow of K^+ through voltage-gated ion channels. In addition to these canonical channels, nerve cells are equipped with a large number of voltage-gated and Ca^{2+}-gated ion channels which are able to modulate the action potential parameters. These „threshold currents" do not only influence the threshold potential, they can also change the action potential duration, induce various forms of afterhyperpolarizations and set the interspike interval. By modulating the shape of action potentials and spiking patterns they are able to change information processing in neurons, thus contributing to neuronal plasticity. Ih and M-current belong to the most important threshold currents. Ih is a pacemaker current, mediated by hyperpolarization-activated cyclic-nucleotide-gated cation channels (HCN). The M-current is mediated by members of the family of voltage-gated KCNQ channels. One important function of M-currents is the induction of frequency adaptation. The current mediated by ether-à-go-go-related gene K^+ channels (erg) takes part in repolarizing the heart action potential. Erg channels have recently been shown to also modulate neuronal electrical activity. The symposium includes the A-type current mediated by voltage-gated K^+ channels of the Kv4 family, and Ca^{2+}-gated SK channels. Both types of current are involved in the modulation of the frequency of action potential firing. The symposium will start with an overview of the transgenic animal models which are used to study the properties of e.g. KCNQ, ERG and HCN channels. The following talks will cover the molecular and biophysical properties of each of the channels and provide insight into the study of their complex subunit composition and mechanisms of regulation underlying their physiology. The chosen speakers have expert knowledge about the molecular properties and physiology of the ion channels mediating the different types of threshold currents.

Symposium 1

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 104

Chair: Jürgen R. Schwarz, Hamburg

9:00 *Dirk Isbrandt, Hamburg*
Transgenic mouse models for the study of M-channels

9:25 *David A. Brown, London (UK)*
KCNQ/M-currents

9:50 *Christiane K. Bauer, Hamburg*
Neuronal erg K^+ currents

10:15 **Coffee Break**

10:45 *Johan F. Storm, Oslo (N)*
Threshold currents in hippocampal neurons

11:10 *Hans-Christian Pape, Magdeburg*
Ih: pacemaker current for rhythmic activities in the thalamus during sleep and epilepsy

11:35 *Jochen Röper, Marburg*
Molecular determinants and function of A-type currents in dopaminergic midbrain neurons

Introductory Remarks to Symposium 2

Amyloid and Neurodegeneration

Klaus Fassbender, Göttingen

Since most neurodegenerative diseases share the key feature of a deposition of pathologically folded amyloidogenic proteins, e.g., Alzheimer's disease (amyloid peptide), Parkinson's disease (á-synuclein), amyotrophic lateral sclerosis (SOD), Huntington's disease (huntingtin), certain forms of ataxia (ataxin) and even prion diseases (prion-protein), common mechanisms could contribute to neuronal injury in these different disorders. Therefore, this symposium targets on such rather universal mechanisms how excessive formation and deposition of these different peptides may ultimately injure brain tissue. M. Jucker will report key tools for investigation of neurodegenerative diseases, i.e., animal models of cerebral amyloidoses. Prion diseases, although representing a very specific group of diseases, possess striking similarities with Alzheimer's disease, e.g., the progressive accumulation of pathologically folded proteins. The molecular biology of these diseases will be covered by M. Heikenwälder. Neuroinflammation is a histopathological feature of nearly all of these neurodegenerative diseases. The role of innate immunity receptors in Alzheimer's disease, prion diseases and further neurodegenerative diseases will be discussed (K. Fassbender). T. Bayer will address the potential importance of the intraneuronal accumulation of amyloid peptide in mediation of neurodegeneration in Alzheimer's disease. Finally K. Beyreuther will discuss general principles of neuronal damage by amyloid, focusing on the crucial relationship between amyloid and axonal transport in Alzheimer's disease, the prototype of brain amyloidoses.

Symposium 2

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 1O5

Chair: Klaus Fassbender, Göttingen

9:00 *Mathias Jucker, Tübingen*
Transgenic mouse models of cerebral amyloidosis

9:30 *Mathias Heikenwälder, Zürich (CH)*
Immunobiology of peripheral prion pathogenesis

10:00 *Klaus Fassbender, Göttingen*
Innate immunity and neurodegeneration

10:30 **Coffee Break**

11:00 *Thomas Bayer, Homburg*
Intraneuronal Abeta as a major risk factor for neurodegeneration in Alzheimer's disease

11:30 *Konrad Beyreuther, Heidelberg*
Amyloid and axonal transport

Introductory Remarks to Symposium 3

Ion channels and transporters in the cochlea: from current to molecule to pathology

Jutta Engel and Marlies Knipper, Tübingen

Hearing impairment is one of the most common sensory disorders and the second most common chronic disease. 15 million people are affected in Germany and 350 million people world–wide. Regarding the socio-economic and epidemiological relevance of hearing deficits and the still very limited therapeutic strategies to treat hearing impairments/deafness, a deeper understanding of hearing function is required. In particular, the molecular components and the cellular mechanisms of cochlear inner and outer hair cell function need to be identified. Using physiological studies and transgenic mouse techniques, multiple ion channels and transporters with cochlea-specific characteristics have been identified and characterised. The special demands of the highly sensitive hearing organ seem to be met by the expression of specialized ion channels and transporters, which appear in the critical developmental period of final cochlear differentiation prior to the onset of hearing. The functional analysis and phenotyping of mouse mutants will help to unravel and understand corresponding sensori-neural hearing loss in humans. Prior to the onset of hearing, a subset of ion channels with a distinct expression develops in hair cells (Speaker: Cornelis Kros), a process which is paralleled by the maturation of exocytosis in the inner hair cell (Speaker: Tobias Moser). Specialized isoforms of distinct cochlear channels such as calcium channels (Speaker: Jutta Engel), the transporter-like membrane motor prestin (Speaker: Dominik Oliver) and the potassium channels KCNQ4, BK, and SK2 are precisely regulated during the critical period of final differentiation that precedes the onset of hearing (Speaker: Harald Winter/Marlies Knipper). These distinct channels as well as other cochlear ion channels and transporters have been defined as novel deafness genes (Speaker: Thomas Jentsch).

Symposium 3

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 1O2

Chair: Jutta Engel and
Marlies Knipper, Tübingen

9:00 *Marlies Knipper, Tübingen*
Short introduction to the function of the cochlea

9:05 *Cornelis J. Kros, Brighton (UK)*
From action potential to receptor potential: developmental changes in inner hair cell signaling

9:30 *Tobias Moser, Göttingen*
Coupling of Ca^{2+} channels and exocytosis at hair cell ribbon synapses

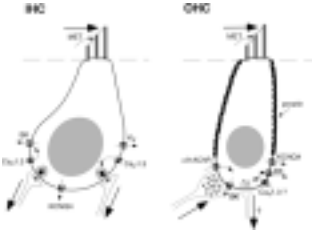
9:55 *Jutta Engel, Tübingen*
Development, characteristics and function of inner and outer hair cell calcium channels

10:20 **Coffee Break**

10:45 *Dominik Oliver, Freiburg*
Prestin, an anion transporter modified to generate ultrafast cellular motility in auditory outer hair cells

11:10 *Harald Winter, Tübingen*
Transcriptional control of ion channels prior to hearing function

11:35 *Thomas Jentsch, Hamburg*
Pathology of cochlear ion transport: insights from deaf mice and humans



Introductory Remarks to Symposium 4

Pushing toward the limits of what insects can know: Case studies for comparative cognition

Martin Giurfa and Brian Smith, Toulouse (F) and Columbus (USA)

Insects have traditionally been considered simple and small reflex machines. This perspective has been fruitful, as insects have served as inspiration for numerous works on robotics and machine building. However, this particular view of insect behavior overlooks the fact that insects, like most living organisms, process information flexibly in order to rapidly adapt to their environment. Behavioral processes that range from gathering sensory information through perception and decision-making to the resulting appropriate actions allowing the animal to cope with a changing environment can be identified and studied in insects. Since cognition can be defined in a broad sense as the sum of such processes, we are confronted with the necessity of considering insect behavior from a cognitive perspective. Research on invertebrate learning and memory has focused mainly on elemental associations linking two specific stimuli or a specific behavior with a specific reinforcer. But insects exhibit behavioral complexity that is far richer than previously thought. In this symposium we will ask to what extent learning performance in insects involves more complex forms of learning, such as attention, inhibition, risk sensitivity or configural (non-elemental) associations, which may or may not be accounted for by elemental processes. We will focus on studies of behavioral performance as well as on the neural substrates underlying these forms of learning in insects in an attempt to unravel the mechanistic basis of complex learning.

Symposium 4

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 8

Chair: Martin Giurfa and Brian Smith,
Toulouse (F) and Columbus (USA)

9:00 *Thomas S. Collett, Brighton (UK)*
Are visual patterns in hymenopterans stored elementally or configurally?

9:40 *R. Menzel, Berlin*
Navigation of Honeybees: evidence for map-like organization of spatial memory

10:20 *Ralph J. Greenspan, San Diego, CA (USA)*
Arousal and "Selective Attention" in Drosophila

11:00 *Sharoni Shafir, Jerusalem (IL)*
Risk-sensitivity and comparative evaluations in honey bees

11:40 *General discussion - Martin Giurfa, Toulouse (F) and Brian Smith, Ohio (USA)*
Neural mechanisms of cognitive performances in insects

Symposium of the International Society of Neuroethology

Introductory Remarks to Symposium 5

Signals in early neural development

Tomas Pieler and Edgar Pera, Göttingen

How does a single cell, the fertilized egg, gives rise to many thousands of differentiated cell types and form organs as complex as the human brain? In recent years, significant progress has been made in elucidating the signals involved in this process. Work in different model systems, from the fly embryo to the mammalian nervous system, has uncovered a small set of cell-cell signaling pathways that are integrated during development and lead to the differentiation of a vast variety of cell types. The mechanisms that determine cell fate in CNS development are re-used in other aspects of development, and basic principles of signal integration are conserved across species. The idea for the symposium on "Signals in early neural development" is to highlight recent advances in our understanding of the molecular network that leads to the formation of the CNS. The proposed speakers form a representative cross-section of relevant topics, ranging from the induction and patterning of the neural plate to differentiation of individual cell types in the CNS. Emphasis is given to a broad spectrum of experimental model organisms to provoke new insights into CNS development in both vertebrates and invertebrates. We expect that the talks covering different aspects of neural development provide important stimuli for future research in this exciting field of neurobiology.

Symposium 5

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 9

Chair: Tomas Pieler and Edgar Pera, Göttingen

9:00 *Thomas Edlund, Umea (S)*
Induction and early patterning of the vertebrate central nervous system

9:25 *Edgar Pera, Göttingen*
The secreted serine protease HtrA1 acts as a posteriorizing factor by stimulating FGF signaling in Xenopus embryos

9:50 *Michael Brand, Dresden*
Endocytosis controls spreading and effective signaling range of Fgf8 protein during early neural development of the zebrafish

10:15 **Coffee Break**

10:45 *Carmen Birchmeier, Berlin*
Creating neuronal diversity in the dorsal spinal cord

11:10 *Christian Klämbt, Münster*
Analysis of neuron-glia interaction in Drosophila

11:35 *Elisabeth Knust, Düsseldorf*
Drosophila crumbs - From epithelial polarity to retinal degeneration

Introductory Remarks to Symposium 6

Brain plasticity and cognition: Cellular mechanisms and clinical perspectives

Eberhard Fuchs and Gerd Kempermann, Göttingen and Berlin

Over the last decades the concept of plasticity has fundamentally changed our view on brain function in health and disease. Plasticity describes the interaction between function and form. However, it remains a sometimes vague and problematic term. In the proposed symposium we would like to address some of the most exciting new aspects of brain plasticity. The discovery of stem cells in the adult brain and of adult neurogenesis has added a new dimension to plasticity research. New theories have linked neuropsychiatric disorders such as depression, dementia and temporal lobe epilepsy to a failure of adult neurogenesis. We will gather a panel of some of the leading experts in this field and aim at providing a comprehensive session on a topic that has not yet been covered in comparable depth at an international conference attracting researchers from all areas of neurobiology. We believe that this symposium would be timely and well received by the audience. We have chosen an interdisciplinary approach and will discuss aspects from basic research to the clinic.

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Symposium 6

Thursday, February 17, 2005,
9.00 - 12.00, Lecture Hall 1O

Chair: Eberhard Fuchs and Gerd Kempermann,
Göttingen and Berlin

9:00 *Eberhard Fuchs, Göttingen*
Introduction

9:05 *Gerd Kempermann, Berlin*
Stem cells in the adult brain: new players in concepts of plasticity

9:35 *Fritz A. Henn, Mannheim*
Clinical implications of neuroplasticity

10:05 *Paul J. Lucassen, Amsterdam (NL)*
Live and let die: changes in cell birth and cell death in the stressed brain.

10:35 **Coffee Break**

11:00 *Tracey Shors, Piscataway (USA)*
Neurogenesis and the makings of memories

11:30 *Theo D. Palmer, Palo Alto (USA)*
Interplay between the immune system and brain plasticity

Introductory Remarks to Symposium 7

Extracellular matrix molecules in regeneration and synaptic plasticity

Catherina G. Becker, Alexander Dityatev, Thomas Becker, Hamburg

This symposium will be a forum to present and discuss recent exciting developments in the field of extracellular matrix (ECM) molecules. Traditionally viewed as important morphogenic components regulating proliferation, migration, and differentiation of cells during development, ECM molecules also appear as important players in neuroplasticity in adults. Contributions of glycoproteins of the tenascin family and chondroitin sulfate proteoglycans (CSPGs) to axon regeneration and synaptic plasticity will be in the focus of the presentations. Many ECM molecules are inhibitors for axonal re-growth in the adult mammalian CNS. Homologs of the mammalian ECM molecules are expressed in the CNS of adult zebrafish, which show successful axonal regeneration of axon tracts, for example in the spinal cord and the visual system. Dr. Catherina G. Becker will outline how ECM molecules, such as CSPGs or tenascin-R are used as repellent guidance factors in the regenerating adult CNS and during development of the zebrafish nervous system. Dr. James W. Fawcett will focus on the dual roles of CSPGs in the adult mammalian CNS. The enzymatic removal of the sugar side chains by chondroitinase ABC facilitates axonal re-growth after injury in the spinal cord. Chondroitinase treatment also enhances synaptic plasticity in areas that under normal conditions cannot remodel. Conspicuous structures that are enriched in ECM molecules in the central nervous system are the so-called perineuronal nets, which surround cell bodies and proximal dendrites in a meshlike structure that interdigitates with synaptic contacts. Dr. Gert Brückner will present data on development and composition of perineuronal nets in vivo and in vitro and will discuss their putative functions. Dr. Heikki Rauvala will discuss the properties of HB-GAM (heparin-binding growthassociated molecule). Mutant mouse approaches and in vitro studies implicate HB-GAM and its receptor Syndecan-3 (N-syndecan) in the regulation of migratory responses of neurons and in synaptic plasticity. Electrophysiological and ultrastructural analysis of mice deficient in tenascin-R revealed severe deficits in perisomatic inhibitory currents.

Symposium 7

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 9

Chair: Catherina G. Becker, Alexander Dityatev, Thomas Becker, Hamburg

16:15 Catherina G. Becker, Hamburg
ECM molecules as guidance factors during development and regeneration in the central nervous system of adult zebrafish

16:45 James W. Fawcett, Cambridge (UK)
Manipulation of ECM in axon regeneration and plasticity

17:15 Gerd Brückner, Leipzig
Perineuronal nets - a basic principle of extracellular matrix organization in the central nervous system

17:45 ***Coffee Break***

18:15 Heikki Rauvala, Helsinki (FIN)
Functions of N-syndecan (syndecan-3) in developing and adult brain

18:45 Olena Bukalo, Hamburg
Extracellular matrix glycoprotein tenascin-R and hippocampal meta-plasticity

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and synapses in the hippocampus. Dr. Olena Bukalo will present data supporting a view that disinhibition in tenascin-R deficient mice elevates basal excitatory transmission and number of perforated synapses in Schaffer collateral synapses, and increases the threshold for induction of LTP.

Introductory Remarks to Symposium 8

Efference Copies and Corollary Discharge Mechanisms in Sensory and Mental Processing

Berthold Hedwig and James F. A. Poulet, Cambridge (UK)

A fundamental challenge for all nervous systems is the differentiation between self-generated and external sensory inputs, e.g. how do animals distinguish between movements of objects in their visual field, as compared to retinal stimulation imposed by movements of their eyes. In 1950 two similar neurobiological concepts were developed that dealt with this question: Sperry proposed that *a corollary discharge* of motor patterns into sensory systems might play an important role to adjust sensory perception. At the same time v. Holst and Mittelstaedt more specifically proposed that during voluntary movements the central nervous system generates a copy of its motor commands *(efference copy)* that cancels any self-generated sensory feedback *(reafference)*. Since the self-generated afference is cancelled any externally caused afference is available for central processing. In more general terms these concepts may be regarded as *feed-forward* mechanisms in sensory processing. Since the formulation of these concepts advances in neurobiological recording techniques have allowed considerable progress in analysing the neuronal pathways and mechanisms underlying sensory information processing at the systems and cellular level. Our symposium aims to present the best-analysed model systems, in which the neuronal pathways of corollary discharge mechanisms/ efference copies have been identified. The symposium brings together invertebrate models (auditory processing in crickets) as well as vertebrate models (locomotion in tadpoles and communication in electric fish). It finally deals with work on primate eye movements and the possible role of corollary discharge mechanisms in human mental processing. The comparison of different animals and sensory systems will emphasize the fundamental importance of these concepts for sensory processing.

Symposium 8

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 102

Chair: Berthold Hedwig and James F. A. Poulet, Cambridge (UK)

16:15 *Berthold Hedwig, Cambridge (UK)*
Introduction

16:20 *James Poulet, Cambridge (UK)*
A corollary discharge modulates auditory processing in crickets

16:50 *Alan Roberts, Bristol (UK)*
Efference copies in the nervous system of hatchling frog tadpoles during locomotion

17:20 *Coffee Break*

17:45 *Curtis C. Bell, Beaverton (USA)*
Plastic and non-plastic corollary discharge effects in an electric fish

18:15 *Marc A. Sommer, Pittsburgh (USA)*
Corollary discharge of eye movements in primates

18:45 *Daniel H. Mathalon, West Haven (USA)*
Evidence of corollary dysfunction in the auditory system of patients with schizophrenia

Introductory Remarks to Symposium 9

Real time processing vs. variability of neural responses

R. Matthias Hennig and Bernhard Ronacher, Berlin

Sensory systems of animals perform under two ubiquitous and serious constraints: (i) the necessity to respond quickly to single events and (ii) the variability of neural responses due to the stochastic nature of the neuronal integration processes. In order to achieve high precision in real-time, nervous systems had to evolve mechanisms to extract information about relevant object properties despite a rather high variability of neural responses observed in many examples. Besides parallel processing, there are two basic strategies to reduce variability. First, to integrate over time and second, to average across several processing elements. The first strategy is constrained by its possible interference with temporal resolution. The benefits of averaging across neurons, on the other hand, depend on uncorrelated responses, a factor that may be crucial for the performance and evolution of nervous systems. In this symposium insights from different sensory modalities (acoustic, visual, electrosensory) as well as theoretical approaches will be presented. In doing so we will compare large (vertebrate) and small (insect) nervous systems as in the latter, due to size limitations, we expect to find solutions for specific tasks that are stripped to the computational basics. Special emphasis is given to model systems in which both the neuronal variability as well as the system's output were determined, i.e. systems in which real-time processing capacity can be directly compared to behavioural precision.

Symposium 9

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 10

Chair: R. Matthias Hennig and Bernhard Ronacher, Berlin

16:15 *Rüdiger Krahe, Montreal (CDN)*
Reliability of neuronal coding in the electrosensory system of weakly electric fish

16:40 *Richard Hahnloser, Zürich (CH)*
In search of online learning mechanisms for birdsong

17:05 *Astrid Vogel, Bernhard Ronacher and R. Matthias Hennig, Berlin*
Acoustic pattern recognition in insects: real time processing vs. variability of neural responses

17:30 **Coffee Break**

18:00 *Anne-Kathrin Warzecha, Münster*
Getting on the track of noise: Contraints on the reliable computation of visual motion information by fly motion sensitive neurons

18:25 *Arnaud Delorme, La Jolla, CA (USA)*
Human brain dynamics leading to fast responses

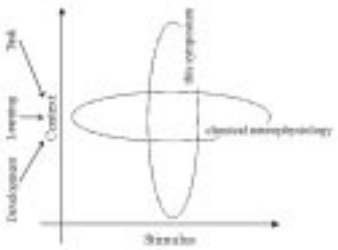
18:50 *Gabriel Curio, Berlin*
High-frequency (600 Hz) bursts of cortical population spikes in non-invasive human EEG and MEG recordings

Introductory Remarks to Symposium 10

Plasticity and Task-Dependence of Auditory Processing

Frank W. Ohl and Holger Schulze, Magdeburg

Traditionally, most of our knowledge on stimulus processing in the auditory system (as well as in other sensory systems) has been gained from the study of neuronal response changes associated with parametric variation of physical stimulus features. Recently, an increasing number of researchers focus on the complementary situation, i.e. changes of neuronal responses with physical stimulus parameters held constant. In this situation the sources of response variation are internal to the organism. One such source of internal response variation is the history of the subject's previous experiences giving rise to what here is termed plasticity of neuronal responses. This type of influence can be studied by experimentally interfering with developmental processes *(developmental plasticity)* or by exposing the subject to learning situations *(learning-induced plasticity)*. A related, but separable, source of internal response variation can be studied when a subject processes identical stimuli in the context of variable tasks to be performed *(task dependence)*. As a common denominator between both aspects of internal response variation the concept of *top-down modulation of bottom-up processes* is discussed. The symposium aims at characterizing how our understanding of auditory processing is complemented by taking the phenomenon and the underlying mechanisms of internal sources of response variation into consideration. Current achievements from various experimental and theoretical approaches (represented by the speakers' main research traditions) will be reviewed and future research strategies will be suggested.



Symposium 10

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 105

Chair: Frank W. Ohl and Holger Schulze, Magdeburg

16:15 *Jean-Marc Edeline, Orsay (F)*
Dynamic modulation of rate and temporal coding in the thalamo-cortical auditory system of awake guinea-pigs

16:35 *Günther Ehret, Ulm*
Corticofugal modulation of auditory processing in the mouse

16:55 *Frank W. Ohl, Magdeburg*
Cognitive aspects of animal auditory learning

17:15 *Benedikt Grothe, Martinsried*
Developmental and adult plasticity in the mammalian sound localization system

17:35 **Coffee Break**

18:05 *Jonathan B. Fritz, College Park (USA)*
Rapid task-related plasticity of spectrotemporal receptive fields in the auditory cortex

18:25 *Georg Klump, Oldenburg*
Bottom-up and top-down processing in auditory scene analysis

18:45 *Holger Schulze, Magdeburg*
Correlates of AM discrimination learning in auditory cortex of the gerbil

Introductory Remarks to Symposium 11

The integrated role of glial cells in the CNS: new methodological approaches

Paola Bezzi and Carola Schipke, Lausanne (CH) and Berlin

The integrated role of glial cells, especially the role of astrocytes in synaptic transmission, is the central topic of this symposium. It is a very recent acquisition that glial cells generate signalling loops which are integral to the brain circuitry and participate interactively with neuronal networks in the processing of information. While neuronal signalling, based on electrical excitability, has been successfully studied with electrophysiological approaches, glial cell signalling was not revealed by these approaches and remained unknown until a few years ago. It was only the use of optical recording techniques and dyes sensitive to changes in the intracellular calcium concentration ($[Ca^{2+}]_i$) that allowed the chemical excitability of glial cells to become apparent. Studies using these new techniques have shown for the first time that glial cells are activated by surrounding synaptic activity and translate neuronal signals into their own calcium code. $[Ca^{2+}]_i$ elevations in glial cells have been shown to underlie spatial transfer of information in the glial network, accompanied by release of chemical transmitters such as glutamate and back-signalling to neurons. As a consequence optical imaging techniques applied to cell cultures or intact tissue have become a state-of-the-art technology for studying glial cell signalling. As the morphological basis and the molecular mechanisms leading to release of "gliotransmitters" from glia is still under debate, only cell biology and electron microscopic work of glial cells within the neuronal network in combination with dynamic imaging elucidates the morphology, subcellular organization and possible release machinery in glia. The speakers in this symposium will address these questions in their talks - from (subcellular) morphology to the integrated role of astrocytes in neuronal circuits.

Symposium 11

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 104

Chair: Paola Bezzi and Carola Schipke, Lausanne (CH) and Berlin

16:15 *Christine R. Rose, Munich*
Imaging of glial calcium transients

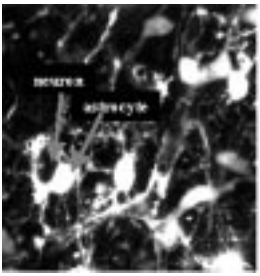
16:40 *Giorgio Carmignoto, Padova*
Neuronal synchrony in the hippocampus mediated by glutamate released from astrocytes

17:05 *Paola Bezzi, Lausanne (CH)*
Dynamic Imaging of glutamate exocytosis from astrocytes

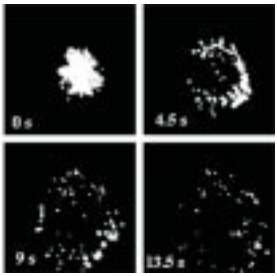
17:30 **Coffee Break**

18:00 *Carola G. Schipke, Berlin*
Imaging of activity dependent transmitter release from astrocytes

18:25 *Vidar Gundersen, Oslo (N)*
Immunogold detection of VGUTs in hippocampal astrocytes



Astrocytes are an integral part of the brain circuitry.....



.....and can communicate via the release of substances as visualized by Ca^{2+} imaging

Introductory Remarks to Symposium 12

Cellular and molecular control of vertebrate neurogenesis

Alexander von Holst, Bochum

During mammalian CNS development neurons and glial cells are generated from precursors and/or neural stem cells. Neurons are born first in a highly orchestrated process called neurogenesis. Over the last two or three years we have seen an exciting increase in the understanding of the cell types that can give rise to neurons, identifying them as neuroepithelial cells, radial glial cells and even astrocytes. It became apparent that cells of the glial lineage are much more plastic than previously thought, contributing considerably to the final neuron numbers. On the molecular level several transcription factors that control neurogenesis and reflect regional specification have been identified. Much less well understood are how regional differences and signalling events that control the birth of neurons and the subtypes that they will ultimately give rise to, are integrated on a cellular level. Also, the molecules defining the local neurogenic environment - the stem cell niche - and their functions are only in the beginning of being elucidated. The symposium intends to give a state of the art overview of the cellular processes leading to the birth of neurons in the brain, and provide a framework for discussion how intrinsic determinants and extracellular cues are integrated by neural stem cells. Wieland Huttner will discuss symmetric and asymmetric modes of neuroepithelial cell division and how they are linked to the birth of neurons. He will talk about the cell cycle control gene TIS21 that has allowed to label and monitor neuronal precursors in their last round of cell division leading to the birth of postmitotic neurons. Magdalena Götz will talk about her findings that radial glia cells contribute to telencephalic neurogenesis. In addition to fate mapping of radial glia progeny she will present data on the function of Pax6 and transcription factors of the bHLH-family and how they might determine radial glia cell fate. Kenneth Campbell will discuss neurogenesis in the context of axial patterning. He will introduce the nuclear orphan receptor Tlx and report the consequences of Tlx-deficiency that lead to patterning defects, reduced proliferation and altered neuronal development in the ventral telencephalon. He will also speak about the genetic interaction of Tlx with other transcription factors, for example Pax6. The region specific expression of transcription factors (patterning) correlates with the region specific differentiation of defined neuronal cell types. Ernest Arenas will talk about the selective induction of dopaminergic neurons by astroglial cells of midbrain origin. He will discuss candidate molecules secreted by astrocytes and the role of Wnt-family members in the development

Symposium 12

Thursday, February 17, 2005,
16:15 - 19:15, Lecture Hall 8

Chair: Alexander von Holst, Bochum

16:15 *Wieland B. Huttner, Dresden*
The cell biology of neurogenesis

16:40 *Magdalena Götz, Neuherberg/Munich*
Glial cells generate neurons: Pax6 as neurogenic master regulator of neural stem cells

17:05 *Kenneth Campbell, Cincinnati (USA)*
Molecular mechanisms of embryonic and postnatal neurogenesis in the mouse telencephalon

17:30 **Coffee Break**

18:00 *Ernest Arenas, Stockholm (S)*
Role of region specific glia in the induction of midbrain dopaminergic neurons

18:25 *Charles ffrench-Constant, Cambridge (UK)*
Regulation of neural stem cells by extracellular matrix

18:50 *Alexander von Holst, Bochum*
Cellular and functional characterisation of chondroitinsulfates during neurogenesis

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of ventral midbrain dopaminergic neurons. Charles ffrench-Constant will address the role of the extracellular matrix in neural stem cells. In particular he will discuss the functional consequences of Tenascin-C deficiency and the importance of integrins in neural stem cells. Alexander von Holst will present findings on the cellular specificity of defined chondroitinsulfate proteoglycans identifying them as radial glia associated and, how interference with them alters neural stem cell differentiation. As many of the molecular and cellular players continue to be present in the neurogenic regions of the adult brain, the topic of the symposium will be of considerable interest not only to developmental neuroscientists but also to other researchers in the field of neuroscience.

Introductory Remarks to Symposium 13

Use of two-photon fluorescence microscopy to study neuronal calcium signalling in brain slices and in the intact brain

Rafael Kurtz and Jack Waters, Bielefeld and Heidelberg

Less than 15 years after its inception, two-photon laser scanning fluorescence microscopy has become established as an invaluable tool in neuroscience. The aim of this symposium is to present and critically discuss advantages and limitations of two-photon techniques in the study of neuronal calcium dynamics. One major focus of this symposium is on in vivo applications, since two-photon techniques have revolutionized studies in the intact brain, allowing deep imaging over extended periods of time. The symposium will be opened by Fritjof Helmchen who will introduce the fundamental principles of two-photon microscopy and discuss some recent technical developments. These include fiberoptic-based miniaturized microscopes, mounted on the head of freely moving rodents. In the second talk Jack Waters will demonstrate the use of two-photon calcium imaging in the cortex of anaesthetized rats to elucidate how ongoing synaptic activity in pyramidal neurons shapes intracellular signal propagation. He will show that action potential backpropagation and the resulting calcium influx, major computational features of pyramidal cells in slice preparations, are also present during states of high synaptic input in vivo. Rafael Kurtz will then illustrate the use of multi-line two-photon microscopy to study calcium dynamics in the fly visual system. This technique utilizes a beam splitter to allow simultaneous imaging in multiple locations. Thomas Oertner will focus on the role of synaptic plasticity-related proteins in dendritic spines. By measuring protein concentration and postsynaptic calcium transients, he will address the question of cooperativity between neighboring synapses. The symposium will be closed by Olga Garaschuk who will present a method for in vivo functional imaging of neuronal networks. She will discuss approaches to monitor calcium levels in non-anaesthetized animals and illustrate the applicability of these techniques by showing that large-scale spontaneous calcium waves can be monitored in behaving newborn mice.

Symposium 13

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 10

Chair: Rafael Kurtz and Jack Waters, Bielefeld and Heidelberg

9:00 *Olga Garaschuk, München*
In vivo calcium imaging of endogenous brain rhythms

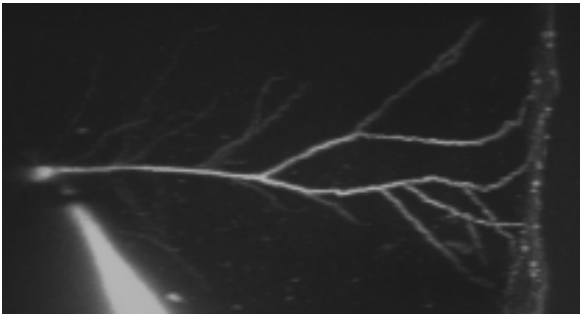
9:30 *Thomas Oertner, Basel (CH)*
Activity-dependent changes in protein concentration in dendritic spines

10:00 *Fritjof Helmchen, Heidelberg*
Two-photon microscopy: standard and fiber-optic approaches

10:30 **Coffee Break**

11:00 *Jack Waters, Heidelberg*
Imaging action potential back propagation in anaesthetized and in awake rats

11:30 *Rafael Kurtz, Bielefeld*
In vivo multiline two-photon microscopy of calcium dynamics in the visual system of the fly



Layer 2/3 Neuron in vivo (Jack Waters)

Introductory Remarks to Symposium 14

Neuronal injury and infection

Roland Nau and Wolfgang Brück, Göttingen

In central nervous system infections, death and long-term neurologic sequelae can be caused by 1.) the host´s systemic inflammatory response leading to leucocyte extravasation, vasculitis, brain edema and secondary ischemia, 2.) stimulation of resident microglia within the central nervous system by bacterial compounds and 3.) direct toxicity of bacterial compounds on neurons. Autoimmune diseases of the central nervous system can be induced or aggravated by extracerebral infections. Moreover, the progression of neurodegenerative diseases appears to be accelerated by extracerebral infections. The symposium will cover the different mechanisms, how infectious agents can affect the central nervous system either directly or by stimulating the host's immune reaction. Particular emphasis will be placed upon the innate immunity. Approaches to counteract pathogenmediated neuronal injury will be discussed.

Symposium 14

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 8

Chair: Roland Nau and Wolfgang Brück, Göttingen

9:00 *Timothy J. Mitchell, Glasgow (UK)*
The action of pneumolysin and other bacterial haemolysins on immune cells and neurons

9:25 *Jörg R. Weber, Berlin*
Innate sensors for Gram-positive and Gram-negative bacteria

9:50 *Harald Neumann, Göttingen*
Cytotoxic effects of microglia on neurons

10:15 **Coffee Break**

10:45 *Gerald Münch, Townsville (AUS)*
Neuro-inflammatory processes in Alzheimer's disease

11:10 *V. Hugh Perry, Southampton (UK)*
The impact of systemic inflammation on the progression of neurodegenerative disease

11:35 *Roland Nau, Göttingen*
Strategies aiming at minimizing the liberation of proinflammatory and toxic products from pathogens during the treatment of infection

Introductory Remarks to Symposium 15

Nitric oxide / cyclic nucleotide signaling as regulator of developmental processes and cell motility in the nervous system

Gerd Bicker and Vincent Rehder, Hannover and Atlanta (USA)

Nitric oxide (NO) is a membrane-permeable signaling molecule that activates soluble guanylyl cyclase (sGC) and leads to the formation of cGMP in target cells. Our symposium will explore the contribution of NO signaling via cGMP and other transduction pathways to the developmental processes of neurogenesis, postmitotic neuron migration, growth cone behavior, and synaptogenesis. The talk of Stefan Arnhold will shed light on the time dependent expression of different NO-synthase (NOS) isoforms in various nervous compartments during neurogenesis of the mouse. The functional role of NO is investigated in embryonic stem cell derived neuronal differentiation as well as in neural precursor cells of different brain compartments. Gerd Bicker introduces an accessible insect model in which NO/cGMP signaling is essential for cell migration of enteric neurons and axonogenesis of pioneer fibers. Fritz Rathjen analyzes the trajectories of axons within the spinal cord showing a longitudinal guidance defect of sensory axons within the developing dorsal root entry zone in the absence of cGMP-dependent protein kinase I (cGKI). These axon guidance defects in cGKI-deficient mice are leading also to a substantial impairment in nociceptive flexion reflexes. The work by Vincent Rehder describes that NO orchestrates two aspects of growth cone behavior in identified snail neurons, namely neurite outgrowth and filopodial dynamics. The findings support the hypothesis that NO can function as a potent slow/stop signal for developing neurites. The lecture of Dieter Blottner deals with recent molecular assembling models for NOS as part of the postsynaptic apparatus in the developing neuromuscular junction. In addition, NO signaling actions will be discussed for development, maintenance and plasticity of the neuromuscular system. Finally, Joachim Schachtner addresses the contribution of NO to synaptogenesis in an insect brain. Pharmacological interference with the NO/cGMP signaling pathway results in reduction of the ubiquitous synaptic vesicle protein synaptotagmin, suggesting that NO enhances the rate of synaptogenesis during development of olfactory glomeruli via cGMP.

Symposium 15

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 102

Chair: Gerd Bicker and Vincent Rehder, Hannover and Atlanta (USA)

9:00 *Stefan Arnhold, Köln*
The expression of different NO-synthase isoforms during murine nervous system development

9:25 *Gerd Bicker, Hannover*
Stop and Go with NO: Nitric oxide regulates cell motility in embryonic insect neurons

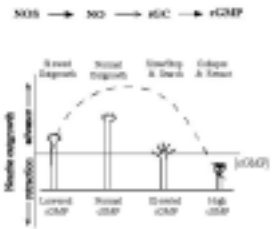
9:50 *Fritz G. Rathjen, Berlin*
cGMP signalling and pathfinding of sensory axons within the spinal cord

10:15 **Coffee Break**

10:45 *Vincent Rehder, Atlanta (USA)*
The nitric oxide/soluble cuanylyl cyclase signaling pathway in neurons regulates growth cone behavior through calcium

11:10 *Dieter Blottner, Berlin*
NOS / NO assembly in neuromuscular junction formation

11:35 *Joachim Schachtner, Marburg*
Regulation and role of the NO/cGMP signaling pathway during antennal lobe development of the sphinx moth Manduca sexta.

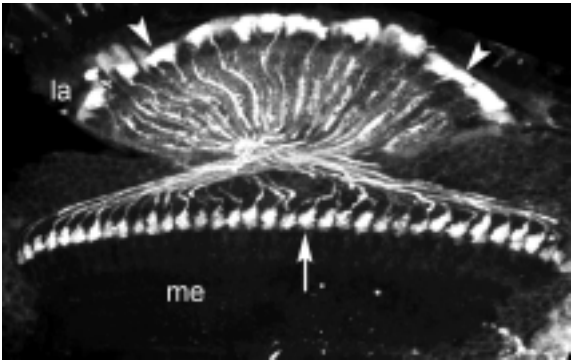


Introductory Remarks to Symposium 16

New vistas on insect vision

Roland Strauss and Reinhard Wolf, Würzburg

Sensory information is processed through multiple stages in the nervous system before an appropriate motor output is produced. Recent research in insects has considerably furthered our understanding of the underlying processes and neural substrates. Rister, Heisenberg, Sinakevitch and Strausfeld disentangle the often parallel pathways of peripheral visual processing in *Drosophila* using latest neurogenetic techniques. Haag and Borst can explain complex receptive field properties of visual interneurons in the blowfly in terms of network interactions. By studying the visual receptive fields of motor neurons in the fly Krapp and Huston follow up and analyze in depth distinct pathways from the sensory input to the motor output. In their analysis of landmark orientation behavior in *Drosophila* Mronz and Strauss found new evidence for weighted integration of motion to be the basis. Their simple model derived from the biological original does produce fly-like autonomous orientation behavior of a camera-equipped robot. Traveling further into the center of the insect brain, Homberg and Pfeiffer will describe the processing of polarized light information in the brain of the desert locust, and how this information is converted into a sky compass. Last not least Wolf and Heisenberg show that visual pattern recognition in *Drosophila* is invariant for the retinal position. Moreover, they provide compelling evidence for the usage of selective visual attention in this process.



Symposium 16

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 105

Chair: Roland Strauss and Reinhard Wolf, Würzburg

9:00 *Jens Rister and Martin Heisenberg, Würzburg, Irina Sinakevitch and Nicholas Strausfeld, Tucson*
Neurogenetic analysis of the functional role of the T1 basket cell, a prominent interneuron of the fly's visual system

9:25 *Jürgen Haag and Alexander Borst, Martinsried*
Network interactions underlying complex receptive field properties of fly visual interneurons

9:50 *Holger Krapp and Stephen Huston, Cambridge (UK)*
Encoding self-motion: From visual receptive fields to motor neuron response maps

10:15 **Coffee Break**

10:45 *Markus Mronz and Roland Strauss, Ulm and Würzburg*
A simple model for visual object orientation in the walking fruit fly

11:10 *Uwe Homberg and Keram Pfeiffer, Marburg*
Polarization vision and sky compass in the desert locust

11:35 *Reinhard Wolf and Martin Heisenberg, Würzburg*
Pattern recognition in Drosophila requires selective visual attention

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Horizontal agarose section of a lamina (la) and a medulla (me) within a Drosophila *optic lobe. Green fluorescent protein (*GFP*) is specifically expressed in the L2 monopolar cells by using the line* P[Gal4]-21D *as driver (Keller 2002). L2 are columnar relay neurons which are postsynaptic to the photoreceptors* R1-R6. Arrowheads*: cell bodies distal to the lamina;* arrow*: terminal arborizations in the distal medulla*

Introductory Remarks to Symposium 17

Genomic and Proteomic Expression Profiling in Neural Repair

Joost Verhaagen and Hans W. Müller, Amsterdam (NL) and Düsseldorf

The study of changes in gene and protein expression at a comprehensive or (near) genome wide scale can be used to help elucidate the molecular mechanisms underlying key neurobiological events. In this symposium we will highlight the application of genomics and proteomics approaches to study the molecular response of neurons and glial cells to traumatic injury of the peripheral and central nervous system. So far, studies on the molecular biology of neuroregeneration have dealt with only single or small sets of molecules. In this symposium we will discuss key developments that allow for the first time the simultaneous study of thousands of genes and proteins in the injured nervous system. Injury to the central nervous system (CNS) will usually result in abortive nerve sprouting and the formation of an inhibitory scar at the site of the injury. In contrast, peripheral nerve injury results in successful regeneration of injured axons over long distances, synapse formation and consequently functional recovery. The molecular changes that govern successful regeneration of the peripheral nervous system and that prevent regeneration in the CNS are very complex. This symposium will cover the first genomics and proteomics studies that are performed to understand the molecular differences between the injured CNS and PNS. These studies have revealed differences in specific expression patterns in the innate neuronal response to CNS and PNS injury. Moreover, genomics and proteomics studies on the glia cell environment are beginning to reveal why Schwann cells or CNS glia do have a profound decisive influence on the regenerative capacity of injured axons.

Symposium 17

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 104

Joost Verhaagen and Hans W. Müller,
Amsterdam (NL) and Düsseldorf

9:00 *Floor J. Stam, Amsterdam (NL)*
Large scale screening for regeneration-associated proteins and genes

9:40 *Patrick Küry, Düsseldorf*
Comparison of axotomy-induced neuronal gene expression in PNS and CNS

10:20 **Coffee Break**

10:40 *Frank Bradke, Martinsried*
Molecular mechanisms of axonal regeneration

11:20 *Leda Dimou, Zurich (CH)*
Gene expression changes induced by blocking or ablation of Nogo-A in spinal cord and brain

Introductory Remarks to Symposium 18

Brain-Computer-Interfaces (BCI): neuroprostheses for the paralyzed

Ute Strehl, Tübingen

Recent advances in invasive and non-invasive self-control of neuroelectric activities using EEG and ECoG and in animals cellular recordings lead to the development of different types of BCIs for communication in locked-in-patients and first steps in the application of BCIs for motor paralysis after spinal cord lesions. Patients learn to produce differential brain responses to select letters, words or motor activities from a computer menu. Slow cortical potentials, mu-rhythm of the EEG, high-frequency beta- and gamma-oscillations and extracellular field potentials in animals are classified on-line with fast algorithm differentiating the neuroelectric activities in such a way to allow flexible production of one or several brain signals. The symposium presents the most recent advances in the BCI-field for application in human neurological disorders and provides the audience with an overview of the possibilities of thought-translation and neuronal learning mechanisms underlying direct brain control.

Symposium 18

Friday, February 18, 2005,
9:00 - 12:00, Lecture Hall 9

Chair: Ute Strehl, Tübingen

9:00 *Klaus-Robert Müller, Berlin*
Algorithms for on-line differentiation of neuroelectric activities

9:40 *Jonathan R. Wolpow, Albany, New York (USA)*
Invasive and non-invasive brain-computer interfaces using fast brain oscillations

10:20 **Coffee Break**

10:40 *Gert Pfurtscheller, Graz (A)*
Thought-based navigation in virtual reality and control of functional electrical stimulation in tetraplegic patients

11:20 *Niels Birbaumer, Tübingen*
Invasive and non-invasive brain-computer-interfaces for communication in locked-in syndrome

Introductory Remarks to Symposium 19

Neural mechanisms of visual perception and learning in man and monkey

Gregor Rainer, Tuebingen

Vision is an active process, during which behaviourally relevant information is extracted from the visual environment and made available to guide actions. Understanding the neural underpinnings of visually based behaviour remains a key subject of investigation in systems neuroscience. One area of recent progress has been the documentation that the visual system does not remain static during adult life, but is instead subject to continuous experiencedependent modification and optimization involving neural plasticity at different levels of the visual system, as well as recurrent feedback among areas. The particular past experience of each individual thus shapes how incoming sensory signals are processed and analyzed. It has also become apparent that a comprehensive understanding of visual processing must include investigations of how visual areas interact with other brain regions such as parietal and frontal areas involved in controlling information flow through sensory areas and in generating plans or actions based on visual information. In this symposium, we present a multidisciplinary view of recent advances in our understanding of how visual signals are analyzed and used to guide behaviour. We will begin by focusing on neural mechanisms at the level of brain networks using functional imaging in human subjects, and on studies in humans of recovery of function after deprivation. Mark Greenlee will use fMRI to explore visual and eye-movement related signals during visual search focusing on effects on parietal and frontal brain areas. Alumit Ishai will examine the nature of object representation in human visual cortex using fMRI, and also the interaction between visual and fronto-parietal brain regions during imagery. Brigitte Roeder will explore how plasticity in the visual system can aid recovery of visual functions after sensory deprivation. The remaining presentations will focus on neural mechanisms at the level of single neurons using extracellular electrophysiological recording in awake behaving monkeys. Rufin Vogels will describe how learning changes the responses of neurons to visual stimuli in the monkey inferior temporal cortex, and will relate these changes

Symposium 19

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 10

Chair: Gregor Rainer, Tuebingen

15:00 *Mark W. Greenlee, Regensburg*
Neural correlates of visual exploration: Event-related fMRI analysis of eye movements during visual search

15:25 *Alumit Ishai, Zurich (CH)*
fMRI studies of face perception and memory

15:50 *Brigitte Röder, Hamburg, Oxford (UK)*
Functional recovery after visual deprivation in early childhood

16:15 **Coffee Break**

16:45 *Rufin Vogels, Leuven (B)*
Stimulus selectivities and effects of perceptual learning in macaque inferior temporal cortex

17:10 *Leonardo Chelazzi, Verona (I)*
From perception to action in the activity of macaque V4 and 7a neurons

17:35 *Gregor Rainer, Tuebingen*
Neural correlates of learning in primate visual and prefrontal cortex

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to behavioral improvements in processing these learned patterns. Leonardo Chelazzi will discuss recent results on the relationship between visual and parietal cortex as sensory signals are transformed to actions, and finally Gregor Rainer will examine learning-related changes in distinct regions of prefrontal and visual cortex, showing that neural activity is modified in a qualitatively different manner in these two regions.

Introductory Remarks to Symposium 20

Amyotrophic Lateral Sclerosis (ALS) and Motoneuron Disease: From basic molecular and cellular mechanisms to novel clinical applications

Bernhard U. Keller, Jochen Weishaupt, and Mathias Bähr, Göttingen

Amyotrophic Lateral Sclerosis (ALS) is a fatal neurodegenerative disease characterized by the selective loss of motoneurons in the cortex, brain stem and spinal cord. While many questions about the underlying aetiology and pathogenesis are still unresolved, novel basic and clinical research activities have provided valuable insights into the molecular and cellular basis of this important neurodegenerative disorder. The focus of the symposium is to highlight recent insights into motoneuron function and disease and to evaluate the significance of these findings for future clinical developments. At first, Michael Sendtner will present evidence for the critical role of axonal transport for motoneuron survival, axon growth and cell death. This presentation will be followed by an illustration of the important interaction between motoneurons and glial cells in a mouse model of motoneuron disease presented by Albrecht Clement. Consequently, talks by Bernhard Keller and Jochen Weishaupt will highlight the central role of mitochondria- and apoptosis related mechanisms for motoneuron function and disease, in particular for the regulation of $[Ca^{2+}]_i$. dependent processes. Subsequently, Jeffrey Rothstein will present evidence for disrupted glutamate transport and regulation in ALS, and will address the question how insights into the molecular basis of glial glutamate transporters might be utilized for novel clinical approaches. Finally, Albert Ludolph and Reinhard Dengler will present novel insights from clinic-related studies and will evaluate the potential of future therapeutic developments. Triggered and supported by activities within the novel DFG - Center of Molecular Physiology of the Brain (CMPB) in Göttingen, the symposium will thus provide a challenging link between novel basic and clinical research initiatives.

Symposium 20

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 102

Chair: Bernhard U. Keller, Jochen Weishaupt and Mathias Bähr, Göttingen

15:00 *Michael Sendtner, Wuerzburg*
Signals for survival and axon growth in motoneurons

15:20 *Albrecht Clement, Mainz*
The neuron-glia connection: Glial cell involvement in SOD1-mediated motor neuron disease

15:40 *Bernhard U. Keller, Göttingen*
Mitochondria and calcium signalling in motoneurons: implications for selective motoneuron vulnerability

16:00 *Jochen Weishaupt, Göttingen*
Cyclin-dependent kinase 5 (CDK5) and neuronal cell death in motoneuron disease

16:20 **Coffee Break**

16:45 *Jeffrey D. Rothstein, Baltimore (USA)*
Non-neuronal cells in ALS neurodegeneration: Mechanisms and therapies

17:20 *Albert C. Ludolph, Ulm*
Novel insights into the aetiology and pathogenesis of ALS: implications for clinical therapeutic strategies

17:40 *Reinhard Dengler, Hannover*
Clinical and therapeutic aspects of amyotrophic lateral sclerosis: current and future developments

Introductory Remarks to Symposium 21

What the nose tells the brain - News and views in olfactory coding

Ivan Manzini and Frank Zufall, Göttingen and Baltimore (USA)

The sensing of molecules in the environment is critical to the success of every organism. As an indication for the importance of this task, most animals have developed highly sophisticated olfactory systems and large portions of the genome are devoted to encode chemosensory receptors and other molecules necessary for a normal sense of smell. It is therefore hardly surprising that the past years have seen an explosion in studies aimed at understanding the functioning of the olfactory system. These studies span all levels of analysis - from genes to behavior. Efforts to determine the cellular, molecular and genetic basis underlying the detection and transduction of an almost unlimited number of odour molecules have laid the foundation of this field. Other important current efforts focus on the question of how the information contained in these molecules is encoded and mapped onto neural space. Particularly interesting in this respect is the relationship between neural activity in the peripheral sensory neurons and neural circuits in higher olfactory centres such as the olfactory bulb. Especially challenging has been the quest to decipher the signalling codes that underlie odour-dependent mammalian social behaviours, but even these complex questions - which require an understanding of the mechanisms for the detection of genetic individuality - are now within reach. This symposium brings together several researchers that will discuss new results with respect to these topics. Because of the strikingly conserved functional organization of peripheral olfactory pathways across many species throughout the animal kingdom, an important aspect of this symposium will be to highlight similarities but also differences in olfactory coding mechanisms in various animal models, from flies to amphibians to mice.

Symposium 21

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 9

Chair: Ivan Manzini and Frank Zufall, Göttingen and Baltimore (USA)

15:00 *P. Feinstein and P. Mombaerts, New York, NY (USA)*
A contextual model for self-sorting of axons into glomeruli in the mouse olfactory system

15:25 *J. Strotmann, O. Levai, S. Conzelmann, K. Schwarzenbacher, J. Fleischer and H. Breer, Stuttgart*
Olfactory receptors: spatial expression and topograhic projection

15:50 *C. G. Galizia, A. F. Silbering and D. Pelz, Riverside, CA (USA) and Berlin*
Processing of olfactory information in the fruit fly Drosophila melanogaster

16:15 **Coffee Break**

16:45 *I. Manzini and D. Schild, Göttingen*
Responses of olfactory receptor neurons in Xenopus laevis tadpoles and their projection onto olfactory bulb neurons

17:10 *F. Zufall, Baltimore, MD (USA)*
Molecular mechanisms of pheromone detection in mice

17:35 *C. H. Wetzel and H. Hatt, Bochum*
Modulation of odorant signalling pathways

Introductory Remarks to Symposium 22

Function of the glial cell line derived neurotrophic factor family in development and disease

Heike Peterziel, K. Herbert Schäfer and Klaus Unsicker, Heidelberg und Kaiserslautern

Members of the glial cell line-derived neurotrophic factor (GDNF) family serve important functions in development and maintenance of distinct sets of central and peripheral neurons. All four GDNF-family ligands (GFL), GDNF, neurturin (NRTN), artemin (ARTN), and persephin (PSPN), interact with a multi-subunit receptor complex formed by the c-Ret tyrosine kinase, RET, and a cystine-rich glycosyl phosphatidylinositol-anchored binding receptor (GDNF receptor alpha1-4). Since their discovery, GFL have received particular attention because of their therapeutic potential in numerous neurological diseases, such as Parkinson's disease, motor neuron diseases, or sensory regeneration and neuropathic pain. Targeted mutagenesis in transgenic mice has shown that Ret, and GFL are required for multiple developmental events including development of the enteric nervous system (ENS) affected in Hirschsprung's disease. The symposium focuses on the molecular mechanisms of the initiation and the contextual dependence of signal transduction by GDNF family ligands, their neuroprotective and neuroregenerative potential and their involvement in developmental processes.

Symposium 22

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 104

Chair: Heike Peterziel, K. Herbert Schäfer and Klaus Unsicker, Heidelberg und Kaiserslautern

15:00 *Klaus M. Giehl, Dallas (USA)*
Neurotrophins and GDNF-family ligands: mechanisms of trophic support and lesion-induced switches

15:30 *Vasilis Pachnis, London (UK)*
The co-ordinate role of Glial cell line-derived neurotrophic factor (GDNF) and Endothelin-3 (ET-3) in the development of the mammalian enteric nervous system

16:00 *Heike Peterziel, Heidelberg*
Signalling crosstalk in GFL-mediated neuron survival

16:30 **Coffee Break**

17:00 *Mart Saarma, Helsinki (FIN)*
Structure of GFRalpha1 receptor and its implications to GDNF and RET binding

17:30 *K.- Herbert Schäfer, Zweibrücken*
Influences of the GDNF-family upon postnatal development of the enteric nervous system

Introductory Remarks to Symposium 23

Possible mechanisms contributing to memory consolidation during sleep

Steffen Gais and Jan Born, Lübeck

Many recent studies show that sleep contributes to the consolidation of new memories. This symposium will discuss research on mechanisms thought to underlie the memory enhancing effect of sleep primarily from two directions: On the one hand, a reactivation of neuronal ensembles or brain areas has been found during sleep in neurons that have been active during a preceding learning episode, indicating a processing of newly learned information during sleep. On the other hand, sleep provides a particular pattern of neurotransmitter and neuroendocrine activity which facilitates occurrence of consolidation processes. Here, we will present recent rat and human research that tries to understand these mechanisms. A technique that allows recording simultaneously the activity of ensembles of hundreds of single neurons in freely behaving animals made possible to monitor specific memory patterns in the rat hippocampus and neocortex. Matthew Wilson will provide evidence that the neocortex may be creating memories that attempt to generalize across experience, while the hippocampus stores the experiences themselves, and he will explain what this has to do with the „dreaming life" of rats. Functional brain imaging experiments have demonstrated the re-expression and modulation of learning-related cerebral activity in the sleeping brain. Emphasizing human PET studies Philippe Peigneux will trace the cerebral correlates of the journey of a new memory, from its initial acquisition and maintenance during wakefulness to its re-expression and consolidation during post-training sleep. Low-resolution brain electromagnetic tomography (LORETA) is another new method that offers the possibility of investigating under undisturbed sleeping conditions when (in which sleep stages) and where (in which cortical brain regions) experience-dependent reactivation occurs during sleep. Peter Anderer will present recent results from studies using EEG and LORETA in human subjects. It is possible to record directly the human hippocampal EEG in rare epileptic patients who have electrodes implanted for diagnostic purposes. Jürgen Fell will show that during sleep rhinal-hippocampal EEG coherence of gamma activity, induced by declarative memory encoding, is reduced compared to the waking state, which may explain the deficiency of memory encoding during sleep. Spatial learning tasks have been shown to increase the amount of REM sleep with its typical theta rhythm (6-8 Hz) and spindle activity (12-15 Hz) within the EEG of non-REM sleep. Thomas Schiffelholz will show recent data indicating that these learning dependent changes within the EEG also occur following non-spatial learning tasks in rats. Norepinephrine from the locus coeruleus plays an important role in the modulation of longterm memory consolidation. Its participation in the regulation of

Symposium 23

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 8

Steffen Gais and Jan Born, Lübeck

15:00 *Peter Anderer, Vienna (A)*
Significance of electrophysiological neuroimaging in studying memory formation during sleep

15:20 *Jürgen Fell, Bonn*
Neural correlates of impaired memory encoding during sleep in humans

15:40 *Philippe Peigneux, Liège (B)*
Cerebral correlates of memory consolidation through the sleep-wake cycle: contributions from functional neuroimaging

16:10 *Susan J. Sara, Paris (F)*
Locus Coeruleus activity in the rat during task acquisition, task performance and during sleep episodes following new learning or memory reactivation

16:30 **Coffee Break**

17:00 *Thomas Schiffelholz, Kiel*
Novel object presentation enhances theta and spindle activity within the sleep EEG of the rat

17:20 *Matthew A. Wilson, Cambridge (USA)*
Hippocampal-neocortical interactions in the memory of time and space

17:40 *Steffen Gais, and Jan Born, Lübeck*
Changes in brain cholinergic activity during sleep and wakefulness in humans affect memory consolidation

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sleep makes it a possible candidate for mediating sleep's influence on memory. Susan Sara will present research done in rats that links noradrenergic locus coeruleus activity to sleep spindles and to memory consolidation. Acetylcholine (ACh) is another neurotransmitter involved in sleep regulation and memory. While memory encoding needs high levels of ACh, the low concentration of ACh during SWS is important for memory consolidation. Jan Born and Steffen Gais will show data from several experiments in humans using post-learning cholinergic agonists and antagonists.

Introductory Remarks to Symposium 24

Comparative insights into genetic and activity-dependent mechanisms of CNS development

Christian Lohr and Carsten Duch, Kaiserslautern and Berlin

Following up the phylogenetic tree of the animal kingdom, we find an increasing number of neurons in the central nervous system, from a few hundreds in lower invertebrates up to several billions in the mammalian brain establishing trillions of synapses. The precise wiring of this large number of neurons is one of the most challenging and fascinating processes during brain development. Many aspects of CNS development and remodelling such as cell migration, dendritic growth, synaptogenesis and alterations in excitability are controlled by electrical activity and intracellular calcium signalling, which lead to structural and physiological modifications and ultimately result in long-lasting changes in gene expression. During the last few years novel molecular and imaging techniques have enabled exciting new insights into the mechanisms underlying neural circuit maturation and refinement. In this symposium, each speaker emphasizes particular aspects of the development of central synapses and circuits, from the molecular level to the system level, employing up-to-date techniques. The contributions not only highlight different steps of circuit development, like synaptogenesis, cell migration and differentiation, but also compare mechanisms found in different taxa, i.e. in invertebrates as well as in mammals. A comparative approach is inevitable towards our understanding of neural circuit maturation, as the roles of activity and genetic programs appear to be weighted differentially in different types of neurons, in different brain areas, and especially in different species. On the other hand, intrinsic and extrinsic signalling pathways involve molecules with highly conserved structure, which is paralleled by conserved roles in CNS development. Hence, the discovery of clear organizational roles for specific factors in different species might shed light on the evolution and the principles of neural circuit development. Richard Baines applies patch clamp recordings from identified neurons in the CNS of genetically modified *Drosophila* embryos to reveal the roles of activity and PKA for the development of motoneuron shape and excitability. Staying in the *Drosophila* embryo but moving down to the level of synapses, Andreas Prokop visualizes the three-dimensional synaptic compartmentalization of interneurons by combining targeted gene expression and transplantation of single cell clones. Jumping the taxa, Christian Lohmann employs two-photon microscopy to investigate the role of calcium signalling in developing hippocampal neurons, labelled by either ballistic calcium indicator application or single-cell electroporation, during synaptogenesis. Jan-Felix Evers and Carsten Duch also investigate the roles of activity and calcium for dendritic growth and synaptogenesis, but not during embryonic development but in the context of postembryonic neural circuit remodelling during the metamorphosis of the sphinx moth *Manduca sexta*. Here,

Symposium 24

Saturday, February 19, 2005,
15:00 - 18:00, Lecture Hall 105

Chair: Christian Lohr and Carsten Duch, Kaiserslautern and Berlin

15:00 *Richard A. Baines, Coventry (UK)*
Regulation of neuronal excitability through Pumilio-dependent control of a sodium channel gene

15:25 *Andreas Prokop, Mainz*
Compartmentalization of central neurons in Drosophila studied by a new transplantation-based mosaic analysis strategy

15:50 *Christian Lohmann, Martinsried*
Role of calcium signaling in dendrite development during synaptogenesis

16:15 **Coffee Break**

16:45 *Jan-Felix Evers and Carsten Duch, Berlin*
The role of activity for postembryonic synapse acquisition and dendritic growth during Manduca metamorphosis

17:10 *Stefan Löhrke and Eckhard Friauf, Kaiserslautern*
Mechanisms of the development of inhibition in the auditory brainstem

17:35 *Christian Lohr, Kaiserslautern*
Two-photon microscopy reveals requirement of calcium signalling for glial cell migration during the development of the Manduca olfactory system

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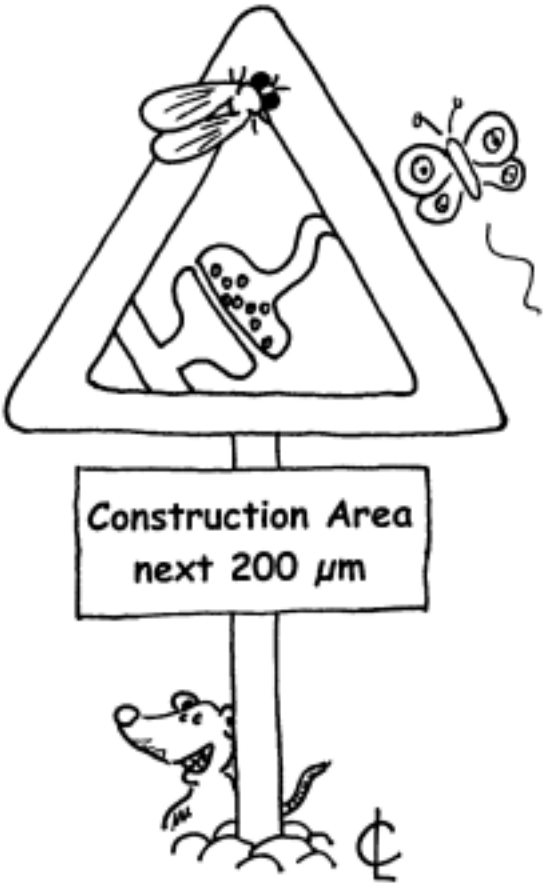
morphological changes of dendrites and dendritic filopodia are quantified by semi-automated three-dimensional image analysis of high resolution confocal data. The last two talks move from the single neuron to the circuit level. Stefan Löhrke and Eckhard Friauf investigate the switch from depolarizing to hyperpolarizing responses during the development of inhibitory synapses in rat auditory brainstem nuclei using perforated patch clamp analysis and voltage-sensitive dye-based multidiode array recordings. Christian Lohr uses two-photon calcium imaging as well as surgical and pharmacological in-vivo manipulation to reveal physiological mechanisms underlying glial cell migration, and the role of glial cell migration for the construction of synaptic neuropil in the antennal lobe of *Manduca sexta*.



Drawing by Christian Lohr

Poster Subject Areas - Symposia

S1 Threshold currents: modulators of neuronal excitability	1A
S2 Amyloid and neurodegeneration	2A - 5A
S3 Ion channels and transporters in the cochlea: from current to molecule to pathology	6A - 10A
S4 Pushing toward the limits of what insects can know: Case studies for comparative cognition	11A - 19A
S5 Signals in early neural development	20A - 23A
S6 Brain plasticity and cognition: cellular mechanisms and clinical perspectives	24A
S7 Extracellular matrix molecules in regeneration and synaptic plasticity	25A - 29A
S8 Efference copies and corollary discharge mechanisms in sensory and mental processing	30A - 31A
S9 Real time processing vs. variability of neural responses	32A - 35A
S10 Plasticity and task-dependence of auditory processing	36A - 38A
S11 The integrated role of glial cells in the CNS: new methodological approaches	39A - 45A
S12 Cellular and molecular control of vertebrate neurogenesis	46A - 51A
S14 Neuronal injury and infection	1B - 11B
S15 Nitric oxide / cyclic nucleotide signaling as regulator of developmental processes and cell motility in the nervous system	12B - 14B

S16 New vistas on insect vision	15B - 24B
S17 Genomic and proteomic expression profiling in neural repair	25B - 28B
S18 Brain-Computer-Interfaces (BCI): neuroprostheses for the paralyzed	29B - 33B
S19 Neural mechanisms of visual perception and learning in man and monkey	34B - 39B
S20 Amyotrophic Lateral Sclerosis (ALS) and Motoneuron Disease: From basic molecular and cellular mechanisms to novel clinical applications	40B - 43B
S21 What the nose tells the brain - News and views in olfactory coding	44B - 48B
S22 Function of the glial cell line derived neurotrophic factor family in development and disease	49B - 50B
S23 Possible mechanisms contributing to memory consolidation during sleep	51B - 54B
S24 Comparative insights into genetic and activity-dependent mechanisms of CNS development	55B
Sat1 The acoustics of emotions in non-human mammals and man	52A - 56A

Poster Subject Areas

PSA1 Mechanoreception and somatosensory systems	60A - 65A	60B - 64B
PSA2 Muscle, motor and sensorimotor systems	66A - 81A	65B - 80B
PSA3 Rhythmogenesis and motor pattern generation	82A - 87A	81B - 87B
PSA4 Audition, vibration and communication in invertebrates	88A - 95A	88B - 95B
PSA5 Audition and vocalization in lower vertebrates	96A	
PSA6 Audition and vocalization in birds and mammals: Periphery	97A - 99A	96B - 98B
PSA7 Audition and vocalization in birds and mammals: CNS and perception	100A-115A	99B-115B
PSA8 Lateral line systems; vestibular systems	116A-120A	116B-119B
PSA9 Chemosensory and thermosensory systems	121A-140A	120B-140B
PSA10 Visual systems of invertebrates: Periphery	141A-147A	141B-147B
PSA11 Visual systems of invertebrates: Central areas and perception	148A-155A	148B-155B
PSA12 Visual systems of vertebrates: Periphery	156A-173A	156B-172B
PSA13 Visual systems of vertebrates: Central areas and perception	174A-199A	173B-199B

PSA14 Visual systems of vertebrates: Development and regeneration	200A-205A	200B-204B
PSA15 Cortex and cerebellum	206A-213A	205B-213B
PSA16 Hippocampus and limbic system	214A-230A	214B-230B
PSA17 Learning and memory	231A-260A	231B-259B
PSA18 Neuroanatomical studies	261A-266A	260B-265B
PSA19 Neurohistochemical studies	267A-273A	266B-272B
PSA20 Neurochemistry	274A-276A	273B-276B
PSA21 Synapses and transmitters	277A-298A	277B-297B
PSA22 Neuropeptides and neuromodulation	299A-308A	298B-308B
PSA23 Ion channels and receptors	309A-326A	309B-326B
PSA24 Neuropharmacology and -toxicology	327A-339A	327B-338B
PSA25 Cell and tissue cultures	340A-348A	339B-347B
PSA26 Glia cells; Myelin	349A-355A	348B-355B
PSA27 Neuronal development	356A-378A	356B-377B
PSA28 Regeneration and plasticity	379A-395A	378B-394B
PSA29 Neurogenetics	396A-404A	395B-404B
PSA30 Neuropathology	405A-416A	405B-415B

PSA31 Neural-immune interactions	417A-420A	416B-419B
PSA32 Neuroendocrinology	421A-425A	420B-424B
PSA33 Neuropsychology and psychophysics	426A-442A	425B-442B
PSA34 Neuronal networks theory and modeling	443A-453A	443B-452B
PSA35 Methods and demonstrations	460A-471A	460B-470B

Saturday Night Disco Night

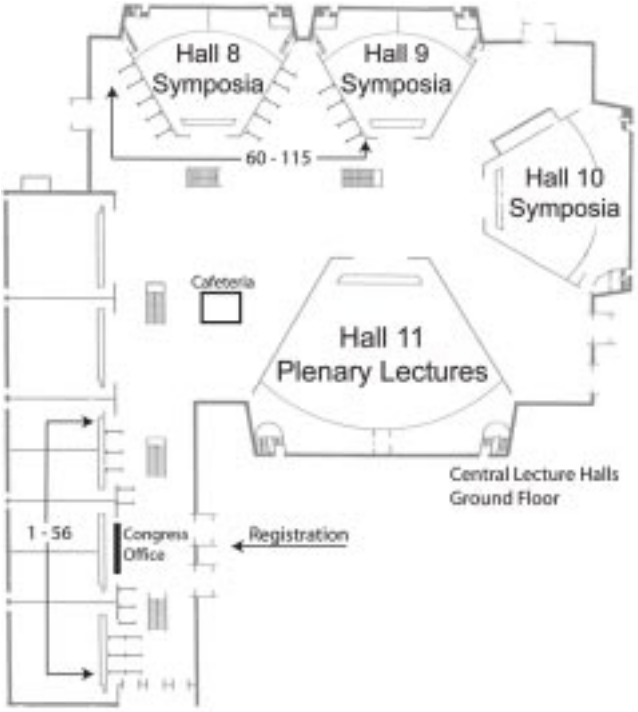
On Saturday, February 19, starting 9.00 p.m. the

Göttingen n.-Party

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

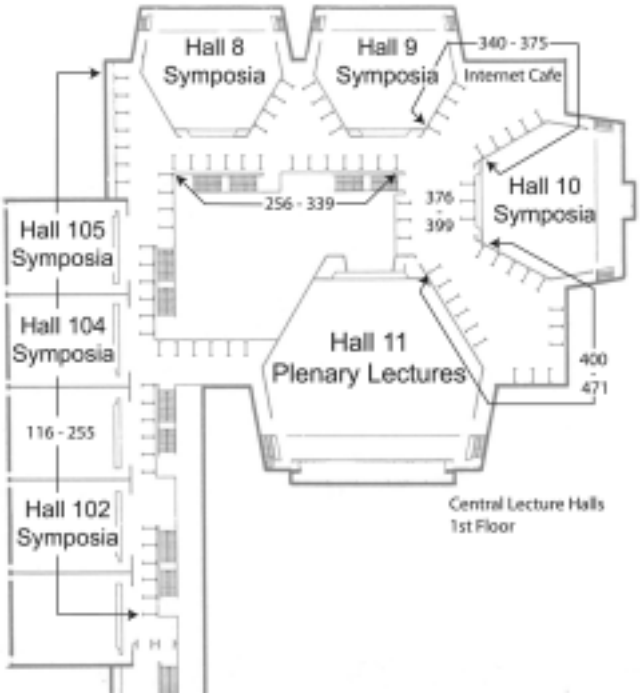
Everyone is cordially invited. Participants of the meeting have free access. External guests are welcome (fee 3,-- €). Drinks are available at moderate prices.

Floor Plan Posters
Groundfloor



Posters 1 - 115

Floor Plan Posters
1st Floor



Posters 116 - 471

S1: Threshold currents: modulators of neuronal excitability

1A DYNAMIC RESPONSE PROPERTIES OF TYPE-I EXCITABLE MEMBRANES
T. Geisel, B. Naundorf and F. Wolf, Göttingen

S2: Amyloid and Neurodegeneration

2A BEHAVIOURAL AND ENDOCRINE ALTERATIONS IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE: EARLY INDICATORS OF NEUROPATHOLOGICAL CHANGES?
C. Touma, O. Ambrée, N. Görtz, K. Keyvani, R. Palme, W. Paulus and N. Sachser, Munich, Muenster and Vienna (A)

3A DIMERIZATION OF THE MICROTUBULIN ASSOCIATED PROTEIN TAU INDUCED BY INFLAMMATORY MEDIATOR S.P. *Gorlovoi, M. Stagi, I. Bartoszek and H. Neumann, Göttingen*

4A SIMVASTATIN AFFECTS OLIGODENDROGLIAL PROCESS FORMATION
S. Klopfleisch, M. Schmitz, S. Klöppner and HH. Althaus, Göttingen

5A INDUCTION OF BRAIN-DERIVED NEUROTROPHIC FACTOR (BDNF) IN PLAQUE-ASSOCIATED GLIAL CELLS OF AGED APP23 TRANSGENIC MICE
GJ. Burbach, R. Hellweg, CA. Haas, D. Del Turco, U. Deicke, D. Abramowski, M. Jucker, M. Staufenbiel and T. Deller, Frankfurt, Berlin, Freiburg, Basel (CH) and Tübingen

S3: Ion channels and transporters in the cochlea: from current to molecule to pathology

6A SK2 IN THE COCHLEA
C. Braig, H. Winter, M. Knirsch, U. Zimmermann, K. Rohbock, I. Köpschall, J. Engel and M. Knipper, Tuebingen

7A CA2+ SIGNALS IN THE STEREOCILIA OF OUTER HAIR CELLS
C. Harasztosi, B. Müller, T. Kaneko and AW. Gummer, Tuebingen

8A STIFFNESS CHANGES OF COCHLEAR HAIR BUNDLES INDUCED BY ATP
K. Löffler, S. Fink, F. Grauvogel, A. Koitschev and M. Langer, Ulm and Tübingen

9A PRESTIN - YEAST-BASED SCREENING FOR PUTATIVE INTERACTION PARTNERS
J. Cimerman, H-S. Geissler, U. Zimmermann, C. Braig, H. Winter and M. Knipper, Tuebingen

10A ALTERATION OF BEHAVIOR AND RESPONSES OF AUDITORY NEURONS AFTER APPLICATION OF SALICYLATE IN AN ANIMAL MODEL FOR TINNITUS
L. Rüttiger, SB. Kilian and M. Knipper, Tübingen

S4: Pushing toward the limits of what insects can know: Case studies for comparative cognition

11A OLFACTORY ORIENTATION IN DESERT ANTS: STRATEGIES AND USE IN FORAGING NAVIGATION
H. Wolf and R. Wehner, Ulm and Zurich (CH)

12A CELLULAR CHARACTERISTICS OF THE NERVOUS SYSTEM, AND A NEW VIEW ON ARTHOPOD EVOLUTION
H. Wolf, CHG. Müller and S. Harzsch, Ulm and Rostock

13A POSSIBLE ROLES OF HEAD AND GASTER IN 3-DIMENSIONAL PATH INTEGRATION IN THE DESERT ANT
M. Wittlinger, H. Wolf and R. Wehner, Ulm and Zurich (CH)

14A A STUDY ON COLOR CATEGORIZATION IN HONEYBEES
J. Benard, A. Avargues, G. Portelli and M. Giurfa, Toulouse (F)

15A STIMULUS INTERACTIONS IN SINGLE AND MULTI TRIAL CONDITIONING OF BINARY ODOUR MIXTURES IN HONEYBEES, APIS MELLIFERA
M. Schubert, JC. Sandoz and M. Giurfa, Toulouse (F)

16A THE INFLUENCE OF TRAINING LENGTH ON VISUAL CATEGORIZATION IN HONEYBEES
M. Giurfa and S. Stach, Toulouse (F) and Berlin

17A A NEW AVERSIVE CONDITIONING PARADIGM IN HONEYBEES: DIFFERENT CONTRIBUTIONS OF D1 AND D2 DOPAMINERGIC RECEPTORS TO OLFACTORY CONDITIONING OF THE STING EXTENSION REFLEX
V. Vergoz, JC. Sandoz and M. Giurfa, Toulouse (F)

18A OPTICAL IMAGING OF ODOUR-EVOKED NITRIC OXIDE SIGNALS IN THE ANTENNAL LOBE OF THE HONEY BEE, APIS MELLIFERA.
I. Massou, C. Leclerc, M. Moreau, M. Giurfa and J-C. Sandoz, Toulouse (F)

19A OLFACTORY MIXTURE PROCESSING IN THE HONEY BEE: AN OPTICAL IMAGING STUDY
N. Deisig, J-C. Sandoz and M. Giurfa, Toulouse (F)

S5: Signals in early neural development

20A RETINOIC ACID-DEPENDENT REGULATION OF BMP4 AND TBX5 IN CHICK RETINAL DEVELOPMENT
S. Golz and J. Mey, Aachen

21A THE ROLE OF XMXI1 IN PRIMARY NEUROGENESIS IN XENOPUS LAEVIS
TJ. Klisch, K. Jürgens, J. Souopgui, T. Pieler and KA. Henningfeld, Göttingen

22A ISOLATION AND CHARACTERIZATION OF XENOPUS SOX1
B. Rust, T. Pieler and K. Henningfeld, Göttingen

23A RESPONSE OF CORTICAL AXONS TO SEMAPHORIN GRADIENTS
T. Ruediger, D. Bagnard and J. Bolz, Jena and Strasbourg (F)

S6: Brain plasticity and cognition: cellular mechanisms and clinical perspectives

24A NEUROGENESIS AND LONG-TERM POTENTIATION IN THE HIPPOCAMPUS OF TWO TAU TRANSGENIC MOUSE MODEL ARE NOT RELATED
K. Boekhoorn, R. Lasrado, P. Borghgraef, D. Terwel, O. Wiegert, M. Joels, H. Krugers, F. Van Leuven and PJ. Lucassen, Amsterdam (NL) and Leuven (B)

S7: Extracellular matrix molecules in regeneration and synaptic plasticity

25A INTERACTIONS OF RETINAL GANGLION CELL AXONS WITH ORIENTED ELECTROSPUN FIBRES IN VITRO
J. Kern, T. Kuenzel, PD. Dalton, H. Luksch and J. Mey, Aachen

26A IDENTIFICATION AND CLASSIFICATION OF A NOVEL GENE FAMILY IN HUMANS AND OTHER VERTEBRATES HOMOLOGOUS TO PRG-1
AU. Bräuer, R. Nitsch and NE. Savaskan, Berlin and Amsterdam (NL)

27A THE REGULATION OF THE EXTRACELLULAR MATRIX MOLECULE NEUROCAN IN THE RAT HIPPOCAMPUS IS ACTIVITY-DEPENDENT
SW. Schwarzacher, M. Vuksic, CA. Haas, G. Burbach, RS. Sloviter and T. Deller, Frankfurt, Zagreb (Croatia), Freiburg and Tucson (USA)

28A BREVICAN-CONTAINING PERINEURONAL NETS OF EXTRACELLULAR MATRIX DEVELOP IN DISSOCIATED HIPPOCAMPAL PRIMARY CULTURES.
N. John, K-H. Smalla, MR. Kreutz, ED. Gundelfinger and CI. Seidenbecher, Magdeburg

29A DISTRIBUTION AND FUNCTIONS OF EXTRACELLULAR MATRIX PROTEIN MATRILIN-2 IN THE NERVOUS SYSTEM OF MICE
D. Malin, A. Dityatev, G. Dityateva, A. Aszódi, R. Wagener and D. Riethmacher, Hamburg, Martinsried and Cologne

S8: Efference Copies and Corollary Discharge Mechanisms in Sensory and Mental Processing

30A ANALYSIS OF INTERNEURONS IN THE ELL OF GNATHONEMUS PETERII USING NEUROPHARMACOLOGY, IMMUNOHISTOCHEMISTRY AND MODELLING
JP. Engelmann, Y. Sugawara, E. van den Burg, J. Bacelo and K. Grant, Gif sur Yvette (F) and Tokyo (J)

31A PRESYNAPTIC INHIBITION OF CRICKET AUDITORY AFFERENT NEURONS
JFA. Poulet, Cambridge (UK)

S9: Real time processing vs. variability of neural responses

32A FREQUENCY DEPENDENCE OF SPIKE TIMING RELIABILITY: LESSONS FROM CONDUCTANCE-BASED MODELING
S. Schreiber, I. Samengo and AVM. Herz, Berlin and San Carlos de Bariloche Rio Negro (RA)

33A DO ACTION POTENTIAL WAVEFORMS CONVEY INFORMATION ABOUT THE STIMULUS?
GG. de Polavieja, A. Harsch, I. Kleppe, R. Robinson and M. Juusola, Madrid (E) and Cambridge (UK)

34A PULSE-DETECTION IN SINGLE NEURONS AND NEURAL POPULATIONS IN A COLORED NOISE SETTING
G. Wenning, T. Hoch, P. Kallerhoff and K. Obermayer, Berlin

35A STATISTICAL PROPERTIES OF NON-STATIONARY SPIKE TRAINS
S. Rotter, Freiburg

S10: Plasticity and Task-Dependence of Auditory Processing

36A A COMPUTATIONAL MODEL OF THE DEVELOPMENT OF TINNITUS-RELATED HYPERACTIVITY IN THE EARLY AUDITORY PATHWAY
R. Schaette and R. Kempter, Berlin

37A THE KEY TO ACCURATE TIMING RESIDES IN THE SIGNAL DESIGN USED BY ECHOLOCATING BATS
A. Boonman, Tübingen

38A NEURONAVIGATED REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION IN PATIENTS WITH TINNITUS
P. Eichhammer, B. Langguth, J. Marienhagen, T. Kleinjung and G. Hajak, Regensburg

S11: The integrated role of glial cells in the CNS: new methodological approaches

39A FUNCTIONAL CONSEQUENCES OF LOSS OF CONNEXIN43 AND CONNEXIN30 IN ASTROCYTES
A. Wallraff, R. Köhling, G. Söhl, K. Willecke and C. Steinhäuser, Bonn

40A THE MECHANISM OF IL-8-LIKE CHEMOKINE (GRO/CINC-1) RELEASE FROM RAT ASTROCYTES MEDIATED BY PROTEASE-ACTIVATED RECEPTOR-1
Y. Wang, W. Luo, R. Stricker and G. Reiser, Magdeburg

41A CHOLESTEROL HOMEOSTASIS IN NEURONS AND GLIAL CELLS
K. Nieweg, C. Göritz and FW. Pfrieger, Strasbourg (F)

42A GLIAL INFLUENCE ON SYNAPSE DEVELOPMENT IN DIFFERENT BRAIN REGIONS
CC. Steinmetz, I. Buard, T. Claudepierre, K. Naegler and FW. Pfrieger, Strasbourg (F)

43A MORPHOLOGICAL ANALYSIS OF NEURON-GLIA INTERACTION IN TRANSGENIC MICE WITH CELL-TYPE SPECIFIC EXPRESSION OF FLUORESCENT PROTEINS
J. Hirrlinger, C. Braun, PG. Pawlowski, S. Hülsmann and F. Kirchhoff, Göttingen

44A TRANSGENIC EXPRESSION OF FLUORESCENT PROTEINS DERIVED FROM JELLYFISH OR REEF CORALS IN THE MOUSE NERVOUS SYSTEM – A COMPARATIVE ANALYSIS
PG. Pawlowski, A. Schuchardt, C. Braun, J. Hirrlinger and F. Kirchhoff, Göttingen

45A CHARACTERIZATION OF TRANSGENIC MICE WITH EXPRESSION OF THE RED FLUORESCENT PROTEIN MRFP UNDER THE HUMAN GFAP PROMOTER
A. Schuchardt, PG. Pawlowski and F. Kirchhoff, Göttingen

S12: Cellular and molecular control of vertebrate neurogenesis

46A REGULATION AND FUNCTION OF MIRNA IN NEURAL CELL SPECIFICATION
FG. Wulczyn, L. Smirnova, A. Graefe and R. Nitsch, Berlin

47A A LARGE-SCALE ENHANCER DETECTION SCREEN FOR GENES INVOLVED IN VERTEBRATE RETINAL DEVELOPMENT
MA. Laplante, AZ. Komisarczuk, H. Kikuta, J. Ghislain, S. Ellingsen, P. Mourrain, B. Adolf, G. Pezeron, A. Lesslauer and TS. Becker, Bergen (N), Paris (F), Neuherberg and Zuerich (CH)

48A THE 5-HT RECEPTORS ARE INVOLVED IN REGULATION OF GENE TRANSCRIPTION AND NEURONAL MORPHOLOGY BY ACTIVATING THE NEW SIGNALING PATHWAYS
EG. Ponimaskin, L. Kvachnina, G. Liu, A. Dityatev, M. Schachner, DW. Richter and T. Voyno-Yasenetskaya, Göttingen, Chicago (USA) and Hamburg

49A CHOLINESTERASES AND DEVELOPMENT OF THE AVIAN PINEAL GLAND
KV. Allebrandt and PG. Layer, Darmstadt

50A ROLE OF NOVEL TRANSCRIPTION FACTOR STIX IN THE DEVELOPMENT OF CEREBRAL CORTEX
O. Britanova, S. Akopov, S. Lukyanov, P. Gruss and V. Tarabykin, Göttingen and Moscow (RUS)

51A THE ROLE OF THE HOMEODOMAIN TRANSCRIPTION FACTORS MEIS1 AND MEIS2 DURING EARLY DEVELOPMENT OF THE VERTEBRATE RETINA
P. Heine, KM. Bumsted o´Brien and D. Schulte, Frankfurt/Main

Sat1: The acoustics of emotions in non-human mammals and man

52A THE EFFECT OF AROUSAL ON A SOCIAL CALL OF A NOCTURNAL PRIMATE (MICROCEBUS MURINUS)
M. Dietz and E. Zimmermann, Hannover

53A COMBINED PERCEPTION OF EMOTION FROM PICTURES AND MUSICAL SOUNDS
KN. Goydke, TP. Urbach, M. Kutas, E. Altenmüller and TF. Münte, Hannover, La Jolla, CA (USA) and Magdeburg

54A PSYCHOLOGICAL AND PHYSIOLOGICAL CORRELATES OF STRONG EMOTIONS IN MUSIC
O. Grewe, F. Nagel, E. Altenmüller and R. Kopiez, Hannover

55A VOCALIZATION AS AN EMOTIONAL INDICATOR – NEUROANATOMICAL TRACING OF VOCALIZATION-RELATED AFFERENTS TO THE MIDBRAIN PERIAQUEDUCTAL GREY IN SQUIRREL MONKEYS (SAIMIRI SCIUREUS)
E. Dujardin and U. Jürgens, Göttingen

56A THE ENCODING OF EMOTION IN HUMAN LAUGHTER
D. Zaum and K. Alter, Leipzig and Newcastle (UK)

PSA1: Mechanoreception and somatosensory systems

60A ACTIVITY DRIVEN EMERGENCE OF TEXTURE REPRESENTATION IN THE VIBRISSA SYSTEM
J. Hipp, W. Einhäuser and P. König, Zurich (CH) and Osnabrück

61A RESPONSES OF GOLDFISH ANTERIOR LATERAL LINE AFFERENTS TO A VIBRATING SPHERE STIMULUS IN STILL AND RUNNING WATER
B. Chagnaud and H. Bleckmann, Bonn

62A TACTILE 2-POINT DISCRIMINATION AND LOCALIZATION ARE DIFFERENTIALLY AFFECTED BY SYNCHRONOUS AND ASYNCHRONOUS COACTIVATION
HR. Dinse, D. Kraß, R. Maachaoui, I. van der Berg and P. Ragert, Bochum

63A SPONTANEOUS ACTIVITY AND ADAPTATION MECHANISMS OF TRICHOBOTHRIA IN THE BUG PYRRHOCORIS APTERUS
A. Skorjanc and K. Draslar, Ljubljana (SLO)

64A AGE-RELATED LOSS OF DOMINANT HAND SUPERIORITY IN FINE MOTOR PERFORMANCE
T. Kalisch, N. Kleibel, M. Tegenthoff and HR. Dinse, Bochum

65A IMPROVEMENT OF RIGHT HAND HAPTIC SKILLS FOLLOWING 3 HOURS OF TACTILE COACTIVATION OF ALL FINGERS
T. Kalisch, M. Tegenthoff and HR. Dinse, Bochum

PSA2: Muscle, motor and sensorimotor systems

66A CYCLIC CONTROL OF BREATHING DURING STEADY-STATE MUSCLE PERFORMANCE IN FLYING DROSOPHILA
F-O. Lehmann, Ulm

67A NITRIC OXIDE IN A WIND-SENSITIVE SENSORY SYSTEM OF THE LOCUST: POSSIBLE ROLE IN GAIN CONTROL
D. Münch, H-J. Pflüger and SR. Ott, Berlin and Brighton (UK)

68A CONTRACTION DYNAMICS OF THE STICK INSECT EXTENSOR TIBIAE MUSCLE
C. Guschlbauer, H. Scharstein and A. Büschges, Cologne

69A PRE-ADAPTATIONS FOR THE EVOLUTION OF JUMPING LEGS? JOINT MECHANICS AND MUSCLE ACTIVITY IN THE MIDDLE LEG OF A PROSCOPIID GRASSHOPPER
K. Dotzauer and H. Wolf, Ulm

70A UNUSUAL TENSION RECEPTORS IN AN INSECT AND HOW THEY COMPARE TO THE GOLGI TENDON ORGAN OF MAMMALS.
M. Wanischeck and U. Rose, Ulm

71A EFFECTS OF CHANGES IN PH ON MUSCLE SPINDLE ACTIVITY
M. Fischer and SS. Schäfer, Hannover

72A FREE FLIGHT ENERGETICS IN THE FRUIT FLY DROSOPHILA MELANOGASTER
M. Mronz and F-O. Lehmann, Ulm

73A TEMPORAL DYNAMICS OF FACILITATION AT A CRUSTACEAN NEUROMUSCULAR JUNCTION
M. Nickmann, CR. Smarandache and W. Stein, Ulm

74A A NEW APPROACH FOR ELECTROPHYSIOLOGICAL LONG-TERM EXPERIMENTS IN DESERT SCORPIONS
AE-D. Sallam, ER. Horn and M. Schmäh, Ismailia (ET) and Ulm

75A NEUROPHYSIOLOGICAL LONG-TERM STUDIES IN SPACE: SCORPI-T AND SCORPI
M. Schmäh and ER. Horn, Ulm

76A MOTOR SCHEMAS DURING TRAJECTORY FORMATION
AG. Fleischer, Hamburg

77A THE CORTICAL INTERACTION OF ATTENTION AND INTENTION
CS. Konen, R. Kleiser, F. Bremmer and RJ. Seitz, Marburg and Düsseldorf

78A I KNOW WHERE YOU´LL LOOK: AN FMRI STUDY OF OCULOMOTOR INTENTION AND A CHANGE OF MOTOR PLAN
R. Kleiser, CS. Konen, RJ. Seitz and F. Bremmer, Düsseldorf and Marburg

79A LEARNING VISUAL AND MECHANICAL DISCORDANCES: EFFECTS OF COMPOSITION AND DECOMPOSITION
K. Pipereit and O. Bock, Cologne

80A LEARNING A NONLINEAR VISUOMOTOR ROTATION: GENERALIZATION OF LEARNING AND EFFECTS ON KINEMATIC PARAMETERS
D. Musella and S. Cardoso de Oliveira, Göttingen

81A ADULT SCHWANN CELLS OVER-EXPRESSING DIFFERENT ISOFORMS OF FIBROBLAST GROWTH FACTOR-2 (FGF-2) – IN VITRO STUDIES CONCERNING THERAPEUTIC STRATEGIES IN PERIPHERAL NERVE REPAIR
K. Haastert, C. Mauritz, C. Matthies and C. Grothe, Hannover

PSA3: Rhythmogenesis and motor pattern generation

82A CHARACTERIZATION OF A SENSORY INPUT THAT ENTRAINS A CENTRAL PATTERN GENERATOR IN THE STOMATOGASTRIC NERVOUS SYSTEM OF THE CRAB
W. Stein and CR. Smarandache, Ulm

83A NITRIC OXIDE INDIRECTLY CONTROLS THE CENTRAL PATTERN GENERATORS IN THE STOMATOGASTRIC NERVOUS SYSTEM OF THE CRAB
UBS. Hedrich, C. Eberle and W. Stein, Ulm

84A THE ELECTRICAL PROPERTIES OF EXCITATORY INTERNEURONS IN A CENTRAL PATTERN GENERATOR
W-C. Li, SR. Soffe and A. Roberts, Bristol (UK)

85A A SMALL SET OF PRINCIPAL COMPONENTS CAN EFFICIENTLY DESCRIBE HUMAN ARM MOVEMENT
T. Bockemühl, V. Dürr and NF. Troje, Bielefeld and Ontario (CDN)

86A GENERATION OF FIN MOTONEURON ACTIVITY DURING NMDA-INDUCED FICTIVE SWIMMING IN THE ISOLATED LAMPREY SPINAL CORD
T. Mentel, A. Krause and A. Büschges, Cologne

87A SYNAPTIC DRIVE TO LEG MOTONEURONS DURING WALKING MOVEMENTS OF THE STICK INSECT
JP. Gabriel and J. Schmidt, Cologne

PSA4: Audition, vibration and communication in invertebrates

88A THE INTRINSIC CALLING RATE AS THE MAJOR DETERMINANT FOR THE LEADER ROLE IN A SYNCHRONOUS INTERACTION BETWEEN MALES OF THE BUSHCRICKET MECOPODA ELONGATA
M. Hartbauer, S. Kratzer, K. Steiner and H. Römer, Graz (A)

89A SPATIAL ORIENTATION IN A BUSHCRICKET (LEPTOPHYES PUNCTATISSIMA): I. PHONOTAXIS ON A WALKING COMPENSATOR AT DIFFERENT STIMULUS ELEVATIONS
E. Ofner, H. Römer and J. Rheinlaender, Graz (A)

90A SPATIAL ORIENTATION IN A BUSHCRICKET (LEPTOPHYES PUNCTATISSIMA): II. CORRELATED BINAURAL NEURONAL ACTIVITY
K. Kostarakos, J. Rheinlaender and H. Römer, Graz (A)

91A FEMALE CHOICE FOR LEADERS IN SYNCHRONOUS SONG INTERACTIONS OF A BUSHCRICKET (MECOPODA ELONGATA): WHY SHOULD FOLLOWERS CALL AT ALL?
I. Fertschai, J. Stradner and H. Römer, Graz (A)

92A CARRIER FREQUENCY DISCRIMINATION IN THE PARASITOID FLY HOMOTRIXA ALLENI.
A. Stumpner and R. Lakes-Harlan, Göttingen and Gießen

93A AUDITORY PATTERN RECOGNITION GATES STEERING RESPONSES IN CRICKET PHONOTAXIS
B. Hedwig and JFA. Poulet, Cambridge (UK)

94A ACETYLCHOLINE IS A TRANSMITTER CANDIDATE IN SENSORY NEURONS OF THE BUSHCRICKET EAR (MECOPODA ELONGATA)
M. Weber, M. Kössl, W. Volknandt and E-A. Seyfarth, Frankfurt/Main

95A IDENTIFICATION OF MECHANOSENSORY TRANSDUCTION MECHANISMS IN THE LOCUST AUDITORY SYSTEM
A. Wolf, T. Gollisch, J. Benda and AVM. Herz, Berlin

PSA5: Audition and vocalization in lower vertebrates

96A ANATOMICAL AND PHYSIOLOGICAL CHARACTERIZATION OF AUDITORY NEURONS IN THE MEDULLA OBLONGATA OF THE CHINESE FIRE BELLUIED TOA
L. Dittrich and W. Walkowiak, Cologne

PSA6: Audition and vocalization in birds and mammals: Periphery

97A INFLUENCE OF THE FACIAL RUFF ON THE DIRECTIONALITY OF THE BARN OWLS EARS
M. v. Campenhausen and H. Wagner, Aachen

98A OUTER HAIR CELL INDUCED MOTION OF THE ORGAN OF CORTI: MECHANISMS OF ACTIVE AMPLIFICATION
M. Nowotny and AW. Gummer, Tübingen

99A CHARACTERIZATION AND LOCALIZATION OF RATE-INTENSITY FUNCTIONS IN THE INFERIOR COLLICULUS OF THE MOUSE
AA. Keller and G. Ehret, Ulm

PSA7: Audition and vocalization in birds and mammals: CNS and perception

100A TEMPORAL INTEGRATION AND HEARING LOSS
P. Heil and H. Neubauer, Magdeburg

101A INFLUENCE OF THE GAP DURATION ON THE PERCEPTION OF MOUSE PUP CALLS
SC. Gaub and G. Ehret, Ulm

102A SENSORY-MOTOR INTERACTION AT THE PONTINE BRAINSTEM LEVEL DURING VOCALIZATION: A TELEMETRIC SINGLE-UNIT RECORDING STUDY IN FREELY MOVING MONKEYS
SR. Hage and U. Jürgens, Ulm and Göttingen

103A TEMPORAL PROCESSING OF MODULATED ACOUSTIC STIMULI IN GERBIL PRIMARY AUDITORY CORTEX
D. Isheim, B. Gaese and M. Kössl, Frankfurt/Main

104A FREQUENCY INTEGRATION IN THE AUDITORY ARCOPALLIUM OF THE BARN OWL (TYTO ALBA)
K. Vonderschen and H. Wagner, Aachen

105A ADULT PLASTICITY OF INTERAURAL TIME DIFFERENCE PROCESSING IS REGULATED BY GLYCINERGIC INHIBITION
i.Kollmar, P. Tripathi and B. Grothe, Munich, Neuherberg and Martinsried

106A EVIDENCE FOR PRECEDING INHIBITION IN LOW-FREQUENCY E/E SINGLE CELLS IN THE GERBIL AUDITORY BRAINSTEM
M. Pecka and B. Grothe, Martinsried and Munich

107A FREQUENCY ORGANIZATION OF THE MEDIAL GENICULATE BODY IN THE MONGOLIAN GERBIL
P. Bäuerle and M. Kössl, Frankfurt/Main

108A BARN OWLS DO NOT DEPEND ON HIGH FREQUENCY AUDITORY SIGNALS TO APPROACH A DISTANT TARGET.
P. Bremen, M. Singheiser, DTT. Plachta, RF. van der Willigen and H. Wagner, Aachen

109A SIMULTANEOUS LOCALIZATION OF MULTIPLE SOUND SOURCES
SC. Schmid-Fetzer and J. Ostwald, Tübingen

110A ORGANIZATION OF THE AUDITORY CORTICOFUGAL SYSTEM IN THE MONGOLIAN GERBIL
E. Budinger and H. Scheich, Magdeburg

111A BASIC PROPERTIES OF AUDITORY CORTEX AND PROCESSING OF STIMULUS ROUGHNESS IN THE BAT PHYLLOSTOMUS DISCOLOR
U. Firzlaff, B. Schwellnus, L. Wiegrebe and G. Schuller, Planegg-Martinsried

112A TOPOGRAPHIC ORGANIZATION OF THE AUDITORY CORTEX OF THE BAT MOLOSSUS MOLOSSUS
E. Foeller, E. Mora and M. Kössl, Frankfurt and Havana (C)

113A DEVELOPMENT-DEPENDENT EFFECTS IN THE AUDITORY FIELD-L COMPLEX OF THE ZEBRA FINCH BRAIN
G. Schebesch and H-J. Leppelsack, München and Garching

114A PSYCHOMETRIC FUNCTIONS FOR THE DETECTION OF GAPS IN BROAD-BAND NOISE: THE EFFECT OF AGE.
O. Gleich, I. Hamann, MC. Kittel, GM. Klump and J. Strutz, Regensburg and Oldenburg

115A INHIBITORY AND EXCITATORY RESPONSE AREAS OF NEURONS IN THE INFERIOR COLLICULUS IN AWAKE CHINCHILLAS
AA. Alkhatib, D. Biedenkapp, UW. Biebel and JWT. Smolders, Frankfurt/Main

PSA8: Lateral line systems; Vestibular systems

116A EFFECTS OF RUNNING WATER ON THE DETECTION OF DIPOLE STIMULI BY GOLDFISH, CARASSIUS AURATUS
I. Nauroth and J. Mogdans, Bonn

117A IN VIVO WHOLE-CELL RECORDINGS FROM BRAINSTEM LATERAL LINE NEURONS IN GOLDFISH, CARASSIUS AURATUS
S. Fest, J. Engelmann, H. Bleckmann and J. Mogdans, Bonn

118A RESPONSES TO MOVING OBJECTS OF PRIMARY AFFERENT FIBERS IN THE ANTERIOR LATERAL LINE NERV OF GOLDFISH, CARASSIUS AURATUS
S. Geisen and J. Mogdans, Bonn

119A CHIRPING IN THE WEAKLY ELECTRIC FISH APTERONOTUS LEPTORHYNCHUS: SIGNIFICANCE OF CONSPECIFIC'S DISTANCE, ANGULAR ORIENTATION, AND CHIRPS
LA. Hurst, D. Meissner, RF. Sirbulescu and GKH. Zupanc, Bremen

120A HYDRODYNAMIC ANALYSIS OF THE FISH CANAL LATERAL LINE
J. Goulet and JL. van Hemmen, Garching

PSA9: Chemosensory and thermosensory systems

121A ODORANT RECEPTOR EXPRESSING CELLS IN THE VOMERONASAL ORGAN
T. Feistel, O. Levai, J. Strotmann and H. Breer, Stuttgart

122A OLFACTORY RECEPTOR GENES WITH CLUSTERED EXPRESSION PATTERN: GENOMIC ORGANIZATION, PROMOTOR ELEMENTS AND INTERACTING TRANSCRIPTION FACTORS
R. Hoppe, Y. Zhang, H. Breer and J. Strotmann, Stuttgart

123A BOMBYKOL-RESPONSIVE RECEPTOR OF THE SILKMOTH BOMBYX MORI
E. Grosse-Wilde, T. Gohl, H. Breer and J. Krieger, Stuttgart

124A CANDIDATE PHEROMONE RECEPTORS OF THE MOTH HELIOTHIS VIRESCENS
J. Krieger, E. Grosse-Wilde, T. Gohl, YME. Dewer, K. Raming and H. Breer, Stuttgart and Monheim

125A EVOLUTION OF THE "OR37" SUBFAMILY OF OLFACTORY RECEPTORS: A CROSS-SPECIES COMPARISON
T. Lambert, R. Hoppe, C. Rausch, J. Strotmann and H. Breer, Stuttgart and Tübingen

126A ANTIBODIES RECOGNIZING OLFACTORY RECEPTOR SUBTYPES
J. Strotmann, O. Levai, J. Fleischer, K. Schwarzenbacher and H. Breer, Stuttgart

127A ORGANIZATION OF THE SEPTAL ORGAN: OLFACTORY RECEPTOR EXPRESSION AND NERVE FIBER PROJECTION
O. Levai, JF. Kaluza, F. Gussing, S. Bohm, H. Breer and J. Strotmann, Stuttgart and Umeå (S)

128A SENSING GENETIC INDIVIDUALITY: DETECTION OF MHC-RELATED ODOR SIGNALS BY THE MOUSE MAIN OLFACTORY SYSTEM
M. Spehr, KR. Kelliher, T. Boehm, T. Leinders-Zufall and F. Zufall, Baltimore (USA) and Freiburg

129A CALCIUM-ACTIVATED CHANNELS IN MAMMALIAN VOMERONASAL NEURONS
J. Spehr, K. Ukhanov, F. Zufall and T. Leinders-Zufall, Baltimore (USA)

130A PRESYNAPTIC INHIBITORY MODULATION BY METABOTROPIC GLUTAMATE RECEPTORS IN OLFACTORY BULB GLOMERULI
T. Heinbockel and M. Ennis, Baltimore, MD (USA) and Memphis, TN (USA)

131A BEHAVIORAL RESPONSES OF DROSOPHILA MELANOGASTER TO CARBON DIOXIDE
C. Faucher and M. de Bruyne, Berlin

132A PROCESSING OF ODOR IDENTITY AND CONCENTRATION IN THREE NEURAL POPULATIONS OF THE ANTENNAL LOBE OF DROSOPHILA
AF. Silbering, R. Okada, K. Ito and CG. Galizia, Berlin, Tokyo (J) and Riverside, CA (USA)

133A TRANSMISSION OF OLFACTORY INFORMATION FROM LOWER TO HIGHER BRAIN STRUCTURES IN THE BRAIN OF THE HONEY BEE
P. Szyszka, M. Ditzen, A. Galkin, CG. Galizia and R. Menzel, Berlin and Riverside, CA (USA)

134A IMAGING ODOR LEARNING IN THE MUSHROOM BODY OF THE HONEY BEE
P. Szyszka, A. Galkin, CG. Galizia and R. Menzel, Berlin and Riverside, CA (USA)

135A MULTI-COMPARTMENT MODEL OF KENYON CELLS
A.Galkin, P. Szyszka, J. Rybak and R. Menzel, Berlin

136A ROLE OF ODORANT RECEPTOR HETERODIMERIZATION IN THE OLFACTORY SYSTEM OF DROSOPHILA
R. Dooley, G. Gisselmann, W. Zhang, K. Störtkuhl, H. Hatt and EM. Neuhaus, Bochum

137A INVESTIGATION OF ODORANT-INDUCED OLFACTORY RECEPTOR DESENSITIZATION
A.Mashukova, W. Zhang, H. Hatt and EM. Neuhaus, Bochum

138A VOLTAGE-ACTIVATED CALCIUM-CURRENTS OF INSECT OLFACTORY INTERNEURONS RECORDED IN VITRO AND IN SITU
A. Husch, H. Demmer, I. Lauinger, H. Wratil and P. Kloppenburg, Köln

139A CALCIUM BUFFERING IN INSECT OLFACTORY INTERNEURONS
A. Pippow, A. Husch, H. Wratil and P. Kloppenburg, Köln

140A MODULATION OF INSECT OLFACTORY INTERNEURONS BY BIOGENIC AMINES
N. Lindemann, P. Hafner, C. Pouzat and P. Kloppenburg, Köln and Paris (F)

PSA10: Visual systems of invertebrates: Periphery

141A THE EFFICIENCY OF INFORMATION CODING IN THE PHOTORECEPTORS OF DROSOPHILA VIRILIS
JE. Niven and SB. Laughlin, Cambridge (UK)

142A HOW DOES THE SIZE OF AN INDIVIDUAL FLY AFFECT THE EFFICIENCY OF INFORMATION CODING IN ITS PHOTORECEPTORS?
JE. Niven, SB. Laughlin, B. Wijnen and DG. Stavenga, Cambridge (UK) and Groningen (NL)

143A ADAPTATION AND FEEDBACK REGULATION IN THE FIRST VISUAL SYNAPSE OF IN VIVO DROSOPHILA
L. Zheng, GG. de Polavieja, V. Wolfram, MH. Asyali, RC. Hardie and M. Juusola, Cambridge (UK), Madrid (E) and Riyadh (KSA)

144A THE CONTRIBUTION OF RETINAL GANGLION CELL NONLINEARITIES TO THE PERCEPTION OF MOTION-INDUCED ILLUSIONS
MH. Hennig and F. Wörgötter, Stirling (UK)

145A POLARISATION VISION IN A NOCTURNAL BEE
B. Greiner, WA. Ribi, TW. Cronin, WT. Wcislo and EJ. Warrant, Lund (S), Triesen (FL), Baltimore, MD (USA) and Balboa (PA)

146A STRUCTURES AND MECHANISMS OF LIGHT ADAPTATION IN THE DORSAL AND THE VENTRAL EYE OF ASCALAPHUS MACARONIUS.
K. Draslar and U. Wolfrum, Ljubljana (SLO) and Mainz

147A THE DYNAMICAL AND SPECTRAL CHARACTERISTICS OF PUPILLARY RESPONSE IN THE OWL-FLY ASCALAPHUS MACARONIUS
P. Stusek, G. Belusic, G. Zupancic and K. Draslar, Ljubljaa (SLO)

PSA11: Visual systems of invertebrates: Central areas and perception

148A SENSORY ECOLOGY OF POLLINATION: A SURVEY OF COLOUR AND NECTAR DISTRIBUTION IN NATURAL HABITATS
AM. Wertlen, N. Hempel de Ibarra, AA. Cocucci, A. Sersic, W. Kreisch and M. Ristow, Berlin, Córdoba (RA) and Potsdam

149A CHARACTERIZATION OF SYNAPTIC TRANSMISSION IN THE VISUAL PATHWAY OF THE BLOWFLY USING DUAL CELL RECORDING AND LASER ABLATION TECHNIQUES
J. Kalb, U. Beckers, M. Egelhaaf and R. Kurtz, Bielefeld

150A LOOMING SENSITIVE NEURONS IN THE BRAIN OF THE LOCUST LOCUSTA MIGRATORIA
K. Härtel and R. Hustert, Göttingen

151A LOCUST LANDING BEHAVIOUR - A TOUGH BUT SAFE STRATEGY
M. Baldus and R. Hustert, Göttingen

152A THE PHOTOACTIVATION ENERGY AND ABSORBANCE SPECTRA OF THE VISUAL PIGMENTS IN TWO POPULATIONS OF MYSIS RELICTA SP. I (MYSIDACEA, CRUSTACEA) FROM DIFFERENT LIGHT ENVIRONMENTS
J. Pahlberg, M. Jokela-Määttä, P. Ala-Laurila, M. Lindström and K. Donner, Helsinki (FIN), Boston, MA (USA) and Hanko (FIN)

153A CROSSMODAL VISUAL-AUDITORY INTERFERENCE IN OBJECT RECOGNITION PROCESS
S. Greenberg and LY. Deouell, Jerusalem (IL)

154A COLOUR CONSTANT 'PERCEPTION' AND PROCESSING IN BUMBLEBEES
M. Wicklein and B. Lotto, London (UK)

155A EXPERIMENTS ON FORM AND SIZE PERCEPTION USING ILLUSORY CONTOURS AND VISUAL ILLUSIONS IN GOLDFISH (CARASSIUS AURATUS)
K. Wyzisk and C. Neumeyer, Mainz

PSA12: Visual systems of vertebrates: Periphery

156A GLUTAMATE RECEPTOR EXPRESSION IN AMACRINE CELLS OF MOUSE RETINA
ON. Dumitrescu and H. Wässle, Frankfurt/Main

157A DIFFERENTIAL DISTRIBUTION OF GLYCINE RECEPTOR SUBUNITS ON AMACRINE AND GANGLION CELLS IN THE MOUSE RETINA
L. Heinze, SH. Haverkamp and H. Wässle, Frankfurt/Main

158A FUNCTIONAL PROPERTIES OF GLYCINE RECEPTORS IN BIPOLAR CELLS OF THE MOUSE RETINA.
E. Ivanova and H. Wässle, Frankfurt/Main

159A CONE PHOTORECEPTORS IN THE RETINAE OF MICROCHIROPTERAN BATS.
B. Müller and L. Peichl, Frankfurt/Main

160A THE ROLES OF CVAX, TBX5, AND EPHB RECEPTOR TYROSINE KINASES IN AXON FASCICULATION AND INTRARETINAL PATHFINDING
TW. Mühleisen and D. Schulte, Frankfurt/Main

161A MOLECULAR DISSECTION OF THE EARLY POSTNATAL ASSEMBLY OF THE PHOTORECEPTOR RIBBON COMPLEX
H. Regus, S. tom Dieck, A. Fejtová, ED. Gundelfinger and JH. Brandstätter, Frankfurt/Main and Magdeburg

162A PLASTICITY IN A MUTANT MOUSE RETINA LACKING A FUNCTIONAL BASSOON PROTEIN
D. Brauner, J. Ammermüller, S. tom Dieck, ED. Gundelfinger and JH. Brandstätter, Frankfurt/Main, Oldenburg and Magdeburg

163A A BATTERY OF OPTICAL TESTS TO MEASURE VISUAL FUNCTION IN MICE
F. Schaeffel and C. Schmucker, Tuebingen

164A IMMUNOHISTOCHEMICAL ANALYSIS OF THE PORCINE RETINA
H. Schmid and K. Kohler, Tuebingen

165A LOCALIZATION OF OPA1, THE DISEASE GENE FOR AUTOSOMAL DOMINANT OPTIC ATROPHY, IN THE RETINA OF VERTEBRATES
I. Chwalla, J. Fries, S. Bette and K. Kohler, Tuebingen

166A COORDINATION OF EYE MOVEMENTS IN THE ZEBRA FINCH
J. Voss and H-J. Bischof, Bielefeld

167A PRETECTAL DIRECTION SELECTIVE NEURONS IN AFOVEATE AND FOVEATE TELEOST ARE IMPORTANT IN THE GAIN CONTROL OF OKR AND VOR
M. Klar and K-P. Hoffmann, Bochum

168A PROJECTIONS ORIGINATING FROM DIRECTION-SELECTIVE NEURONS IN THE PRETECTUM OF THE RAINBOW TROUT (SALMO GAIRDNERI) TO OCULOMOTOR STRUCTURES
B. Gürke and K-P. Hoffmann, Bochum

169A FUNCTIONAL DIVERSITY AMONG GANGLION CELLS IN THE RABBIT RETINA
GM. Zeck, Q. Xiao and RH. Masland, Boston (USA)

170A INFLUENCE OF NITRIC OXIDE ON THE RECOVERY KINETICS OF FLASH RESPONSES OF ISOLATED FROG RODS
A. Patrona and GN. Nöll, Giessen

171A NONLINEAR LATERAL INTERACTIONS IN THE VISUAL PERCEPTION AND IN THE LGN NEURONAL RESPONSES
V. Kozyrev and J. Kremers, Göttingen and Basel (CH)

172A KNOCK-OUT OF HCN1 CHANNELS ALTERS LIGHT-RESPONSES IN THE MAMMALIAN RETINA
G. Knop, F. Thiel, K. Hudl, M. Seeliger, UB. Kaupp and F. Müller, Jülich and Tübingen

173A RECEPTIVE FIELDS OF EPIRETINALLY RECORDED SIGNALS IN CATS: SPATIAL AND TEMPORAL ASPECTS
M. Wilms and R. Eckhorn, Marburg

PSA13: Visual systems of vertebrates: Central areas and perception

174A PERCEPTION OF GLASS PATTERNS MODULATES EARLY EVENT-RELATED POTENTIALS.
K. Ohla, NA. Busch, MA. Dahlem and CS. Herrmann, Magdeburg

175A ADULT PLASTICITY: LONG-TERM CHANGES OF ORIENTATION MAPS IN CAT VISUAL CORTEX
KF. Schmidt, M. Kaschube, K. Kreikemeier, B. Godde, M. Schnabel, HR. Dinse, F. Wolf and S. Löwel, Magdeburg, Göttingen, Bochum and Tübingen

176A SPACE-TIME CHARACTERISTICS OF ORIENTATION PREFERENCE MAP PLASTICITY IN VISUAL CORTEX OF ADULT CATS
K. Kreikemeier, M. Kaschube, KF. Schmidt, B. Godde, M. Schnabel, F. Wolf, S. Löwel and HR. Dinse, Bochum, Göttingen, Magdeburg and Tübingen

177A LATERALIZED ORGANIZATION OF FOREBRAIN AFFERENTS TO THE OPTIC TECTUM IN PIGEONS
N. Patzke, N. Freund, O. Güntürkün and M. Manns, Bochum

178A CHARACTERIZATION OF MOTION SPECIFIC AREAS IN FERRET VISUAL CORTEX
R. Philipp, C. Distler and K-P. Hoffmann, Bochum

179A RTMS INDUCED IMPROVEMENT OF HUMAN VISUAL ORIENTATION DISCRIMINATION
HR. Dinse, C. Klaes, P. Ragert and M. Tegenthoff, Bochum

180A INTEROCULAR TRANSFER IN PIGEONS BETWEEN THE TWO YELLOW FIELDS.
L. Jiménez-Ortega, O. Güntürkün and NF. Troje, Bochum and Ontario (CDN)

181A CHLORIDE COTRANSPORTER EXPRESSION IN THE VISUAL SYSTEM OF PIGMENTED AND ALBINO RATS
WM. Blaszczyk, E. Neuhaus, C. Distler and K-P. Hoffmann, Bochum

182A VISUAL MOTION PERCEPTION IN ALBINOTIC AND PIGMENTED FERRETS (MUSTELA PUTORIUS F. FURO)
D. Hupfeld and K-P. Hoffmann, Bochum

183A BEHAVIOURAL PHENOTYPING OF SYNRAS-TRANSGENIC MICE USING A NEW FIRST-STEP SCREENING METHOD: THE M.O.U.S.E. TEST
D. Hupfeld, K-P. Hoffmann and R. Heumann, Bochum

184A CORTICAL REPRESENTATIONS OF MOTION TRAJECTORIES REVEALED BY VOLTAGE-SENSITIVE DYE IMAGING IN EARLY VISUAL AREAS OF THE CAT
D. Jancke and A. Grinvald, Bochum and Rehovot (IL)

185A EVIDENCE FOR THE PROCESSING OF INFRARED STIMULI WITHIN THE DORSAL CORTEX OF RATTLESNAKES
M. Merkens and G. Westhoff, Bonn

186A DO ALBINOTIC ANIMALS LACK SELECTIVITY FOR MOTION DIRECTION IN THE EARLY VISUAL CORTEX?
A.Nagetusch, K-P. Hoffmann, C. Distler and D. Jancke, Bochum

187A INFRARED SENSITIVE UNITS AND THEIR RESPONSE CHARACTERISTICS IN THE TECTUM OPTICUM OF THE RATTLESNAKE CROTALUS ATROX
G. Westhoff, M. Morsch and CW. Eurich, Bonn and Bremen

188A RECEPTIVE FIELD STRUCTURE AND SHAPE PROCESSING IN AREA V4
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189A SHIFTING ATTENTION IS ACCOMPANIED BY A SHIFT IN THE FREQUENCY COMPONENTS OF MONKEY AREA MT NEURONAL RESPONSES
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190A NEURAL CORRELATES OF NON-SPACE-BASED ATTENTION IN MACAQUE AREA MT: TOP-DOWN-CONTROL VS. BOTTOM-UP EFFECTS
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191A DYNAMIC STIMULI AND DYNAMIC NEURONS: ENCODING PROPERTIES OF MT CELLS IN AWAKE MONKEYS
EL. Schulzke, H. Stemmann, WA. Freiwald and CW. Eurich, Bremen and Leipzig

192A ATTENTION MODULATES OSCILLATORY SYNCHRONY IN MONKEY AREA V1 IN A SHAPE TRACKING TASK
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193A PAIRED-PULSE TMS EFFECTS ON SINGLE UNIT ACTIVITY IN CAT PRIMARY VISUAL CORTEX
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194A TOP-DOWN INNERVATION MODULATES VISUAL ACTIVITY OF ROTUNDAL CELLS IN PIGEONS
K. Folta, B. Diekamp, J. Kirsch and O. Güntürkün, Bochum and Baltimore, MD (USA)

195A ANATOMY AND ELECTROPHYSIOLOGY OF TECTO-ISTHMIC FEEDBACK LOOPS IN THE CHICKEN
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196A SHAPE FROM STEREO: A COMPARATIVE APPROACH
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197A CHROMATIC AND ACHROMATIC VISION IN ZEBRA FINCHES (TAENIOPYGIA GUTTATA)
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198A NO LATERALIZATION OF FOOD DISCRIMINATION IN ZEBRA FINCHES (TAENIOPYGIA GUTTATA CASTANOTIS)
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199A THE DISTRIBUTION OF GAMMA-AMINOBUTYRIC ACID IN THE TECTOFUGAL SYSTEM OF WHITE AND WILD TYPE ZEBRA FINCHES (TAENIOPYGIA GUTTATA)
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200A POSTHATCH RETINAL BDNF-INJECTIONS AFFECT VISUAL LATERALIZATION IN PIGEONS
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201A DIFFERENTIAL EXPRESSION OF PHOSPHACAN ISOFORMS IN THE DEVELOPING MOUSE VISUAL SYSTEM
A. Klausmeyer, J. Garwood and A. Faissner, Bochum and Strasbourg (F)

202A TENASCIN-C AND ITS ALTERNATIVELY SPLICED FNIII DOMAINS: A POSSIBLE ROLE AS MODULATORS OF AXONAL OUTGROWTH IN THE DEVELOPING RAT VISUAL SYSTEM
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203A EXPRESSION OF PROTEIN TYROSINE PHOSPHATASES IN THE DEVELOPING MOUSE RETINOCOLLICULAR SYSTEM
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204A DOPAMINE AND SEROTONIN DIFFERENTIALLY AFFECT PARVALBUMIN EXPRESSION IN RAT VISUAL CORTEX
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205A AXONAL TRANSPORT OF NEUROTROPHIN-4 AND TRANSCELLULAR INDUCTION OF NEUROPEPTIDE Y EXPRESSION
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206A ARE NUMBERS SPECIAL? THE COMPARISON SYSTEMS OF THE HUMAN BRAIN INVESTIGATED BY FMRI
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207A INCREASED CORTICAL INHIBITION IN PATIENTS WITH MAJOR DEPRESSION AFTER LONGTERM VAGUS NERVE STIMULATION
M. Bajbouj, P. Neu, A. Neuhaus, J. Rentzsch, J. Vesper and I. Heuser, Berlin

208A EARLY SENSORY INFORMATION PROCESSING AFTER LEFT VAGAL STIMULATION IN PATIENTS WITH MAJOR DEPRESSIVE DISORDER
A. Neuhaus, J. Rentzsch and M. Bajbouj, Berlin

209A MUTATION OF THE TYPE II ISOFORM OF NEUREGULIN-1 LEADS TO A ROSTRO-MEDIAL CEREBELLAR DEFECT
AN. Garratt, L. Li, S. Britsch and C. Birchmeier, Berlin

210A DETECTING TRANSIENT PHASE SYNCHRONIZATION BETWEEN SPIKING ACTIVITY AND LOCAL FIELD POTENTIALS
M. Denker, M. Timme and S. Grün, Berlin and Göttingen

211A COMBINED IMAGING OF MEMBRANE VOLTAGE AND INTRACELLULAR CALCIUM IN THE SOMATOSENSORY CORTEX
T. Berger, S. Lefort, H-R. Lüscher and CCH. Petersen, Bern (CH)

212A THE ONSETS OF ACTIVE STATES IN NEOCORTICAL NEURONS: HOW SYNCHRONEOUS ARE THEY?
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213A RECURRENCY IN CORTICAL PYRAMIDAL CELLS AND ROLE IN CORTICAL PROCESSING COMPARED TO A RECURRENT CIRCUIT OF IDENTIFIED FUNCTION IN AN ARTHROPOD EXPERIMENTAL SYSTEM
J. Pilli and KA. Wiese, Hamburg

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214A INDUCTION OF SHARP WAVE RIPPLE-COMPLEXES (SPW-R) IN HIPPOCAMPUS BY TETANIC STIMULATION
C. Behrens, Berlin

215A RELATION OF CELL LOSS AND SEIZURE FREQUENCY IN THE ENTORHINAL CORTEX AND HIPPOCAMPUS IN THE PILOCARPINE MODEL OF TEMPORAL LOBE EPILEPSY
M. Njunting, S. Gabriel, K. Schulze, K. Jandova, U. Heinemann and T-N. Lehmann, Berlin

216A PRINCIPAL COMPONENT ANALYSIS OF HIPPOCAMPAL MOSSY FIBER FEPSPS AND MODELING OF SHORT-TERM SYNAPTIC PLASTICITY
M. Moisel, K. Gebert, C. Leibold, A. Gundlfinger, D. Schmitz and R. Kempter, Berlin

217A PRETREATMENT WITH MK-801 AFFECTS THE PROPERTIES OF KAINATE-INDUCED GAMMA OSCILLATIONS IN AREA CA1 OF THE HIPPOCAMPUS
C. Kehrer, D. Schmitz, U. Heinemann and T. Gloveli, Berlin

218A DIFFERENTIAL INVOLVEMENT OF PERISOMATIC TARGETING INTERNEURONS IN HIPPOCAMPAL NETWORK OSCILLATIONS IN VITRO
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219A SPATIAL LEARNING LEADS TO EXPRESSION OF THE IMMEDIATE EARLY GENES C-FOS AND ZENK IN THE ZEBRA FINCH HIPPOCAMPUS
H-J. Bischof, C. Lieshoff and S. Watanabe, Bielefeld and Tokyo (J)

220A APPLYING THE DISSOCIATED SPATIAL ATTENTION TASK (DSAT) TO HUMANS DURING FMRI-SCANS.
B. Wolynski, P. Erhard and M. Meier, Bremen

221A REGULATION OF REELIN BUT NOT NEUROGENESIS IS CRITICAL FOR GRANULE CELL DISPERSION: EVIDENCE FROM A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY
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222A THE ROLE OF THE CONTRALATERAL HIPPOCAMPUS IN THE GENERATION OF SEIZURE ACTIVITY IN A MODEL OF FOCAL TEMPORAL LOBE EPILEPSY IN MICE
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223A EXPRESSION OF CONNEXIN 36 AND CONNEXIN 43 IN THE HIPPOCAMPUS OF BORNA DISEASE VIRUS INFECTED RATS
C. Koester-Patzlaff, M. Hosseini and B. Reuss, Göttingen

224A REDUCTION OF SEROTONERGIC INNERVATION IN THE AGING TREE SHREW HIPPOCAMPUS
JIH. Müller-Keuker, JN. Keijser, C. Nyakas, PGM. Luiten and E. Fuchs, Göttingen, Groningen (NL) and Budapest (H)

225A INVOLVEMENT OF THE DORSAL HIPPOCAMPUS IN TRACE FEAR CONDITIONING IN MICE: A TIME-DEPENDENT PROCESS
P. Tovote, I. Misane, A. Ronnenberg, SO. Ögren, M. Meyer, J. Spiess and O. Stiedl, Göttingen, Saskatoon (CDN), Stockholm (S) and Amsterdam (NL)

226A EXPRESSION OF CENTRAL NERVOUS GENES RELATED TO CHRONIC STRESS IN THE RAT
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227A ENDOGENOUS ESTRADIOL SYNTHESIS REGULATES PROLIFERATION, APOPTOSIS AND NEURITE OUTGROWTH IN RAT HIPPOCAMPUS.
L. Fester, Cv. Schassen, V. Ribeiro-Gouveia, M. Böttner and GM. Rune, Hamburg and Göttingen

228A TRKB RECEPTORS ARE INVOLVED IN THE STRUCTURAL REMODELING OF HIPPOCAMPAL SPINES
O. von Bohlen und Halbach, D. Medina, L. Minichiello and K. Unsicker, Heidelberg and Monterotondo (I)

229A MUSIC AS A TOOL TO EXAMINE PLEASANTNESS AND UNPLEASANTNESS: AN FMRI-STUDY
T. Fritz and S. Koelsch, Leipzig

230A THE USE OF PLACE CELLS IN LOCALE NAVIGATION: A MODEL OF RODENT SPATIAL LEARNING APPLIED TO MOBILE ROBOTS
A. Guanella, R. Wyss and PFMJ. Verschure, Zürich

PSA17: Learning and Memory

231A CORTICOSTERONE BOTH FACILITATES AND HAMPERS NMDA-RECEPTOR-DEPENDENT SYNAPTIC PLASTICITY
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232A FUNCTIONAL ROLE OF THE NEUROTRANSMITTER GLUTAMATE IN CNS OF APIS MELLIFERA
F. Locatelli, G. Bundrock and U. Müller, Berlin and Saarbrücken

233A ELECTROPHYSIOLOGICAL CORRELATES OF READING: ITEM BASED ANALYSIS OF ERP DATA
F. Hutzler, J. Bergmann, M. Conrad, M. Kronbichler, P. Stenneken and AM. Jacobs, Berlin and Salzburg (A)

234A FUNCTION OF THE MAPK P44/42 AND MAPK P38 IN LONG-TERM MEMORY FORMATION
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235A AMCREB IN MEMORY CONSOLIDATION OF THE HONEYBEE (APIS MELLIFERA)
A. Froese, N. Stollhoff and D. Eisenhardt, Berlin

236A HONEYBEES (APIS MELLIFERA) BUILD CONFIGURATIONS BETWEEN OLFACTORY STIMULI AND THE PERCEPTING ANTENNAE
B. Komischke, M. Strube and J-C. Sandoz, Berlin and Toulouse (F)

237A HOW DO DESERT ANTS LOCATE THE POSITION OF A FOOD SOURCE IN 3-D?
G. Grah, D. Heß, R. Wehner and B. Ronacher, Berlin and Zürich (CH)

238A ZENK AND FOS EXPRESSION IN ADULT ZEBRA FINCH MALES AFTER PRESENTING LEARNED AND NON-LEARNED STIMULI
C. Huchzermeyer, P. Husemann, C. Lieshoff and H-J. Bischof, Bielefeld

239A THE DIFFERENCES IN HORIZONTAL OPTOKINETIC NYSTAGMUS BETWEEN ALBINO WISTAR AND PIGMENTED LONG EVANS RATS ARE NOT CORRELATED WITH THEIR ABILITY OF MOVEMENT DETECTION
Y. Freund, D. Hupfeld and KP. Hoffmann, Bochum

240A LOSS OF METABOTROPIC GLUTAMATE RECEPTOR-DEPENDENT LTD VIA DOWNREGULATION OF MGLUR5 FOLLOWING STATUS EPILEPTICUS
T. Kirschstein, J. Chen, AJ. Becker and H. Beck, Bonn

241A NEONATAL LESIONS OF THE RAT MEDIAL PREFRONTAL CORTEX TOGETHER WITH PUBERTAL PHENCYCLIDINE TREATMENT AFFECT SPATIAL BEHAVIOUR BUT NOT SENSORIMOTOR GATING
S. Klein, K. Schwabe and M. Koch, Bremen

242A MODEL OF NONSYNAPTIC INTEGRATION BY SPATIALLY SEGREGATED NITRIC OXIDE SOURCES AND TARGETS IN THE LOCUST MUSHROOM BODY
SR. Ott, A. Philippides, MR. Elphick and M. O´Shea, Brighton (UK) and London (UK)

243A FUNCTIONAL REDISTRIBUTION OF EPENDYMIN CELL ADHESION MOLECULES AFTER LEARNING OF AN ACTIVE SHOCK AVOIDANCE TASK IN FISH
F. Kreul and R. Schmidt, Gießen

244A DETECTION OF MAMMALIAN EPENDYMIN-RELATED PROTEIN (MERP) TRANSCRIPTS IN MOUSE BRAIN AND INVESTIGATION OF A POSSIBLE INVOLVEMENT IN MEMORY FORMATION
S. Schneider and R. Schmidt, Gießen

245A DISTRACTING EFFECT OF EMOTIONALLY SIGNIFICANT STIMULI ON COGNITIVE BRAIN ACTIVITY: ELECTROPHYSIOLOGICAL FUNCTIONAL BRAIN IMAGING
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246A IMPAIRED SYNAPTIC PLASTICITY IN MICE CONDITIONALLY DEFICIENT IN NEURAL CELL ADHESION MOLECULE NCAM IS RESTORED BY ELEVATION OF EXTRACELLULAR CA2+ CONCENTRATION
A. Dityatev, O. Bukalo, AYW. Lee, B. Salem, JWS. Law, M. Schweizer and M. Schachner, Hamburg

247A PHOSPHORYLATION OF GLUR-A CONTAINING NEOCORTICAL AMPA RECEPTORS IS REQUIRED FOR INTACT OBJECT RECOGNITION
T. Celikel, V. Marx and R. Sprengel, Heidelberg

248A PERSISTENT ACTIVITY IN BASOLATERAL AMYGDALA NEURONS
AV. Egorov, K. Unsicker and O. von Bohlen und Halbach, Heidelberg

249A THE ROLE OF EXCITATORY NEURONS IN SUPRAGRANULAR LAYERS FOR THE ACQUISITION OF A WHISKER DEPENDENT LEARNING TASK
S. Laudenklos, T. Celikel and P. Osten, Heidelberg

250A TRANSFER OF SENSORIMOTOR ADAPTATION BETWEEN SENSORY MODALITIES.
G. Schmitz, P. Vogt and O. Bock, Köln

251A CORRELATION BETWEEN PERFORMANCE IN A SENSORIMOTOR ADAPTATION TASK AND FRONTAL-EXECUTIVE CONTROL IN ELDERLY
M. Girgenrath and O. Bock, Köln

252A TRANSCRANIAL DIRECT CURRENT STIMULATION IMPROVES A VISUAL DISCRIMINATION SKILL
L. Marshall, M. Mölle, K. Laske, S. Gais and J. Born, Lübeck

253A ANALYSIS OF INSTRUMENTAL SEQUENTIAL BEHAVIOR IN THE RAT
D. Domenger, Z. Dincheva and RKW. Schwarting, Marburg

254A SOUNDS IN SILENCE I: RAT ULTRASOUND VOCALIZATION DURING FEAR CONDITIONING - A DOSE/RESPONSE STUDY
M. Wöhr, A. Borta and RKW. Schwarting, Marburg

255A SOUNDS IN SILENCE II: INDIVIDUAL DIFFERENCES IN ULTRASOUND VOCALIZATION AND FREEZING DURING FEAR CONDITIONING
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256A APPETITIVE OLFACTORY LEARNING IN DROSOPHILA LARVAE: TESTING FOR EFFECTS OF TRAINING AMOUNT, REINFORCER INTENSITY, AGE, GENDER, ASSAY TYPE, AND MEMORY SPAN
K. Neuser, J. Husse, P. Stock and B. Gerber, Würzburg

257A A ROLE FOR SYNAPSIN IN ASSOCIATIVE LEARNING: THE DROSOPHILA LARVA AS A STUDY CASE
B. Michels, S. Diegelmann, H. Tanimoto, I. Schwenkert, E. Buchner and B. Gerber, Würzburg

258A NEURONAL ACTIVITY OF DOPAMINERGIC CELLS IN THE DROSOPHILA BRAIN ANALYZED BY OPTICAL CALCIUM IMAGING
T. Riemensperger, E. Buchner and A. Fiala, Würzburg

259A ANT NAVIGATION: CAN LANDMARK-BASED ROUTES BE REVERSED?
M. Boyer and R. Wehner, Zurich (CH)

260A LANDMARK-BASED ROUTE MEMORIES IN DESERT ANTS, MELOPHORUS BAGOTI : CAN SEQUENTIALLY ACQUIRED LANDMARK MEMORIES BE RETRIEVED AT ANY POINT OF THE SEQUENCE?
F. Loertscher and R. Wehner, Zurich (CH)

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261A A DIRECT LINE FROM THE APPENDAGES TO THE BRAIN IN INSECTS?
P. Bräunig, Aachen

262A A 450 MILLION YEAR LEITMOTIF FOR A LOCOMOTOR CONTROL CENTER IN THE BRAIN: CONSERVED NEUROARCHITECTURE OF THE CENTRAL COMPLEX OF CHELICERATES AND HEXAPODS
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263A DIFFERENTIAL DISTRIBUTION OF FILAMENTOUS ACTIN AND GLOBULAR BETA-ACTIN IN INTRINSIC MUSHROOM BODY KENYON CELLS OF AN INSECT BRAIN
I. Frambach, F-W. Schürmann and H. Gras, Göttingen

264A COMPARATIVE ANATOMY OF THE ACCESSORY MEDULLA, A CIRCADIAN PACEMAKER CENTRE IN INSECTS, BY PIGMENT-DISPERSING FACTOR (PDF) IMMUNOHISTOLOGY
T. Reischig, Göttingen

265A SEARCH FOR THE NEUROTRANSMITTERS AND TRANSMITTER RECEPTORS IN THE PIGMENT-DISPERSING FACTOR (PDF) IMMUNOREACTIVE NEURONS OF THE COCKROACH LEUCOPHAEA MADERAE
T. Reischig, Göttingen

266A RECIPROCAL NEURAL CONNECTIONS BETWEEN THE CENTRAL POSTERIOR/PREPACEMAKER NUCLEUS AND NUCLEUS G IN THE GYMNOTIFORM FISH, APTERONOTUS LEPTORHYNCHUS
GKH. Zupanc and SAL. Correa, Bremen and Manchester (UK)

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267A CHOLINE ACETYLTRANSFERASE (CHAT) AND NO SYNTHASE (NOS) IN THE DEVELOPING SPINAL CORD OF PIGEONS AND CHICKENS
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268A SPATIAL EXPRESSION OF DJ-1, A GENE ASSOCIATED WITH PARKINSON'S DISEASE
V. Bader, X. Zhu, C. Stichel and H. Lübbert, Bochum and Leverkusen

269A SITE SPECIFIC AND DEVELOPMENTAL EXPRESSION OF PANNEXINS IN THE CNS
A. Ray, G. Zoidl, S. Weickert, P. Wahle and R. Dermietzel, Bochum

270A PRODUCTION OF SPECIFIC MONOCLONAL ANTIBODIES DIRECTED AGAINST THE SEROTONIN 7 RECEPTOR USING HAMSTER-MOUSE HETERO-HYBRIDOMA CELLS
G. Schlaf, T. Manzke, T. Demberg and DW. Richter, Göttingen

271A LOCALISATION OF ELECTROGENIC SODIUM BICARBONATE COTRANSPORTER NBC1 IN MOUSE CENTRAL NERVOUS SYSTEM
B. Orlowski, E. Roussa and M. Rickmann, Göttingen

272A SERINE RACEMASE MODULATES INTRACELLULAR D-SERINE LEVELS THROUGH AN ALPHA,BETA-ELIMINATION ACTIVITY
I. Bendikov, VN. Foltyn, E. Dumin, P. Li, MD. Toney and H. Wolosker, Haifa (IL) and Davis, CA (USA)

273A DEVELOPMENTAL PATTERN OF THREE VESICULAR GLUTAMATE TRANSPORTERS (VGLUTS) IN THE RAT SUPERIOR OLIVARY COMPLEX
P. Blaesse, S. Ehrhardt, E. Friauf and HG. Nothwang, Kaiserslautern

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274A NEURONAL CALCIUM SENSOR (NCS) PROTEIN VILIP-1 MODULATES CYCLIC GMP SIGNALLING BY REGULATING RECEPTOR GUANYLYL CYCLASE B CELL SURFACE EXPRESSION AND ACTIVITY IN NEURAL CELLS AND HIPPOCAMPAL NEURONS
M. Brackmann, R. Anand and K-H. Braunewell, Berlin and New Orleans (USA)

275A CHANGES IN ADENOSINE A1 AND A2A RECEPTOR BINDING IN AN ANIMAL MODEL OF INBORN DYSKINESIA
A. Richter, K. Barlow, R. Raymond and JN. Nobrega, Berlin and Toronto (CDN)

276A CANNABIS INCREASES SERUM CONCENTRATIONS OF THE NEUROTROPHINS NGF AND BDNF IN DRUG-NAÏVE SCHIZOPHRENIC PATIENTS AND PRECIPITATES DISEASE-ONSET
M-C. Jockers-Scherübl, H. Danker-Hopfe, F. Selig, R. Mahlberg, UE. Lang, J. Rentzsch, F. Schürer and R. Hellweg, Berlin

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277A THE ROLE OF ADENOSINE AT HIPPOCAMPAL MOSSY FIBER SYNAPSES
A. Gundlfinger, J. Breustedt, M. Torvinen and D. Schmitz, Berlin

278A ASSESSING THE ROLE OF GLUK5 AND GLUK6 AT HIPPOCAMPAL MOSSY FIBER SYNAPSES
J. Breustedt and D. Schmitz, Berlin

279A ADAPTATION OF SYNAPTIC PROPERTIES OF INTRACORTICAL CONNECTIONS TO LAYER 2/3 PYRAMIDAL CELLS IN THE RAT
O. Beck, M. Chistiakova, K. Obermayer and M. Volgushev, Berlin and Bochum

280A STIMULATION DEPENDENT IMPAIRMENT OF LTP IN HETEROZYGOUS BDNF KNOCK-OUT MICE
T. Koehler, J. Grabert, E. Weiler, P. Wahle, V. Lessmann, UT. Eysel and T. Mittmann, Bochum and Mainz

281A ROLE OF N-CADHERIN IN SELECTIVE STABILISATION OF GLUTAMATERGIC SYNAPSES
K. Jüngling and K. Gottmann, Düsseldorf

282A PRESYNAPTIC LONG-TERM INDUCTION OF IMMATURE GLUTAMATERGIC SYNAPSES IN CULTURED NEOCORTICAL NEURONS
C. Walz, V. Lessmann and K. Gottmann, Düsseldorf and Mainz

283A INSULIN-LIKE GROWTH FACTOR-1 (IGF-1)-INDUCED LONG-TERM PLASTICITY IN THALAMO-CORTICAL SYNAPSES IN VITRO
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284A SYNAPTIC VESICLE PROTEINS UNDER CONDITIONS OF REST AND ACTIVATION: A PROTEOMIC APPROACH USING DIFFERENTIAL IN GEL ELECTROPHORESIS
J. Burré, M. Morciano, T. Beckhaus, M. Karas, W. Volknandt and H. Zimmermann, Frankfurt/Main

285A ANALYSIS OF THE PROTEOME OF SYNAPTIC VESICLES DOCKED TO THE PLASMA MEMBRANE UNDER CONDITIONS OF REST AND ACTIVATION
M. Morciano, J. Burré, T. Beckhaus, M. Karas, H. Zimmermann and W. Volknandt, Frankfurt/Main

286A POSTSYNAPTIC DEPOLARIZATIONS MEDIATED BY GABAA RECEPTORS: A COMPUTATIONAL STUDY
P. Jedlicka and KH. Backus, Frankfurt/Main

287A ABSENCE OF TRANSFORMING GROWTH FACTOR-BETA2 (TGF-BETA2) CAUSES CHANGES IN ACETYLCHOLINE RECEPTOR CLUSTERING AT THE MOUSE NEUROMUSCULAR JUNCTION
K. Heupel and K. Krieglstein, Göttingen

288A ACTIVITY-DEPENDENT RELEASE OF TRANSFORMING GROWTH FACTOR-BETA (TGF-BETA) IN NEURONAL NETWORKS IN VITRO
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289A AN EARLY FAST PHASE OF ENDOCYTOSIS SORTS SYNAPTIC VESICLES LESS EFFICIENTLY BACK INTO THE RECYCLING POOL
VJ. Mueller and J. Klingauf, Göttingen

290A MUNC-18-1 IS A POSITIVE REGULATOR FOR SECRETORY GRANULE DOCKING IN CHROMAFFIN CELLS AS VISUALIZED BY EVANESCENT WAVE MICROSCOPY
O. Kochubey, RF. Toonen, M. Verhage and J. Klingauf, Goettingen and Amsterdam (NL)

291A ANALYSIS OF NON-STATIONARY FLUCTUATIONS OF EXOCYTOTIC CAPACITANCE CHANGES IN MOUSE INNER HAIR CELLS
D. Khimich, P. Pirih, F. Wolf and T. Moser, Göttingen

292A SYNAPTIC VESICLES LOOSE THEIR PROTEIN COMPLEMENT DURING EXO-ENDOCYTIC CYCLING
M. Wienisch and J. Klingauf, Göttingen

293A CONVERGING SIGNALING PATHWAYS IN THE GRASSHOPPER BRAIN AND THE CONTROL OF CONTEXT-SPECIFIC BEHAVIOR – AN IN VITRO APPROACH
C. Heck and R. Heinrich, Göttingen

294A ALPHA-METHYL-NORADRENALINE STIMULATES ALPHA-1 AND ALPHA-2 ADRENOCEPTORS IN THE PARAVENTRICULAR THALAMIC NUCLEUS OF THE RAT
U. Heilbronner, M. Kole and G. Flügge, Göttingen

295A NEUROLIGINS ARE ESSENTIAL FOR NEURONAL NETWORK FUNCTION IN THE RESPIRATORY NETWORK OF MICE
G. Aramuni, F. Varoqueaux, V. Sargsyan, N. Brose and W. Zhang, Göttingen

296A GLIAL CELLS IN THE RESPIRATORY NETWORK EXPRESS FUNCTIONAL TRANSPORTERS AND RECEPTORS FOR GLYCINE
K. Szöke, J. Hirrlinger, M. Handschuh, C. Neusch, F. Kirchhoff and S. Hülsmann, Göttingen

297A STRUCTURAL ALTERATIONS IN THE BRAINS OF ADULT ALPHA-NEUREXIN DOUBLE KNOCKOUT MICE MAY BE A LONG-TERM CONSEQUENCE OF IMPAIRED SYNAPTIC TRANSMISSION
I. Dudanova and M. Missler, Göttingen

298A CONTROL OF BEHAVIOR AND METABOLISM THROUGH THE ADRENERGIC SYSTEM IN THE NEMATODE C. ELEGANS
T. Roeder and M. Seifert, Marburg

PSA22: Neuropeptides and neuromodulation

299A OCTOPAMINE INDUCES CA2+-SIGNALS IN CULTURED ANTENNAL LOBE NEURONS OF THE HONEYBEE
S. Berger and B. Grünewald, Berlin

300A EXCITATORY NEUROTRANSMITTER RELEASE AT SYNAPSES IN THE VISUAL CORTEX OF BDNF HETEROZYGOTE MICE
I. Abidin, E. Weiler, UT. Eysel and T. Mittmann, Bochum

301A POSTACTIVATION INHIBITION OF SPONTANEOUSLY ACTIVE SEROTONIN-RELEASING NEUROSECRETORY CELLS IN THE MEDICINAL LEECH
D. Gocht and R. Heinrich, Göttingen

302A DEVELOPMENTAL CHANGES OF BRAIN DERIVED NEUROTROPHIC FACTOR (BDNF) EVOKED MODULATION OF SYNAPTIC ACTIVITY WITHIN THE KÖLLIKER-FUSE NUCLEUS (KF)
M. Kron, M. Mörschel, W. Zhang and M. Dutschmann, Göttingen

303A CHANGES IN THE EXPRESSION PATTERN OF BDNF AND TYROSINE KINASE RECEPTOR B (TRKB) DURING POSTNATAL MATURATION OF BRAINSTEM RESPIRATORY NUCLEI.
M. Kron, T. Manzke and M. Dutschmann, Göttingen

304A SYSTEMIC ACTIVATION OF 5-HT1A RECEPTORS COMPENSATES OPIOID INDUCED RESPIRATORY DEPRESSION.
M. Dutschmann, T. Manzke, M. Mörschel, U. Günther and DW. Richter, Göttingen

305A EFFECTS OF 5-HT2A AND 5-HT2B RECEPTOR ISOFORM ACTIVATION ON SPONTANEOUS BREATHING OF ANAESTHETISED RAT
T. Manzke, M. Dutschmann and DW. Richter, Göttingen

306A EXPRESSION PATTERNS OF 5-HT1A, 2A, 2B, 4(A) AND 7 RECEPTOR ISOFORMS IN THE PONTO-MEDULLARY RESPIRATORY NETWORK OF RAT
T. Manzke, M. Kron, M. Dutschmann and DW. Richter, Göttingen

307A ACID SHIFTS IN RESPONSE TO NH4+ APPLICATION PROVIDE A MEASURE FOR KCC2 ACTIVITY IN SINGLE NEURONS
S. Titz, A. Lewen and U. Misgeld, Heidelberg

308A G-PROTEINS MEDIATING DF2 AND PROCTOLIN INDUCED ENHANCEMENT OF MUSCLE CONTRUCTURE IN IDOTEA EMARGINATA
N. Rogalla and S. Kreissl, Konstanz

PSA23: Ion channels and receptors

309A NOVEL DROSOPHILA TASK CHANNELS: EVIDENCE FOR CHANGE OF FUNCTION FOLLOWING HETEROMERIZATION
F. Döring, H. Scholz, RP. Kühnlein, A. Karschin and E. Wischmeyer, Würzburg and Göttingen

310A HYPERPOLARISATION ACTIVATED CHLORID CURRENT IN LARVAL BODY WALL MUSCLE OF DROSOPHILA
U. Rose, Ulm

311A CELLULAR CHANGES OF LOCUST BODY WALL MUSCLE DURING REPRODUCTIVE DEVELOPMENT
U. Rose and C. Zint, Ulm

312A A DE NOVO MUTATION IN GABRA1, ENCODING THE GABAA RECEPTOR ALPHA1-SUBUNIT, IN A SPORADIC CASE OF CHILDHOOD ABSENCE EPILEPSY
S. Maljevic, K. Krampfl, J. Rebstock, N. Tilgen, YG. Weber, P. Cossette, GA. Rouleau, J. Bufler, A. Heils and H. Lerche, Ulm, Hannover, Bonn and Montreal (CDN)

313A CAPACITIVE OPENING OF RECOMBINANT VOLTAGE-GATED NA+ CHANNELS ON SILICON CHIPS
I. Schön and P. Fromherz, Martinsried

314A FUNCTIONAL SODIUM CHANNELS IN CELL ADHESION PROBED BY TRANSISTOR RECORDING
M. Schmidtner and P. Fromherz, Martinsried

315A EXPRESSION AND ROLE OF TASK CHANNELS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS
SG. Meuth, H. Wiendl, S. Krause, T. Kanyshkova, P. Meuth, T. Broicher, T. Budde and R. Weissert, Magdeburg and Tübingen

316A ROLE OF I(TASK) AND I(H) CHANNELS IN A SINGLE THALAMOCORTICAL RELAY NEURON: A MODELLING APPROACH
P. Meuth, SG. Meuth, T. Kanyshkova, T. Broicher, H-C. Pape and T. Budde, Magdeburg

317A PUSHING THE SWING: MECHANICAL ENERGY CONTRIBUTED BY NEURONS IN THE EAR OF THE FLY
MC. Göpfert, ADL. Humphris, JT. Albert, D. Robert and O. Hendrich, Cologne and Bristol (UK)

318A PULLING THE SPRING: MECHANICAL SIGNATURES OF TRANSDUCER ADAPTATION IN THE EAR OF THE FLY
JT. Albert and MC. Göpfert, Cologne

319A INHIBITION OF PNC GIANT NEURONS MEDIATED BY G-PROTEIN COUPLED RECEPTORS
D. Bosch, H-U. Schnitzler and S. Schmid, Tübingen

320A PHARMACOLOGICAL PROPERTIES OF GABA-A RECEPTORS IN ACUTELY DISSOCIATED MURINE HIPPOCAMPAL NEURONS
S. Hirsch, H. Lüddens and W. Hevers, Mainz

321A CMOS NEUROCHIP FOR LONG-TERM RECORDING FROM NEURONAL NETWORKS
DG. Weiss, W. Baumann, E. Schreiber, G. Krause, A. Podßun, M. Lehmann, I. Freund, S. Stüwe, A. Gramowski, K. Jügelt, O. Schröder and R. Ehret, Rostock, Freiburg and Borsdorf

322A THE TRPGAMMA CHANNEL IN THE COCKROACH PERIPLANETA AMERICANA IS REGULATED BY CAMP AND OCCURS IN NEUROSECRETORY PACEMAKER NEURONS
D. Wicher and C. Derst, Jena

323A MODULATION OF DELAYED RECTIFIER-TYPE POTASSIUM CURRENTS IN CELLS OF THE LOBSTER STOMATOGASTRIC GANGLION BY DOPAMINE
M. Gruhn, J. Guckenheimer, B. Land and RM. Harris-Warrick, Ithaca, NY (USA)

324A THE NR2A C-TERMINUS CONTROLS PEAK OPEN PROBABILITY IN HIPPOCAMPAL SYNAPSES
P. Punnakkal and G. Köhr, Heidelberg

325A MUTATIONAL ANALYSIS OF N- AND C-TERMINAL KV4.2 DOMAINS REQUIRED FOR THE BINDING AND FUNCTIONAL INTERACTION OF KV CHANNEL INTERACTING PROTEINS (KCHIPS)
B. Callsen, D. Isbrandt, K. Sauter, O. Pongs and R. Bähring, Hamburg

326A HONEYBEE SEROTONIN RECEPTORS: CLONING, CHARACTERIZATION AND TISSUE DISTRIBUTION
J. Schlenstedt, A. Baumann and W. Blenau, Potsdam and Jülich

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327A BLOCKADE OF GLUTAMATERGIC AND GABAERGIC RECEPTOR CHANNELS BY TRIMETHYLTIN CHLORIDE (TMT)
K. Krüger, M. Ahnefeld, V. Schulze, C. Wackerbeck, M. Madeja, N. Binding and U. Musshoff, Münster

328A DOSE-DEPENDENT EFFECTS OF 8-OH-DPAT ON MITOCHONDRIAL ACTIVITY IN THE VENTRAL HIPPOCAMPUS IN VIVO
A. Rex and H. Fink, Berlin

329A THE USE OF SUDDEN DARKNESS IN MICE: A BEHAVIOURAL AND PHARMACOLOGICAL APPROACH
B. Bert, LF. Felicio, H. Fink and AG. Nasello, Berlin and São Paulo (BR)

330A VOLUNTARY ORAL SELF-ADMINISTRATION OF MDMA AND THC IN THE RAT
C. Reinhard and J. Wolffgramm, Tübingen

331A DEFICIENT PREPULSE INHIBITION INDUCED BY SELECTIVE BREEDING OF RATS CAN BE RESTORED BY ANTIPSYCHOTICS
M. Hadamitzky, S. Schmadel, M. Koch and K. Schwabe, Bremen

332A DIFFERENTIAL EFFECTS OF CHRONIC INTERMITTENT ETHANOL TREATMENT DURING ADOLESCENCE ON SENSORIMOTOR GATING AND MOTOR ACTIVITY IN RATS POSTNATALLY EXPOSED TO ETHANOL
S. Röskam and M. Koch, Bremen

333A NEONATAL CORTICAL LESIONS AND CHRONIC PUBERTAL STRESS: EFFECTS ON LOCOMOTOR ACTIVITY
T. Enkel and M. Koch, Bremen

334A THE ANTIDEPRESSANT AGOMELATINE COUNTERACTS STRESS-INDUCED SLEEP EEG PERTURBATIONS
B. Schmelting, M. Simon and E. Fuchs, Göttingen

335A ALKYLGLYCEROL-MEDIATED OPENING OF THE BLOOD-BRAIN BARRIER FOR ENHANCED DRUG DELIVERY TO THE BRAIN AND TO BRAIN TUMORS IN RATS.
P. Hülper, B. Erdlenbruch, W. Kugler, H. Eibl and M. Lakomek, Göttingen

336A IN VITRO ANALYSIS OF THE NEUROPROTECTIVE POTENCIES OF NATURAL COMPOUND DERIVATIVES
W. Wendt, B. Sontag, H. Lübbert and CC. Stichel, Bochum, Heidelberg and Leverkusen

337A THE OUABAIN-INDUCED CELL SWELLING OF LEECH RETZIUS NEURONS IS DUE TO NACL UPTAKE
PW. Dierkes, G. Klees, HJ. Wüsten, A. Müller, P. Hochstrate and W-R. Schlue, Düsseldorf

338A BROMOPHENOLS, PRESENT BOTH IN MARINE ORGANISMS AND IN INDUSTRIAL FLAME RETARDANTS, DISTURB CELLULAR CALCIUM SIGNALING IN NEUROENDOCRINE CELLS (PC12)
T. Hassenklöver, S. Predehl, J. Pili, M. Assmann and U. Bickmeyer, Hamburg, Bremerhaven and Helgoland

339A ANTIDEPRESSANT-LIKE EFFECTS OF GROUP I MGLURS ANTAGONISTS ARE ASSOCIATED WITH THE CHANGES IN BDNF GENE EXPRESSIO
B. Legutko, P. Brañski, A. Palucha, B. Szewczyk, J. Wieroñska, G. Nowak and A. Pilc, Krakow (PL)

PSA25: Cell and tissue cultures

340A PHYSIOLOGICAL DEVELOPMENT OF DIFFERENT NEURONAL SUBTYPES FROM THE CHICK OPTIC TECTUM IN CELL CULTURE
B. Mönig, S. Scholz and H. Luksch, Aachen

341A PRIMARY CULTURE OF IDENTIFIED NEURONS OF THE CNS OF LOCUSTA MIGRATORIA
N. Lautemann, P. Bräuning and S. Weigel, Aachen and Jülich

342A INPUT-INDUCED SUSTAINED RECURRENT ACTIVITY IN HIPPOCAMPAL NETWORKS
F. Hofmann, FJL. Arnold, P. Bengtson, M. Wittmann, P. Vanhoutte and H. Bading, Heidelberg and Cambridge (UK)

343A FAST CALCIUM SIGNALING TO THE NUCLEUS: ACTIVATION OF IMMEDIATE EARLY GENE TRANSCRIPTION WITHIN SECONDS AFTER ELECTRICAL ACTIVATION OF HIPPOCAMPAL NEURONS
B. Buschle and H. Bading, Heidelberg

344A IMAGING OF DISTINCT SPATIAL CALCIUM SIGNALS USING RECOMBINANT CA2+ PROBES IN VITRO MODEL SYSTEMS
J-M. Weislogel and H. Bading, Heidelberg

345A EMBRYONIC STEM CELL-DERIVED PERIPHERAL NEURONS - A POTENTIAL DONOR SOURCE FOR PERIPHERAL NERVOUS SYSTEM REPAIR
G. Grossrau, R. Konang and O. Brüstle, Bonn

346A HUMAN UMBILICAL CORD BLOOD STEM CELLS: ANALYSIS IN VITRO AND AFTER IMPLANTATION INTO THE INTACT ADULT RAT BRAIN
S. Greschat, C. Rosenbaum, MA. de Souza-Silva, J. Bender, G. Koegler, P. Wernet and HW. Müller, Düsseldorf

347A PROLIFERATED AND DIFFERENTIATED NEURAL PRECURSORS EXPRESS FUNCTIONAL CALCIUM-PERMEABLE AMPA RECEPTORS, DEVELOP INTO FUNCTIONAL DOPAMINERGIC NEURONS AND IMPROVE BEHAVIOUR AFTER GRAFTING
M. Timmer, K. Krampfl, J. Großkreutz, F. Schlesinger, M. Wesemann, L. Just, J. Bufler and C. Grothe, Hannover and Tübingen

348A GLIOMA CELL MIGRATION ALONG AXONS AS IN VITRO MODEL FOR GLIOMA INVASION
S. Kreis, V. Senner, K. Rose, S. Püttmann and S. Thanos, Münster

PSA26: Glia cells; Myelin

349A IDENTIFICATION OF P2Y RECEPTOR SUBTYPES IN HUMAN MÜLLER GLIAL CELLS
T. Pannicke, JE. Fries, I. Goczalik, M. Francke, TH. Wheeler-Schilling, K. Kohler, S. Wolf, P. Wiedemann, A. Bringmann and A. Reichenbach, Leipzig and Tübingen

350A NEUROPEPTIDE Y-MEDIATED INHIBITION OF RETINAL GLIAL CELL SWELLING
O. Uckermann, A. Wolf, P. Wiedemann, A. Reichenbach and A. Bringmann, Leipzig

351A GLIAL CELLS FROM HUMAN RETINAS PRODUCE IL-8 AND EXPRESS CXCR1 AND CXCR2 RECEPTORS
E. Ulbricht, M. Goczalik, M. Raap, M. Weick, A. Reichenbach and M. Francke, Leipzig

352A ASTROGLIOSIS IS DOWNREGULATED BY LIPOPOLYSACCHARIDE-ACTIVATED MICROGLIA IN ASTROGLIAL CELL CULTURES
C. Röhl, Kiel

353A INTRACELLULAR S100B REGULATES ASTROCYTIC INTERMEDIATE FILAMENT ASSEMBLY AND NEURITE OUTGROWTH IN VITRO
G. Ponath, V. Arolt, C. August and M. Rothermundt, Münster

354A INCLUSION BODY FORMATION IN OLIGODENDROGLIAL CELLS DEPENDS ON THE DYNAMIC INSTABILITY OF THE MICROTUBULE NETWORK
NG. Bauer and C. Richter-Landsberg, Oldenburg

355A PMA – INDUCED RAMIFICATION IN THE MICROGLIA CELL LINE, BV–2, DOES NOT DEPEND ON PKC
S. Zierler and H. Kerschbaum, Salzburg (A)

PSA27: Neuronal development

356A OVEREXPRESSION OF BAG-1 IN DIFFERENTIATED PC12 CELLS LEADS TO REDUCED NEURITE OUTGROWTH
K. Frebel, E. Nichiporuk, M. Sendtner and S. Wiese, Wuerzurg

357A INVESTIGATING THE ROLE OF BARENTSZ IN ZEBRAFISH DEVELOPMENT
A. Yarali, M. Kiebler and P. Macchi, Wuerzburg and Tuebingen

358A DEVELOPMENT OF AVIAN EMBRYONIC AUDITORY BRAINSTEM NEURONS IN VITRO
T. Künzel, B. Claaßen, B. Mönig, H. Wagner, J. Mey and H. Luksch, Aachen

359A CHANGES IN CAM KINASE II ACTIVITY AND LOCALIZATION DURING POSTEMBRYONIC CNS REMODELING IN MANDUCA SEXTA
P. Burkert and C. Duch, Berlin

360A DSD-1-PG/PHOSPHACAN IS EXPRESSED BY A SUBSET OF MULTIPOTENT EMBRYONIC NEURAL STEM CELLS
S. Sirko, A. von Holst and A. Faissner, Bochum

361A TETRASPANIN-5 EXPRESSION PARALLELS NEURONAL MATURATION IN THE CEREBELLUM OF NORMAL AND L7EN-2 TRANSGENIC MICE
MI. Holst, B. Pintea, CH. Juengen, K. Woellner, K. Duffe, J. Lind and SL. Baader, Bonn

362A THE ROLE OF PHOSPHORYLATION OF THREONINE-781 OF HUMAN NCAM IN ENDOCYTOSIS AND NEURITE OUTGROWTH
T. Goschzik, R. Quade, V. Kominek, C. Laurini, P. Maness, B. Schmitz and S. Diestel, Bonn and Chapel Hill, NC (USA)

363A DEVELOPMENT OF SYNAPTIC NEUROPILE IN THE MUSHROOM BODIES OF HONEYBEE DURING METAMORPHOSIS
O. Ganeshina and R. Menzel, Brisbane (AUS) and Berlin

364A BINDING OF ACETYLCHOLINESTERASE TO THE EXTRACELLULAR MATRIX COMPONENT LAMININ-1 IMPLIES A ROLE IN HETEROPHILIC ADHESION.
LE. Paraoanu and PG. Layer, Darmstadt

365A BI-DIRECTIONAL SIGNALING BY SEMA6A AND PLEXINA2 INTERACTION?
AE. Rünker, G. Little, J. Dolan and KJ. Mitchell, Dublin (IRL)

366A LAMINAR ORGANIZATION OF THE DENTATE GYRUS IN BETA2/NEUROD NULL MICE.
D. Del Turco, C. Gebhardt, GJ. Burbach, SJ. Pleasure, DH. Lowenstein and T. Deller, Frankfurt/Main and San Francisco (USA)

367A NEUROGENESIS IN THE ADULT SUBVENTRICULAR ZONE: A FUNCTIONAL ROLE FOR EXTRACELLULAR NUCLEOTIDES
SK. Mishra, N. Braun, C. Schomerus, H-W. Korf, J. Sévigny, SC. Robson and H. Zimmermann, Frankfurt/ Main, Québec (CDN) and Boston (USA)

368A NICOTINIC MODULATION OF GABAA RECEPTOR SUBUNIT EXPRESSION IN THE DEVELOPING RAT INFERIOR COLLICULUS
S. Brinker, S. Klöß and KH. Backus, Frankfurt/Main

369A ASSOCIATION OF THE ECTO-ATPASE NTPDASE2 WITH TRANSIENT CELL POPULATIONS OF THE NEUROGENIC PATHWAY IN THE ADULT DENTATE GYRUS
V. Shukla, N. Braun, J. Sévigny, SC. Robson, S. Raab and H. Zimmermann, Frankfurt/Main, Québec (CDN) and Boston (USA)

370A CLUSTERED PROTOCADHERIN GENES EXPRESSED IN THE ZEBRAFISH NERVOUS SYSTEM
T. Bass, M. Ebert and M. Frank, Freiburg

371A BETA-CATENIN MEDIATES CELL ADHESION IN THE EARLY NEUROEPITHELIUM
D. Junghans, V. Taylor, I. Hack, M. Frotscher and R. Kemler, Freiburg

372A DISRUPTION OF THE PROTOCADHERIN-GAMMA CLUSTER IN GENE-TRAP MICE LEADS TO NEURONAL DEGENERATION AND PERINATAL LETHALITY
M. Ebert, R. Kemler and M. Frank, Freiburg

373A DEVELOPMENT OF ANTENNAL MECHANOSENSORY NEURONS IN CRICKETS
F. Seidl and M. Gebhardt, Garching

374A THE MONOCARBOXYLATE TRANSPORTER 8 (MCT8) LINKED TO HUMAN PSYCHOMOTOR RETARDATION IS HIGHLY EXPRESSED IN THYROID HORMONE-SENSITIVE NEURONS
H. Heuer, MK. Maier, S. Iden, J. Mittag, E. Friesema, TJ. Visser and K. Bauer, Hannover and Rotterdam (NL)

375A EPH/EPHRIN EXPRESSION PATTERNS IN THE DEVELOPING CORTEX
C. Peuckert, R. Niehage, S. Barchmann, F. Weth and J. Bolz, Jena

376A INTRAUTERINE DEVELOPMENT OF SLEEP STATES
M. Schwab, K. Schwab, M. Kott and HH. Szeto, Jena and New York, NY (USA)

377A FETAL CEREBRAL PROCESSING OF EXTERNAL VIBROACOUSTIC STIMULI
M. Schwab, C. Menz, T. Bludau, KJ. Gerhardt and RM. Abrams, Jena and Gainesville, FL (USA)

378A DIFFERENTIAL REGULATION OF INTRACELLULAR CHLORIDE CONCENTRATION IN VARIOUS NUCLEI OF THE DEVELOPING RAT SUPERIOR OLIVARY COMPLEX
M. Oberhofer, E. Friauf and S. Löhrke, Kaiserslautern

PSA28: Regeneration and plasticity

379A UPREGULATION OF RETINOIC ACID SYNTHESIS FOLLOWING ACUTE SPINAL CORD INJURY
J. Mey, D. Morasutti, K. Schrage and P. McCaffery, Aachen and Waltham, MA (USA)

380A EFFECT OF RETINOIC ACID ON BDNF-DEPENDENT AXONAL REGENERATION AND NEUROTROPHIN RECEPTOR EXPRESSION OF RETINAL GANGLION CELLS
E. Kampmann, N. Rombach and J. Mey, Aachen

381A EXPRESSION OF RETINOIC ACID RECEPTORS AND RETINOID X RECEPTORS AFTER SCIATIC NERVE INJURY
N. Zhelyaznik and J. Mey, Aachen

382A CLOSTRIDIUM BOTULINUM C3 PROTEINS EXERT RHO-DEPENDENT AND -INDEPENDENT EFFECTS ON NEURONAL AND ASTROCYTIC PROCESS OUTGROWTH
M. Höltje, A. Hoffmann, F. Hofmann, G. Große, I. Just and G. Ahnert-Hilger, Berlin, Göttingen and Hannover

383A FIRST STEPS TOWARDS A CHARACTERIZATION OF CUTANEOUS REINNERVATION AFTER SKIN NERVE LESION (SNL) IN MICE
B. Picker, EMJ. Peters, R. Nitsch and S. Müller-Röver, Berlin

384A NEUROTROPHINS INDUCE SHORT-TERM CHANGES AND LONG-TERM POTENTIATION OF CORTICAL NEUROTROPHIN EXPRESSIO
S. Patz and P. Wahle, Bochum

385A PROMOTION OR INHIBITION: AMNIOTIC MEMBRANE DISPLAYS A DIVERSITY OF EFFECTS ON AXONAL GROWTH IN NEURONAL CELL CULTURES
C. Theiss, A. Schröder, K. Meller, K-P. Steuhl and D. Meller, Bochum and Essen

386A IDENTIFICATION OF INTRACELLULAR INTERACTING PARTNERS OF THE RECEPTOR PROTEIN TYROSINE PHOSPHATASE BETA/ ZETA USING A BACTERIAL TWO-HYBRID SYSTEM
T. Sobik, A. Horvat-Bröcker, G. Zoidl, R. Dermietzel and A. Faissner, Bochum

387A LOSS AND RENEWAL OF NEURONS WITHIN FEW HOURS? A POTENTIAL PITFALL OF THE NEURONAL MARKER NEUN
E. Weiler, A. Benali and UT. Eysel, Bochum

388A FUNCTIONAL RECOVERY AND IMMUNOLOGICAL RESPONSE AFTER ALLOGRAFT TRANSPLANTATION OF RAT SCIATIC NERVE
R. van de Wal, J. Rustemeyer and U. Dicke, Bremen

389A ADAPTIVE PLASTICITY AFTER DISRUPTION OF THE LAMPREY LOCOMOTOR NETWORK
RM. Cooke, S. Bevan and D. Parker, Cambridge (UK)

390A GENE EXPRESSION IN DISTAL FRAGMENTS OF ADULT RAT SCIATIC NERVES: DO REGENERATION RECAPITULATE POSTNATAL DEVELOPMENT?
F. Bosse, K. Hasenpusch-Theil, U. Pippirs and HW. Müller, Düsseldorf

391A UPREGULATION OF TRANSCRIPTS FOR SYNAPTIC AND SYNAPTIC VESICLE PROTEINS IN THE DORSAL RAPHE NUCLEUS OF MALE WISTAR RATS AFTER CHRONIC SOCIAL STRESS
N. Abumaria, R. Rygula, E. Rüther, U. Havemann-Reinecke and G. Flügge, Göttingen

392A NEUROPROTECTIVE EFFECTS AND INTRACELLULAR SIGNALING PATHWAYS OF ERYTHROPOIETIN IN A RAT MODEL OF MULTIPLE SCLEROSIS
MB. Sättler, D. Merkler, K. Maier, C. Stadelmann, H. Ehrenreich, M. Bähr and R. Diem, Göttingen

393A ESTABLISHING A PARKINSON DISEASE MODEL IN MARMOSET MONKEYS WITH UNILATERAL 6-OHDA LESION OF THE NIGROSTRIATAL PATHWAY
B. Czéh, C. Heckmann, J. Schindehütte, B. Schmelting, A. Mansouri, G. Flügge and E. Fuchs, Göttingen

394A INCREASED EXPRESSION OF BDNF AND PROLIFERATION OF DENTATE GRANULE CELLS AFTER BACTERIAL MENINGITIS
SC. Tauber, C. Stadelmann, A. Spreer, R. Nau and J. Gerber, Göttingen

395A G-CSF: NEUROPROTECTIVE EFFECT AND SIGNAL TRANSDUCTION IN THE OPTIC NERVE TRANSECTION MODEL
J. Schlachetzki, G. Rohde, M. Bähr, A. Schneider and JH. Weishaupt, Göttingen and Heidelberg

PSA29: Neurogenetics

396A CHROMOSOME X STUDIES ON MULTIPLEX ASHKENAZI JEWISH FAMILIES WITH AUTISM
H. Lahat, H. Wolf, A. Aharonov, L. Gabis and E. Pras, Tel-Hashomer (IL)

397A ANALYSIS OF MAJOR HISTOCOMPATIBILITY COMPLEX CLASS I GENE EXPRESSION IN THE PRIMATE BRAIN
U. Geisler, G. Flügge, E. Fuchs and L. Walter, Göttingen

398A IDENTIFICATION AND CHARACTERISATION OF TGF-BETA-INDUCED PRO-APOPTOTIC BH3-ONLY PROTEINS
R. Schulz, D. Boinska and K. Krieglstein, Göttingen

399A TGF-BETA/GDNF SYNERGISM IN THE BRAIN DEVELPOMENT IN VIVO AND IN VITRO
B. Rahhal, S. Heermann, N. Dünker and K. Krieglstein, Göttingen

400A ANALYSIS OF THE REGULATORY ABILITIES AND INTERACTING PARTNERS OF TIEG3, A NEW MEMBER OF THE SP1-LIKE TRANSCRIPTION FACTOR FAMILY
B. Spittau, M. Leischke, Z. Wang, D. Boinska and K. Krieglstein, Göttingen

401A THE TRANSCRIPTIONAL REPRESSORS SHARP-1 AND -2 ARE POTENTIAL ANTAGONISTS OF HIF-1 ACTIVITY AND MAY BE INVOLVED IN HYPOXIA INDUCED TRANSCRIPTIONAL RESPONSES
JA. Reinecke, A. Schneider, K-A. Nave and MJ. Rossner, Göttingen and Heidelberg

402A POSTSYNAPTIC DENSITIES AT THE DROSOPHILA NMJ DO NOT SPLIT BUT ASSEMBLE DE NOVO
T. Rasse, W. Fouquet, A. Schmid, A. Guzman, RJ. Kittel, CB. Sigrist, M. Richter, M. Heckmann and S. Sigrist, Göttingen and Freiburg

403A CHARACTERIZATION OF A NEW NEUROGENIC ZONE IN THE ADULT ZEBRAFISH BRAIN
P. Chapouton, B. Adolf and L. Bally-Cuif, Munich and Neuherberg

404A CRE PROTEIN TRANSDUCTION IN HUMAN AND MURINE ES CELLS AND THEIR NEURAL PROGENY
S. Haupt, L. Nolden, H. Siemen, T. Wunderlich, F. Edenhofer and O. Brüstle, Bonn and Cologne

PSA30: Neuropathology

405A CHOLINERGIC INTERNEURON DENSITY AND ACETYLCHOLINE RECEPTOR BINDING ARE UNALTERED IN A GENETIC ANIMAL MODEL OF PRIMARY PAROXYSMAL DYSTONIA
M. Hamann, R. Raymond, S. Varughesi, JN. Nobrega and A. Richter, Berlin and Toronto (CDN)

406A MECHANISMS OF NEUROPROTECTION BY TRICHOSTATIN A
F. Yildirim, C. Harms, A. Meisel, J. Bösel and M. Endres, Berlin

407A ANALYSIS OF THE EARLY CMT1A PATHOGENESIS IN THE MURINE MODEL PMP22TGC61
K. Hasenpusch-Theil and HW. Müller, Duesseldorf

408A IGG ANTIBODIES FROM PATIENTS WITH POLYNEUROPATHIES EFFECTS CURRENTS IN THIN SLICES OF RAT DORSAL ROOT GANGLIA
S. Fabian, F. Blaes and A. Scholz, Gießen

409A MITOCHONDRIA DIFFERENTIALLY REGULATE [CA2+]I IN BRAIN STEM
S. Balakrishnan, F. Von Lewinsky and BU. Keller, Göttingen

410A COMBINED THERAPY WITH METHYLPREDNISOLONE AND ERYTHROPOIETIN IN A MODEL OF MULTIPLE SCLEROSIS
R. Diem, MB. Sättler, D. Merkler, I. Demmer, K. Maier, C. Stadelmann, H. Ehrenreich and M. Bähr, Göttingen

411A REGULATION AND ROLE OF MITOCHONDRIAL NETWORK DYNAMICS DURING APOPTOSIS OF DOPAMINERGIC NEURONS
K. Meuer, M. Bähr and JH. Weishaupt, Göttingen

412A THE ROLE OF BAD IN THE NEUROPROTECTIVE ACTION OF THE MAJOR GREEN TEA POLYPHENOL, (-)-EPIGALLO-CATECHIN 3-GALLATE (EGCG)
L. Tal, S. Mandel and MBH. Youdim, Haifa (IL)

413A SPECIFIC PATHOPHYSIOLOGICAL FUNCTIONS OF JNK ISOFORMS IN THE BRAIN FOLLOWING NEURONAL INJURIES
T. Herdegen, M. Götz, S. Brecht, J. Wessig, A. Chromik, T. Nicolaus, M. Willesen and G. Raivich, Kiel

414A COPAXONE VACCINATION FOR RETINAL NEUROPROTECTION
M. Belokopytov, G. Dubinsky, Y. Epstein, M. Belkin and M. Rosner, Tel Hashomer (IL)

415A CHANGES IN RETINAL ARCHITECTURE AND NEUROTRANSMISSION AFTER PERTUBATION OF CHOLESTEROL SYNTHESIS AND TRANSPORT
T. Claudepierre, I. Buard, K. Nieweg, M. Simonutti and F. Pfrieger, Strasbourg (F) and Paris (F)

416A GENDER DIFFERENCES OF ALBINO RATS IN RECOVERY FROM CEREBRAL ISCHEMIA INDUCED BY 12-MIN CARDIAC ARREST
NA. Gorenkova and AV. Volkov, Moscow (RUS)

PSA31: Neural-immune interactions

417A ENRICHED ENVIRONMENT PROLONGS SURVIVAL OF LYMPHOMA- BEARING IDIOTYPE-VACCINATED MICE
N. Benaroya-Milshtein, N. Hollander, T. Kukulansky, N. Raz, A. Apter, I. Yaniv, Y. Haberman, H. Halpert and CG. Pick, Tel Aviv (IL)

418A EXPRESSION, TRANSPORT AND RELEASE OF CCL21 IN APOPTOTIC CORTICAL NEURONS
E. de Jong, IM. Dijkstra, N. Brouwer, M. van Amerongen, R. Liem, HWGM. Boddeke and K. Biber, Groningen (NL)

419A C-JUN N-TERMINAL KINASES (JNKS) MEDIATE PRO-INFLAMMATORY ACTIONS OF MICROGLIA
V. Waetzig, K. Czeloth, U. Hidding, K. Mielke, M. Kanzow, S. Brecht, M. Götz, R. Lucius, U-K. Hanisch and T. Herdegen, Kiel, Hannover and Goettingen

420A ANXIETY-LIKE BEHAVIOUR IN THE RAT IS RELATED TO LEVELS OF INTERLEUKIN-2 MRNA IN THE BRAIN
CR. Pawlak, A. Bauhofer and RKW. Schwarting, Marburg

PSA32: Neuroendocrinology

421A ANXIETY/DEPRESSION-RELATED BEHAVIOR AND SOCIAL RECOGNITION: A KEY ROLE OF HYPOTHALAMIC AVP
E. Frank, T. Horn, R. Landgraf and A. Wigger, Munich and Magdeburg

422A MICE BRED FOR ANXIETY/DEPRESSION: ONCE AGAIN VASOPRESSIN
MS. Keßler, J. Rafael and R. Landgraf, Munich

423A NEUROPEPTIDES AND NEURONAL ACTIVITY IN THE PVN OF HAB AND LAB MICE
M. Bunck, M. Schmidt, N. Singewald, R. Landgraf and A. Wigger, Munich and Innsbruck (A)

424A BEHIND BEHAVIOUR: A COMPARISON OF GENE EXPRESSION BETWEEN TWO MOUSE LINES BRED FOR EITHER HIGH OR LOW ANXIETY-RELATED BEHAVIOUR
L. Czibere, MS. Keßler, M. Panhuysen, B. Pütz and R. Landgraf, Munich

425A NEUROENDOCRINE COMMUNICATION IN VERTEBRATES: CRH AND CRH-BP IN THE TELEOSTEAN HYPOTHALAMO-PITUITARY COMPLEX
E. van den Burg, J. Metz, M. Huising and G. Flik, Nijmegen (NL)

PSA33: Neuropsychology and psychophysics

426A VISUAL WORD PROCESSING IN PATIENTS WITH UNILATERAL SPATIAL NEGLECT
P. Stenneken, L. van Eimeren, AM. Jacobs, I. Keller and G. Kerkhoff, Berlin, Bad Aibling and München

427A P50 SENSORY GATING IN SCHIZOPHRENIC PATIENTS AND HEALTHY CONTROLS AT TWO DIFFERENT INTERPAIR INTERVALLS
J. Rentzsch, A. Neuhaus, M. Jockers-Scheruebl, M. Dettling and M. Bajbouj, Berlin

428A A GRAPHICAL MODEL OF NEURONAL COLOR CODING AND ELEMENTARY COLOR SENSATIONS IN MAN
W. Backhaus, Berlin

429A COMMUNICATION SIGNALS IN COURTSHIP BEHAVIOUR OF BIRDS – CAN ZEBRA FINCHES RECOGNIZE CONSPECIFICS ON VIDEO ?
Z. Galoch and H-J. Bischof, Bielefeld

430A CHARACTERISTICS OF TARGET SELECTION IN EYE-HAND COORDINATION
A. Horstmann and KP. Hoffmann, Bochum

431A INVESTIGATION OF COROLLARY DISCHARGE DURING ANTI-SACCADES IN A DOUBLE-STEP PARADIGM
B. Affeldt, J. Weiler, J. Peters and K-P. Hoffmann, Bochum

432A RECEPTIVE FIELD ORGANISATION OF ELECTROSENSORY NEURONS IN THE ELL OF THE WEAKLY ELECTRIC FISH, GNATHONEMUS PETERSII (TELEOSTEI)
M. Metzen, J. Bacelo, J. Engelmann, K. Grant and G. von der Ende, Bonn and Gif-sur-Yvette (F)

433A EFFECTS OF SELECTIVE ATTENTION ON THE DETECTION OF CHANGES IN THE VELOCITY OF MOVING OBJECTS BY HUMAN OBSERVER
DN. Markowski, FO. Galashan, D. Wegener and AK. Kreiter, Bremen

434A NEURONAL MECHANISMS OF CONTOUR INTEGRATION INVESTIGATED BY COMBINING PSYCHOPHYSICAL EXPERIMENTS WITH PROBABILISTIC MODELLING
S. Mandon, UA. Ernst, S. Neitzel, N. Schinkel, KR. Pawelzik and AK. Kreiter, Bremen

435A EFFECTS OF PSYCHOMOTOR TRAINING ON MOTOR FUNCTIONS AND COGNITION IN THE ELDERLY
P. Guardiera, O. Bock and H. Allmer, Cologne

436A LISTENING TO MELODIES RELATED TO NEWLY LEARNED PIANO MOVEMENT SEQUENCES: CHANGES IN CORTICOSPINAL EXCITABILITY INVESTIGATED USING TMS
I. Mutschler, A. Schulze-Bonhage, U. Halsband, S. Gräf, R. Martmüller, S. Rummler and T. Ball, Freiburg

437A BEHAVIOURAL EFFECTS OF CHRONIC PSYCHOSOCIAL STRESS IN RATS
R. Rygula, N. Abumaria, E. Ruether, G. Flügge and U. Havemann-Reinecke, Göttingen

438A THE SPATIAL DISTRIBUTION OF ATTENTIONAL FACILITATION/ INHIBITION OF CONTRAST SENSITIVITY DEPENDS ON TASK CONTEXT
R. Niebergall, T. Womelsdorf, T. Tzvetanov and S. Treue, Goettingen

439A NEURONAL CORRELATES OF SPATIAL COGNITION - COGNITIVE AND DIFFERENTIAL ASPECTS
K. Jordan, T. Wüstenberg, J. Schadow, A. Fellbrich and N. von Steinbüchel, Göttingen and Magdeburg

440A INTERACTIONS BETWEEN SENSORY AND COGNITIVE ABILITIES IN EARLY BLIND INDIVIDUALS
A. Rokem and M. Ahissar, Jerusalem (IL)

441A ISOLATING THE ROLE OF VISUAL PERCEPTION IN DYSLEXIA
MM. Shovman and M. Ahissar, Jerusalem (IL)

442A SPEECH INTELLIGIBILITY & BINAURAL INTERACTIONS: EFFECTS OF STIMULUS FAMILIARITY, STIMULUS SIMILARITY & SET SIZE
M. Nahum, A. Rokem, I. Nelken and M. Ahissar, Jerusalem (IL)

PSA34: Neuronal networks theory and modeling

443A A COMPUTER MODEL OF SEQUENCE LEARNING THROUGH PHASE PRECESSION IN THE HIPPOCAMPAL CA3 REGION: COMPRESSION, STORAGE AND FAST REPLAY
C. Leibold, K. Thurley and R. Kempter, Berlin

444A INVARIANT COMPUTATIONS IN LOCAL CORTICAL NETWORKS WITH BALANCED EXCITATION AND INHIBITION
P. Wiesing, L. Schwabe, O. Beck, J. Mariño, J. Schummers, DC. Lyon, M. Sur and K. Obermayer, Berlin and Cambridge, MA (USA)

445A PROCESSING NATURAL IMAGES WITH SINGLE SPIKES
D. Rotermund, U. Ernst and K. Pawelzik, Bremen

446A SCANNING PATTERNS IN FRACTAL NEURAL NETS
T. Kromer, Zwiefalten

447A LEARNING NOT BY CHANGING SYNAPSES BUT BY GENERATING MEMORY-MOLECULES
T. Kromer, Zwiefalten

448A POSTSYNAPTIC DEPOLARIZATIONS MEDIATED BY GABAA RECEPTORS: A COMPUTATIONAL STUDY
P. Jedlicka and KH. Backus, Frankfurt/Main

449A ACTIVITY RHYTHMS OF INDIVIDUAL NEURONS OF THE RODENT SUPRACHIASMATIC NUCLEUS CULTURED ON MICROELECTRODE ARRAYS
C. Klisch, S. Mahr and H. Meissl, Frankfurt/Main

450A STATISTICAL ANALYSIS AND MODELING OF CORTICAL NETWORK ARCHITECTURE BASED ON NEUROANATOMICAL DATA
N. Voges, A. Aertsen and S. Rotter, Freiburg

451A REDISTRIBUTION OF SYNAPTIC INPUT LEADS TO GAIN MODULATION IN LAYER V PYRAMIDAL NEURONS
A. Kumar, J. Kremkow, S. Rotter and A. Aertsen, Freiburg

452A SELF- SUSTAINED ASYNCHRONOUS ACTIVITY IN LARGE- SCALE RANDOM NETWORKS OF SPIKING NEURONS
S. Schrader, A. Kumar, S. Rotter and A. Aertsen, Freiburg

453A HOW THE STRUCTURE OF CORTEX RELATES TO ITS FUNCTION
B. Kriener, A. Morrison, A. Aertsen and S. Rotter, Freiburg

PSA35: Methods and demonstrations

460A INFLUENCE OF SPIKE SORTING ERRORS ON UNITARY EVENT STATISTICS
A. Pazienti and S. Grün, Berlin

461A SPIKE SORTING OF MULTI-SITE ELECTRODE RECORDINGS BASED ON AMPLITUDE RATIOS
R. Vollgraf, M. Munk and K. Obermayer, Berlin and Frankfurt/Main

462A NIPCLASSIFICATOR: CONTRIBUTING TO AN EVOLVABLE NEUROINFORMATICS ONTOLOGY
R. Ritz, T. Förster and AV. Herz, Berlin

463A GEOMETRIC RECONSTRUCTION OF THE VASCULAR SYSTEM IMAGED BY MRA, SUPPORTING THE SPATIALLY CONFINED ANALYSIS OF FMRI BOLD SIGNALS WITH RESPECT TO THE VASCULAR SYSTEM.
MA. Gaudnek, A. Hess, K. Obermayer, L. Budinsky, K. Brune and M. Sibila, Berlin and Erlangen/Nürnberg

464A A SYNERGY OF TECHNOLOGIES: COMBINING CONFOCAL LASER SCANNING MICROSCOPY AND ATOMIC FORCE MICROSCOPY TO STUDY THE CYTOSKELETON
K. Meller and C. Theiss, Bochum

465A ROBUST VITAL MONITORING SUPPORT FOR NEUROPHYSIOLOGIC EXPERIMENTS IN ANIMALS EVEN INSIDE MRI SCANNERS
F. Bussmann and A. Hess, Erlangen/Nürnberg

466A ARTIFACT REMOVAL FROM THE EEG – BLIND SOURCE SEPARATION AND COMPLEX ARTIFACTS
R. Meier, A. Schulze-Bonhage, A. Cichocki and A. Aertsen, Freiburg and Wako-shi (J)

467A MEASURING AND VISUALIZING PROTEIN-PROTEIN-INTERACTIONS IN LIVING CELLS USING A PROTEASE-BASED COMPLEMENTATION SYSTEM
MC. Wehr, R. Laage, K-A. Nave and MJ. Rossner, Göttingen and Heidelberg

468A 3D MRI VISUALIZATION OF MICROELECTRODES IN THE BRAINSTEM OF THE SQUIRREL MONKEY
R. Tammer, L. Ehrenreich, S. Boretius, J. Frahm and T. Michaelis, Göttingen

469A USING A COMBINATION OF FRET/FLIM AND ELECTROPHYSIOLOGY TO STUDY GPCR-SIGNALLING PATHWAYS
PS. Salonikidis, FS. Wouters and DW. Richter, Göttingen

470A HIGH FREQUENCY STIMULATION OF THE SUBTHALAMIC NUCLEUS – INVESTIGATIONS IN THE KINDLING MODEL OF EPILEPSY
MW. Nolte, W. Loscher and M. Gernert, Hannover

471A IDENTIFYING NEURONAL ENSEMBLES IN THE OLFACTORY AND VISUAL SYSTEMS USING INDEPENDENT COMPONENT ANALYSIS (ICA)
J. Reidel, D. Omer-Backlash, A. Grinvald, J. Starke and H. Spors, Heidelberg and Rehovot (IL)

S14: Neuronal injury and infection

1B MAST CELL INFLUENCE ON AXONAL OUTGROWTH AND NEURONAL INJURY
S. Müller-Röver, K. Warnke, F. Siebenhaar, S. Sallach, G. Goelz, C. Brandt, M. Maurer and R. Nitsch, Berlin

2B INHIBITION OF MNSOD EXPRESSION AS A MECHANISM FOR GLUTAMATE-INDUCED DEATH IN HT4 NEURONAL CELLS
A-S. Michal, G. Orit, R. Ram and T. Oren, Jersualem (IL)

3B THE MICROGLIA-ACTIVATING POTENTIAL OF THROMBIN
U-K. Hanisch and T. Möller, Berlin and Göttingen

4B ATTENUATION OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS CLINICAL SIGNS BY COMBINED THERAPY OF RIBAVIRIN AND TIAZOFURIN
D. Stojkov, I. Lavrnja, S. Pekovic, S. Subasic, S. Jovanovic, M. Mostarica-Stojkovic, S. Stosic-Grujicic, N. Nedeljkovic, Lj. Rakic and M. Stojiljkovic, Belgrade (Serbia)

5B EXPRESSION PROFILING FOR REGULATORS OF ADULT NEUROGENESIS IN DENTATE GYRUS AND CEREBELLUM OF BORNA DISEASE VIRUS INFECTED RATS
M. Hosseini, C. Koester-Patzlaff, J. Chowdhury, S. Grebenshchikova and B. Reuss, Göttingen

6B DOPAMINE ACCELERATES PROGRESSION OF HIV-DEMENTIA
E. Koutsilieri, S. Czub, C. Scheller, S. Sopper, E. *Grünblatt, G. Gosztonyi, V. ter Meulen and P. Riederer, Würzburg and Berlin*

7B THE EFFECT OF TUMOR NECROSIS FACTOR, INTERLEUKIN-1 AND INTERLEUKIN-6 ON THE EXPRESSION OF HEAT SHOCK PROTEIN 70 IN THE CENTRAL NERVOUS SYSTEM.
S. Michalak, Poznan (PL)

8B ADJUVANT THERAPY WITH DEXAMETHASONE INCREASES NEURONAL APOPTOTIC CELL DEATH IN THE DENTATE GYRUS IN EXPERIMENTAL ESCHERICHIA-COLI-MENINGITIS
A. Spreer, J. Gerber, M. Hanssen, P. Lange, H. Eiffert and R. Nau, Göttingen

9B MICRO TISSUE ENGINEERING: NEURON-, GLIA-, AND FIBROBLAST CELL INTERACTIONS IN POLYMER-BASED NERVE GUIDES
L. Dreesmann, M. Lietz, S. Oberhoffner, A. Ullrich, M. Dauner and B. Schlosshauer, Reutlingen and Denkendorf

10B HYDROXYPROLINE AS A MARKER FOR COLLAGENOLYTIC ACTIVITY IN NEUROINFLAMMATORY DISORDERS
J. Sellner, DN. Meli, D. Grandgirard, B. Storch-Hagenlocher, U. Meyding-Lamade and SL. Leib, Berne (CH) and Heidelberg

11B INVOLVEMENT OF FASL(CD95L) AND PERFORIN MEDIATED APOPTOSIS IN THE PATHOGENESIS OF HERPERS-SIMPLEX VIRUS ENCEPHALITIS
J. Sellner, F. Dvorak, Y. Zhou, S. Strand, PR. Galle and U. Meyding-Lamade, Berne (CH), Heidelberg and Mainz

S15: Nitric oxide / cyclic nucleotide signaling as regulator of developmental processes and cell motility in the nervous system

12B EXAMINATIONS ON THE FUNCTIONAL RELEVANCE OF DEFICIENT NOS-REACTIVE INTERNEURONS IN THE STRIATUM OF THE DT(SZ) MUTANT
SE. Kammann, M. Hamann and A. Richter, Berlin

13B CGMP-MEDIATED SIGNALLING IN SENSORY AXON PATHFINDING
S. Schäffer, H. Schmidt and FG. Rathjen, Berlin

14B SUPPRESSION OF AGGRESSION BY NITRIC-OXIDE IN THE CRICKET GRYLLUS BIMACULATUS
PA. Stevenson, J. Rillich, K. Schoch and K. Schildberger, Leipzig

S16: New vistas on insect vision

15B FUNCTIONAL PROPERTIES OF VISUAL NEURONS IN MALE BLOWFLIES PRESUMABLY INVOLVED IN CHASING BEHAVIOUR
C. Trischler, N. Boeddeker, R. Kern and M. Egelhaaf, Bielefeld

16B POSTTRANSLATIONAL MODIFICATION OF THE DROSOPHILA VISUAL GGAMMA SUBUNIT: PROTEIN FARNESYLATION FACILITATES MEMBRANE ATTACHMENT OF THE BETAGAMMA COMPLEX IN VIVO
K. Hartmann, S. Schillo, G. Belusic, R. Paulsen and A. Huber, Karlsruhe and Ljubljana (SLO)

17B A NEW ROLE OF MOTION ADAPTATION IN THE VISUAL MOTION PATHWAY OF THE BLOWFLY
J. Heitwerth and M. Egelhaaf, Bielefeld

18B CLOSED LOOP SIMULATION OF THE VISUALLY GUIDED COURSE CONTROL OF A FLY
H. Weiss, JP. Lindemann and M. Egelhaaf, Bielefeld

19B BLOWFLIES EXHIBIT SACCADIC FLIGHT STYLE UNDER VARIOUS FREE FLIGHT CONDITIONS
R. Kern, L. Dittmar, G. Schwerdtfeger, N. Böddeker and M. Egelhaaf, Bielefeld

20B RESPONSE OF THE BLOWFLY H1-NEURON TO NATURAL OPTIC FLOW
R. Kern, G. Schwerdtfeger, M. Egelhaaf and JH. van Hateren, Bielefeld and Groningen (NL)

21B INTEGRATION OF CELESTIAL ORIENTATION CUES IN AN IDENTIFIED NEURON IN THE BRAIN OF THE DESERT LOCUST SCHISTOCERCA GREGARIA
K. Pfeiffer, M. Kinoshita and U. Homberg, Marburg and Yokohama (J)

22B ANALYSIS OF NEURONAL RESPONSES IN THE BLOWFLY VISUAL SYSTEM TO OPTIC FLOW UNDER NATURAL OUTDOORS CONDITIONS.
N. Boeddeker, JP. Lindemann, M. Egelhaaf and J. Zeil, Bielefeld and Canberra (AUS)

23B POPULATION CODING OF SELF-MOTION IN THE BLOWFLY VISUAL SYSTEM
K. Karmeier, HG. Krapp and M. Egelhaaf, Bielefeld and Cambridge (UK)

24B NON-LINEAR DENDRITIC INTEGRATION OF VISUAL MOTION STIMULI IN FLY MOTION-SENSITIVE NEURONS
J. Grewe, N. Matos, M. Egelhaaf and A-K. Warzecha, Bielefeld

S17: Genomic and Proteomic Expression Profiling in Neural Repair

25B CHARACTERIZATION OF NEURITE GROWTH-INHIBITORY MOLECULES IN THE SPINAL CORD SCAR
SP. Niclou, N. Klapka, HW. Müller, RC. van der *Schors, KW. Li, AB. Smit and J. Verhaagen, Amsterdam (NL) and Düsseldorf*

26B DIFFERENT REGENERATION ABILITIES OF NOGO-A KNOCKOUT ANIMALS AFTER SPINAL CORD INJURY DEPENDING ON THE MOUSE STRAIN
L. Dimou, L. Schnell, M. Gullo, M. Simonen, T. Liebscher, R. Schneider and ME. Schwab, Zurich (CH) and Basel (CH)

27B COMBINING GFP LABELLING, LASER MEDIATED MICRODISSECTION AND MICROARRAY ANALYSIS TO SNAPSHOT THE GENE EXPRESSION PROFILES OF DEFINED NEURONAL CELL TYPES IN ADULT MICE
MJ. Rossner, C. Boehm, D. Newrzella, H. Hiemisch, G. Eisenhardt, C. Stuenkel, O. von Ahsen and K-A. Nave, Goettingen and Heidelberg

28B IDENTIFICATION OF BIOMARKERS FOR MULTIPLE SCLEROSIS
AM. Jacob, T. Ziemssen, F. Weber and CW. Turck, Munich and Dresden

S18: Brain-Computer-Interfaces (BCI): neuroprostheses for the paralyzed

29B HUMAN BRAIN-MACHINE INTERFACING BASED ON EPICORTICAL FIELD POTENTIALS: I. INFERENCE OF ARM MOVEMENT DIRECTION
C. Mehring, T. Ball, MP. Nawrot, A. Aertsen and A. Schulze-Bonhage, Freiburg

30B HUMAN BRAIN-MACHINE INTERFACING BASED ON EPICORTICAL FIELD POTENTIALS: II. TOPOGRAPHY OF DIRECTIONAL INFORMATION IN FRONTAL CORTEX
T. Ball, C. Mehring, MP. Nawrot, A. Schulze-Bonhage and A. Aertsen, Freiburg

31B HUMAN BRAIN-MACHINE INTERFACING BASED ON EPICORTICAL FIELD POTENTIALS: III. SPATIAL RESOLUTION OF DIRECTIONAL INFORMATION GAIN AND IMPLICATIONS FOR THE DESIGN OF INTRACRANIAL ELECTRODE ARRAYS
MP. Nawrot, C. Mehring, A. Schulze-Bonhage, A. Aertsen and T. Ball, Freiburg

32B SERIAL SPIKING STATISTICS OF CORTICAL NEURONS IN VIVO AND IN VITRO.
MP. Nawrot, C. Boucsein, Y. Seamari, C. Mehring, A. Aertsen and S. Rotter, Freiburg

33B DAMPED EXPONENTIAL MODELING FOR FEATURE EXTRACTION OF SELF-CONTROLLED BRAIN WAVES
S-W. Chen and H-C. Chen, Taoyuan (RC)

S19: Neural mechanisms of visual perception and learning in man and monkey

34B SMOOTH PURSUIT EYE MOVEMENTS: FMRI STUDIES ON SENSORY AND MOTOR COMPONENTS OF THEIR CORTICAL CONTROL, COVERT SHIFTS OF ATTENTION AND THEIR INFLUENCES ON CORTICAL ACTIVATIONS
S. Ohlendorf, O. Speck, S. Haller and H. Kimmig, Freiburg, Basel (CH) and Luebeck

35B DOES FEATURE-BASED ATTENTION OPERATE AT IGNORED LOCATIONS?
K. Boelmans, H-J. Heinze, SJ. Luck and J-M. Hopf, Magdeburg and Iowa City, IA (USA)

36B ADVANCING DYNAMIC BINDING THEORY: IMPLEMENTATION OF COMPLEX CONCEPTS
A. Maye, M. Werning, P. König and AK. Engel, Berlin, Düsseldorf, Osnabrück and Hamburg

37B VISUAL PERCEPTIONS IN BLIND: FROM SENSORY DEPRIVATION TO VISUAL ACTIVITY.
A. Alfaro-Sáez, R. Climent, H. Vilanova, L. Concepción, M. Bongard and E. Fernández, Alicante (E)

38B SEQUENCE LEARNING AS A BASE FOR OBJECT INVARIANCE CODING IN A NETWORK OF SPIKING NEURONS
F. Michler and R. Eckhorn, Marburg

39B A RECURRENT NEURAL NETWORK ENCODING BORDER OWNERSHIP OF VISUAL OBJECTS
T. Zwickel and R. Eckhorn, Marburg

S20: Amyotrophic Lateral Sclerosis (ALS) and Motoneuron Disease: From basic molecular and cellular mechanisms to novel clinical applications

40B MOLECULAR CHARACTERISATION OF THE HSOD1(G93A) TRANSGENIC MOUSE MODEL OF HUMAN FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS (FALS) USING GENE EXPRESSION PROFILING
B. Spielbauer, J. Landgrebe and BU. Keller, Göttingen

41B RAPID CCD FLUORESCENCE IMAGING REVEALS FUNCTIONAL IMPAIRMENT OF MITOCHONDRIA IN THE ADULT SOD1 G93A MOUSE MODEL OF HUMAN AMYOTROPHIC LATERAL SCLEROSIS (ALS)
MK. Jaiswal, S. Balakrishnan and BU. Keller, Göttingen

42B IN VIVO INVESTIGATIONS ON THE MONOSYNAPTIC REFLEX OF THE ADULT SOD1 G93A MOUSE MODEL OF HUMAN AMYOTROPHIC LATERAL SCLEROSIS (ALS)
H. Steffens, BU. Keller and ED. Schomburg, Göttingen

43B PROTECTIVE EFFECT OF THE PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR GAMMA (PPARGAMMA) AGONIST PIOGLITAZONE IN A MOUSE MODEL OF AMYOTROPHIC LATERAL SCLEROSIS
B. Schütz, MT. Heneka, GE. Landreth and A. Zimmer, Bonn and Cleveland, OH (USA)

S21: What the nose tells the brain: News and views in olfactory coding

44B A SPECIFIC HEAT SHOCK PROTEIN AS EXPRESSION ENHANCER OF MAMMALIAN OLFACTORY RECEPTOR PROTEINS
W. Zhang, A. Mashukova, J. Barbour, H. Hatt and EM. Neuhaus, Bochum

45B TAU PATHOLOGY IN THE OLFACTORY SYSTEM CORRELATES WITH ALZHEIMER PATHOLOGY
KA. Jellinger and J. Attems, Vienna (A)

46B INDIVIDUAL OLFACTORY SENSORY NEURONS PROJECT INTO MORE THAN ONE GLOMERULUS IN XENOPUS LAEVIS TADPOLE OLFACTORY BULB
LP. Nezlin and D. Schild, Göttingen

47B SPATIOTEMPORAL RESPONSE PROPERTIES OF OPTICALLY RECORDED MOTH PROJECTION NEURONS
P. Knüsel, MA. Carlsson, BS. Hansson and PFMJ. Verschure, Zürich (CH) and Alnarp (S)

48B TOWARDS PREDICTING OLFACTORY RECEPTOR RESPONSES
M. Schmuker and G. Schneider, Frankfurt/Main

S22: Function of the glial cell line derived neurotrophic factor family in development and disease

49B APPLICATION OF A BLOOD-BRAIN-BARRIER-PENETRATING FORM OF GDNF IN AN IN VIVO MODEL FOR PARKINSON'S DISEASE
GPH. Dietz, PC. Valbuena, K. Meuer, JH. Weishaupt and M. Bähr, Göttingen

50B FETAL ANTIGEN-1 EXPRESSING CELLS IN RAT VENTRAL MESENCEPHALIC CULTURES: NEURAL PHENOTYPE IDENTIFICATION AND EFFECTS OF GDNF FAMILY LIGANDS.
A. Ducray, M. Meyer, B. Teisner, CH. Jensen and H. Widmer, Bern (CH) and Odense (DK)

S23: Possible mechanisms contributing to memory consolidation during sleep

51B OVERNIGHT VERBAL BUT NOT VISUAL MEMORY RETENTION CORRELATES WITH THE NUMBER OF SLEEP SPINDLES
Z. Clemens, D. Fabó and P. Halász, Budapest (H)

52B THE TRANSMEMBRANE FORM OF AGRIN REORGANIZES THE CYTOSKELETON IN NEURONS AND NON-NEURONAL CELLS
R. Ramseger, M. Annies, S. Wöll, J. Löschinger and S. Kröger, Mainz and Tübingen

53B PROCEDURAL MOTOR SKILL LEARNING IS ASSOCIATED WITH REM-SLEEP IN HEALTHY OLDER ADULTS
OP. Hornung, F. Regen, H. Danker-Hopfe, M. Schredl and I. Heuser, Berlin and Mannheim

54B SLEEP SPINDLE ACTIVITY AFTER DIFFERENT LEARNING EXPERIENCES IN RATS
O. Yeshenko and SJ. Sara, Paris (F)

S24: Comparative insights into genetic and activity-dependent mechanisms of CNS development

55B ARE CHANGING BEHAVIORUAL DEMANDS SUPPORTED BY POSTEMBRYONIC REMODELLING OF NEURONAL STRUCTURE?
JF. Evers, A. Maye, S. Schönknecht, M. Sibila and C. Duch, Berlin

PSA1: Mechanoreception and somatosensory systems

60B PERCEPTUAL CHANGES IN HUMAN TACTILE DISCRIMINATION BEHAVIOR INDUCED BY COACTIVATION USING LTP- AND LTD-PROTOCOLS
P. Ragert, T. Kalisch and HR. Dinse, Bochum

61B ASYMMETRIC LEARNING TRANSFER BETWEEN HANDS OF COACTIVATION-INDUCED CHANGES IN TACTILE DISCRIMINATION THRESHOLDS
P. Ragert, T. Kalisch and HR. Dinse, Bochum

62B END-EFFECT SUPPRESSION IN A MULTIPLE CHOICE REACTION TIME TASK INDUCED BY TACTILE COACTIVATION
P. Ragert, S. Franzkowiak, C. Heinisch, T. Kalisch, C. Wilimzig, G. Schöner and HR. Dinse, Bochum

63B DYNAMIC FIELD THEORY: THE END EFFECT AND ITS LEARNING-INDUCED MODULATION EXPLAINED BY TASK INFORMATION
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64B RAPID RESPONSES OF THE CUPULA IN THE LATERAL LINE OF RUFFE
B. Curcic-Blake and SM. van Netten, Groningen (NL)

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65B ACTIVITY OF MODULATORY NEURONS DURING LEG MOVEMENTS IN THE STICK INSECT
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66B BIOMECHANICS AND MOTOR CONTROL OF TARGETED LIMB MOVEMENTS IN THE LOCUST
J. Zakotnik, K. Page, T. Matheson and V. Dürr, Bielefeld, Cambridge (UK) and Leicester (UK)

67B DENDRITIC AND SYNAPTIC REMODELLING DURING DEVELOPMENTAL CHANGES IN FUNCTION OF AN IDENTIFIED INSECT MOTONEURON
M. Meseke, JF. Evers, S. Mapfumo and C. Duch, Berlin

68B ANT ODOMETRY: IS LOCOMOTOR ACTIVITY A NECESSARY PREREQUISITE?
T. Seidl and R. Wehner, Zurich (CH)

69B DOWNSTREAM EFFECTS OF ECDYSTEROIDS ON MOTONEURON STRUCTURE IN MANDUCA CELL CULTURE
T. Puschmann and C. Duch, Berlin

70B INSTANTANEOUS FLIGHT POWER IN THE FRUIT FLY DROSOPHILA
SN. Fry, R. Sayaman and MH. Dickinson, Zürich (CH) and Pasadena (USA)

71B UNCONSCIOUS MOTOR ADAPTATION IN GRASPING: A FUNCTION OF TASK PRECISION REQUIREMENTS?
C. Weigelt and O. Bock, Cologne

72B TRANSFER OF SENSORIMOTOR ADAPTATION BETWEEN SENSORY MODALITIES
G. Schmitz, P. Vogt and O. Bock, Köln

73B THE DORSAL EXTENSOR MUSCULATURE OF IDOTEA (CRUSTACEA, ISOPODA) BASED ON SINGLE FIBER ANALYSIS
S. Kreissl, M. Bernhardt, M. Schmäh, T. Mueller and W. Rathmayer, Konstanz

74B NEURON DEFICITS IN MICE LACKING GROWTH/ DIFFERENTIATION FACTOR-15
J. Strelau, A. Strzelczyk, O. von Bohlen und Halbach and K. Unsicker, Heidelberg

75B BIOMECHANICS AND LOW-LEVEL CONTROL OF BIPEDAL LOCOMOTION
J. Haß, JM. Herrmann and T. Geisel, Göttingen

76B ISOMETRIC FORCE PRODUCTION DURING HYPER-G
S. Göbel, O. Bock, M. Girgenrath, D. Sand and H. Pongratz, Köln

77B DEEP BRAIN STIMULATION OF THE SUBTHALAMIC NUCLEUS MODULATES GENE EXPRESSION AND REVERSES LIMB USE-ASYMMETRY IN RATS WITH UNILATERAL 6-HYDROXYDOPAMINE LESIONS.
J. Henning, D. Koczan, A. Rolfs and U. Gimsa, Rostock

78B COHERENT OSCILLATORY ACTIVITY ALONG THE CORTICO-STRIATAL AXIS OF THE RAT IN RELATION TO DIFFERENT BRAIN-STATES.
G. Engler, CKE. Moll and AK. Engel, Hamburg

79B INFLUENCE OF EXTRACELLULAR POTASSIUM ON THE BEHAVIOR OF SUBTHALAMIC NEURONS FROM 6-OHDA LESIONED AND NON-LESIONED RATS UNDER DEEP BRAIN STIMULATION
F-W. Zhou, U. Strauss, A. Wree, R. Benecke, A. Rolfs and U. Gimsa, Rostock

80B ADAPTIVE OPTIMAL CONTROL METHODS ELUCIDATE SENSORIMOTOR LEARNING PHENOMENA
D. Braun, A. Aertsen, S. Rotter and C. Mehring, Freiburg

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81B INTERSEGMENTAL COORDINATION OF WALKING IN THE STICK INSECT CARAUSIUS MOROSUS: THE INFLUENCES OF SINGLE WALKING LEGS ON THE MOTONEURONS OF THE OTHER HEMISEGMENTS
A. Borgmann, H. Scharstein and A. Büschges, Cologne

82B NONSPIKING INTERNEURONS AND THE LOCAL CONTROL OF EXTENSOR TIBIAE MOTONEURON ACTIVITY DURING SINGLE LEG WALKING IN THE STICK INSECT
GBG. von Uckermann and A. Büschges, Cologne

83B INTERSEGMENTAL INFLUENCE OF TONIC AND PHASIC MODULATION ON LEG MOTONEURONS IN WALKING STICK INSECTS
S. Westmark, BC. Ludwar and J. Schmidt, Köln

84B REGIONAL DIFFERENCES OF THY1.2 DRIVEN TRANSGENIC FLUORESCENT PROTEIN EXPRESSION IN NEURONS OF THE MEDULLA OBLONGATA OF MICE
SM. Winter, J. Hirrlinger, F. Kirchhoff and S. Hülsmann, Göttingen

85B INFLUENCE OF POSTNATAL AGE ON THE EXPRESSION OF PLASTICITY WITHIN THE CENTRAL PATTERN GENERATOR FOR BREATHING IN RAT.
M. Mörschel and M. Dutschmann, Göttingen

86B OREXIN B EVOKED MODULATION OF RESPIRATORY ACTIVITY IN A IN SITU PERFUSED BRAINSTEM PREPARATION OF RAT
M. Mörschel, M. Kron, C. Gestreau and M. Dutschmann, Göttingen and Marseille (F)

87B DYNAMIC SYSTEMS PERSPECTIVES IN TREATMENT OF CHILDREN WITH CEREBRAL PALSY
S. Bar-Haim, N. Harries, A. Frank and J. Kaplanski, Zerifin (IL)

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88B BURST ENCODING IN THE METATHORACIC GANGLION OF GRASSHOPPERS
F. Creutzig, J. Benda and AVM. Herz, Berlin

89B THE INFLUENCE OF NOISY SIGNAL ENVELOPES ON SONG PATTERN RECOGNITION - A COMPARISON BETWEEN THE BEHAVIORAL AND NEURONAL LEVEL
D. Neuhofer, M. Stemmler and B. Ronacher, Berlin

90B TEMPORAL RESOLUTION AND PROCESSING CAPACITIES OF AUDITORY INTERNEURONS OF THE LOCUST
S. Wohlgemuth and B. Ronacher, Berlin

91B SPIKE LATENCY AND THE NEURAL CONNECTIVITY IN THE AUDITORY PATHWAY OF LOCUST
S. Glauser, M. Hennig, AVM. Herz and J. Benda, Berlin

92B CHANGES OF THE INTENSITY-RESPONSE CURVE OF AN AUDITORY INTERNEURON (AN2) IN CRICKETS INDUCED BY ADAPTING SOUND STIMULI
L. Schwabe, K. Obermayer and M. Hennig, Berlin

93B A RECURRENT NETWORK MODEL OF SURROUND-SUPPRESSION IN THE MACAQUE STRIATE CORTEX MEDIATED BY INTER-AREAL AND INTRA-AREAL INTERACTIONS
L. Schwabe, A. Angelucci, P. Bressloff and K. Obermayer, Berlin and Salt Lake City (USA)

94B PERCEPTUAL LEARNING AND ATTENTION EXPLAINED AS A DYNAMIC RE-CALIBRATION OF THE VISUAL SYSTEM AT DIFFERENT TIME-SCALES
L. Schwabe and K. Obermayer, Berlin

95B NEURAL REPRESENTATION AND FILTERING OF SIMPLE TEMPORAL PATTERNS IN THE LOWER AUDITORY PATHWAY OF CRICKETS
KJ. Hildebrandt and RM. Hennig, Berlin

PSA6: Audition and vocalization in birds and mammals: Periphery

96B ABSOLUTE HEARING THRESHOLDS AND THEIR RELATIONSHIP TO THE HUNTING BEHAVIOUR OF THE COMMON VAMPIRE BAT DESMODUS ROTUNDUS
U. Gröger and L. Wiegrebe, Planegg-Martinsried

97B TONOTOPIC FREQUENCY MAPPING ON THE BASILAR MEMBRANE OF THE CBA/J MOUSE MEASURED BY HRP LABELLING OF AUDITORY NERVE FIBRES
M. Müller, K. von Hünerbein, S. Hoidis and JWT. Smolders, Frankfurt/Main

98B AN INCREASED ENDOCOCHLEAR POTENTIAL IN BARN OWLS
C. Köppl, Garching

PSA7: Audition and vocalization in birds and mammals: CNS and perception

99B EFFECTS OF CARBOPLATIN ON ABR AND LOCAL FIELD POTENTIALS IN NEURONS OF THE INFERIOR COLLICULUS OF AWAKE CHINCHILLAS
D. Biedenkapp, AA. Khatib, UW. Biebel and JWT. Smolders, Frankfurt/Main

100B DISCRIMINATION OF ECHO ROUGHNESS IN THE FRUIT-EATING BAT PHYLLOSTOMUS DISCOLOR
S. Schörnich and L. Wiegrebe, Planegg-Martinsried

101B COMODULATION MASKING RELEASE IN THE HOUSE MOUSE (MUS MUSCULUS)
V. Weik, KB. Klink and GM. Klump, Oldenburg

102B A PARAMETRIC STUDY OF ELECTRICALLY EVOKED ACTIVITY IN GERBIL AUDITORY CORTEX
A. Engelhorn, D. Ensberg, M. Deliano, H. Scheich and FW. Ohl, Magdeburg

103B INVESTIGATING THE INFLUENCE OF SPATIAL ATTENTION ON THE PROCESSING OF FREQUENCY-MODULATED TONES IN THE RAT
W. von der Behrens and B. Gaese, Frankfurt/Main

104B NEURAL REPRESENTATIONS OF TEMPORALLY MODULATED SOUNDS IN THE AUDITORY CORTEX OF MACAQUE MONKEYS: EFFECTS OF KETAMINE ANESTHESIA.
E. Oshurkova, H. Scheich and M. Brosch, Magdeburg

105B THE RELATIONSHIP OF PSYCHO-PHYSIOLOGICAL RESPONSES AND SELF-REPORTED EMOTIONS WHILE LISTENING TO MUSIC
F. Nagel, O. Grewe, R. Kopiez and E. Altenmüller, Hannover

106B SEMANTIC MEANING CAUSES DIFFERENT STRATEGIES OF ECHO SUPPRESSION IN ECHOLOCATING BATS
M. Schuchmann, MM. Hübner and L. Wiegrebe, Planegg-Martinsried

107B POSSIBLE ANATOMICAL SUBSTRATES OF HEMISPHERIC LATERALIZATION IN MONGOLIAN GERBIL AUDITORY CORTEX
A. Laszcz, E. Budinger, J. Goldschmidt, FW. Ohl, M. Schildt, W. Wetzel, W. Zuschratter and H. Scheich, Magdeburg

108B HORMONE-RELATED PLASTICITY OF SONG REPRESENTATION AND SELECTIVITY IN HVC OF MALE AND FEMALE CANARIES
B. Diekamp, JJ. Sartor, GF. Ball and ES. Fortune, Baltimore, MD (USA)

109B CATECHOLAMINERGIC PROJECTIONS TO THE VOCAL CONTROL NUCLEUS AREA X IN ZEBRA FINCHES (TAENIOPYGIA GUTTATA) AND THEIR SIGNIFICANCE FOR SOCIAL MODULATION OF IMMEDIATE-EARLY GENE EXPRESSION ASSOCIATED WITH SONG
CB. Castelino, B. Diekamp and GF. Ball, Baltimore, MD (USA)

110B MAINTENANCE OF HVC VOLUME IN DEVOCALIZED ZEBRA FINCHES BY NIGHT PLAYBACK OF THE BIRD'S OWN LEARNED SONG
ES. Fortune, B. Diekamp, JJ. Sartor and GF. Ball, Baltimore, MD (USA)

111B SOUND LATERALIZATION FOLLOWING HEMISPHERECTOMY, CALLOSOTOMY, OR CALLOSAL AGENESIS
M. Hausmann, MC. Corballis, A. Paggi, M. Fabri and J. Lewald, Bochum, Auckland (NZ), Ancona (I) and Dortmund

112B MECHANO-ELECTRICAL TRANSDUCTION OF MOUSE COCHLEAR HAIR CELLS
CJW. Meulenberg, Groningen (NL)

113B ANALYSIS OF PROTEIN PATTERNS IN THE RAT AUDITORY BRAINSTEM AND CEREBELLUM
M. Becker, MFH. Müller, HG. Nothwang and E. Friauf, Kaiserslautern

114B SERIAL ANALYSIS OF GENE EXPRESSION (SAGE) IN THE RAT AUDITORY BRAINSTEM
A. Koehl, A. Rieger, N. Schmidt, E. Friauf and HG. Nothwang, Kaiserslautern

115B CATEGORIZATION OF FREQUENCY MODULATED TONES IN SCHIZOPHRENIA
JD. Albrecht, B. Bogerts, H. Bielau, U. Mertens, K. Schiltz, S. Diekmann, H. Scheich and A. Brechmann, Magdeburg

PSA8: Lateral line systems; Vestibular systems

116B DISCRIMINATION OF TWO SIMULTANEOUS WATER SURFACE WAVES IN THE CLAWED FROG, XENOPUS LAEVIS LAEVIS
A.Elepfandt, S. Lebrecht, K. Schroedter and B. Brudermanns, Berlin

117B SENSORY-MOTOR TRANSFER FOR TURN RESPONSES TO TWO NON-VISUAL STIMULI IN THE CLAWED FROG, XENOPUS LAEVIS LAEVIS
A. Elepfandt, B. Hellmann and F. Seifarth, Berlin

118B TWO CODING STRATEGIES FOR COMMUNICATION SIGNALS IN A POPULATION RATE CODE
J. Benda, A. Longtin and L. Maler, Berlin and Ontario (CDN)

119B SPIKE-FREQUENCY ADAPTATION IN THE AUDITORY PREPROCESSING MODULE OF CRICKETS
J. Benda and RM. Hennig, Berlin

PSA9: Chemosensory and thermosensory systems

120B TEMPORAL SHARPENING OF PLANT-ODOUR REPRESENTATIONS IN MOTH OUTPUT NEURONS
MA. Carlsson and BS. Hansson, Alnarp (S)

121B ANALYSIS OF THE MOUSE OLFACTORY RECEPTOR ASSOCIATED MICRO-PROTEOME
J. Barbour, B. Warscheid, K. Stühler, H. Meyer, D. Wolters, H. Hatt and E. Neuhaus, Bochum

122B VIRAL TRACING OF MOUSE PRIMARY AFFERENT NEURONS ALLOWS FUNCTIONAL ANALYSIS IN CELL CULTURE
N. Damann, B. Klupp, H. Hatt, TC. Mettenleiter and CH. Wetzel, Bochum and Insel Riems

123B MODULATION OF ANKTM1 GATING BY INTRA- AND EXTRACELLULAR CA2+
JF. Dörner, H. Hatt and CH. Wetzel, Bochum

124B INVESTIGATIONS ON PRESENCE AND FUNCTION OF NITRIC OXIDE IN THE OLFACTORY SYSTEM OF MICE
C. Brunert, P. Kleinbongard, M. Kelm, N. Damann, H. Hatt and CH. Wetzel, Bochum and Düsseldorf

125B EARLY FUNCTIONAL DEVELOPMENT OF CHEMOTOPY IN THE ZEBRAFISH OLFACTORY BULB
J. Li, JA. Mack, M. Souren, S. Higashijima, G. Mandel, JR. Fetcho and RW. Friedrich, Heidelberg and Stony Brook, NY (USA)

126B PHARMACOLOGICAL INVESTIGATION OF MECHANISMS UNDERLYING TEMPORAL PATTERNING OF MITRAL CELL RESPONSES IN THE ZEBRAFISH OLFACTORY BULB
R. Tabor and RW. Friedrich, Heidelberg

127B FUNCTIONAL MORPHOLOGY OF THE RHINOPHORE OF APLYSIA PUNCTATA
A.Wertz, W. Rössler and U. Bickmeyer, Helgoland and Würzburg

128B RESPONSE PROPERTIES RATHER THAN SPATIAL POSITION DETERMINE CONNECTIVITY BETWEEN OLFACTORY GLOMERULI
C. Linster, S. Sachse and CG. Galizia, Ithaca (USA), New York (USA) and Riverside (USA)

129B SINGLE-CELL TRANSCRIPTIONAL ANALYSIS OF REGENERATING MOUSE OLFACTORY SENSORY NEURONS
N. Haag and F. Weth, Jena

130B THE ROLE OF OCTOPAMINE IN THE PHEROMONE TRANSDUCTION OF TRICHOID SENSILLA OF MANDUCA SEXTA
C. Flecke, J. Schuckel, J. Seyfarth and M. Stengl, Marburg

131B DIACYLGLYCEROL IN MOTH OLFACTORY TRANSDUCTION
S. Krannich, P. Lucas and M. Stengl, Versailles (F) and Marburg

132B EXPERIENCE-DEPENDENT PLASTICITY IN THE ANTENNAL LOBE OF DROSOPHILA MELANOGASTER
S. Sachse, A. Keller and LB. Vosshall, New York, NY (USA)

133B GENETIC ANALYSIS OF ODOUR-EVOKED BEHAVIORS IN DROSOPHILA
A. Keller and LB. Vosshall, New York, NY (USA)

134B NITRIC OXIDE MODULATES SODIUM CHLORIDE TASTE SENSITIVITY
H. Schuppe, M. Cuttle and PL. Newland, Southampton (UK)

135B EXPRESSION OF OLFACTORY RECEPTORS IN THE CRIBRIFORM MESENCHYME DURING PRENATAL DEVELOPMENT
K. Schwarzenbacher, J. Fleischer, S. Conzelmann and H. Breer, Stuttgart

136B ONTOGENETIC PLASTICITY OF PRIMARY AND SECONDARY OLFACTORY CENTERS IN THE HONEYBEE BRAIN
C. Groh, B. Müller and W. Rössler, Würzburg

137B SUBSETS OF ANTENNAL-LOBE GLOMERULI PROJECT VIA DIFFERENT OUTPUT-TRACTS IN THE HONEYBEE BRAIN
S. Kirschner, C. Zube, CJ. Kleinendam, B. Grünewald and W. Rössler, Würzburg and Berlin

138B PHENOTYPIC PLASTICITY OF THE ANTENNAL LOBE AND ITS BEHAVIORAL SIGNIFICANCE IN LEAF-CUTTING ANTS
CJ. Kleineidam, M-L. Obermayer, W. Halbich and W. Rössler, Würzburg

139B FUNCTIONAL ORGANIZATION OF POREPLATE SENSILLA IN THE HONEYBEE APIS MELLIFERA
C. Kelber, W. Rössler and CJ. Kleineidam, Würzburg

140B SYNAPTIC PLASTICITY IN OLFACTORY CENTERS OF THE ADULT ANT BRAIN
A. Weibel, CJ. Kleineidam and W. Rössler, Würzburg

PSA10: Visual systems of invertebrates: Periphery

141B RHABDOMERE TWISTING OF THE R1-R6 PHOTORECEPTORS IN THE DROSOPHILA EYE DEPENDS ON INTERACTION WITH THE R8 PHOTORECEPTOR
O. Baumann and K. Führer, Golm

142B SEXUAL DICHROISM OF PIERID BUTTERFLIES
DG. Stavenga, Groningen (NL)

143B SPATIAL RESOLUTION OF THE EYES OF FLIES, BEES AND BUTTERFLIES
B.Wijnen, JE. Niven and DG. Stavenga, Groningen (NL) and Cambridge (UK)

144B BUTTERFLY WING COLOURING BY SCATTERING, PIGMENT ABSORPTION AND MULTILAYER REFLECTION IN PIERIDS
MA. Giraldo and DG. Stavenga, Groningen (NL)

145B THE NUMEROUS SPECTRAL AND POLARIZATION SENSITIVITIES WITHIN THE TRIPARTITE EYES OF GONGODACTYLOID STOMATOPODS (MANTIS SHRIMPS)
S. Kleinlogel and NJ. Marshall, St. Lucia (AUS)

146B A MODEL OF THE LOBULA GIANT MOVEMENT DETECTOR NEURON OF THE LOCUST BASED ON REICHARDT CORRELATION
S. Bermudez i Badia and PFMJ. Verschure, Zürich (CH)

147B HONEYBEES GENERALIZE CLOSED SHAPES AMONG DIFFERENT TYPES OF CONTRAST
M. Lehrer, Zürich (CH)

PSA11: Visual systems of invertebrates: Central areas and perception

148B IS THE ANTERIOR OPTIC TRACT ESSENTIAL FOR POLARO-TACTIC FLIGHT BEHAVIOR IN THE DESERT LOCUST SCHISTOCERCA GREGARIA?
M-S. Mappes and U. Homberg, Marburg

149B ANALYSIS OF THE FRUITFLY RETINAL TRANSCRIPTOME
T. Roeder, H. Marquardt and G. Schramm, Marburg

150B INHERITING RECEPTIVE FIELDS FROM NEIGHBOURS: HOW LOBULA PLATE TANGENTIAL CELLS ARE TUNED TO WIDE-FIELD MOTION
K. Farrow, J. Haag and A. Borst, Martinsried

151B GENETICALLY ENCODED CALCIUM PROBES IN THE VISUAL SYSTEM OF DROSOPHILA
DF. Reiff, A. Ihring, J. Haag and A. Borst, Martinsried

152B IN VIVO CHARACTERIZATION OF A GFP-BASED REPORTER MOLECULE OF NEURAL ACTIVITY BY SEQUENTIAL EPIFLUORESCENCE- AND 2P- IMAGING
T. Hendel, A. Ihring, A. Borst and DF. Reiff, Martinsried

153B DO MONARCH BUTTERFLIES USE POLARIZED SKYLIGHT FOR MIGRATORY ORIENTATION?
J. Stalleicken, M. Mukhida, T. Labhart, R. Wehner, B. Frost and H. Mouritsen, OIdenburg, Kingston (CDN) and Zurich (CH)

154B POLARIZATION-SENSITIVE NEURONS IN THE CENTRAL COMPLEX OF THE CRICKET, GRYLLUS BIMACULATUS
M. Sakura and T. Labhart, Zurich (CH)

155B CRICKET POLARIZATION VISION UNDER DIFFICULT STIMULUS CONDITIONS
MJ. Henze and T. Labhart, Zurich (CH)

PSA12: Visual systems of vertebrates: Periphery

156B EXPRESSION AND LOCALIZATION OF THE SCAFFOLD PROTEIN HARMONIN AND ITS INTERACTION PARTNERS AT SYNAPSES
J. Reiners, J. Harf, T. Märker, K. Jürgens and U. Wolfrum, Mainz

157B LIGHT-DEPENDENT PHOSPHORYLATION OF CENTRINS IN MAMMALIAN PHOTORECEPTOR CELLS
P. Trojan, S. Rausch, A. Gießl, A. Pulvermüller, K-P. Hofmann and U. Wolfrum, Mainz and Berlin

158B DIFFERENTIAL EXPRESSION AND CA2+-DEPENDENT INTERACTION OF THE VISUAL G-PROTEIN TRANSDUCIN WITH CENTRIN ISOFORMS IN MAMMALIAN PHOTORECEPTOR CELLS
A. Gießl, A. Pulvermüller, P. Trojan, KP. Hofmann and U. Wolfrum, Mainz and Berlin

159B LIGHT-INDUCED TRANSLOCATION OF THE SIGNAL TRANSDUCTION PROTEINS TRANSDUCIN AND ARRESTIN ANALYZED IN PHOTORECEPTOR CELLS OF ORGANOTYPICAL RETINA CULTURE
B. Reidel, A. Gießl, P. Trojan and U. Wolfrum, Mainz

160B THE SCAFFOLD PROTEIN HARMONIN (USH1C) ALSO INTEGRATES USHER SYNDROME 2 PROTEINS INTO SYNAPTIC USHER PROTEIN COMPLEXES IN RETINAL PHOTORECEPTOR CELLS
T. Märker, J. Reiners, K. Jürgens, N. Overlack, T. Goldmann and U. Wolfrum, Mainz

161B GLYCINE HAS NO EFFECT ON CONTRAST-SENSITIVITY OF GOLDFISH MEASURED WITH THE OPTOMOTOR RESPONSE
R-B. Schmidt-Hoffmann and C. Mora-Ferrer, Mainz

162B EFFECTS OF GLUTAMATE ANTAGONISTS ON GOLDFISH TEMPORAL TRANSFER PROPERTIES MEASURED WITH THE ERG
C. Mora-Ferrer, C. Albrecht, B. Benkner, B. Lux, M. Gruber and K. Behrend, Mainz

163B CONNEXIN45 DEFICIENCY IN RETINAL NEURONS LEADS TO IMPAIRED VISUAL TRANSMISSION
K.Dedek, S.Maxeiner, U.Janssen-Bienhold, J.Ammermüller, K.Willecke and R.Weiler, Oldenburg and Bonn

164B INTRACELLULAR CALCIUM IS REGULATED BY DIFFERENT PATHWAYS IN HORIZONTAL CELLS OF THE MOUSE RETINA
T. Schubert, R. Weiler and A. Feigenpan, Oldenburg

165B RETINAL GANGLION CELL BURST PATTERNS ARE REPRODUCED BY A COMPUTATIONAL MODEL OF INTRARETINAL PROCESSING
A.Thiel, M.Greschner and J. Ammermüller, Oldenburg

166B COMPARISON OF RETINAL GANGLION CELL RESPONSES FROM BASSOON DEFICIENT AND WILD TYPE MICE
L. van Ahrens, MT. Ahlers, M. Greschner, ED. Gundelfinger, JH. Brandstätter, D. Brauner and J. Ammermüller, Oldenburg, Magdeburg and Frankfurt/Main

167B EXPRESSION OF CONNEXINS IN HORIZONTAL CELLS OF THE MOUSE RETINA
J. Shelley, K. Dedek, K. Schultz, P. Dirks, A. Schuldt, U. Janssen-Bienhold and R. Weiler, Oldenburg

168B DISPLACED AMACRINE CELLS OF THE MOUSE RETINA
L. Pérez de Sevilla and R. Weiler, Oldenburg

169B ZO-1 EXPRESSION IN THE VERTEBRATE RETINA AND ITS CO-LOCALIZATION WITH CONNEXIN 43
U. Janssen-Bienhold, V. Gawlik, K. Schultz, P. Dirks and R. Weiler, Oldenburg

170B IMMUNOHISTOCHEMICAL CHARACTERISATION OF CONNEXIN45 EXPRESSING BIPOLAR CELLS IN THE MOUSE RETINA
N.Jährling, K.Dedek, U.Janssen-Bienhold, S. Maxeiner, K.Willecke and R.Weiler, Oldenburg and Bonn

171B DO STABILITY AND SPARSENESS LEAD TO BINOCULAR PROPERTIES OF SIMULATED NEURONS COMPARABLE TO PHYSIOLOGY?
S. Bitzer, M. Goldbach, A. Bühlmann, S. Onat and P. König, Osnabrück and Zürich (CH)

172B REPRESENTATION OF OPTICAL ILLUSIONS BY RETINAL GANGLION CELL POPULATION
M. Bongard and E. Fernandez, San Juan de Alicante (E)

PSA13: Visual systems of vertebrates: Central areas and perception

173B DOES INTRASACCADIC GAMMA POWER INCREASE REFLECT AN INTERNAL MECHANISM OF MOTOR-SENSORY MONITORING?
PB. Forgacs, H. von Gizycki, H. Avitable and I. Bodis-Wollner, Brooklyn, NY (USA)

174B EVENT-RELATED BRAIN POTENTIAL CORRELATES OF ADAPTATION TO FACES AND BODY PARTS
G. Kovács, A. Antal and Z. Vidnyánszky, Budapest (H) and Göttingen

175B GLYCINE RECEPTORS ON AMACRINE CELLS IN THE MOUSE RETINA
J. Weiß and H. Wässle, Frankfurt/Main

176B THE FEEDFORWARD DYNAMICS OF ACTION PRIMING
T. Schmidt, S. Niehaus and A. Nagel, Göttingen

177B SIGNATURES OF SHIFT-TWIST SYMMETRY IN THE LAYOUT OF ORIENTATION PREFERENCE MAPS
M. Schnabel, M. Kaschube, L. White, D. Coppola, S. Loewel and F. Wolf, Göttingen, Durham, NC (USA), Richmond, VA (USA) and Magdeburg

178B THE INFLUENCE OF BRIEF MOTION ADAPTATION ON DIRECTION PERCEPTION
F. Pieper, T. Peters and S. Treue, Göttingen

179B ORIENTATION PREFERENCE MAPS HAVE SENSITIVE SPOTS
M. Kaschube, M. Schnabel, K. Kreikemeier, HR. Dinse, B. Godde, KF. Schmidt, S. Löwel and F. Wolf, Göttingen, Bochum, Tübingen and Magdeburg

180B ANOMALOUS SPIKE INITIATION IN CORTICAL NEURONS
B. Naundorf, M. Volgushev and F. Wolf, Göttingen and Bochum

181B CILIARY NEUROTROPHIC FACTOR PROTECTS RETINAL GANGLION CELLS FROM SECONDARY CELL DEATH DURING ACUTE AUTOIMMUNE OPTIC NEURITIS IN RATS
K. Maier, CR. Rau, MK. Storch, MB. Sättler, I. Demmer, R. Weissert, N. Taheri, AV. Kuhnert, M. Bähr and R. Diem, Göttingen

182B DO STABILITY AND SPARSENESS LEAD TO BINOCULAR PROPERTIES OF SIMULATED NEURONS COMPARABLE TO PHYSIOLOGY?
S. Bitzer, M. Goldbach, A. Bühlmann, S. Onat and P. König, Osnabrück and Zürich (CH)

183B PERCEPTION OF OBJECT-MOVEMENT IN GOLDFISH (CARASSIUS AURATUS)
M. Gehres and C. Neumeyer, Mainz

184B TRAVELING GAMMA-WAVES: STIMULUS-DEPENDENT SIGNAL COUPLING IN MONKEY PRIMARY VISUAL CORTEX
A. Gabriel, A. Gail and R. Eckhorn, Marburg

185B DISCRIMINATION AND PREDICTION OF PERCEPTUAL STATES FROM MULTIPLE-ELECTRODE RECORDINGS IN MONKEY STRIATE CORTEX
A. Kremper, A. Gail and R. Eckhorn, Marburg

186B COMPARISON OF PROJECTION METHODS FOR DIMENSION REDUCTION AND THE DETERMINATION OF LOWER BOUNDS FOR TRANSMITTED SENSORY INFORMATION
A. Kremper and R. Eckhorn, Marburg

187B UNSUPERVISED LEARNING OF CORTICAL COMPLEX CELL PROPERTIES USING SPATIO-TEMPORALLY COHERENT VISUAL STIMULI AND A RECURRENT NETWORK OF SPIKING NEURONS
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188B RELATIONS BETWEEN SPATIAL FREQUENCY PREFERENCE AND SIZE OF SPATIAL-SUMMATION FIELD IN STRIATE CORTEX OF AWAKE MONKEY
T. Teichert, T. Wachtler, A. Gail, M. Wittenberg, F. Michler and R. Eckhorn, Marburg

189B EXTENSIVE PLASTICITY IN ADULT MICE AFTER MONOCULAR DEPRIVATION REVEALED BY OPTICAL IMAGING
SB. Hofer, T. Mrsic-Flogel, T. Bonhoeffer and M. Hübener, Martinsried

190B MAPPING RETINOTOPY IN MOUSE SUPERIOR COLLICULUS WITH OPTICAL IMAGING
TD. Mrsic-Flogel, SB. Hofer, C. Creutzfeldt, T. Bonhoeffer and M. Hübener, Martinsried

191B THE MYSTERY OF MAGNETORECEPTION IN MIGRATORY SONGBIRDS
M. Liedvogel, U. Janssen-Bienhold, G. Feenders, J. Stalleicken, P. Dirks, R. Weiler and H. Mouritsen, Oldenburg

192B MIGRATORY BIRDS USE HEAD SCANS TO DETECT THE DIRECTION OF THE EARTH'S MAGNETIC FIELD
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193B BRAIN ACTIVITY PATTERN DURING MAGNETIC ORIENTATION TASKS IN NIGHT-MIGRATORY SONGBIRDS REVEALS A BRAIN REGION INVOLVED IN NIGHT-TIME VISION
G. Feenders, M. Liedvogel, K. Wada, ED. Jarvis and H. Mouritsen, Oldenburg and Durham, NC (USA)

194B STABILITY OF VISUAL FEATURES AND LEARNING DISPARITY SELECTIVE COMPLEX CELLS
S. Onat, C. Kayser and P. König, Osnabrück and Zurich (CH)

195B SMOOTH PURSUIT EYE MOVEMENTS ELICITED BY ANTICIPATION IN HUMANS AND MONKEYS
S. Freyberg and UJ. Ilg, Tübingen

196B WHAT MEMBRANE POTENTIAL FEATURES TRIGGER A NEURAL ACTION POTENTIAL IN VIVO?
H. Fröhlich, B. Naundorf, M. Volgushev and F. Wolf, Tübingen, Göttingen and Bochum

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A. Nieder, Tübingen

198B CROSS-MODAL INTEGRATION IN OVERT ATTENTION UNDER NATURAL CONDITIONS
K. Tichacek, S. Onat and P. König, Osnabrück

199B FACE PERCEPTION IS MEDIATED BY A DISTRIBUTED CORTICAL NETWORK
CF. Schmidt, P. Boesiger and A. Ishai, Zurich (CH)

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200B RNAI-MEDIATED SUPPRESSION OF RDS/PERIPHERIN AND RHODOPSIN IN PHOTORECEPTOR CELLS
M. Ader, A. Palfi, A-S. Kiang, P. Humphries and J. Farrar, Dublin (IRL)

201B SPOTTING ABNORMAL VISUAL PATHWAYS IN HUMANS WITH MULTIFOCAL VISUAL EVOKED POTENTIALS
MB. Hoffmann, B. Lorenz and P. Seufert, Magdeburg, Regensburg and Freiburg

202B A NOVEL COMPUTATIONAL MODEL FOR THE DEVELOPMENT OF TOPOGRAPHIC NEURAL MAPS BASED ON PROPERTIES OF THE RETINOTECTAL PROJECTION
C. Gebhardt and F. Weth, Jena

203B VELOCITY PLOTS OF NEURONAL REGENERATION OF MONKEY AND RAT RETINAL GANGLION CELL AXONS IN ORGAN CULTURE
GF. Volk, K. Rose, U. Schroer and S. Thanos, Münster

204B PHYSIOLOGICALLY INSPIRED MODEL FOR THE PROTOTYPE-REFERENCED ENCODING OF FACE SPACES
MA. Giese and DA. Leopold, Tübingen and Betheda, MA (USA)

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205B PRECISE SPIKE TIMING WITH EXACT SUBTHRESHOLD INTEGRATION N DISCRETE TIME NETWORK SIMULATIONS
A. Morrison, J. Hake, S. Straube, HE. Plesser and M. Diesmann, Freiburg and As (N)

206B HETEROGENEITY BREAKS GLOBAL SYNCHRONY IN LARGE NETWORKS
T. Tetzlaff, TTA. Morrison, M. Timme and M. Diesmann, Freiburg and Göttingen

207B TIME-SCALE DEPENDENCE OF INTER-NEURONAL SPIKE CORRELATIONS
T. Tetzlaff, A. Aertsen and M. Diesmann, Freiburg

208B DYNAMICS OF RATE AND CORRELATION IN BALANCED RANDOM NETWORKS
D. Schöner, T. Tetzlaff, A. Aertsen and M. Diesmann, Freiburg

209B BOUNDARY DEFINITION AND NEURONAL MORPHOLOGY OF SUB AREAS OF THE RAT PREFRONTAL CORTEX
C. Perez-Cruz, U. Heilbronner, J. Müller-Keuker, G. Flügge and E. Fuchs, Göttingen

210B ON NEURONAL MECHANISMS DETERMINING SYNCHRONIZATION DYNAMICS IN CORTICAL FEED-FORWARD NETWORKS
S. Goedeke, T. Geisel and M. Diesmann, Göttingen and Freiburg

211B FREQUENCY-SPECIFIC ACTIVITY OF THE AUDITORY PATHWAY WITH AUDITORY MIDBRAIN IMPLANTS
U. Reich, N. Marquardt, M-N. Klingberg, G. Paasche, M. Lenarz, T. Lenarz and G. Reuter, Hannover

212B SPATIOTEMPORAL PATTERNS IN AUDITORY CORTICAL ACTIVITY AFTER DISCRIMINATION LEARNING OF AUDITORY STIMULI AND OF INTRACORTICALLY APPLIED ELECTRICAL STIMULI
M. Deliano, A. Engelhorn, D. Ensberg, H. Scheich and FW. Ohl, Magdeburg

213B SEROTONERGIC MODULATION OF INTRINSIC PROPERTIES AND ITS EFFECT ON THE SIGNAL PROCESSING IN DEEP CEREBELLAR NUCLEUS NEURONS.
M-L. Lee, H-P. Thier and V. Gauck, Tübingen

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214B SEIZURE-RELATED INFLUENCES ON FEAR BEHAVIOR AND THETA SYNCHRONIZATION IN A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY
MF. Geiger, T. Seidenbecher and H-C. Pape, Magdeburg

215B PATTERNS OF THETA SYNCHRONISATION IN AMYGDALO-HIPPOCAMPAL-PREFRONTAL CORTICAL CIRCUITS DURING CONSOLIDATION OF FEAR MEMORY AND EXTINCTION
RT. Narayanan, T. Seidenbecher, O. Stork and H-C. Pape, Magdeburg

216B LTP AND REINFORCEMENT OF EARLY-LTP BY STIMULATION OF VENTRAL TEGMENTAL AREA IN FREELY MOVING RATS IN VIVO.
S. Kostenko, JU. Frey and S. Frey, Magdeburg

217B INVOLVEMENT OF SOMATOSTATIN IN FORMATION OF CONTEXTUAL FEAR MEMORY
C. Stoppel, O. Stork and H-C. Pape, Magdeburg

218B CONTRIBUTION OF SOMATOSTATIN TO LONG TERM POTENTIATION IN THE MOUSE HIPPOCAMPUS
C. Kluge, C. Szinyei and H-C. Pape, Magdeburg

219B MOLECULAR AND PHYSIOLOGICAL DIVERSITY OF NEURONS IN THE RAT LATERAL AMYGDALA REVEALED BY ELECTROPHYSIOLOGICAL, SINGLE-CELL RT PCR AND CLUSTER ANALYSIS
L. Sosulina, S. Meis and H-C. Pape, Magdeburg

220B THE NEURAL BASIS OF FOX ODOUR-INDUCED FEAR BEHAVIOR
M. Fendt, T. Endres, V. Hambrecht and B. Steininger, Tübingen

221B THE INFLUENCE OF FOX ODOUR ON THE BEHAVIOR OF NAIVE RATS
T. Endres, R. Apfelbach and M. Fendt, Tübingen

222B QUANTITATIVE CHANGES OF PARVALBUMIN-, CALBINDIN-D28K- AND CRF-IMMUNOREACTIVE NEURONS IN THE HIPPOCAMPUS AND AMYGDALA OF OCTODON DEGUS AFTER EARLY LIFE STRESS
K. Becker, C. Helmeke and K. Braun, Magdeburg

223B EFFECTS OF EARLY DEPRIVATION AND METHYLPHENIDATE TREATMENT ON BEHAVIOR, BRAIN ACTIVITY AND SPINE MORPHOLOGY IN JUVENILE RODENTS (OCTODON DEGUS)
S. Zehle, J. Bock and K. Braun, Magdeburg

224B DIVERGENT PROJECTIONS OF THE CENTRAL NUCLEUS OF THE AMYGDALA TO THE SUBSTANTIA INNOMINATA AND THE MAGNOCELLULAR PONTINE NUCLEUS OF THE RAT
D. Yilmazer-Hanke, R. Fritz, T. Roskoden, H. Schwegler and R. Linke, Magdeburg

225B LOCALIZATION OF ACTIVITY-RELATED CYTOSKELETAL PROTEIN IN DENDRITES OF HIPPOCAMPAL NEURONS ACTIVATED BY BEHAVIORAL TASKS
O. Levai and ME. Calhoun, Tübingen

226B EFFECTS OF ALOPREGNANOLONE INJECTED INTO THE MEDIAL PRE-FRONTAL CORTEX IN THE PLUS MAZE TEST IN RATS
G. Casteller, M. Laconi, M. Fraile, P. Melonari, M. Olguin, L. Llano, S. Taley, MF. Tarrazó, A. Landa, RJ. Cabrera and PA. Gargiulo, Mendoza (RA)

227B EFFECTS OF METOPROLOL INJECTED INTO THE NUCLEUS ACCUMBENS SEPTI IN THE PLUS MAZE TEST IN RATS
P. Melonari, M. Olguin, M. Fraile, L. Llano, S. Taley, MF. Tarrazó, G. Casteller, A. Landa and PA. Gargiulo, Mendoza (RA)

228B SILICON CHIP WITH CAPACITORS AND TRANSISTORS FOR INTERFACING ORGANOTYPIC BRAIN SLICE OF RAT HIPPOCAMPUS
M. Hutzler and P. Fromherz, Martinsried

229B HIPPOCAMPAL ENLARGEMENT IN NECTAR-FEEDING MAMMALS
U. Kaupert and Y. Winter, Munich and Seewiesen

230B FIELD POTENTIALS OF ACUTE BRAIN SLICES RECORDED WITH FIELD EFFECT TRANSISTOR ARRAY
C. Stangl and P. Fromherz, Martinsried

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231B COGNITIVE REINFORCEMENT OF RAT HIPPOCAMPAL LTP
S. Uzakov, JU. Frey and V. Korz, Magdeburg

232B THE EFFECT OF ROLIPRAM, A TYPE IV-SPECIFIC PHOSPHODIESTERASE INHIBITOR, ON DISTINCT FORMS OF LONG-TERM DEPRESSION AND ´SYNAPTIC TAGGING´
S. Navakkode, S. Sajikumar and JU. Frey, Magdeburg

233B IN SEARCH FOR THE SPECIFICITY OF 'SYNAPTIC TAGS' DURING LTP AND LT
S. Sajikumar, S. Navakkode and JU. Frey, Magdeburg

234B GENERALISATION OF CONDITIONED FEAR IN MICE DEFICIENT FOR THE NEURAL CELL ADHESION MOLECULE NCAM
A. Albrecht, J. Bergado, H-C. Pape and O. Stork, Magdeburg

235B COMPARTMENTALIZED MODULATION OF PDE4B ISOTYPES AND CAMP-LEVELS DURING LONG-TERM POTENTIATION IN RAT HIPPOCAMPAL SLICES IN VITRO
T. Ahmed and JU. Frey, Magdeburg

236B ENHANCEMENT OF SPATIAL MEMORY RETENTION FOLLOWING POSTTRAINING ALLOSTERIC POTENTIATION OF THE METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 5 (MGLUR5)
W. Wetzel and D. Balschun, Magdeburg

237B THE IMPACT OF JUVENILE STRESS EXPOSURE AND PRE-EXPERIENCE ON SHUTTLE BOX LEARNING IN ADULT RATS: INVOLVEMENT OF THE DOPAMINERGIC SYSTEM.
S. Schäble, G. Poeggel, K. Braun and M. Gruss, Magdeburg and Leipzig

238B FAST HOMEOSTATIC CONTROL OF SYNAPTIC POTENTIATION IN THE ADULT HIPPOCAMPUS
C. Roth-Alpermann, RGM. Morris, T. Bonhoeffer and M. Korte, Martinsried and Edinburgh (UK)

239B RODENT COGNITION IN VIRTUAL REALITY: TIME DYNAMICS OF PLACE AND SPATIAL RESPONSE LEARNING BY MICE ON A SERVOSPHERE VIRTUAL MAZE
Y. Winter, J. Ludwig, U. Kaupert and H-U. Kleindienst, Munich and Seewiesen

240B FORAGING IN A COMPLEX NATURALISTIC ENVIRONMENT: CAPACITY OF SPATIAL WORKING MEMORY IN FLOWER VISITING BATS
KP. Stich and Y. Winter, München and Seewiesen

241B VISUAL LANDMARK ORIENTATION BY FLYING BATS AT A LARGE-SCALE TOUCH AND WALK SCREEN FOR BATS, BIRDS AND RODENTS
Y. Winter, S. von Merten and H-U. Kleindienst, München and Seewiesen

242B ECHOACOUSTIC OBJECT GENERALIZATION AND SPATIAL DEPENDENCE OF TWO-ALTERNATIVE FORCED-CHOICE (2AFC) LEARNING SET ACQUISITION IN BATS
A. Oppelt, D. Tafur, KP. Stich and Y. Winter, München

243B SENSITISATION OF C57BL/6N MICE: A PROPOSED MOUSE MODEL OF PTSD
A. SIEGMUND AND CT. WOTJAK, MUNICH

244B SUPERIOR SPATIAL LEARNING ABILITIES OF NR2B TRANSGENIC MICE IN A NEW LABYRINTH TASK
H. Adelsberger, JZ. Tsien and A. Konnerth, München and Boston, MA (USA)

245B SINGLE-SHOCK SYNAPTIC PLASTICITY INDUCED BY LOCAL DENDRITIC SPIKES
K. Holthoff, Y. Kovalchuk, R. Yuste and A. Konnerth, München and New York, NY (USA)

246B ADULT NEUROGENESIS IS PRESENT IN THE ROSTRAL MIGRATORY STREAM BUT NOT IN THE DENTATE GYRUS OF THE NECTAR-FEEDING BAT GLOSSOPHAGA SORICINA
A. Kaiser, Planegg-Martinsried

247B CREATING MENTAL REPRESENTATIONS USING THE SPATIAL DIMENSION OF DENDRITE TREES
R. Gagné and S. Gagné, Quebec (CDN)

248B ROLE OF NO/CGMP SIGNALING DURING FORMATION OF SOCIAL HIERARCHY IN THE CRICKET
H. Aonuma, M. Iwasaki, C. Katagiri and A. Delago, Sapporo (J)

249B KNOWLEDGE BASE FOR COMPLEX BEHAVIOURS IN NATURE: SPATIAL MEMORY BASED FORAGING OF NECTAR-FEEDING BATS ON A COMPUTER SIMULATED ARTIFICIAL FLOWER FIELD IN THE RAIN FOREST
J. Thiele and Y. Winter, München and Seewiesen

250B HOW LEARNING INFLUENCES ITSELF: THE RECURRENT DEPENDENCE OF MEMBRANE POTENTIAL SHAPES AND SYNAPTIC PLASTICITY
M. Tamosiunaite, B. Porr and F. Wörgötter, Glasgow (UK) and Stirling (UK)

251B INVOLVEMENT OF THE RAT ANTERIOR CINGULATE CORTEX IN CONTROL OF INSTRUMENTAL RESPONSES GUIDED BY REWARD EXPECTANCY
J. Schweimer and W. Hauber, Stuttgart

252B RECOGNITION MEMORY IN AUTISTIC SAVANTS: AN MEG STUDY
N. Neumann, AM. Dubischar-Krivec, C. Braun, S. Bölte, F. Poustka and N. Birbaumer, Tübingen, Frankfurt/Main and Trento (I)

253B PREPULSE INHIBITION OF THE ACOUSTIC STARTLE RESPONSE INCREASES DURING REPETITIVE TESTING
CF. Plappert, S. Kuhn, H-U. Schnitzler and PKD. Pilz, Tübingen

254B ALTERED SHORT-TERM PLASTICITY IS RESPONSIBLE FOR THE DEPRESSION OF BURST RESPONSES IN THE STARTLE MEDIATING NEURONS OF THE RAT PONTINE RETICULAR FORMATION
S. Schmid and M. Weber, Tübingen and Würzburg

255B SENSORY AND BEHAVIORAL CHANGES IN GLYCINE-RECEPTOR DEFICIENT SPA MICE
C. Schlumberger, PKD. Pilz, K. Becker, C-M. Becker, H-U. Schnitzler and CF. Plappert, Tübingen and Erlangen

256B HOW ARE EYE MOVEMENTS INVOLVED IN LANDMARK RECOGNITION?
Y. Jin, S. Gillner and HA. Mallot, Tübingen

257B THE ROLE OF MGLUR8 IN SYNAPTIC PLASTICITY IN THE LATERAL AMYGDALA
N. Becker, H. van der Putten, H-U. Schnitzler and S. Schmid, Tübingen and Basel (CH)

258B INVESTIGATING RAT SPATIAL BEHAVIOR IN VIRTUAL ENVIRONMENTS
A. Schnee, H. Dahmen, C. Hölscher and HA. Mallot, Tübingen and Coleraine (UK)

259B INDUCED HIPPOCAMPAL LONG-TERM POTENTIATION CORRELATES WITH EARLY SPATIAL LEARNING PERFORMANCE IN MALE CD-1 MICE
P. Lohmann, C. Lange-Asschenfeldt and MW. Riepe, Ulm

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260B TWO ELECTRICAL FOVEAE AT THE SKIN OF THE WEAKLY ELECTRIC FISH, GNATHONEMUS PETERSII
M. Hollmann and G. von der Emde, Bonn

261B DISTRIBUTION OF THE IRON-BINDING PROTEIN HEPCIDIN IN THE CNS
S. Zechel, H. Kulaksiz, K. Unsicker and O. von Bohlen und Halbach, Heidelberg

262B OLFACTORY BULBECTOMY INDUCES NEURODEGENERATION IN THE AMYGDALA
J. Jarosik, B. Legutko, K. Unsicker and O. von Bohlen und Halbach, Heidelberg

263B THE SEPTUM OF ANURAN AMPHIBIANS: SUBNUCLEI AND CONNECTIONS
H. Endepols, K. Roden and W. Walkowiak, Köln

264B 3-D RECONSTRUCTION OF THE CENTRAL COMPLEX IN THE BRAIN OF THE LOCUST SCHISTOCERCA GREGARIA
AE. Kurylas, J. Schachtner and U. Homberg, Marburg

265B THE STANDARD PROTOCOL: TOWARDS A GENETIC ATLAS OF THE DROSOPHILA BRAIN
A. Jenett, J. Schindelin and M. Heisenberg, Würzburg

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266B ANALYSIS OF NITRIC OXIDE SYNTHASE EXPRESSION IN THE THORACIC NERVE CORD OF CRAYFISH
SR. Ott, H. Aonuma, PL. Newland and MR. Elphick, Brighton (UK), Sapporo (J), Southampton (UK) and London (UK)

267B INVOLVEMENT OF MTOR-P70S6K SIGNALLING PATHWAY IN LTP-EXPRESSION IN ACUTE RAT HIPPOCAMPAL SLICES
A. Karpova and T. Behnisch, Magdeburg

268B STANDARDIZED 3D GLOMERULI OF THE MANDUCA SEXTA ANTENNAL LOBE AS A TOOL TO STUDY THE INFLUENCE OF NITRIC OXIDE-STIMULATED CGMP ON NEUROPILAR DEVELOPMENT
W. Hütteroth and J. Schachtner, Marburg

269B DISTRIBUTION, STEROID REGULATION, AND IDENTIFICATION OF A-TYPE ALLATOSTATINS DURING DEVELOPMENT OF THE ANTENNAL LOBE OF THE SPHINX MOTH MANDUCA SEXTA
S. Utz, R. Predel, C. Wegener, J. Kahnt and J. Schachtner, Marburg and Jena

270B DEVELOPMENT OF ALLATOSTATIN-A IMMUNOREACTIVITY IN ANTENNAL LOBE NEURONS OF THE HONEYBEE
M. Gräbner, C. Groh, W. Rössler and J. Schachtner, Marburg and Würzburg

271B ALTERATIONS IN DOPAMINE RECEPTORS GENE EXPRESSION AFTER N3 FATTY ACID DEPRIVATION IN THE PERINATAL BRAIN
F. Kuperstein, E. Yakubov, R. Eilam, A. Brand, N. Salem jr and E. Yavin, Rehovot (IL) and Rockville, MD (USA)

272B CELLULAR RESPONSE TO IMPLANTATION OF PENETRATING INTRACORTICAL MICROELECTRODE ARRAYS INTO CEREBRAL CORTEX
C. Marin, J. Sales, C. Botella, I. Aranda, R. McDermott, R. Norman and E. Fernández, San Juan (E) and Salt Lake City (USA)

PSA20: Neurochemistry

273B STIMULATION OF D1 DOPAMINE RECEPTORS IN THE PIGEONS PREFRONTAL CORTEX IMPROVES WORKING MEMORY PERFORMANCE IN A DELAY- MATCHING- TO- SAMPLE TASK
C. Herold, B. Diekamp, D. Karakuyu and O. Güntürkün, Bochum and Baltimore, MD (USA)

274B OCTOPAMINE ENHANCES SYNAPTIC EFFICACY IN THE CRICKET GIANT FIBER PATHWAY
M. Hörner and R. Heblich, Göttingen

275B ABP1 LINKS THE ACTIN CYTOSKELETON WITH THE POSTSYNAPTIC DENSITY VIA DIRECT INTERACTIONS WITH THE PROSAP /SHANK FAMILY AND MODULATES THE MORPHOLOGY OF SPINES
A. Inciute, B. Qualmann, TM. Boeckers, ED. Gundelfinger and MM. Kessels, Magdeburg and Ulm

276B SYNBAPE1, A NOVEL INTERACTION PARTNER OF SYNDAPINS, MODULATES SPINE MORPHOLOGY UPON OVEREXPRESSION
R. Dahlhaus, MM. Kessels and B. Qualmann, Magdeburg

PSA21: Synapses and transmitters

277B LIPID MESSENGER SIGNALING DYNAMICS PROBED WITH OPTICAL TOOLS: ENDOCANNABINOID-MEDIATED RETROGRADE SIGNALING IN THE HIPPOCAMPUS
T. Heinbockel, J. Zhao, S. Muralidharan, JPY. Kao and BE. Alger, Baltimore, MD (USA)

278B SEROTONIN OVERPRODUCTION INDUCES EXOGASTRULATION IN BOTH INVERTEBRATE AND VERTEBRATE EMBRYOS
EE. Voronezhskaya, MY. Khabarova and LP. Nezlin, Moscow (RUS), Tula (RUS) and Göttingen

279B RESTRICTED EXPRESSION OF NEUREXOPHILIN 3 AND SPECIFIC BEHAVIORAL DEFICITS IN KNOCKOUT MICE FAVOR A MODULATING ROLE IN SYNAPTIC TRANSMISSION
K. Piechotta, V. Beglopoulos, M. Montag-Sallaz, D. Montag and M. Missler, Göttingen, Boston, MA (USA) and Magdeburg

280B ALLOSTERIC MODULATION OF PRESYNAPTIC VESICLE FUSION EXPLAINS POTENTIATION OF TRANSMITTER RELEASE BY PHORBOL ESTERS
X. Lou and R. Schneggenburger, Göttingen

281B POST-TETANIC POTENTIATION AND ITS PRESYNAPTIC CA2+ DEPENDENCE AT THE CALYX OF HELD
N. Korogod and R. Schneggenburger, Göttingen

282B SYNAPTIC RIBBONS ARE ESSENTIAL FOR SYNCHRONOUS AUDITORY SIGNALING
D. Khimich, R. Nouvian, R. Pujol, S. tom Dieck, M. Eybalin, E. Gundelfinger and T. Moser, Goettingen, Montpellier (F) and Magdeburg

283B DROSOPHILA GLUTAMATE RECEPTOR INTERACTING PROTEIN ACTS IN THE PRESYNAPTIC ENDOCYTIC PATHWAY
C. Wichmann, LE. Swan, R. Kittel, M. Schmidt, D. Wenzel, M. Heckmann and SJ. Sigrist, Göttingen and Freiburg

284B A STRUCTURE-FUNCTION CHARACTERIZATION OF THE GLUTAMATE RECEPTOR-INTERACTING PROTEIN GRIP
LE. Swan and SJ. Sigrist, Göttingen

285B NEURONAL SYNTHESIS AND RELEASE OF D-SERINE TO ACTIVATE NMDA RECEPTORS
E. Kartvelishvily, L. Balan, M. Schleper and H. Wolosker, Haifa (IL)

286B EVIDENCE FOR ACETYLCHOLINESTERASE AS A MOONLIGHTING PROTEIN DURING GRASSHOPPER DEVELOPMENT
M. Naujock and G. Bicker, Hannover

287B OPTICAL MEASUREMENTS OF TRANSMITTER RELEASE AT THE CALYX OF HELD
A. Groh and T. Kuner, Heidelberg

288B DISINHIBITION OF GABAERGIC SYNAPSES MIGHT CONTRIBUTE TO IMPAIRED HIPPOCAMPAL PLASTICITY IN M2 MUSCARINIC ACETYLCHOLINE RECEPTOR KNOCKOUT MICE
F. Zheng, T. Seeger, J. Gomeza, J. Wess and C. Alzheimer, Kiel, Munich and Bethesda, MD (USA)

289B ACTIVATION OF CALPAINS IS NOT A PREREQUISITE OF LONG-TERM POTENTIATION (LTP)
V. Nimmrich, A. Möller, G. Gross and K. Wicke, Ludwigshafen

290B BASSOON AND PICCOLO INTERACT WITH MEMBERS OF THE CTBP PROTEIN FAMILY
WD. Altrock, A. Fejtova, S. tom Dieck, B. Qualmann, MM. Kessels, SH. Gerber, CC. Garner, TC. Südhof, JH. Brandstätter and ED. Gundelfinger, Magdeburg, Frankfurt/Main, Heidelberg, Dallas (USA) and Palo Alto (USA)

291B ACTIVITY-DEPENDENT SPINOGENESIS: (WHEN) DO NEW SPINES CARRY FUNCTIONAL SYNAPSES?
UV. Nägerl, G. Köstinger, JC. Anderson, KAC. Martin and T. Bonhoeffer, Martinsried and Zürich (CH)

292B IMMUNOHISTOCHEMICAL CHARACTERIZATION OF ACTIVITY-DEPENDENT SPINOGENESIS IN HIPPOCAMPAL NEURONS
N. Tobisch, UV. Nägerl, T. Bonhoeffer and S. Cambridge, Martinsried

293B BIDIRECTIONAL ACTIVITY-DEPENDENT MORPHOLOGICAL PLASTICITY IN HIPPOCAMPAL NEURONS
UV. Nägerl, N. Tobisch, S. Cambridge and T. Bonhoeffer, Martinsried

294B CHARACTERIZATION OF A CENTRAL SYNAPSE IN THE LOCAL BEND CIRCUIT OF THE LEECH
J. Kretzberg, A. Marin-Burgin and WB. Kristan, Oldenburg and La Jolla, CA (USA)

295B ILLUMINATING VESICLE PRIMING WITH LIVE-CELL TIRF MICROSCOPY
O. Yizhar, U. Matti, U. Becherer, J. Rettig and U. Ashery, Tel Aviv (IL) and Homburg

296B A NEW PLATFORM TO STUDY THE MOLECULAR MECHANISMS OF EXOCYTOSIS
A. Mezer, E. Nachliel, M. Gutman and U. Ashery, Tel Aviv (IL)

297B THE DROSOPHILA NC82 ANTIGEN: GENE STRUCTURE, EXPRESSION ANALYSIS, AND LOCALIZATION AT PRESYNAPTIC ACTIVE ZONES
D. Wagh, T. Rasse, A. Hofbauer, I. Schwenkert, H. Dürrbeck, S. Buchner, M-C. Dabauvalle, S. Sigrist and E. Buchner, Würzburg

PSA22: Neuropeptides and neuromodulation

298B DIFFERENTIAL OCTOPAMINERGIC MODULATION OF GIANT DESCENDING ANTENNAL MECHANOSENSORY INTERNEURONS IN THE CRICKET BRAIN
S. Schöneich, PA. Stevenson and K. Schildberger, Leipzig

299B THE MYOTROPIC NEUROPEPTIDE ALLATOSTATIN ELEVATES CGMP-CONCENTRATION VIA AN INHIBITION OF THE PHOSPHODIESTERASE IN THE EXTENSOR MUSCLE FIBRES OF THE ISOPOD IDOTEA EMARGINATA
D. Fritsche, N. Rogalla, B. Philipp and S. Kreissl, Konstanz

300B CHOLINERGIC ACTIVATION OF FLIGHT MOTOR ACTIVITY IN THE LOCUST, SCHISTOCERCA GREGARIA
E. Buhl, PA. Stevenson, J. Rillich and K. Schildberger, Leipzig

301B SYNAPTIC TARGETING AND TIME COURSE OF SECRETION OF NEUROTROPHINS FROM HIPPOCAMPAL NEURONS.
T. Brigadski, R. Kolarow, M. Hartmann and V. Lessmann, Mainz

302B EVIDENCE FOR A ROLE OF ORCOKININ-RELATED PEPTIDES IN THE CIRCADIAN CLOCK OF THE COCKROACH LEUCOPHAEA MADERAE
S. Hofer and U. Homberg, Marburg

303B ARE FMRFAMIDE-RELATED PEPTIDES INVOLVED IN THE CIRCADIAN COUPLING PATHWAY OF THE COCKROACH LEUCOPHAEA MADERAE?
S. Soehler, S. Neupert, R. Predel, H. Agricola, S. Meola, R. Nichols and M. Stengl, Marburg, Jena, College Station (USA) and Michigan (USA)

304B PIGMENT-DISPERSING FACTOR AND GABA SYNCHRONIZE INSECT CIRCADIAN CLOCK CELLS
N-L. Schneider and M. Stengl, Marburg

305B NORADRENERGIC ALPHA-1 RECEPTOR MEDIATED MODULATION OF THERMO-SENSITIVE NEURONS IN THE RAT HYPOTHALAMIC PARAVENTRICULAR AND SUPRAOPTIC NUCLEI
C. Talke, H. Schneider, HA. Braun and K. Voigt, Marburg

306B CO-LOCALIZATION OF ARGININE VASOTOCIN AND GALANIN IMMUNOREACTIVITY IN THE CHICKEN BRAIN
S. Klein, A. Jurkevich and R. Grossmann, Neustadt and Vilnius (LT)

307B CHRONIC STRESS EFFECTS ON HIPPOCAMPAL NEUROGENESIS ARE PREVENTED BY PROLACTIN ADMINISTRATION
S. Karg, L. Torner, J. Winkler, G. Kuhn and ID. Neumann, Regensburg and Göteborg (S)

308B VISUAL CONTROL OF GENE EXPRESSION IN RETINA AND SCLERA IN CHICK EYES WITH INTACT OR SECTIONED OPTIC NERVES.
M. Feldkaemper, R. Schippert and F. Schaeffel, Tübingen

PSA23: Ion channels and receptors

309B LOCALISATION OF THE NMDA-R1 MRNA IN THE BRAIN OF APIS MELLIFERA
T. Zannat, R. Menzel and G. Leboulle, Berlin

310B GABA RECEPTOR ACTIVATION AND INDUCED ION CURRENTS OF LOCUST METATHORACIC DUM NEURONS
S. Ryglewski, E. Heidel and H-J. Pflüger, Berlin

311B HYPERPOLARIZATION ACTIVATED CATION CHANNELS INCREASE EXCITABILITY IN LOCUST EFFERENT OCTOPAMINERGIC DUM NEURONS
E. Heidel and H-J. Pflüger, Berlin

312B GABA-GATED CATION CHANNELS AND ION-CHANNEL GATING BY MULTIPLE NEUROTRANSMITTERS IN INVERTEBRATES
G. Gisselmann, H. Pusch and H. Hatt, Bochum

313B IDENTIFICATION OF A NOVEL BRANCH OF INVERTEBRATE IONOTROPIC ACETYLCHOLINE RECEPTORS IN C. ELEGANS
A. Saras, G. Gisselmann, CH. Wetzel, H. Pusch and H. Hatt, Bochum

314B DEVELOPMENTAL EXPRESSION PATTERN OF IONOTROPIC GLUTAMATE RECEPTORS IN DIFFERENTIATING EMBRYONIC STEM CELLS.
I. Joshi, M. Werner, A. Smith, T. Grunwald, K. Gottmann and M. Hollmann, Bochum, Edinburgh (UK) and Duesseldorf

315B SWELLING-ACTIVATED CHLORIDE CURRENT IN LEECH RETZIUS NEURONES
P. Coulon, PW. Dierkes, P. Hochstrate and W-R. Schlue, Duesseldorf

316B SODIUM-DEPENDENT POTASSIUM CHANNELS IN LEECH P NEURONS
G. Klees, PW. Dierkes, P. Hochstrate and W-R. Schlue, Düsseldorf

317B FUNCTIONAL PROTEOMICS OF NICOTINIC ACETYLCHOLINE RECEPTORS AND ASSOCIATED PROTEINS IN CAENORHABDITIS ELEGANS
R. Almedom, T. Schedletzky, A. Kruse, S. Anderson, J. Yates, B. Schafer and A. Gottschalk, Frankfurt and San Diego (USA)

318B MOLECULAR INTERACTIONS OF THE HIV-1 TAT PROTEIN WITH NMDA RECEPTOR SUBUNITS
T. Chandra, W. Maier, T. Schüler, A. Chandra and B. Laube, Frankfurt

319B THE ACTIVATION OF MUSCARINIC ACETYLCHOLINE RECEPTORS MODULATES THE INTRACELLULAR CAMP LEVEL IN THE DEVELOPING RAT INFERIOR COLLICULUS
C. Keipert and KH. Backus, Frankfurt/Main

320B INDUCTION OF PSEUDO-PERIODIC OSCILLATION IN VOLTAGE GATED SODIUM CHANNEL PROPERTIES BY PRIOR DEPOLARIZATION.
S. Majumdar and SK. Sikdar, Bangalore (IND) and Frankfurt/Main

321B METABOTROPIC GLUTAMATE RECEPTORS MODULATE THE IONOTROPIC RECEPTORS IN THE REGULATION OF GENE EXPRESSION
K. Lindemeyer, J. Leemhuis, S. Löffler and DK. Meyer, Freiburg

322B CALCIUM DEPENDENCE OF BK CHANNELS IN AUDITORY INNER HAIR CELLS
H. Thurm, B. Fakler and D. Oliver, Freiburg

323B THE INTERACTION OF KAPPAM-CONOTOXIN RIIIK WITH VOLTAGE ACTIVATED K+ CHANNELS
A. Al-Sabi, D. Lennartz, M. Ferber, J. Gulyas, JEF. Rivier, BM. Olvera, T. Carlomagno and H. Terlau, Göttingen, La Jolla (USA) and Salt Lake City (USA)

324B THE ROLE OF PROTEIN-INTERACTION IN MUTUAL REGULATION OF THE FUNCTION OF GABAA AND GABAB RECEPTORS DURING POSTNATAL DEVELOPMENT
V. Sargsyan, G. Aramuni and W. Zhang, Göttingen

325B GABAB-RECEPTOR-MEDIATED SIGNALING CHANGES DURING EARLY POSTNATAL DEVELOPMENT IN BRAINSTEM OF MOUSE
E. Tantalaki, G. Aramuni and W. Zhang, Göttingen

326B SULFHYDRYL OXIDATION REDUCES HIPPOCAMPAL SUSCEPTIBILITY TO HYPOXIA-INDUCED SPREADING DEPRESSION BY ACTIVATING BK-CHANNELS
S. Hepp, F. Gerich and M. Müller, Göttingen

PSA24: Neuropharmacology and -toxicology

327B GLUCOCORTICOID MEDIATED DECREASE OF THE INCIDENCE OF INTRAVENTRICULAR HEMORRHAGE IS PROBABLY DUE TO MATURATIONAL EFFECTS ON CEREBRAL AUTOREGULATION AT THE EXPENSE OF INCREASED NEURONAL DAMAGE IN VULNERABLE BRAIN REGIONS
I. Antonow-Schlorke, T. Müller, M. Loehle, CE. Wood, H. Schubert, OW. Witte and M. Schwab, Jena and Gainesville, FL (USA)

328B TIME COURSE OF CELL BIRTH AND DEATH DURING INTRAUTERINE BRAIN DEVELOPMENT - EFFECTS OF GLUCOCORTICOIDS
M. Brodhun, I. Antonow-Schlorke, T. Coksaygan, T. Müller, H. Schubert, PW. Nathanielsz, OW. Witte and M. Schwab, Jena and New York, NY (USA)

329B JNK2 TRANSLOCATES TO THE MITOCHONDRIA AND MEDIATES CYTOCHROME C RELEASE IN PC12 CELLS FOLLOWING 6- HYDROXYDOPAMINE
A. Klettner, S. Eminel, L. Roemer, V. Waetzig and T. Herdegen, Kiel

330B JNK MEDIATE DEATH AND SPROUTING OF PRIMARY HIPPOCAMPAL NEURONS
S. Eminel and T. Herdegen, Kiel

331B EXPRESSION OF PURINERGIC RECEPTORS IN THE HYPOTHALAMUS OF THE RAT IS MODIFIED BY REDUCED FOOD AVAILABILITY
B. Seidel, M. Bigl, H. Franke, H. Kittner, P. Illes, W. Kiess and U. Krügel, Leipzig

332B SEROTONIN 5-HT1A AND 5-HT1B ANTAGONISTS EXHIBIT ANTIDEPRESSANT-LIKE ACTIVITY IN THE GUINEA PIG FORCED SWIM TEST
K. Wicke and G. Gross, Ludwigshafen

333B ANTIDEPRESSANTS INHIBIT WHEEL RUNNING ACTIVITY IN NMRI MICE
M. Weber, C. Boeddinghaus, H. Buschbacher, S. Butty, G. Gross and K. Wicke, Ludwigshafen

334B BEHAVIORAL SENSITIZATION TO QUINPIROLE IN RATS: NO CHANGE OF STRIATAL DENSITY OF DOPAMINE D1,D2 RECEPTORS AND THE DOPAMINE TRANSPORTER
E. Schuetz, AL. Jongen-Rêlo, K. Drescher, U. Ebert, G. Gross and H. Schoemaker, Ludwigshafen

335B ALCOHOL EFFECTS ON FIRING RATE AND TEMPERATURE-SENSITIVITY OF HYPOTHALAMIC NEURONS IN RAT BRAIN SLICES
BT. Wollweber, H. Schneider, K. Voigt and HA. Braun, Marburg

336B EFFECT OF ANTISENSE OLIGONUCLEOTIDES ON REELIN TRANSLATION AND SYNAPTIC/DENDRITIC PROTEIN EXPRESSION IN THE RAT BRAIN
G. Vollmer, K. Schwabe, M. Koch and C. Richter-Landsberg, Oldenburg and Bremen

337B COMPARISON OF ACUTE EFFECTS OF THE ANTIEPILEPTIC DRUGS VALPROATE AND TOPIRAMATE ON ELECTRICAL ACTIVITY PATTERNS OF PRIMARY FRONTAL CORTEX NETWORKS ON MICROELECTRODE ARRAYS
S. Stüwe, A. Gramowski and DG. Weiss, Rostock

338B NEURONAL TISSUE SPECIFICITY IN VITRO: A MULTI-PARAMETRIC COMPARISON OF MURINE SPINAL CORD AND FRONTAL CORTEX NETWORK ACTIVITY - NEUROTRANSMITTER RECEPTOR RESPONSES AND CULTURING CONDITIONS
A. Gramowski, S. Stüwe and DG. Weiss, Rostock

PSA25: Cell and tissue cultures

339B STEARYLATED OCTAARGININE FOR SIRNA-TRANSFECTION INTO RAT PRIMARY NEURONS
L. Tönges, P. Lingor, G. Dietz and M. Bähr, Göttingen

340B BI1 MEDIATED NEUROPROTECTION
S. Siedenberg, CP. Dohm, J. Liman, JC. Reed, M. Bähr and P. Kermer, Göttingen and La Jolla, CA (USA)

341B BAG1 NEUROPROTECTIVITY IS MEDIATED BY HSP70 BINDING
J. Liman, CP. Dohm, S. Krajewski, JC. Reed, S. Ganesan, FS. Wouters, M. Bähr and P. Kermer, Göttingen and La Jolla, CA (USA)

342B CRICKET NEURONS OF TERMINAL GANGLION FORMING FUNCTIONAL NETWORKS IN VITRO
P. Schulte, S. Weigel, S. Böcker-Meffert and A. Offenhäusser, Jülich

343B ALIGNED TWO-STEP MICROCONTACT PRINTING FOR THE CONSTRUCTION OF DEFINED NEURONAL NETWORKS
T. Decker, S. Schäfer, S. Schaal, S. Böcker-Meffert and A. Offenhäusser, Jülich

344B CELL CULTURE OF LOCUST NEURONS REGAINING FUNCTIONAL NETWORKS
S. Weigel, P. Schulte, S. Böcker-Meffert, P. Bräunig and A. Offenhäusser, Jülich and Aachen

345B EXTRACELLULAR SIGNALS RECORDED FROM LOCUST NEURONS USING FIELD-EFFECT TRANSISTORS
S. Weigel, P. Schulte, S. Böcker-Meffert, G. Wrobel, S. Ingebrandt and A. Offenhäusser, Jülich

346B THE HUMAN NEUROBLASTOMA CELL LINE SH-SY5Y: A MODEL SYSTEM TO STUDY CASPASE 3/7 AND CASPASE 9 ACTIVITY IN APOPTOSIS
R. Müller, Ludwigshafen

347B GENE EXPRESSION PATTERNS ASSOCIATED WITH PSYCHO-STIMULATING DRUG LADASTEN ACTION IN RAT BRAIN
RS. Yamidanov, JV. Vakhitova, MG. Mikhaylova and SB. Seredenin, Moscow (RUS) and Magdeburg

PSA26: Glia cells; Myelin

348B EFFECT OF OLIGODENDROGLIAL MICRODOMAIN COMPONENTS ON NGF SIGNALING
M. Schmitz, S. Klopfleisch, S. Klöppner and HH. Althaus, Goettingen

349B DIFFERENTIAL CELLULAR EXPRESSION OF AQUAPORIN 4 AND 8 IN MOUSE SPINAL CORD CULTURES AND COENRICHMENT WITH THE KIR4.1 CHANNEL SUBUNIT
M. Handschuh, K. Szöke, S. Hülsmann, F. Kirchhoff, M. Bähr and C. Neusch, Göttingen

350B INACTIVATION OF THE KIR4.1 CHANNEL SUBUNIT ABOLISHES K+ SIPHONING PROPERTIES IN ASTROCYTES OF THE RESPIRATORY NETWORK
N. Papadopoulos, C. Neusch, I. Maletzki, M. Handschuh, F. Kirchhoff and S. Hülsmann, Göttingen

351B A THRESHOLD LEVEL OF NEUREGULIN-1 INDUCES MYELINATION
GV. Michailov, MH. Schwab, BG. Brinkmann, C. Humml, C. Birchmeier, MW. Sereda and K-A. Nave, Goettingen and Berlin

352B AN ESSENTIAL ROLE OF DISULFIDE BRIDGES IN MYELIN PROTEOLIPID PROTEIN (PLP): IMPLICATIONS FOR PROTEIN MISFOLDING IN PELIZAEUS-MERZBACHER DISEASE
AS. Dhaunchak and K-A. Nave, Göttingen

353B ANTIOXIDANT DEFENSE IN SOCKEYE SALMON BRAIN DURING AGING
CR. Malz, J. Gralla, P. Riederer and ME. Götz, Göttingen, Bern (CH), Würzburg and Kiel

354B A MOUSE MODEL OF HUMAN CHARCOT-MARIE-TOOTH TYPE 1B (CMT1B) DISORDER
AE. Rünker, I. Kobsar, T. Fink, T. Tilling, G. Loers, P. Putthoff, C. Wessig, R. Martini and M. Schachner, Hamburg and Würzburg

355B CHARACTERIZATION OF OLIGODENDROCYTES RESPONSES TOWARDS CHEMOKINES CCL11 AND CXCL2
S. Maysami, S. Heine and M. Stangel, Hannover

PSA27: Neuronal development

356B PROLIFERATION, MIGRATION, NEURONAL DIFFERENTIATION, AND LONG-TERM SURVIVAL OF NEW CELLS IN THE ADULT ZEBRAFISH BRAIN
GKH. Zupanc, UM. Wellbrock, K. Hinsch, D. Meissner and FH. Gage, Bremen, Manchester (UK) and La Jolla (USA)

357B ROLE OF TGF-BETA, SHH AND FGF8 IN DIFFERENTIATION OF VENTRAL MESENCEPHALIC NEUROSPHERES IN VITRO
M. Wiehle, O. Oehlke, E. Roussa and K. Krieglstein, Göttingen

358B TIEG1 AND TIEG3 IN THE DEVELOPING NERVOUS SYSTEM OF MOUSE
M. Behrendt, K. Krieglstein and Z. Wang, Göttingen

359B THE ROLE OF PTX3 IN THE DEVELOPMENT AND DIFFERENTIATION OF MOUSE MESENCEPHALIC DOPAMINERGIC NEURONS IN VITRO.
O. Oehlke, E. Roussa and K. Krieglstein, Göttingen

360B CHARACTERIZATION OF NEUROSPHERES DERIVED FROM VENTRAL AND DORSAL MOUSE MESENCEPHALON.
E. Roussa, M. Wiehle, O. Oehlke and K. Krieglstein, Göttingen

361B NEURONAL CELL DEATH DURING POSTNATAL DEVELOPMENT OF SUPERIOR CERVICAL GANGLION OF MOUSE
S. Schemmel, K. Krieglstein and M. Rickmann, Göttingen

362B CHARACTERIZATION OF ME2 AS THE OBLIGATE E-PROTEIN INTERACTION PARTNER FOR THE ADULT EXPRESSED NEURONAL BHLH PROTEINS AND REGULATED OVEREXPRESSION OF DOMINANT-NEGATIVE VERSIONS OF ME2 IN TRANSGENIC MICE
MM. Brzozka, T. Wolfram, K-A. Nave and MJ. Rossner, Göttingen

363B THE EFFECT OF REELIN IN THE MIGRATION OF CORTICAL SVZ NEURONS
P. Alifragis, O. Britanova and V. Tarabykin, London (UK) and Göttingen

364B THE ROLE OF PRESYNAPTIC ACTIVITY DURING FUNCTIONAL MATURATION OF A FAST GLUTAMATERGIC CNS SYNAPSE
E. Fischer and H. Taschenberger, Göttingen

365B MODULATION OF NEURONAL OUTGROWTH BY SELECTIVE 5-HT RECEPTORS ACTIVATING THE G12/13 SIGNALING PATHWAYS IN HIPPOCAMPAL NEURONS
D. Hess, E. Ponimaskin and D. Richter, Göttingen

366B A SECRETED SERINE PROTEASE WITH IGF BINDING MOTIF INVOLVED IN ANTERIOR-POSTERIOR PATTERNING OF XENOPUS EMBRYOS
S. Hou and E. Pera, Göttingen

367B FUNCTIONAL CHARACTERIZATION OF SMAD-INTERACTING PROTEIN 1 (SIP1) IN THE NEOCORTEX AND HIPPOCAMPUS BY CONDITIONAL GENE INACTIVATION
A. Miquelajauregui and V. Tarabykin, Göttingen

368B VISUALISATION OF INTERACTIONS IN LIVING HIPPOCAMPAL NEURONS AT ULTRA-LOW EXCITATION LEVELS USING THE CALCIUM INDICATOR CAMELEON
M. Jose, D. Nair, T. Dresbach, K. Kemnitz, M. Kreutz, ED. Gundelfinger and W. Zuschratter, Magdeburg, Heidelberg and Berlin

369B IMAGING INTERACTIONS IN LIVING HIPPOCAMPAL NEURONS AT MINIMAL INVASIVE CONDITIONS USING THE CHLORIDE INDICATOR CLOMELEON
D. Nair, M. Jose, T. Kuner, R. Hartig, C. Reissner, K. Kemnitz, M. Kreutz, ED. Gundelfinger and W. Zuschratter, Magdeburg, Heidelberg and Berlin

370B EFFECTS OF IN VITRO ISCHEMIA ON SYNAPTIC ACTIVITY OF SUBPLATE NEURONS IN THE NEONATAL RAT CEREBRAL CORTEX
S. Heck, IL. Hanganu and HJ. Luhmann, Mainz

371B TRUNCATED TRKB RECEPTOR INDUCED OUTGROWTH OF DENDRITIC FILOPODIA INVOLVES THE P75 NEUROTROPHIN RECEPTOR
M. Hartmann, T. Brigadski, KS. Erdmann, B. Holtmann, M. Sendtner, F. Narz and V. Lessmann, Mainz, Bochum and Würzburg

372B INHIBITORY ROLE OF GABA ON EPILEPTIFORM ACTIVITY IN HIPPOCAMPAL SLICES OF THE IMMATURE RAT
W. Kilb, P. Dierkes, Y. Yanytska and HJ. Luhmann, Mainz and Duesseldorf

373B ENDOGENOUS BDNF-MEDIATED SPONTANEOUS CA2+-SIGNALING IN DEVELOPING HIPPOCAMPAL PYRAMIDAL CELLS
S. Lang, T. Bonhoeffer and C. Lohmann, Martinsried-München

374B EMBRYONIC DEVELOPMENT OF THE SENSORY INNERVATION OF THE ANTENNA IN THE GRASSHOPPER SCHISTOCERCA GREGARIA : MOLECULAR EXPRESSION DOMAINS AND STEPPING STONE PATTERN OF PIONEERING CONFIRM ITS APPENDICULAR NATURE
M. Güntner and G. Boyan, Martinsried-Planegg

375B THE SEQUENTIAL ACTIVITY OF THE GTPASES RAP1B AND CDC42 DETERMINES NEURONAL POLARITY
JC. Schwamborn and AW. Püschel, Münster

376B COMPARISON OF NEUROGENESIS AND NEURONAL ENGRAILED EXPRESSION IN EMBRYOS OF A PARTHENOGENETIC CRAYFISH, THE MARMORKREBS (MARBLED CRAYFISH), AND THE GRASSHOPPER
K. Vilpoux and S. Harzsch, Ulm

377B RAB GDI CONTROLS AXON GUIDANCE BY REGULATING ROBO LOCALIZATION
M. Philipp and ET. Stoeckli, Zurich (CH)

PSA28: Regeneration and plasticity

378B ELECTRICAL INTRACOCHLEAR STIMULATION INDUCES C-FOS EXPRESSION IN SPECIFIC NEURONAL POPULATIONS OF THE COCHLEAR NUCLEUS
A. Reisch and R-B. Illing, Freiburg

379B L1 OVER-EXPRESSING MOUSE EMBRYONIC STEM CELLS XENOGRAFTED IN A RAT MODEL OF PARKINSON´S DISEASE
D. Löttrich, C. Bernreuther, A. Papazoglou, A. Klein, M. Schachner and G. Nikkhah, Freiburg and Hamburg

380B NEONATAL RAT BRAIN TRANSPLANTATION: A TOOL TO STUDY RESTORATION AND REINNERVATION OF THE STRIATUM
A. Papazoglou, C. Hackl and G. Nikkhah, Freiburg

381B EFFECTS OF DOUBLE-GRAFTING ON THE SURVIVAL OF EMBRYONAL (E14) MESENCEPHALIC DOPAMINERGIC NEURONS TRANSPLANTED IN A RAT MODEL OF PARKINSON'S DISEASE
C. Hackl, A. Papazoglou, A. Klein and G. Nikkhah, Freiburg

382B REMODELLING OF THE DAMAGED BRAIN BY FETAL TRANSPLANTS? - IMPLICATIONS FROM STUDIES IN A RAT MODEL OF PARKINSON'S DISEASE
A. Klein, GA. Metz, J. Wessolleck, A. Papazoglou, M. Knieling, M. Timmer and G. Nikkhah, Freiburg, Lethbridge (CDN) and Jena

383B TRANSPLANTATION OF LONG-TERM EXPANDED HUMAN FETAL NEURAL PRECURSOR CELLS – EVIDENCE OF DISTANT MIGRATION AND MULTI-LINEAGE DIFFERENTIATION
J. Maciaczyk, D. Maciaczyk and G. Nikkhah, Freiburg

384B ULTRASTRUCTURAL ANALYSIS OF PLASTICITY IN THE COCHLEAR NUCLEUS OF THE RAT INDUCED THROUGH DEAFENING
MA. Meidinger and R-B. Illing, Freiburg

385B MOLECULAR MECHANISMS OF A NOVEL IRON CHELATOR/ PROPARGYLAMINE BIFUNCTIONAL DRUG: NEURORESCUE, DIFFERENTIATION AND REGULATION OF AMYLOID PRECURSOR PROTEIN/ AMYLOID –BETA PEPTIDE PROCESSING.
Y. Avramovich-Tirosh, T. Amit and MBH. Youdim, Haifa (IL)

386B CONNEXIN 43 MRNA AND PROTEIN ARE UPREGULATED IN THE VICINITY OF THE PHOTOTHROMBOTIC LESION IN RAT BRAIN
C. Haupt, O. Waitz, OW. Witte and C. Frahm, Jena

387B AGE-DEPENDENT ALTERATIONS OF FUNCTIONAL INHIBITION IN A RAT MODEL OF CORTICAL LESION
S. Schmidt, A. Divanach, C. Bruehl and OW. Witte, Jena

388B SYNAPTIC PLASTICITY IN THE FRONTAL CORTEX OF THE EUROPEAN GROUND SQUIRREL (SPERMOPHILUS CITELLUS) IN THE COURSE OF TORPOR-AROUSAL CYCLES
J. Ruediger, A. Aschoff, RA. Hut, EA. Van der Zee and S. Daan, Jena and Groningen (NL)

389B REAL-TIME IMAGING OF GOLGI DERIVED VESICLE EXOCYTOSIS DURING THE FORMATION OF GROWTH CONE LAMELLIPODIUM AFTER AXOTOMY OF CULTURED APLYSIA NEURONS
ME. Spira and G. Malkinson, Jersualem (IL)

390B DISTRIBUTION AND ACTIVITY OF PROTEASOME IN REGENERATING NEURONS
D. Kamber and ME. Spira, Jersualem (IL)

391B TWO TYPES OF PROTEASE-ACTIVATED RECEPTORS (PAR-1 AND PAR-2) MEDIATE CALCIUM SIGNALING IN RAT RETINAL GANGLION (RGC-5) CELLS
W. Luo, Y. Wang and G. Reiser, Magdeburg

392B CEREBRAL ISCHEMIA AND PARADOXICAL SLEEP
VV. Loginov, VB. Dorokhov, GN. Fesenko and VM. Kovalzon, Moscow (RUS)

393B TRANSPLANTATION OF CSM14.1-CELLS IN THE NEONATAL DOPAMINERGIC DEAFFERENTIATED STRIATUM LEADS TO A THERAPEUTIC IMPROVEMENT AND DOPAMINERGIC REINNERVATION
SJ-P. Haas, S. Beckmann, O. Schmitt, S. Petrov and A. Wree, Rostock

394B SWITCHING MATURE RETINAL GANGLION CELLS TO A ROBUST GROWTH STATE IN VIVO: GENE EXPRESSION AND SYNERGY WITH RHOA INACTIVATION
D. Fischer, V. Petkova, S. Thanos and L. Benowitz, Ulm, Boston (USA) and Münster

PSA29: Neurogenetics

395B THE EXPRESSION OF BEHAVIOURAL GENES IN THE CNS OF CRICKETS.
S. Knapinski, J. Ustinova, M. Hennig, H. Saumweber and B. Ronacher, Berlin and Erlangen

396B AN INDUCTION GENE TRAP SCREEN FOR CHONDROITIN SULPHATE PROTEOGLYCAN TARGET GENES IN NEURAL STEM CELLS
S. Lehmann, S. Moritz, A. von Holst and A. Faissner, Bochum

397B AN INDUCTION GENE TRAP SCREEN FOR TENASCIN-C TARGET GENES IN NEURAL STEM CELLS
S. Moritz, S. Lehmann, A. Faissner and A. von Holst, Bochum

398B FUNCTIONAL DOMAIN MAPPING OF THE SURVIVAL OF MOTONEURON (SMN) PROTEIN: EFFECTS ON AXONAL GROWTH
P. Claus, A-F. Bruns, J. van Bergeijk, K. Haastert and C. Grothe, Hannover

399B RELEVANCE OF EXONIC ADENOSINE A2A RECEPTOR GENE POLYMORPHISMS FOR AMPHETAMINE INDUCED MOOD STATES
C. Hohoff, JM. McDonald, BT. Baune, EH. Cook, J. Deckert and H. de Wit, Muenster and Chicago, IL (USA)

400B POLYMORPHISMS OF THE RGS 2-GENE: RELEVANCE FOR THE DEVELOPMENT OF PANIC DISORDER?
A. Jung, C. Hohoff, C. Freitag, S. Brady, G. Ponath, P. Krakowitzky, J. Fritze, P. Franke, B. Bandelow, R. Fimmers, MM. Nöthen, J. Flint and J. Deckert, Münster, Saarland, Oxford (UK), Frankfurt, Bonn and Göttingen

401B SCHIZOPHRENIA FAMILIES CHARACTERIZED FOR THE ENDOPHENOTYPE EYE TRACKING DYSFUNCTION: ANALYSIS OF POLYMORPHISMS IN THE TUMOR NECROSIS FACTOR ALPHA GENE
C. Hohoff, N. Tidow, M. Stoll, S. Rust, R. Lencer, S. Purmann, E. Schwinger, B. Brandt, J. Deckert and V. Arolt, Muenster and Luebeck

402B A NOVEL MUTATION ASSOCIATED WITH CHILDHOOD ABSENCE EPILEPSY AFFECTS G-PROTEIN MODULATION OF P/Q TYPE CALCIUM CHANNELS
MO. Popa, K. Hallmann, J. Rebstock, N. Tilgen, S. Maljevic, A. Heils and H. Lerche, Ulm and Bonn

403B NEURONAL NITRIC OXIDE SYNTHASE KNOCKOUT IMPACTS ON THE SURVIVAL OF NEURAL STEM CELLS AND GROWTH FACTOR EXPRESSION
A. Schmitt, S. Fritzen, E. Claes, P. Gass, K-P. Lesch and A. Reif, Wuerzburg and Mannheim

404B CONVERGING LINES OF EVIDENCE ARGUE FOR A ROLE OF ENDOTHELIAL NITRIC OXIDE SYNTHASE (NOS-III) IN AFFECTIVE DISORDERS
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