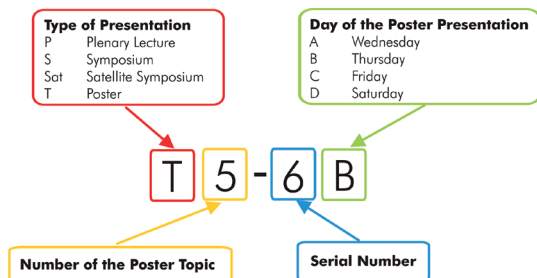


## Explanation of Abstract Numbers



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

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

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

### Example

#### T21-2B

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

This means:

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

Thursday, March 14, 2013

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

## Poster Topics

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

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

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

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

## T1: Stem cells, neurogenesis and gliogenesis

### Wednesday

- T1-1A** DELETION OF P75 RECEPTORS INDUCES SPECIFIC EFFECTS WITHIN THE HIPPOCAMPAL FORMATION  
*Oliver von Bohlen und Halbach, Ruben Busch, Miriam Vogt, Robert Poser, Marian Baldus, Peter Gass, Martin Dokter*
- T1-2A** DEVELOPMENTAL DYNAMICS OF IGF-SIGNALING IN CORTICAL PROGENITORS: CONTROL OF AND THROUGH FORKHEAD TRANSCRIPTION FACTORS  
*Tanja Vogel, Shalaka Wahane, Riccardo Vezzali, Stefan Weise, Kathrin Thedieck, Kerstin Kriegelstein*
- T1-3A** MIGRATORY BEHAVIOR OF DENTATE GRANULE CELLS  
*Shaobo Wang, Shanting Zhao, Xuejun Chai, Jiawei Li, Mirjam Sibbe, Gary L. Westbrook, Michael Frotscher*
- T1-4A** A DIFFERENTIAL PROTEOME ANALYSIS OF THE OLFACTORIC BULB, CEREBELLUM AND CEREBRAL CORTEX OF RATS INDICATES CHANGES OF PROTEIN EXPRESSIONS DURING DEVELOPMENT  
*Michael Wille, Oliver Schmitt, Grit Lessner, Antje Schumann, Norbert Ullig, Stefan Mikkat, Michael Kreutzer, Michael Glocker, Andreas Wree*
- T1-5A** THE (PRO)RENIN RECEPTOR / ATP6AP2 IS EXPRESSED IN THE MURINE HIPPOCAMPUS BY ADULT AND NEWLY GENERATED NEURONS AND IS INVOLVED IN ADULT HIPPOCAMPAL NEUROGENESIS  
*Simon Thomas Schäfer, Jörg Peters, Oliver von Bohlen und Halbach*
- T1-6A** DIRECT DIFFERENTIATION OF HUMAN IPS CELLS INTO SELF-RENEWING NEURAL PROGENITORS BY SMALL MOLECULES  
*Raul Bukowiecki, J. Adjaye, A. Prigione*
- T1-7A** NEURONAL DIFFERENTIATION OF HUMAN INDUCED PLURIPOTENT STEM CELLS AND ESTABLISHMENT OF APPROPRIATE ANALYSIS METHODS  
*Sandra Horschitz, Friederike Matthäus, Jochen Utikal, Patrick Schloss, Andreas Meyer-Lindenberg*
- T1-8A** TEMPORAL LOBE EPILEPSY IS ASSOCIATED WITH AN IRREVERSIBLE CHANGE OF THE NEUROGENIC NICHE  
*Ute Häußler, Carola A. Haas*
- T1-9A** CNTF INHIBITS PROLIFERATION AND PROMOTES EARLY DIFFERENTIATION OF PROGENITOR CELLS IN NEURAL STEM CELL CULTURES FROM THE ADULT SUBVENTRICULAR ZONE  
*Sarah Frerix, B.P.S. Chakrapani, Hans-Dieter Hofmann, Matthias Kirsch*

## Thursday

- T1-1B** CNTF PROMOTES THE MAINTENANCE OF NEURAL STEM CELLS IN CULTURES FROM THE ADULT MOUSE SUBVENTRICULAR ZONE  
*Judith M. Flurer, B.P.S. Chakrapani, Hans-Dieter Hofmann, Matthias Kirsch*
- T1-2B** ALTERED DENSITIES AND COMPROMISED MIGRATION OF CORTICAL INTERNEURONS IN POLYSIALIC ACID-DEFICIENT MICE  
*Tim Kröcher, Iris Röckle, Yuchio Yanagawa, Birgit Weinhöhl, Hannelore Burkhardt, Herbert Hildebrandt*
- T1-3B** BAF155 CONTROLS NEUROGENESIS BY POTENTIATING PAX6-DEPENDENT TRANSCRIPTIONAL ACTIVITY  
*Tran Cong Tuoc, Anastassia Stoykova*
- T1-4B** SUNITINIB - A CROSSTALK OF ANTIANGIOGENIC AND NEUROPROTECTIVE EFFECTS  
*Stefan W. Hock, Zheng Fan, Tina Sehm, Michael Buchfelder, Ilker Y. Eyüpoglu, Nic E. Savaskan*
- T1-5B** ANALYSIS OF POLYSIALIC ACID EXPRESSION BY NG2 GLIA IN DEVELOPMENT AND DURING REMYELINATION AFTER CUPRIZONE-INDUCED DEMYELINATION  
*Sebastian Werneburg, Martina Mühlenhoff, Thomas Skripuletz, Martin Stangel, Herbert Hildebrandt*
- T1-6B** ANALYZING SCHWANN CELL DEVELOPMENT ALONG GROWING AXONS  
*Stephan Heermann, Markus H. Schwab, Kerstin Kriegstein*
- T1-7B** NEURONAL MIGRATION ILLUMINATED: A LOOK UNDER THE HOOD OF THE LIVING NEURON  
*David Joseph Solecki, Niraj Trivedi, Joseph Ramahi*
- T1-8B** THE ROLE OF FEEDBACK SIGNALING DURING CORTICOGENESIS  
*Srinivas Parthasarathy, Anjana Nityanandam, Santos Franco, Ulrich Mueller, Victor Tarabykin*
- T1-9B** FUNCTIONAL ANALYSIS OF STAR-FAMILY PROTEINS DURING OLIGODENDROGENESIS IN THE RODENT FOREBRAIN  
*Sabrina Schröder, Alexander von Holst*

## Friday

- T1-1C** CHONDROITINSULFOTRANSFERASES AND THEIR ROLE DURING FOREBRAIN DEVELOPMENT  
*Denise Harrach, Alexander von Holst*
- T1-2C** CDK5RAP2 EXPRESSION DURING MURINE AND HUMAN BRAIN DEVELOPMENT CORRELATES WITH CELLULAR PHENOTYPE IN MCPH3 PATIENTS  
*Lina Issa, Nadine Krämer, Christian H. Rickert, Olaf Ninnemann, Gisela Stoltenburg-Didinger, Deborah Morris-Rosendahl, Angela M. Kaindl*

- T1-3C** ASTROGLIAL CONNEXINS IN ADULT NEUROGENESIS: GAP JUNCTIONAL COUPLING IS MORE IMPORTANT THAN ADHESION  
*Jiong Zhang, Peter Bedner, Stephanie Griemsmann, Radek Dobrowolski, Karen Maass, Robert Pascal Requardt, Indra Lübckemeier, Klaus Willecke, Christian Steinhäuser, Martin Theis*
- T1-4C** GLIAL CELL DEVELOPMENT IN DROSOPHILA: FROM CELL FATE SPECIFICATION TO FUNCTION  
*Benjamin Altenhein, Christian M. von Hilchen, Jan Dietrich, Alvaro E. Bustos, Andres de Visser, Tina K. Altenhein*
- T1-5C** GENERATION OF MORBUS NIEMANN-PICK TYP C1 PATIENT SPECIFIC INDUCED PLURIPOTENT STEM CELLS  
*Michaela Trilck, Rayk Hübner, Arndt Rolfs, Moritz J. Frech*
- T1-6C** ROLES OF NEUROD2/6 IN CORTICAL PLATE FORMATION AND ESTABLISHMENT OF PYRAMIDAL NEURON IDENTITY  
*Kuo Yan, Ingo Bormuth, Markus H. Schwab, Klaus-Armin Nave, Victor Tarabykin*
- T1-7C** MCPH AND EFFECTS OF CDK5RAP2 DOWN-REGULATION IN MURINE EMBRYONIC STEM CELLS  
*Nadine Krämer, Lina Issa, Gerda Neubert, Andrea Seiler, Olaf Ninnemann, Angela M. Kaindl*
- T1-8C** INTERACTIONS BETWEEN THE MENINGES AND THE CORTICAL NEUROEPITHELIUM DURING MOUSE EMBRYONIC NEUROGENESIS  
*Richard Sturm, Alexander von Holst*
- T1-9C** NEW INSIGHTS ON TGFS AND FOXP1 CROSSTALK DURING EMBRYONIC BRAIN DEVELOPMENT  
*Riccardo Vezzali, Tanja Vogel*

## Saturday

- T1-1D** ASTROCYTE-ASSISTED NEURONAL DIFFERENTIATION OF IPS CELLS DERIVED FROM SKIN BIOPSIES OF PARKINSON'S DISEASE PATIENTS WITH GENETIC ALTERATIONS  
*Lisandro Jorge Falomir Lockhart, Michelle Gralle Botelho, Luis M.A. Oliveira, Sally K. Mak, Kun-Han Lin, Holger Taschenberger, Donna J. Arndt-Jovin, Birgitt Schuele, Thomas M. Jovin*
- T1-2D** TGF $\beta$ -IGF SIGNALING INTERPLAY IN MURINE FOREBRAIN DEVELOPMENT  
*Shalaka Dhanraj Wahane, Riccardo Vezzali, Stefan Weise, Mirja T. Prentzell, Kathrin Thedieck, Kerstin Kriegstein, Tanja Vogel*
- T1-3D** TGFBR2 CONDITIONAL KNOCK-OUT IN DEVELOPING TELEENCEPHALON REVEALS NEUROVASCULAR DEFECTS  
*Nicole Hellbach, Shalaka Wahane, Tanja Vogel*

- T1-4D** NEURONAL BHLH PROTEINS NEUROD2/6 REGULATE CORTICAL COMMISSURE FORMATION PRIOR TO MIDLINE INTERACTIONS  
*Ingo Bormuth, Kuo Yan, Tomoko Yonemasu, Maike Gummert, Mingyue Zhang, Sven Wichert, Olga Grishina, Alexander Pieper, Weiqi Zhang, Sandra Goebbels, Victor Tarabykin, Klaus-Armin Nave, Markus Schwab*
- T1-5D** DEVELOPMENTAL CHANGES IN THE COMPOSITION OF THE OLFACTORY BULB LAYERS IN THE AMERICAN MINK (NEOVISON VISON VAR. ATRATUS)  
*Elke Weiler, Willi Bennegger*
- T1-6D** ROLE OF HISTONE MODIFICATIONS DURING CEREBRAL CORTEX DEVELOPMENT  
*Deborah Roidl, Stefanie Heidrich, Jan Pruszek, Tanja Vogel*
- T1-7D** STAR FAMILY PROTEINS: CORTICAL EXPRESSION PATTERN AND FUNCTION IN MOUSE CORTICAL NEURAL STEM/PROGENITOR CELLS  
*Alexander von Holst, Bettina Bertam*
- T1-8D** DETERMINATION OF THE TGFBR MEDIATED PROTEOME IN THE CONTEXT OF NEUROVASCULAR DEVELOPMENT OF THE FOREBRAIN  
*Stefan Weise, Peer-Hendrik Kuhn, Nicole Hellbach, Stefan F. Lichtenthaler, Kathrin Thedieck, Tanja Vogel*

## T2: Axon and dendrite development, synaptogenesis

### Wednesday

- T2-1A** SEROTONIN GRADIENT IS IMPORTANT FOR CORRECT GUIDANCE OF PIONEER AXONS DURING MOLLUSC AND POLYCHAETE DEVELOPMENT  
*Elena E. Voronezhskaya, Viktor V. Starunov, Vyacheslav A. Dyachuk*
- T2-2A** WIRING UP SENSORY NEOCORTEX UNDER CONDITIONS OF MASSIVE CELLULAR DISORGANIZATION: DOES THE THALAMUS FIND ITS ECTOPIC TARGET CELLS IN REELER MUTANT MICE?  
*Robin J. Wagener, Jochen F. Staiger*
- T2-3A** ROLE OF DHHC3 TYROSINE PHOSPHORYLATION IN THE CONTROL OF ITS EXPRESSION AND FUNCTIONAL ACTIVITY  
*Tatiana Kuznetsova, Patricia Maria-Jeanne Lievens, Natalia Gorinski, Gaga Kochlamazashvili, Evgeni Ponimaskin, Alexander Dityatev*
- T2-4A** LAYER 6B AS A REMNANT OF THE DEVELOPING SUBPLATE - A MORPHOLOGICAL COMPARISON  
*Manuel Marx, Ileana Hanganu-Opatz, Werner Kilb, Heiko Luhmann, Dirk Feldmeyer*

- T2-5A** FUNCTIONAL ANALYSIS OF LRP4 DURING DENDRITIC DEVELOPMENT  
*Andromachi Karakatsani, Stephan Kröger*
- T2-6A** ISOFORM-SPECIFIC FUNCTIONS OF PROFILIN1 AND PROFILIN2A IN THE MOUSE HIPPOCAMPUS  
*Sabine Zessin, Anita Remus, Martin Rothkegel, Martin Korte, Kristin Michaelsen-Preusse*

### Thursday

- T2-1B** POSTEMBRYONIC DEVELOPMENT OF THE LOCUST MUSHROOM BODY  
*René Eickhoff, Gerd Bicker*
- T2-2B** DIFFERENT APPROACHES TO ENHANCE NEURONAL FIBRE GROWTH IN ORGANOTYPIC DOPAMINERGIC BRAIN SLICE CO-CULTURES  
*Katja Sygnecka, Claudia Heine, Nico Scherf, Heike Franke*
- T2-3B** REGULATION OF SYNAPTIC STRUCTURE AND FUNCTION BY THE CDC42 GAP, NIMA-GAP  
*Steffen Schuster, Marta Rosário*
- T2-4B** NEDDYLATION CONTROLS DENDRITIC SPINE DEVELOPMENT AND STABILITY: CRITICAL ROLE OF PSD-95 NEDDYLATION  
*Marisa Brockmann, Annette Vogl, Sebastian Giusti, Valentin Stein, Damian Refojo*
- T2-5B** ROLE OF NEUROD TRANSCRIPTION FACTORS IN PYRAMIDAL NEURON DIFFERENTIATION  
*Olga Grishina, Ingo Bormuth, Kuo Yan, Tomoko Yonemasu, Sandra Goebbels, Klaus-Armin Nave, Victor Tarabykin, Markus H. Schwab*
- T2-6B** MACHR SIGNALING IN PERINATAL NEOCORTEX PROMOTES EXPRESSION OF SYNAPTIC PROTEINS  
*Petra Wahle, Olga Arne, Mohammad IK Hamad, Janine R. Neumann*

### Friday

- T2-1C** THE SURVIVAL PROMOTING PEPTIDE Y-P30 INDUCES SRC PHOSPHORYLATION IN AXONAL GROWTH CONES  
*Martin Meschkat, Janine R Neumann, Petra Wahle*
- T2-2C** REELIN AND THE CDC42/RAC1 GUANINE NUCLEOTIDE EXCHANGE FACTOR  $\alpha$ PIX/ARHGEF6 PROMOTE DENDRITIC GOLGI TRANSLOCATION  
*Eckart Förster, Georg Rosenberger, Maurice Meseke*
- T2-3C** GROWTH PATTERNS OF SENSORY NEURON AXON TERMINALS IN THE DEVELOPING OLFACTORY BULB  
*Thomas Hassenklöver, Ivan Manzini*
- T2-4C** DECIPHERING THE NEUREXIN CODE IN THE NEURONAL CIRCUITRY  
*Dietmar Schreiner, Thi-Minh-Phuc Nguyen, Jovan Simicevic, Alexander Schmidt, Peter Scheiffele*

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

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

### Saturday

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

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

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

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

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

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

## T3: Developmental cell death, regeneration and transplantation

### Wednesday

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

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

### Thursday

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

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

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

### Friday

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

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

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

### Saturday

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

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

## T4: Neurotransmitters, retrograde messengers and cytokines

### Wednesday

- T4-1A** IMAGING AND ANALYSIS OF SEROTONIN RELEASE FROM STEM CELL-DERIVED SEROTONERGIC NEURONS  
*Thorsten Lau, Verena Proissl, Annabelle Schlüter, Patrick Schloss*
- T4-2A** SEROTONIN INSIDE AND OUTSIDE THE CELL DURING PRENERVOUS STAGES IS ESSENTIAL FOR CORRECT DEVELOPMENT AND JUVENILE BEHAVIOR  
*Evgeny G. Ivashkin, Igor I. Adameyko, Olga A. Kharchenko, Marina Yu. Khabarova, Elena E. Voronezhskaya*
- T4-3A** MONOAMINERGIC INTERACTIONS WITH IDENTIFIED INTERNEURONS IN THE BASOLATERAL AMYGDALA: COMPARATIVE INVESTIGATIONS IN RATS, WILDTYPE AND SEROTONIN TRANSPORTER (5HTT)-DEFICIENT MICE  
*Christoph Renninger, Henning Schwert, Maria Steinke, Jonas Waider, Angelika Schmitt, Esther Asan*

### Thursday

- T4-1B** IDENTIFICATION OF DONOR AND TARGET CELLS OF THE NO/CGMP PATHWAY IN THE BRAIN OF TRIBOLIUM CASTANEUM  
*Björn Trebels, Carsten M. Heuer, Joachim Schachtner*
- T4-2B** NITRIC OXIDE/ CGMP-SIGNALING REGULATES THE EXCITATORY/ INHIBITORY INPUT ONTO HIPPOCAMPAL CA1 PYRAMIDAL CELLS  
*Angela Neitz, Thomas Mittmann*

### Friday

- T4-1C** DISSECTING THE ROLE OF SEROTONIN IN THE FEEDING BEHAVIOR OF THE ADULT DROSOPHILA MELANOGASTER  
*Shreyas Venkataraman Jois, Henrike Scholz*
- T4-2C** PKG AND HONEY BEE BEHAVIOR  
*Markus Thamm, Ricarda Scheiner*

### Saturday

- T4-1D** INFLUENCE OF THE EXTRACELLULAR MATRIX ON GLUTAMATE UPTAKE  
*Jose Francisco Alfaro Sanchis, Martin Heine, Artur Bikbaev, Renato Frischknecht*
- T4-2D** ENDOCANNABINOID SIGNALLING IN THE MEDIAL SUPERIOR OLIVE  
*Barbara Trattner, Sarah Berner, Benedikt Grothe, Lars Kunz*
- T4-3D** DESCENDING OA3/TA INTERNEURONS OF THE LOCUST BRAIN  
*Sergej Hartfil, Natalia Kononenko, Julia Willer, Hans-Joachim Pflüger*

## T5: G Protein-linked and other receptors

### Wednesday

- T5-1A** THROMBIN REGULATION OF SYNAPTIC TRANSMISSION: IMPLICATIONS FOR SEIZURES ONSET  
*Nicola Maggio, Carlo Cavaliere, Michele Papa, Ilan Blatt, Joab Chapman, Menahem Segal*
- T5-2A** CALCINEURIN – FUNCTIONAL IMPLICATIONS FOR A NEURONAL PROTEIN PHOSPHATASE IN AN INSECT MODEL FOR FLUID SECRETION  
*Kristoffer Heindorff, Bernd Walz, Otto Baumann*
- T5-3A** CONFOCAL IMAGING OF RECEPTOR MEDIATED PI(4,5)P2-DYNAMICS IN CA1 PYRAMIDAL NEURONS  
*Sandra Hackelberg, Dominik Oliver*

### Thursday

- T5-1B** GABAB RECEPTOR-MEDIATED INHIBITION OF SYNAPTIC INPUT ONTO SOMATOSTATIN-IMMUNOREACTIVE INTERNEURONS IN THE HIPPOCAMPUS  
*Sam Anthony Booker, Annabelle L Gee, Jie Song, Akos Kulik, Imre Vida*
- T5-2B** COCKROACH GABAB RECEPTOR SUBTYPES  
*Stefanie Blankenburg, Wolfgang Blenau*

### Friday

- T5-1C** DIFFERENTIAL SENSITIVITY OF TWO FLUORESCENT BIOSENSORS TO RECEPTOR-INDUCED PIP2 DEPLETION  
*Olga Nikolaevna Ivanova, Dominik Oliver*
- T5-2C** THE EFFECTS OF STRESS ON GALANIN PEPTIDE SYSTEM IN THE RAT PITUITARY: EXPRESSION OF MRNA AND IMMUNOHISTOCHEMISTRY OF GALANIN RECEPTOR SUBTYPES  
*Vera Klenerova, Sixtus Hynie*

### Saturday

- T5-1D** BIOSENSOR IMAGING SHOWS THAT INHIBITORS OF TYPE 10 PHOSPHODIESTERASE INCREASE PKA ACTIVITY SPECIFICALLY IN STRIATAL NEURONS OF THE INDIRECT PATHWAY  
*Marina Polito, Liliana R.V. Castro, Danièle Paupardin-Tritsch, Pierre Vincent*
- T5-2D** ALANINE-87-THREONINE POLYMORPHISM OF THE HUMAN P2Y11 RECEPTOR IMPEDES RECEPTOR INTERNALIZATION IN HEK293 CELLS AND IMPACTS CALCIUM SIGNALLING AND ERK PHOSPHORYLATION AS WELL AS RECEPTOR RESENSITIZATION  
*Georg Reiser, Michael Haas, Ahmed Shaaban*

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

### Wednesday

- T6-1A** THE EXTRACELLULAR MATRIX AFFECTS SURFACE EXPRESSION OF GLUN2B CONTAINING NMDA RECEPTORS  
*Barbara C. Schweitzer, Laurant Groc, Martin Heine, Renato Frischknecht*
- T6-2A** MULTIPLE BINDING SITES ENABLE A DYNAMIC INTERACTION OF GLYCINE RECEPTORS AND GEPHYRIN  
*Nora Grünwald, Vanessa Kress, Tobias Lamkemeyer, Günter Schwarz*
- T6-3A** AVERSION TO NICOTINE IS REGULATED BY THE BALANCED ACTIVITY OF  $\beta 4$  AND  $\alpha 5$  NICOTINIC RECEPTOR SUBUNITS IN THE MEDIAL HABENULA  
*Silke Frahm, Marta Anna Slimak, Leiron Ferrarese, Julio Santos-Torres, Beatriz Antolin-Fontes, Sebastian Auer, Sergey Filkin, Stephanie Pons, Jean-Fred Fontaine, Victor Tsetlin, Uwe Maskos, Ines Ibanez-Tallon*
- T6-4A** ACID-SENSING ION CHANNELS AND HEPATIC ENCEPHALOPATHY  
*Pia Bresenitz, Stefan Gruender*
- T6-5A** PREVENTION OF BEHAVIORAL AND CORTICAL EXCITABILITY IN AN M-CHANNEL DEPENDENT EPILEPSY PHENOTYPE  
*Stephan Marguet, Quyen Le, Andrea Merseburg, Axel Neu, Fabio Morellini, Dirk Isbrandt*
- T6-6A** TRAFFICKING ANALYSES OF THE CATION CHLORIDE COTRANSPORTER KCC2  
*Timo Beyer, Anna-Maria Hartmann, Hans Gerd Nothwang*
- T6-7A** DEVELOPMENTAL DIFFERENCES IN PH REGULATION AND INFLUENCE OF PH ON NEURONAL EXCITABILITY  
*Benedikt Salmen, Joerg Roesner, Dietmar Schmitz*
- T6-8A** WHICH GABAA RECEPTOR SUBUNITS ARE NECESSARY FOR TONIC INHIBITION IN CENTRAL AMYGDALA?  
*Hector Romo-Parra, Tatyana Kanishkova, Hans-Christian Pape*

### Thursday

- T6-1B** NEW ASPECTS OF CAV1.4 L-TYPE CALCIUM CHANNEL MUTANTS LINKED TO CONGENITAL STATIONARY NIGHT BLINDNESS TYPE 2  
*Verena Burtscher, Klaus Schicker, Sakine Korkmaz, Christof Kugler, Anamika Singh, Thomas Stockner, Alexandra Koschak*
- T6-2B** MODELING THE RELATIONS BETWEEN NEURONAL MEMBRANE POTENTIALS, ION CURRENTS AND ION CHANNEL STATES  
*Aubin Tchaptchet, Hans Albert Braun*

- T6-3B** DISTRIBUTION AND FUNCTIONAL IMPLICATION OF VOLTAGE-GATED  $CA^{2+}$  CHANNELS IN THE SEPTO-HIPPOCAMPAL SYSTEM  
*Christina Henseler, Magdalena Elisabeth Siwek, Anna Papazoglou, Marco Weiergräber, Karl Broich*
- T6-4B** LOOP D OF THE HUMAN GLYCINE RECEPTOR  $\alpha 1$  SUBUNIT – A SUSCEPTIBLE SITE FOR MUTATIONS ASSOCIATED WITH HYPEREKPLEXIA  
*Natascha Schaefer, Christoph Kluck, Solveig Schulz, Carmen Villmann*
- T6-5B** REDUCED HIPPOCAMPAL GABAERGIC ACTIVITY IN A LOW BIRTH WEIGHT RAT MODEL OF DEPRESSION  
*Zita Dosa, Jose Luis Nieto-Gonzalez, Betina Elfving, Karin S. Hougaard, Mai M. Holm, Gregers Wegener, Kimmo Jensen*
- T6-6B** N- AND C-TERMINI OF ASIC4 DIRECT THE CHANNEL INTO EARLY ENDOSOMES  
*Katharina Friedrich, Georg Polleichtner, Stefan Gründer*
- T6-7B** INTER-SUBUNIT DISULFIDE BOND FORMATION INDICATES P2X3 RECEPTOR ECTODOMAIN MOVEMENT  
*Maria Kowalski, Peter Illes, Thomas Riedel*
- T6-8B** DIFFERENTIAL EXPRESSION OF HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE GATED CHANNEL ISOFORMS (HCN1–4) IN NEOCORTICAL TISSUES FROM PATIENTS WITH TEMPORAL LOBE EPILEPSY  
*Stephan Wierschke, Peter Horn, Christoph Dehnicke, Anja U. Bräuer, Rudolf A. Deisz*

### Friday

- T6-1C**  $CA^{2+}$  CHANNEL PROMISCUITY OF SMALL CONDUCTANCE  $CA^{2+}$ -ACTIVATED  $K^{+}$  CHANNELS (SK) IN HIPPOCAMPAL PYRAMIDAL NEURONS  
*Felix Benninger, Shmuel Chen, Yoel Yaari*
- T6-2C** DIFFERENTIAL REGULATION OF CHLORIDE TRANSPORTER EXPRESSION BY BIOELECTRIC ACTIVITY IN CHICKEN AUDITORY BRAINSTEM IN VITRO  
*Marcus Joseph Wirth, Desirée Kupsch, Julia Krebbers, Hermann Wagner*
- T6-3C** MODULATORY EFFECT OF HISTAMINE ON LIGAND-GATED ION CHANNELS  
*Ulrike Thiel, Philipp Lorenz, Olaf Kletke, Hanns Hatt, Günter Gisselmann*
- T6-4C** ALTERATIONS IN INPUT RESISTANCE, SPIKE THRESHOLD AND FIRING PROPERTIES OF LAYERS 2/3 PYRAMIDAL NEURONS FOLLOWING FOCAL LASER LESIONS IN THE RAT VISUAL CORTEX  
*Barbara Imbrosci, Thomas Mittmann*
- T6-5C** HIPPOCAMPAL VESICULAR GABA TRANSPORTERS AS TARGETS FOR IN VIVO LABELLING OF INHIBITORY SYNAPSES AND IMMUNOLESIONING OF GABAERGIC NEURONS  
*Wolfgang Härtig, Alán Alpár, Flavia Antonucci, Johannes Kacza, Claudia Verderio, Henrik Martens, Jens Grosche, Dominik Michalski, Michela Matteoli, Tibor Harkany*



**T6-6C** IMMUNOCYTOCHEMICAL AND ELECTROPHYSIOLOGICAL CHARACTERIZATION OF GFP-EXPRESSING GABAERGIC INTERNEURONS OF THE ADULT MOUSE CINGULATE CORTEX

*Maria-Therese Riedemann, Bernd Sutor*

**T6-7C** ACTIVATION OF GLYCINE RECEPTORS MODULATES SPONTANEOUS EPILEPTIFORM ACTIVITY IN THE IMMATURE RAT HIPPOCAMPUS

*Rongqing Chen, Akihito Okabe, Haiyan Sun, Salim Sharopov, Sergei N. Kolbaev, Ileana L. Hanganu-Opatz, Atsuo Fukuda, Heiko J. Luhmann, Werner Kilb*

### Saturday

**T6-1D** OPTOCHEMICAL CONTROL OF GENETICALLY ENGINEERED GLUTAMATE AND ACETYLCHOLINE RECEPTORS IN *C. ELEGANS*

*Jatin Nagpal, Jana Liewald, Tatsuya Urushima, Dirk Trauner, Alexander Gottschalk*

**T6-2D** SUPPRESSION OF HCN CHANNEL-MEDIATED CURRENT (IH) IN FOREBRAIN NEURONS IMPAIRS EARLY POSTNATAL SENSORIMOTOR DEVELOPMENT AND ALTERS NEONATAL CORTICAL NETWORK ACTIVITY

*Andrea Merseburg, Anna Katharina Schlusche, Stephan Marguet, Jasper Grendel, Zhuo Huang, Mala Shah, Fabio Morellini, Dirk Isbrandt*

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

*Christian Wetzel*

**T6-4D** NOVEL SPLICE VARIANT OF CALMODULIN INHIBITS HUMAN CAV2.3 E-/R-TYPE VOLTAGE-GATED CA2+ CHANNELS IN HEK-293 CELLS

*Toni Schneider, Marcel A. Kamp, Behzad Shakeri, Juergen Hescheler, Lucie Parent*

**T6-5D** DISSECTING THE ACTIVATION OF AMPA RECEPTORS

*Andrew John Plested, Miriam Chebli, Hector Salazar, Valentina Ghisi, Jelena Baranovic, Kajta Faelber, Oliver Daumke*

**T6-6D** RAB8A MEDIATES ACIDOSIS-INDUCED TRAFFICKING OF NBCE1-A IN HIPPOCAMPAL NEURONS

*Eleni Roussa, Jan Manuel Speer, Oliver Oehlke*

**T6-7D** REGULATION OF ACID-BASE TRANSPORTERS IN EPILEPSY

*Magdalena Schroedl, Oliver Oehlke, Jan Manuel Speer, Eleni Roussa*

**T6-8D** LYSOPHOSPHATIDIC ACID ACTIVATES SPINAL NERVE TRESK BACKGROUND POTASSIUM CHANNELS

*Sina Kollert, Frank Döring, Erhard Wischmeyer*

## T7: Synaptic transmission, pre- and postsynaptic organization

### Wednesday

**T7-1A** AMYLOID PRECURSOR PROTEINS ARE CONSTITUENTS OF THE PRESYNAPTIC ACTIVE ZONE DERIVED FROM MURINE BRAIN

*Melanie Laßek, Jens Weingarten, Ilaria Lunger, Teresa Schubach, Kristine Gampe, Ulrike Müller, Walter Volkandt*

**T7-2A** THE PROTEOME OF THE PRESYNAPTIC ACTIVE ZONE DERIVED FROM MOUSE BRAIN

*Jens Weingarten, Melanie Laßek, Benjamin Müller, Ilaria Lunger, Simone Dudek, Patrick Vancura, Michael Karas, Walter Volkandt*

**T7-3A** DEVELOPMENT OF TOOLS FOR REAL-TIME SIMULTANEOUS VISUALIZATION OF ECM, GLIAL, PRE- AND POSTSYNAPTIC STRUCTURES

*Mikhail Filippov, Svetlana Korotchenko, Alexander Dityatev*

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

*Daniele Marongiu, Barbara Imbrosci, Thomas Mittmann*

**T7-5A** NMDA RECEPTOR DEPENDANCE OF COMPLEX SPIKE BURSTS IN CA1 HIPPOCAMPAL NEURONS IN VIVO

*Christine Grienberger, Xiaowei Chen, Arthur Konnerth*

**T7-6A** GENERATION OF A FIRST COMPREHENSIVE PROTEIN INTERACTION MAP FOR THE CHEMICAL SYNAPSE

*Philipp Trepte, Angeli Möller, Martin Schäfer, Miguel Andrade, Erich E Wanker*

**T7-7A** STRUCTURE-FUNCTION ANALYSIS OF THE VESICULAR GLUTAMATE TRANSPORTER 1 C-TERMINUS

*Julia Jordan, Melissa Herman, Thorsten Trimbuch, Christian Rosenmund*

**T7-8A** HETEROGENEOUS EFFECTS OF ADENOSINE ON LAYER 4 SYNAPTIC TRANSMISSION IN RAT BARREL CORTEX

*Guanxiao Qi, Karlijn van Aerde, Dirk Feldmeyer*

**T7-9A** MECHANISMS OF KHZ-TRANSMISSION AT A CENTRAL SYNAPSE

*Andreas Ritzau-Jost, Annika Weyhersmüller, Igor Delvendahl, Johannes Hirrlinger, Hartmut Schmidt, Jens Eilers, Stefan Hallermann*

**T7-10A** PROTEIN DISTRIBUTIONS UNDERLYING DIFFERENTIAL DENDRITIC CALCIUM SIGNALING IN CEREBELLAR PURKINJE CELLS

*Christian D. Wilms, Tiago Branco, Kristina D. Micheva, Stephen J. Smith, Michael Häusser*

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

### Thursday

- T7-1B** DYNAMIN 1-DEPENDENT ENDOCYTOSIS AT THE INNER HAIR CELL SYNAPSE  
*Jakob Neef, Sangyong Jung, Christine Lenz, Rebecca M. Boumil, Wayne N. Frankel, Pietro De Camilli, Nicola Strenzke, Tobias Moser*
- T7-2B** THE ROLE OF PSD-95 AND KINASE INTERACTIONS IN SYNAPTIC FUNCTION  
*Seniye Derya Akad, Oliver M. Schlüter*
- T7-3B** THE ROLE OF COMPLEXIN I IN SYNAPTIC TRANSMISSION AND SHORT-TERM PLASTICITY AT THE CALYX OF HELD SYNAPSE  
*Shuwen Chang, Meike Pedersen, Kerstin Reim, Holger Taschenberger*
- T7-4B** ACTIVITY OF NPS-NEURONS IS MODULATED BY DYNORPHIN A – INDICATIONS FOR A CENTRAL AMYGDALAR NEGATIVE FEEDBACK  
*Kay Jüngling, Hanna Szkudlarek, Frank Erdmann, Hans-Christian Pape*
- T7-5B** MICRORNA137 REGULATES THE EXPRESSION OF SYNAPTIC PROTEINS AND IS INVOLVED IN SYNAPTIC PLASTICITY AND LEARNING AND MEMORY  
*Sandra Siegert, Ester J Kwon, Andrii Rudenko, Jinsoo Seo, Sukhee Cho, Wenyuan Wang, Zachary Flood, Li-Huei Tsai*
- T7-6B** FROM PATTERN GENERATOR TO SOUND RECEPTOR, HAIR CELLS ADJUST CA<sub>2+</sub> SIGNALING TO THEIR FUNCTION DURING DEVELOPMENT  
*Aaron Benson Wong, Mark Allen Rutherford, Zhizi Jing, Thomas Frank, Tina Pangrsic, Nicola Strenzke, Carolin Wichmann, Tobias Moser*
- T7-7B** ABUNDANCE OF SYNAPSIN PROTEINS REGULATES THE SIZE OF SYNAPTIC VESICLES AND ACTIVE ZONES  
*Mariya Vasileva, Robert Renden, Heinz Horstmann, Daniel Gitler, Thomas Kuner*
- T7-8B** NEUROPLASTIN-65 REGULATES STRUCTURE AND MAINTENANCE OF EXCITATORY SYNAPSES AND GABAA RECEPTOR LOCALIZATION AT INHIBITORY SYNAPSES  
*Rodrigo Herrera-Molina, Martin Heine, Karl-Heinz Smalla, Constanze I. Seidenbecher, Eckart D. Gundelfinger, Dirk Montag*
- T7-9B** MEMBRANE TARGETING OF COLLYBISTIN IS REQUIRED FOR GEPHYRIN CLUSTERING AT INHIBITORY POST-SYNAPSES  
*Simone Mayer, Tolga Soykan, Nils Brose, Heinrich Betz, Theofilos Papadopoulos*

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

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

### Friday

- T7-1C** MOLECULAR REGULATION OF CA<sub>2+</sub>-DEPENDENT NEUROTROPHIN SECRETION IN HIPPOCAMPAL NEURONS BY CAPS1  
*Robert Eckenstaler, Thomas Munsch, Tanja Brigadski, Volkmar Leßmann*
- T7-2C** MECHANISMS UNDERLYING HETEROGENEITY OF CA<sub>2+</sub> SIGNALING AMONG HAIR CELL ACTIVE ZONES  
*Tzu-Lun Wang, Mark.A. Rutherford, Tobias Moser*
- T7-3C** EXTRA CELLULAR MATRIX DIFFERENTLY AFFECTS MOBILITY OF AMPA RECEPTORS IN SPINY AND ASPINY SYNAPSES  
*Yulia Klyueva, Renato Frischknecht, Martin Heine*
- T7-4C** GENE EXPRESSION PROFILING OF GLOBULAR BUSHY CELLS DURING SYNAPTIC MATURATION  
*Christoph Körber, Anna Dondzillo, Gisela Eisenhardt, Oliver Wafzig, Thomas Kuner*
- T7-5C** FUNCTIONAL AND DYNAMIC PROPERTIES OF DENDRITIC VERSUS PERISOMATIC INHIBITION IN HIPPOCAMPAL NEURONAL NETWORKS  
*Shakuntala Savanthrapadian, Imre Vida, Marlene Bartos*
- T7-6C** REGULATION OF PRESYNAPTIC CA<sub>2+</sub> INFLUX DURING TRAINS OF ACTION POTENTIAL-LIKE STIMULI  
*Kun-Han Lin, Holger Taschenberger*
- T7-7C** CHARACTERISATION OF THE TRANSPORT OF ACTIVE ZONE PROTEINS TO SYNAPSES  
*Tina Ghelani, Thomas Dresbach, Nina Wittenmayer*
- T7-8C** SUPER RESOLUTION IMAGING OF BRAIN-DERIVED NEUROTROPHIC FACTOR IN SYNAPSES OF HIPPOCAMPAL NEURONS IN VITRO  
*Robert Blum, Thomas Andreska, Sarah Aufmkolk, Sebastian van de Linde, Markus Sauer*
- T7-9C** ANALYSIS OF COMPARTMENT-SPECIFIC AND CELL AUTONOMOUS LOSS-OF-FUNCTION OF MECP2  
*Avani Shukla, Oliver Schlüter*
- T7-10C** DENDRITIC ORIGIN OF AXONS IN CA1 PYRAMIDAL NEURONS  
*Christian Thome, Tony Kelly, Maren Engelhardt, Martin Both, Sidney Cambridge, Andreas Draguhn, Heinz Beck, Christian Schultz, Alexei V. Egorov*

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

### Saturday

- T7-1D** A NEW VERTEBRATE-SPECIFIC PRESYNAPTIC PROTEIN AS MOLECULAR COMPONENT OF THE ENDBULB OF HELD  
*Friederike Wetzel, Thomas Dresbach*
- T7-2D** CHARACTERIZATION OF THE FUNCTIONAL DOMAINS OF A NOVEL PRESYNAPTIC PROTEIN:MOVER  
*Asha Kiran Akula, Saheeb Ahmed, Camin Dean, Thomas Dresbach*
- T7-3D** CHANGES IN THE SYNCHRONY OF CROSS-SYNAPTIC OUTPUT OF A RETINAL NEURON  
*William N Grimes, Fred Rieke*
- T7-4D** NOVEL GENETIC MOUSE MODEL FOR BASSOON AND PICCOLO ALLOWING FUNCTIONAL STUDIES IN DEVELOPING AND ADULT BRAIN  
*Sabrina Müller, Anil Annamneedi, Anna Fejtová, Eckart D. Gundelfinger*
- T7-5D** PRESYNAPTIC TARGETING OF MOVER INVOLVES A SELF-INTERACTION DOMAIN  
*Thomas Dresbach, Asha Kiran Akula, Nina Wittenmayer, Jan Höber*
- T7-6D** GABA RELATED PROTEINS PERSIST BEYOND THE DEVELOPMENTAL GABA TO GLYCINE SHIFT AT INHIBITORY AUDITORY BRAINSTEM SYNAPSES OF MICE  
*Alexander Fischer, Jennifer Smuda, Matthew A. Xu-Friedman, Eckhard Friauf, Désirée Griesemer*
- T7-7D** MECHANISMS OF NEUROTRANSMITTER RELEASE AT THE INNER HAIR CELL RIBBON SYNAPSES  
*Nikolai M. Chapochnikov, Hideki Takago, Elisabeth Auge, Caroline Wichmann, Tobias Moser, Fred Wolf*
- T7-8D** ANALYSIS OF THE BALANCED STATE IN A 2-POPULATION NETWORK BY MEAN-FIELD THEORY  
*Alexander Schmidt, Fred Wolf, Michael Monteforte*
- T7-9D** PROPERTIES OF SYNAPTIC TRANSMISSION AT A CORTICOTHALAMIC GIANT SYNAPSE IN MICE  
*Francisco José Urrea Quiroz, Thomas Kuner*
- T7-10D** FUNCTIONAL CHANGES OF PRESYNAPTIC ACTIVE ZONE INDUCED BY ENDOGENOUS AMYLOID BETA  
*Maria Andres-Alonso, Vesna Lazarevic, Eckart Gundelfinger, Anna Fejtova*
- T7-11D** C-TERMINAL BINDING PROTEIN 1: A NOVEL NEURONAL METABOLIC SENSOR INVOLVED IN THE ACTIVITY-DEPENDENT GENE EXPRESSION  
*Anika Dirks, Daniela Ivanova, Cornelia Schoene, Denny Schanze, Anna Fejtova, Eckart D. Gundelfinger*

## T8: Synaptic plasticity, LTP, LTD

### Wednesday

- T8-1A** HETEROSYNAPTIC PLASTICITY AT NEOCORTICAL PYRAMIDAL NEURONS: MECHANISMS AND POSSIBLE ROLE IN NEURONAL NETWORKS  
*Marina Chistyakova, Chris Lee, Jen-Yung Chen, Maxim Bazhenov, Maxim Volgushev*
- T8-2A** ACTIVITY DEPENDENT PROCESSING OF BREVICAN BY EXTRACELLULAR PROTEOLYSIS  
*Jeet Bahadur Singh, Juan-Carlos Valenzuela, Eckart D. Gundelfinger, Constanze Seidenbecher, Renato Frischknecht*
- T8-3A** ROLE OF METABOTROPIC GLUTAMATE RECEPTOR SUBTYPE 5 IN SYNAPTIC PLASTICITY AND COGNITION  
*Hamdy Shaban, Marie Pollard, Erik De Prins, Thomas Steckler*
- T8-4A** GLOBAL DEPRIVATION OF BDNF REVEALS ITS CELL TYPE-SPECIFIC EFFECT ON NEURONAL ARCHITECTURE  
*Anita Remus, Marta Zagrebelsky, Martin Korte*
- T8-5A** DENDRITE STRUCTURE AND SYNAPTIC PLASTICITY ARE ALTERED IN THE HIPPOCAMPUS OF CORTACTIN KNOCKOUT MICE  
*Kristin Michaelsen-Preusse, Melissa O'Brien, Ulrike Herrmann, Klemens Rottnier, Martin Korte*
- T8-6A** ELECTRICAL ACTIVATION OF THE LOCUS COERULEUS INDUCES HIPPOCAMPAL LTD IN THE DENTATE GYRUS  
*Niels Hansen, Denise Manahan-Vaughan*
- T8-7A** NOGO-A ORCHESTRATE ACTIN DYNAMICS WITHIN DENDRITIC SPINE OF MATURE HIPPOCAMPAL NEURONS  
*Yves Kellner, Martin E. Schwab, Martin Korte, Marta Zagrebelsky*
- T8-8A** MICRORNA EXPRESSION IN THE BARREL CORTEX AFTER SENSORY STIMULATION  
*Ines Khadimallah, Nathalie Wenger, Rudolf Kraftsik, Romano Regazzi, Guylène Kirschmann, Egbert Welker*

### Thursday

- T8-1B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF THE INHIBITORY MNTB-LSO CONNECTION UPON PROLONGED HIGH FREQUENCY STIMULATION: THE EFFECT OF INTERMITTENT STIMULI  
*Martin Fuhr, Eckhard Friauf*
- T8-2B** "FUNCTIONAL ROLE OF METABOTROPIC GROUP I GLUTAMATE RECEPTORS IN SYNAPTIC PLASTICITY AT GRANULE CELL – BASKET CELL SYNAPSES"  
*Thomas Hainmüller, Akos Kulik, Marlene Bartos*

- T8-3B** MOSSY FIBER – CA3 AND ASSOCIATIONAL COMMISSURAL CA3 SYNAPSES REVEAL DIFFERENCES IN THE PROTEIN SYNTHESIS-DEPENDENCY OF PERSISTENT PLASTICITY IN VIVO  
*Hardy Hagen, Denise Manahan-Vaughan*
- T8-4B** PHEROMONAL REGULATION OF SYNAPTIC PLASTICITY IN THE MUSHROOM-BODY CALYX DURING ADULT BEHAVIORAL MATURATION IN THE HONEYBEE  
*Thomas Sebastian Muenz, Claudia Groh, Alban Maisonnasse, Kornelia Grübel, Yves Le Conte, Wolfgang Rössler*
- T8-5B** LONG-TERM PLASTICITY AT THE OLFACTORY BULB MITRAL – GRANULE CELL SYNAPSE  
*Mahua Chatterjee, Fernando Pérez de los Cobos Pallarés, Veronica Egger*
- T8-6B** EPENDYMIN: EXPRESSION STUDIES OF A MICRO-HETEROGENEIC SIALOPROTEIN IN THE NERVOUS SYSTEM  
*Donato Penninella, Rupert Schmidt*
- T8-7B** ENHANCEMENT OF CHOLINERGIC OUTPUT IN *C. ELEGANS* BY THE BEGGIATOA SP. PHOTO-ACTIVATABLE ADENYLYL CYCLASE  
*Wagner Steuer Costa, Jana Fiona Liewald, Peter Hegemann, Alexander Gottschalk*
- T8-8B** DISSECTING THE MECHANISMS OF LONG-TERM DEPRESSION IN VISUAL CORTEX  
*Plinio das Neves Favaro, Oliver M. Schlüter*

### Friday

- T8-1C** DIFFERENTIAL PRE- AND POSTSYNAPTIC CONTRIBUTION TO T-LTP EXPRESSION IN HIPPOCAMPAL CA1 REGION DEPENDS ON INDUCTION PARADIGM  
*Martin Wilhelm Erich Franck, Volkmar Leßmann, Elke Edelmann*
- T8-2C** METAPLASTICITY BY RYANODINE RECEPTOR ACTIVATION PROMOTES THE RECOVERY OF SYNAPTIC IMPAIRMENTS IN THE APP/PS1 MOUSE MODEL OF ALZHEIMER'S DISEASE  
*Qin Li, Martin Korte, Sreedharan Sajikumar*
- T8-3C** EFFECTS OF A SPATIAL LEARNING TASK ON THE MAMMALIAN EPENDYMIN RELATED PROTEIN (MERP)  
*David Hinchliffe, Rupert Schmidt*
- T8-4C** DYNAMICS OF THE SYNAPTIC FUCOSYL PROTEOME  
*Nicole Höche, Karin Richter, Thilo Kähne, Wolfgang Tischmeyer, Karl-Heinz Smalla, Daniela C. Dieterich*
- T8-5C** NOGO-A SIGNALING PLAYS A MAJOR ROLE IN MODULATING DENDRITIC SPINE DYNAMICS IN CA3 HIPPOCAMPAL NEURONS  
*Marta Zagrebelsky, Martin E. Schwab, Martin Korte*
- T8-6C** NOREPINEPHRINE GATES HIPPOCAMPAL STD-LTP BY POTASSIUM CHANNEL INACTIVATION  
*Yanling Liu, Oliver M. Schlueter*

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

### Saturday

- T8-1D** ANALYSIS OF CONDITIONAL APP/APLP2 DOUBLE KNOCK-OUT MICE REVEALS A STRONG HIPPOCAMPAL CA3-CA1 LTP DEFECT  
*Ulrike Herrmann, Meike Hick, Ulrike Müller, Martin Korte*
- T8-2D** SYNAPTOPODIN REGULATES DENERVATION-INDUCED HOMEOSTATIC SYNAPTIC PLASTICITY OF DENTATE GRANULE CELLS IN MOUSE ENTORHINO-HIPPOCAMPAL SLICE CULTURES  
*Andreas Vlachos, Benno Ikenberg, Maximilian Lenz, Kurt Reifenberg, Carlos Bas Orth, Thomas Deller*
- T8-3D** MGLURS CONTRIBUTE TO SOMATIC [CA<sub>2</sub>+]<sub>i</sub> RISES ELICITED IN CEREBELLAR MOLECULAR LAYER INTERNEURONS BY PARALLEL FIBER STIMULATION IN VIVO  
*Jin Bao, Guadalupe Astorga, Abdelali Jalil, Jonathan Bradley, Isabel Llano*
- T8-4D** REPETITIVE MAGNETIC STIMULATION INDUCES COORDINATED FUNCTIONAL AND STRUCTURAL CHANGES OF EXCITATORY POSTSYNAPSES IN MOUSE ENTORHINO-HIPPOCAMPAL SLICE CULTURES  
*Maximilian Lenz, Johannes Rosskopp, Ulf Ziemann, Thomas Deller, Florian Müller-Dahlhaus, Andreas Vlachos*
- T8-5D** REGIONAL METABOLITE DISTRIBUTION IN THE HUMAN CORPUS CALLOSUM  
*Sabine Hofer, Jens Frahm*
- T8-6D** RECRUITMENT OF BDNF SIGNALING IN HIPPOCAMPAL MOSSY FIBER LTP INDUCED BY DIFFERENT HIGH FREQUENCY STIMULI  
*Elke Edelmann, Petnoi Petsophonsakul, Angela Jahn, Sandra Schildt, Volkmar Leßmann*
- T8-7D** DOPAMINERGIC REGULATION OF SPIKE-TIMING DEPENDENT PLASTICITY IN CA1 OF THE HIPPOCAMPUS DEPENDS ON THE INDUCTION PROTOCOL  
*Efrain A. Cepeda, Elke Edelmann, Volkmar Leßmann*

### T9: Glia, glia-neuron interactions

#### Wednesday

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

**T9-2A** MOLECULAR MECHANISMS OF SUBCELLULAR TRAFFICKING AND UNCONVENTIONAL SECRETION OF INSULIN-DEGRADING ENZYME, ROLE OF NEURON-GLIA INTERACTION

*Konstantin Glebov, Marie Löchner, Olaf Merkel, Jochen Walter*

**T9-3A** CELLULAR PROTON BUFFERING AND ACID/BASE TRANSPORT IN THE MOUSE CEREBELLAR CORTEX

*Marco D Alt, Joachim W Deitmer*

**T9-4A** ACTIVITY-DEPENDENT GLUCOSE TRANSPORT IN CELL CULTURE AND ACUTE CEREBELLAR SLICES: A MULTIPHOTON STUDY

*Patrick Jakoby, Luis Felipe Barros, Joachim W. Deitmer*

**T9-5A** ACTIVE UPTAKE OF SR101 INTO HIPPOCAMPAL ASTROCYTES

*Christian Schnell, Yohannes Hagos, Swen Hülsmann*

**T9-6A** THE LACK OF CORTACTIN LEADS TO REDUCED INTERCELLULAR SIGNALING IN ASTROCYTES

*Stefanie Schweinhuber, Klemens Rottner, Martin Korte, Martin Rothkegel*

### Thursday

**T9-1B** LESION-INDUCED CHANGES IN GLIAL GLUTAMATE TRANSPORTER DISTRIBUTION AND FUNCTION

*W. Karl Kafitz, Alexandra E. Schreiner, Martin C. Stock, Julia Langer, Christine R. Rose*

**T9-2B** DISTINCT CD39 EXPRESSION AND ACTIVITY IN DIFFERENT ACTIVATION STATES OF MICROGLIA

*Petya Georgieva, Larisa Bulavina, Adriana Rocha, Susanne Wolf, Vitali Matyash, Helmut Kettenmann*

**T9-3B** PURIFIED CANINE OLFACTORY ENSHEATHING CELLS PROMOTE FORMATION AND OUTGROWTH OF NEURITES FROM HUMAN NT2 NEURONS

*Frank Roloff, Susanne Ziege, Sarah Strauss, Kerstin Reimers, Jeffery Donald Kocsis, Christine Radtke, Wolfgang Baumgärtner, Konstantin Wewetzer, Gerd Bicker*

**T9-4B** THE MOUSE MEDIAL HABENULA CONTAINS A SPECIFIC NON-STELLATE SUBTYPE OF ASTROCYTE EXPRESSING THE ECTONUCLEOTIDASE NTPDASE2

*Kristine Gampe, Klaus Hammer, Ágnes Kittel, Herbert Zimmermann*

**T9-5B** NITRIC OXIDE / CYCLICGMP REGULATES MOTILITY OF A MICROGLIAL CELL LINE

*Hannah Christina Scheiblich, Frank Roloff, Vikram Singh, Martin Stangel, Michael Stern, Gerd Bicker*

**T9-6B** CALCIUM SIGNALING IN OLFACTORY ENSHEATHING CELLS MODULATES BLOOD VESSEL DIAMETER IN THE OLFACTORY BULB

*Kristina Buddrus, Christian Lohr*

### Friday

**T9-1C** INTERACTION BETWEEN GRANULE CELLS AND SECONDARY RADIAL GLIAL CELLS IN POSTNATAL DENTATE GYRUS MORPHOGENESIS AS REVEALED BY REELIN SIGNALING DEFICIENT MICE

*Bianka Brunne, Jasmine Pahle, Michael Frotscher, Hans H. Bock*

**T9-2C** MODULATION OF PURINERGIC SYSTEM AND EXTRACELLULAR MATRIX REVERTS MALADAPTIVE PLASTICITY ASSOCIATED TO REACTIVE GLIOSIS IN THE SPINAL CORD

*Michele Papa, Giovanni Cirillo, Maria Rosaria Bianco, Lorenza Marcello, Carlo Cavaliere, Lilia Alberghina, Annamaria Colangelo*

**T9-3C** ABSENCE OF GLIAL ALPHA-DYSTROBREVIN CAUSES ABNORMALITIES OF THE BLOOD-BRAIN BARRIER AND PROGRESSIVE BRAIN EDEMA

*Chun-Fu Lien, Sarajo Kumar Mohanta, Malgorzata Frontczak-Baniewicz, Jerome Swinny, Barbara Zablocka, Dariusz C. Górecki*

**T9-4C** SPATIAL AND DEVELOPMENTAL HETEROGENEITY OF CALCIUM SIGNALING IN OLFACTORY ENSHEATHING CELLS

*Christian Lohr, Anne Thyssen, Kristina Buddrus, Michael Doengi, Maren Stavermann, James A. StJohn, Jenny A. Ekberg, Joachim W. Deitmer*

**T9-5C** HIGH-THROUGHPUT MASS SPECTROMETRY OF THE ASTROCYTIC SECRETOME REVEALS NEURON-DEPENDENT SECRETION DYNAMICS

*Sidney Cambridge, Michael Stiess, Frank Bradke, Walter Nickel, Matthias Mann*

**T9-6C** MODULATION OF SPONTANEOUS INHIBITORY INPUT ON PURKINJE NEURONS OF THE CEREBELLAR CORTEX

*Ramona Rudolph, Joachim W. Deitmer*

### Saturday

**T9-1D** LARGE-SCALE ASTROCYTIC CALCIUM WAVES IN MOUSE CORTEX IN VIVO

*Rita Förster, Helmut Adelsberger, Xiaowei Chen, Arthur Konnerth*

**T9-2D** CUPRIZONE (BIS (CYCLOHEXYLIDENEHYDRAZIDE)) IS SELECTIVELY TOXIC FOR MATURE OLIGODENDROGLIA

*Karelle BENARDAIS, Alexandra Kotsiari, Jelena Škuljec, Paraskevi Koutsoudaki, Viktoria Gudi, Franca Franke, Thomas Skripuletz, Martin Stangel*

**T9-3D** ASTROCYTES IN THE LATERAL SUPERIOR OLIVE EXPRESS DIFFERENT TYPES OF NEUROTRANSMITTER TRANSPORTERS

*Jonathan Stephan, Eckhard Friauß*

- T9-4D** SCHWANN CELL DEPLETION UNRAVELS SPECIAL NEURITE GROWTH-PROMOTING CAPACITY AND GROWTH FACTOR RESPONSIVENESS OF OLFACTORY MUCOSA-DERIVED OLFACTORY ENSHEATHING CELLS  
*Konstantin Wewetzer, Wolfgang Baumgärtner, Kerstin Schöne, Susanne Ziege*
- T9-5D** MICROGLIA CELL PROLIFERATION IN THE IPSI- AND CONTRALATERAL RETINA AFTER ACUTE RETINAL ISCHEMIA/REPERFUSION IN THE MOUSE RETINA IN VIVO  
*Christian Walter Schmeer, Melanie Krug, Stefanie G. Wohl, Otto W. Witte*
- T9-6D** COGNITION WITHOUT MYELIN - AUDITORY DISCRIMINATION IN SHIVERER MICE  
*Livia de Hoz Garcia-Bellido, Klaus-Armin Nave*

## T10: Aging and developmental disorders

### Wednesday

- T10-1A** MORPHOLOGICAL AND BIOCHEMICAL PHENOTYPES IN A MOUSE MODEL OF FRAGILE X SYNDROME  
*Viktoria G. Seidel, Peter C. Kind*
- T10-2A** LIVING WITHOUT SYNAPSE-ASSOCIATED CAM NEUROPLASTIN AFFECTS STEROID HORMONE LEVELS, REPRODUCTION, AND BEHAVIOR  
*Soumee Bhattacharya, Karl-Heinz Smalla, Philip W. Beesley, Eckart D. Gundelfinger, Dirk Montag*
- T10-3A** TISSUE INHIBITOR OF MATRIX METALLOPROTEASES-1 IMPAIRS REELIN PROCESSING IN EXPERIMENTAL EPILEPSY  
*Carola A. Haas, Stefanie Tinnes, Julia Ringwald*
- T10-4A** SYNERGISTIC ACTIONS OF DIFFERENT GABA UPTAKE PROCESSES IN THE CA3 REGION OF THE IMMATURE RAT HIPPOCAMPUS  
*Salim Sharopov, Rongqing Chen, Haiyan Sun, Sergei N. Kolbaev, Sergei Kirischuk, Heiko J. Luhmann, Werner Kilb*

### Thursday

- T10-1B** CELLULAR PHENOTYPE OF PATIENT WITH IMMUNODEFICIENCY, CENTROMERIC INSTABILITY, FACIAL ANOMALIES SYNDROME TYPE 2 AND HOMOZYGOUS MUTATIONS IN ZBTB24  
*Ethiraj Ravindran, Karoline Strehl, Lina Issa, Nadine Kraemer, Sebastian Fröhler, Katharina Eirich, Detlev Schindler, Wei Chen, Horst von Bernuth, Angela M. Kaindl*
- T10-2B** EARLY DEVELOPMENTAL MILESTONES, ISOLATION-INDUCED ULTRASONIC CALLING, AND REPETITIVE BEHAVIOR IN SHANK1 KNOCKOUT MICE  
*A. Özge Sungur, Rainer KW Schwarting, Markus Wöhr*

- T10-3B** THE STROKE-INDUCED MICROGLIAL RESPONSE IN RATS IS AGE-DEPENDENT  
*Petra Henrich-Noack, Anne-Marie Miller, Marina Lynch*
- T10-4B** OTOPROTECTION BY STIMULATION OF CGMP CASCADE IN A GERBIL AND RAT ANIMAL MODEL  
*Ksenia Varakina, Boris Müller, Mirko Jaumann, Marlies Knipper, Lukas Rüttiger*
- T10-5B** PROFILIN1 IS REQUIRED FOR GLIAL CELL CONTACT AND RADIAL MIGRATION OF CEREBELLAR GRANULE NEURONS  
*Jan Kullmann, Alexander Neumeyer, Eckhard Friauf, Walter Witke, Marco Rust*

### Friday

- T10-1C** IMPACT OF SOCIAL EXPERIENCE ON RAT SOCIAL APPROACH BEHAVIOR INDUCED BY 50-KHZ ULTRASONIC VOCALIZATIONS SERVING A PRO-SOCIAL COMMUNICATIVE FUNCTION  
*Dominik Seffer, Henrike Rippberger, Rainer K. W. Schwarting, Markus Wöhr*
- T10-2C** EMISSION RATIONOMETRIC MULTIPHOTON IMAGING OF JC-1 FLUORESCENCE REVEALS MITOCHONDRIAL ALTERATIONS IN A MOUSE MODEL OF RETT SYNDROME  
*Michael Müller, Dörthe Bebensee*
- T10-3C** NORMAL SOCIAL RECOGNITION BUT IMPAIRED OBJECT RECOGNITION IN SHANK1 KNOCKOUT MICE  
*Magdalena CE Jochner, A. Özge Sungur, Rainer K. W. Schwarting, Markus Wöhr*
- T10-4C** STUDYING GENE-ENVIRONMENT INTERACTION IN AGED MICE OVEREXPRESSING THE SCHIZOPHRENIA SUSCEPTIBILITY GENE TCF4  
*Dorota Badowska, Magdalena M. Brzózka, Peter Falkai, Moritz J. Rossner*
- T10-5C** TROLOX TREATMENT IMPROVES CELLULAR REDOX BALANCE, HYPOXIA TOLERANCE AND SYNAPTIC PLASTICITY IN A MOUSE MODEL OF RETT SYNDROME  
*Olivia Alicja Janc, Ursula Hirt, Emanuel Großer, Michael Müller*

### Saturday

- T10-1D** COGNITIVE AGING IN THE ZEBRAFISH (DANIO RERIO)  
*Tim Ruhl, Gerhard von der Emde*
- T10-2D** THE ACTIN-DEPOLYMERIZING PROTEIN COFLIN IS REQUIRED FOR THE POLARIZATION AND PROPER POSITIONING OF CORTICAL NEURONS  
*Xuejun Chai, Li Fan, Hong Shao, Shanting Zhao, Michael Frotscher*
- T10-3D** A TOUCH-SCREEN COGNITIVE TESTING METHOD FOR AN EMERGING PRIMATE BRAIN AGING MODEL, THE MOUSE LEMUR (MICROCEBUS MURINUS)  
*Marine Joly, Sandra Ammersdoerfer, Mathias Crawl, Daniel Schmidtke, Elke Zimmermann*

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

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

### Wednesday

- T11-1A** THE ROLE OF CALPAIN IN ACUTE AXONAL DEGENERATION IN THE RAT OPTIC NERVE IN VIVO  
*Jiannan Zhang, Jan-Christoph Koch, Uwe Michel, Mathias Bähr, Paul Lingor*
- T11-2A** SIRTUIN 2 DELETION PROTECTS AGAINST MPTP-INDUCED TOXICITY IN A MOUSE MODEL OF PARKINSONISM  
*Éva M. Szegő, Mostafa Semak, Tiago F. Outeiro*
- T11-3A** INHIBITION OF DEUBIQUITINATING ENZYMES BY PR-619 CAUSES THE FORMATION OF PROTEIN AGGREGATES IN OLIGODENDROGLIAL CELLS AND LEADS TO THE ACTIVATION OF THE AUTOPHAGIC PATHWAY  
*Veronika Seiberlich, Janika Borchert, Victoria Zhukareva, Christiane Richter-Landsberg*
- T11-4A** ROLE OF GROWTH DIFFERENTIATION FACTOR -15 (GDF-15) IN THE 6-OHDA MODEL OF PARKINSON'S DISEASE  
*Venissa Machado, Björn Spittau, Stefan J.-P. Haas, Andreas Schober, Andreas Wree, Kerstin Kriegelstein, Klaus Unsicker*
- T11-5A** SYSTEMATIC COMPARISON OF THE EFFECTS OF ALPHA-SYNUCLEIN MUTATIONS ON OLIGOMERIZATION AND AGGREGATION  
*Diana Fernandes Lázaro, Eva Rodrigues, Patrícia Guerreiro, Ellen Gerhardt, Tiago Fleming Outeiro*
- T11-6A** THE INTERPLAY BETWEEN ATP13A2 AND ALPHA-SYNUCLEIN IN PARKINSON'S DISEASE  
*Tomás Ribeiro da Silva Lopes da Fonseca, Silvio Rizzoli, Tiago Fleming Outeiro*
- T11-7A** RAPAMYCIN AUGMENTS APOPTOTIC CELL DEATH CAUSED BY PROTEASOMAL INHIBITION IN OLIGODENDROGLIAL CELLS  
*Monika Noack, Christiane Richter-Landsberg*
- T11-8A** DECIPHERING THE ROLE OF ALPHA-SYNUCLEIN IN THE NUCLEUS: INSIGHT INTO THE MOLECULAR BASIS OF SYNUCLEINOPATHIES  
*Raquel Pinho, Lilach Soreq, Luis Fonseca, Kristina Gotovac, Markus Zweckstetter, Hermona Soreq, Fran Borovecki, Joaquim Ferreira, Cristina Rego, Tiago Outeiro*

- T11-9A** NEURONAL PROTECTION BY GAPDH PSEUDOGENE P44 VARIANT  
*Norbert Wendelin Seidler, Sara O. Mason, Christopher S. Theisen*
- T11-10A** THE EXPRESSION OF PROSAP/SHANK PROTEINS IN DEVELOPMENT AND AGING IN THE HEALTHY AND DISEASED BRAIN  
*Resham Chhabra, Katharina Mangus, Tobias M. Boeckers, Andreas M. Grabrucker*
- T11-11A** INTRASTRIATAL BOTULINUM NEUROTOXIN-A INJECTION IN RATS IS NOT CYTOTOXIC - A HISTOLOGICAL AND STEREOLOGICAL ANALYSIS  
*Juliane Mehlan, Hans Brosig, Alexander Hawlitschka, Oliver Schmitt, Eilhard Mix, Andreas Wree*
- T11-12A** BRAIN TUMOR MICROENVIRONMENT AND ANGIOGENESIS: XCT-DERIVED GLUTAMATE IN THE LIMELIGHT  
*Zheng Fan, Thomas Broggini, Stefan W. Hock, Eric P. Meyer, Marco Stampanoni, Michael Buchfelder, Ilker Eyüpoglu, Nic E. Savaskan*

### Thursday

- T11-1B** CHARACTERIZATION OF HUMAN IPSC DERIVED NEURONS OF DISEASED AND CONTROL DONORS  
*Stefanie Pfänder, Andreas Grabrucker, Stefan Liebau, Tobias Böckers*
- T11-2B** AUTOIMMUNE MECHANISMS IN THE NEURODEGENERATIVE BATTEN DISEASE  
*Benedikt Grünwald, Christian Werner, Antonia Post, Holger Haselmann, Andreas Weishaupt, Sandy Popp, Angela Dreykluft, Claudia Sommer, Klaus Viktor Toyka, Christian Geis, Holger Haselmann, Christian Werner, Antonia Post, Andreas Weishaupt, Sandy Popp, Angela Dreykluft, Claudia Sommer, Klaus Viktor Toyka, Christian Geis*
- T11-3B** ADULT NEUROGENESIS IN THE HIPPOCAMPUS OF STREPTOZOTOCIN INTRACEREBROVENTRICULARLY TREATED RATS – AN ANIMAL MODEL FOR SPORADIC ALZHEIMER'S DISEASE  
*Ping Sun, Ana Knezovic, Milena Parlak, Margeritha M. Lee, Qian Hua, Peter Riederer, Jürgen Deckert, Melita Salkovic-Petrisic, Angelika G. Schmitt*
- T11-4B** CALCIUM DYNAMICS IN DEGENERATING CONE PHOTORECEPTORS  
*Manoj Mohan Kulkarni, Emily Fan, Robin Kemmler, Timm Schubert, Bernd Wissinger, Thomas Euler, François Paquet-Durand*
- T11-5B** CHARACTERIZATION OF THE MOUSE MODEL RD10 FOR RETINITIS PIGMENTOSA (RP): A MORPHOLOGICAL AND ELECTROPHYSIOLOGICAL STUDY  
*Sonia Biswas, Frank Müller*
- T11-6B** EXPRESSION OF GLUTAMINYL CYCLASE AND THYROTROPIN-RELEASING HORMONE IN MOUSE HIPPOCAMPUS  
*Alexander Waniek, Maik Hartlage-Rübsamen, Astrid Kehlen, Hans-Ulrich Demuth, Steffen Roßner*

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

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

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

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

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

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

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

### Friday

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

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

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

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

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

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

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

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

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

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

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

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

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

### Saturday

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



- T11-2D** GENERATION AND FUNCTIONAL ANALYSIS OF DOPAMINERGIC REPROGRAMMING FACTORS FOR PROTEIN TRANSDUCTION  
*Sebastian Neumann, Naemi Treuter, Dennis Paliga, Koushik Chakrabarty, Rolf Heumann*
- T11-3D** EFFECTS OF CYCLOSPORINE A ON SEIZURE THRESHOLDS IN ACUTE AND CHRONIC EPILEPSY MODELS  
*Annelie Handreck, Deborah Annina Elger, Laura Gey, Manuela Gernert*
- T11-4D** EVALUATION AND PHARMACOKINETIC CHARACTERIZATION OF THE RADIOTRACER 123I-FP-CIT USING SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY (SPECT) IN A NON-HUMAN PRIMATE MODEL OF PARKINSON'S DISEASE  
*Enrique Garea-Rodríguez, Christina Schlumbohm, Boldizsár Czéh, Jessica König, Gunther Helms, Cornelia Heckmann, Birgit Meller, Johannes Meller, Eberhard Fuchs*
- T11-5D** ELECTRON MICROSCOPY OF AMYLOID FIBRE AGGREGATES INDUCED BY THE PRESENCE OF SERP PROTEIN  
*Gerd Leitinger, S. Fabio Falsone*
- T11-6D** THE ROLE OF APOLIPOPROTEINS IN CUPRIZONE INDUCED DEMYELINATION AND SUBSEQUENT REMYELINATION  
*Birte Könnecke, Mathias Bähr, Mikael Simons*
- T11-7D** H<sub>2</sub>S PRODUCTION INHIBITION IN AN EXPERIMENTAL MODEL OF SEIZURES: EEG AND BEHAVIORAL EFFECTS  
*Dragan Hrnčić, Aleksandra Rasic - Markovic, Veselinka Susić, Dragan Djuric, Olivera Stanojlović*
- T11-8D** ELECTRICAL IMAGING OF LOCAL FIELD POTENTIALS AND SINGLE UNIT ACTIVITY IN ORGANOTYPIC HIPPOCAMPAL SLICES USING A HIGH-DENSITY MULTI-TRANSISTOR ARRAY (NEUROCHIP)  
*Lakshmi Channappa, Günther Zeck*
- T11-9D** CHARACTERIZATION OF KIR4.1 CHANNEL EXPRESSION IN SCHWANN CELLS OF THE SCIATIC NERVE IN A MOUSE MODEL OF METACHROMATIC LEUKODYSTROPHY  
*Cin-He Chang, Lihua Wang-Eckhardt, Matthias Eckhardt, Gerald Seifert, Volkmar Gieselmann, Christian Steinhäuser*
- T11-10D** MITOCHONDRIAL DYSFUNCTION IN A MOUSE MODEL OF PARKINSON'S DISEASE  
JULIA ZERLE, FLORIAN GIESERT, MARTIN JASTROCH, DANIELA VOGT-WEISENHORN, WOLFGANG WURST
- T11-11D**  $\beta$ -SYNUCLEIN AGGREGATES AND INDUCES NEURODEGENERATION IN ADULT RAT DOPAMINERGIC NEURONS IN VIVO  
*Grit Taschenberger, Johan Toloe, Yuliya Tereshchenko, Mathias Baehr, Sebastian Kuegler*

- T11-12D** DIFFERENTIAL ALTERATIONS IN NEURONAL NETWORK EXCITABILITY AND BEHAVIOR IN MICE WITH CELL TYPE-SPECIFIC EXPRESSION OF RNA-EDITED GLYCINE RECEPTOR  $\alpha 3L$   
*Jochen Christian Meier, Nicola Maggio, Gürsel Caliskan, Joanna Fedun, Ute Häussler, Sarah Kowalczyk, Luminita Stoenica, Ewa Chronowska, Birthe Smolinsky, Günter Schwarz, Tamar Dugladze, Gidi Rechavi, Uwe Heinemann, Carola A. Haas, Tengis Gloveli, Akos Kulik, Aline Winkelmann*
- T11-13D** COMPUTATIONAL CHARACTERISTICS OF RECURRENT NEURAL NETWORKS UNDER THE INFLUENCE OF ALZHEIMER'S DISEASE  
*Claudia Bachmann, Tom Tetzlaff, Susanne Kunkel, Philipp Bamberger, Abigail Morrison*

## T12: Neuroimmunology, inflammation and neuroprotection

### Wednesday

- T12-1A** ESTABLISHMENT OF A RETINAL ISCHEMIA ORGAN CULTURE MODEL  
*Sven Schnichels, Matthias Blak, Johanna Hofmann, K. U. Bartz-Schmidt, Martin S. Spitzer, Maximilian Schultheiss*
- T12-2A** HYPOTHERMIA PROTECTS RETINAL GANGLION CELLS AGAINST ISCHEMIA  
*Maximilian Schultheiss, Mathias Blak, Tanja Dorfi, Johanna Hofmann, Karl Ullrich Bartz-Schmidt, Martin S. Spitzer, Sven Schnichels*
- T12-3A** IN VITRO ANALYSIS OF HIPPOCAMPAL AND PREFRONTAL CORTEX NEUROINFLAMMATORY MECHANISMS INVOLVED IN INTERFERON-THERAPY AND HEPATITIS C RELATED DEPRESSION  
*Carolina Hoyo Becerra, Anastasia Hübener, Martin Trippler, Lena Poggenpohl, Guido Gerken, Jörg Friedrich Schlaack*
- T12-4A** GENE EXPRESSION ANALYSIS OF RETINAL GANGLION CELLS IN EXPERIMENTAL AUTOIMMUNE OPTIC NEURITIS  
*Prateek Kumar Prateek, Sven Wichert, Benedikt Kretschmar, Mathias Bähr, Moritz Rossner, Katharina Hein*
- T12-5A** CORRELATING FACES SYMBOL TEST, SYMBOL DIGIT MODALITIES TEST AND PACED AUDITORY SERIAL ADDITION TEST TO WHITE MATTER DAMAGE IN RELAPSING REMITTING MULTIPLE SCLEROSIS  
*Alina Freing, Michael Scheel, Nicholetta Weinges-Evers, Laura Wieder, Jan-Markus Dörr, Friedemann Paul, Alexander U. Brandt, Jens Wuerfel*

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

### Thursday

- T12-1B** SYSTEMIC TRANSPLANTATION OF NEURAL PRECURSOR CELLS IN EXPERIMENTAL CEREBRAL ISCHEMIA – DEPENDENCE OF FUNCTIONAL OUTCOME ON CELL DELIVERY TIMING  
*Mohammad Rakibul Hasan, Mahesh Kumar Teli, Dirk M. Hermann, Thorsten R Doepfner*
- T12-2B** AUTOIMMUNE ACTIVITIES IN AN EXPERIMENTAL MODEL OF RETINAL GANGLION CELL LOSS  
*Sandra Kühn, Rozina Noristani, Mathias Kühn, Burkhard Dick, Stephanie C. Joachim*
- T12-3B** TGF $\beta$  INCREASES MICROGLIA-MEDIATED ENGLUFMENT OF APOPTOTIC CELLS VIA UPREGULATION OF THE ITGB5/MFGE8 RECEPTOR/LIGAND PAIR  
*Björn Spittau, Jennifer Rilka, Kerstin Kriegelstein*
- T12-4B** AUTOIMMUNE ENCEPHALITIS: A SEARCH FOR NOVEL NEURONAL AUTOANTIGENS  
*Margje Helena van Coevorden - Hameete, Esther de Graaf, Peter Maat, Esther Hulsenboom, Peter Sillevs-Smitt, Casper Hoogenraad*
- T12-5B** INFLUENCE OF PIGMENT EPITHELIUM DERIVED FACTOR ON BLOOD BRAIN BARRIER IN NORMAL AND ISCHEMIC BRAIN  
*Arina Riabinska, Ryan Cordell, Menderes Yusuf Terzi, Marietta Zille, Melina Niemminen, Jan Klohs, Peter Vajkoczy, Ulrich Dirnagl, Ana Luisa Pina*

### Friday

- T12-1C** CD14 AS A KEY REGULATOR OF TLR-MEDIATED RESPONSES OF MICROGLIA  
*Hana Janova, Tommy Regen, Denise van Rossum, Sandra Ribes, Roland Nau, Wolfgang Brück, Uwe-Karsten Hanisch*
- T12-2C** INNATE IMMUNE ANTI-VIRAL RESPONSES OF IRF-1 IN THE CNS  
*Sharmila Nair, Katja Finsterbusch, Andrea Kroeger*
- T12-3C** FUNCTIONAL CHARACTERIZATION OF THE CDK5-DEPENDENT TRPV1 PHOSPHORYLATION  
*Thomas Jendryke, Christian H. Wetzel*
- T12-4C** IMMUNRESPONSE AGAINST OCULAR TISSUES AFTER IMMUNIZING RATS WITH AN OPTIC NERVE ANTIGEN  
*Stephanie C. Joachim, Oliver W. Gramlich, Panos Laspas, Sabrina Reinehr, Sandra Kuehn, Mathias Kuehn, Tischoff Iris, H. Burkhard Dick, Franz H. Grus*

### Saturday

- T12-1D** DRAWING ANALOGIES BETWEEN SYSTEMS: THE ROLE OF MAGUK – KV INTERACTIONS IN THE IMMUNE SYNAPSE  
*Juliane Handschuh, Rebecca Pötschke, Carina Fürst, Martin Heine, Eckart Gundelfinger, Klaus-Dieter Fischer, Ulrich Thomas*
- T12-2D** INTERLEUKIN-6 PROMOTES AXON REGENERATION OF MATURE RETINAL GANGLION CELLS AND CONTRIBUTES TO INFLAMMATORY STIMULATION-INDUCED OPTIC NERVE REGENERATION  
*Marco Leibinger, Adrienne Müller, Philipp Gobrecht, Heike Diekmann, Anastasia Andreadaki, Dietmar Fischer*
- T12-3D** TRAUMATIC BRAIN INJURY: MODULATION OF BLOOD-BRAIN BARRIER INTEGRITY BY VOLATILE ANESTHETICS IS INFLUENCED BY THE CHOICE OF VOLATILE ANESTHETICS ON THE LEVEL OF TIGHT JUNCTION PROTEIN EXPRESSION  
*Christoph Michael Zehendner, Clara Luh, Eva-Verena Schaible, Ralph Timaru-Kast, Jana Hedrich, Heiko J. Luhmann, Kristin Engelhard, Serge C. Thal*
- T12-4D** INDUCTION OF INFLAMMATORY DEMYELINATION CAUSES RETINAL GANGLION CELL DEGENERATION IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS  
*Heiko Schmid, Lioba Horstmann, Florian Kurschus, Ari Waisman, Burkhard Dick, Stephanie C. Joachim*
- T12-5D** THE ASTROCYTIC PROTEINS NDRG2 AND GFAP IN THE RAT HIPPOCAMPUS ARE REGULATED BY CHRONIC SOCIAL STRESS AND THE ANTIDEPRESSANT CITALOPRAM  
*Gabriele Flügge, Carolina Araya-Callis, Christoph Hiemke*

## T13: Cognitive, emotional, behavioral state disorders and addiction

### Wednesday

- T13-1A** THE 5-HT<sub>6</sub> RECEPTOR AGONIST EMD 386088 REVERSES KETAMINE-INDUCED COGNITIVE INFLEXIBILITY IN RATS  
*Agnieszka Nikiforuk, Piotr Popik*
- T13-2A** NEUROANATOMICAL CHARACTERIZATION OF A PHARMACOLOGICALLY INDUCED RODENT MODEL OF SCHIZOPHRENIA  
*Linda Reimers, Ana Relo, Corinna Klein*
- T13-3A** ERBB4 MODULATES ATTENTION BY CONTROLLING SYNAPTIC FUNCTIONS IN THE RETICULAR NUCLEUS OF THE THALAMUS  
*Sandra Ahrens, Santiago Jaramillo, Hiroki Taniguchi, Josh Z. Huang, Bo Li*

- T13-4A** RELATIONSHIP BETWEEN IMPULSIVITY, TOBACCO STATUS AND SYMPTOMATOLOGY IN PARANOID SCHIZOPHRENIA  
*Mounir Ouzir, Jean Michel Azorin, Nadia Correard, Sara-Nora Elissalde, Romain Padovani, Omar Battas, Driss Boussaoud*
- T13-5A** DIRAS2: CANDIDATE GENE FOR ADHD AND ITS EXPRESSION IN THE BRAIN  
*Lena Weißflog, Nils Becker, Klaus-Peter Lesch, Andreas Reif*
- T13-6A** (A)SOCIAL BEHAVIOR AND SEXUAL PREFERENCE IN MICE LACKING TRYPTOPHAN HYDROXYLASE 2  
*Daniel Beis, Valentina Mosienko, Karolin Holzwarth, Catherine Schweppe, Markus Wöhr, Natalia Alenina*

### Thursday

- T13-1B** DEFICITS IN TRACE FEAR MEMORY IN A MOUSE MODEL OF THE SCHIZOPHRENIA RISK GENE TCF4  
*Moritz J. Rossner, Magdalena M. Brzozka*
- T13-2B** ASSOCIATION STUDY OF THE POLYMORPHISMS OF SELECTIVE GENES AND MAJOR DEPRESSIVE DISORDER: A PATIENT CENTERED APPROACH  
*Jan Lehotsky, Andrea Evinova, Igor Ondrejka, Dusan Dobrota*
- T13-3B** THE EVOLUTION OF THE EXTENDED AMYGDALOID COMPLEX IN TELEOST FISH – LESSONS FROM THE ZEBRAFISH TRANSGENIC LINES TG(VGLUT2A:GFP) AND TG(LHX2A:GAP-YFP)  
*Thomas Mueller, Nicola Sebert*
- T13-4B** TRUNCATED DISRUPTED IN SCHIZOPHRENIA 1 IMPAIRS CORTICAL FAST-SPIKING INTERNEURON FUNCTION AND GAMMA OSCILLATIONS  
*Jonas-Frederic Sauer, Michael Strüber, Marlene Bartos*
- T13-5B** ELECTROCONVULSIVE THERAPY IN AN ANIMAL MODEL OF DEPRESSION  
*Wiebke Theilmann, Katarzyna Socala, Claudia Brandt, Helge Frieling, Stefan Bleich, Wolfgang Löscher*
- T13-6B** EFFECT OF DEEP BRAIN STIMULATION IN RATS SELECTIVELY BRED FOR DEFICIENT PREPULSE INHIBITION, AN ENDOPHENOTYPE FOR TOURETTE'S SYNDROME  
*Svilen Delchev Angelov, Joachim K. Krauss, Kerstin Schwabe*

### Friday

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

- T13-2C** METABOLITE CHANGES DURING TREATMENT OF ADHD CHILDREN WITH ATOMOXETINE AND METHYLPHENIDATE MEASURED USING PROTON MAGNETIC RESONANCE SPECTROSCOPY  
*Dušan Dobrota, Veronika Husarova, Michal Bittsanský, Igor Ondrejka, Hubert Polacek*
- T13-3C** THE ROLE OF NRG1 IN CORTICAL DEVELOPMENT AND NETWORK INTEGRITY  
*Tilmann Unterbarnscheidt, Maria Clara Soto-Bernardini, Viktorija Velanac, Sophie Crux, Klaus-Armin Nave, Markus H. Schwab*
- T13-4C** BEHAVIORAL CONSEQUENCES OF EARLY LIFE STRESS AND EARLY LIFE ENRICHMENT IN C57BL/6J MICE  
*Antonia Post, Sandy Popp, Ulrich Dischinger, Aet Althoa, Andreas Reif*
- T13-5C** ANALYSIS OF THE INFLUENCE OF ODOR STIMULATION WITH ISOAMILACETATE ON THE PSYCHOPHYSIOLOGICAL STATE OF HUMAN  
*Iuliia Sosiedka, Sergii Tukaiev, Sergii Krizhanovskiy, Igor Zima, Olga Radchuk*
- T13-6C** VISION LOSS AFTER PERIPHERAL OPTIC NERVE LESION IS RELATED TO PERMANENT ALTERATION OF LONG-RANGE CORTICAL FUNCTIONAL CONNECTIVITY: AN EEG RESTING STATE STUDY  
*Michal Bola, Carolin Gall, Christian Moewes, Anton Fedorov, Hermann Hinrichs, Bernhard A. Sabel*
- T13-7C** REGIONAL AND CELLULAR EXPRESSION PATTERN OF CADHERIN-13 IN THE MURINE BRAIN  
*Sarah Andrea Sich, A. G. Schmitt, K.-P. Lesch, O. Rivero*

### Saturday

- T13-1D** LIFELONG TPH2 DEFICIENCY RESULTS IN HYPERACTIVITY AND ALTERED EMOTIONAL BEHAVIOR  
*Jonas Waider, Sandy Popp, Florian Proft, Lise Gutknecht, Esther Asan, Klaus-Peter Lesch*
- T13-2D** METABOLIC IMAGING AFTER NOISE TRAUMA IN TINNITUS VERSUS NON-TINNITUS CONDITIONS  
*Florian Theden, Sara Euteneuer, Dietmar Kuhl, Claudia Mahlke*
- T13-3D** STRESS SUPPRESSES MONOAMINERGIC NEUROMODULATION OF HIPPOCAMPAL INHIBITION  
*David Gruber, Kate Elizabeth Gilling, Anne Albrecht, Oliver Stork, Uwe Heinemann, Joachim Behr*
- T13-4D** TOPOGRAPHIC VARIABILITY OF LANGUAGE SITES ACROSS TIME  
*Dieter M. Weinert, Eduard Kraus*
- T13-5D** COCAINE-INDUCED CIRCUITRY REORGANIZATION  
*Anna Suska, Brian R. Lee, Yan Dong, Oliver Schlüter*
- T13-6D** THE LATERAL HABENULA: SMALL NUCLEI WITH LARGE EFFECT ON DEPRESSION?  
*Anne Stephanie Vogel, Miriam A. Vogt, Natascha Pfeiffer, Mazahir T. Hasan, Rolf Sprengel, Peter Gass*

**T14: Vision: invertebrates****Wednesday**

- T14-1A** DO CRICKETS INTEGRATE POLAROTAXIS AND PHONOTAXIS?  
*Hannah Julia Martina Haberkern, Berthold Hedwig*
- T14-2A** SERIAL BLOCK FACE SCANNING ELECTRON MICROSCOPY (SBEM) TO RECONSTRUCT A LOCUST MOTION DETECTING PATHWAY  
*Stefan Wernitznig, Armin Zankel, Peter Pölt, F. Claire Rind, Gerd Leitinger*
- T14-3A** DESERT ANT'S NAVIGATION: EFFECTS OF CONFLICTING CELESTIAL COMPASS INFORMATION  
*Fleur Lehardt, Bernhard Ronacher*

**Thursday**

- T14-1B** ASYMMETRIC POLAROTACTIC RESPONSE OF LOCUSTS IN A TETHERED FLIGHT SITUATION  
*Johannes Schuh, Uwe Homberg, Sarah Grant, Ronny Rosner*
- T14-2B** TOPOGRAPHIC ORGANIZATION OF THE POSTERIOR OPTIC TUBERCLE IN THE LOCUST BRAIN: POSSIBLE ROLE IN THE GENERATION OF AN INTERNAL SKY COMPASS  
*Jerome M. Beetz, Basil el Jundi, Stanley Heinze, Uwe Homberg*
- T14-3B** PERIPHERAL NEURAL CIRCUITS UNDERLYING COLOUR DISCRIMINATION IN DROSOPHILA  
*Christopher Schnaitmann, Christian Garbers, Thomas Wachtler, Hiromu Tanimoto*

**Friday**

- T14-1C** VISUAL RESPONSIVENESS OF CENTRAL-COMPLEX NEURONS IN THE DESERT LOCUST SCHISTOCERCA GREGARIA  
*Tobias Bockhorst, Ronny Rosner, Uwe Homberg*
- T14-2C** IMPACT OF OCTOPAMINERGIC MODULATION ON THE PROCESSING OF NATURAL DYNAMIC OPTIC FLOW IN THE FLY VISUAL SYSTEM  
*Diana Rien, Roland Kern, Rafael Kurtz*
- T14-3C** COLOR CODING IN INTERNEURONS OF THE HONEYBEE  
*Benjamin H. Paffhausen, Randolph Menzel*

**Saturday**

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

- T14-2D** DISTRIBUTION PATTERNS OF SIFAMIDE IN HEMIMETABOLOUS INSECTS  
*Andreas Arendt, Julia Schulze, Susanne Neupert, Reinhard Predel, Monika Stengl*
- T14-3D** NEURONAL ORGANIZATION OF LIGHT-ENTRAINMENT IN THE MADEIRA COCKROACH (RHYPAROBIA MADERAE)  
*Julia Schulze, Thomas Schendzielorz, Susanne Neupert, Reinhard Predel, Monika Stengl*

**T15: Vision:  
retina and subcortical pathways****Wednesday**

- T15-1A** DELETION OF THE IONOTROPIC GLUTAMATE RECEPTOR SUBUNIT GLUR4 FROM HORIZONTAL CELLS OF THE MOUSE RETINA  
*Sebastian Ströh, Stephan Sonntag, Hannah Monyer, Reto Weiler, Klaus Willecke, Ulrike Janssen-Bienhold, Karin Dedek*
- T15-2A** THE PHOTORECEPTOR RIBBON COMPLEX: A PRIMING DEVICE?  
*Martina Löhner, Angela Peukert, Jenny Atorf, Jan Kremers, Susanne Schoch, Elena Alvarez-Baron, Johann H. Brandstätter, Hanna Regus-Leidig*
- T15-3A** LOSS- AND GAIN-OF-FUNCTION MUTATIONS IN THE CACNA1F GENE DIFFERENTIALLY IMPACT PHOTORECEPTOR SURVIVAL AND RIBBON SYNAPTIC FUNCTION IN THE MOUSE RETINA  
*Jenny Atorf, Hanna Regus-Leidig, Andreas Feigenspan, Marion A. Maw, Jan Kremers, Johann Helmut Brandstätter*
- T15-4A** ARE COMPLEXINS INVOLVED IN REGULATING THE AVAILABILITY OF VESICLES AT PHOTORECEPTOR SYNAPTIC RIBBONS?  
*Anna Sendelbeck, Michaela Fuchs, Kerstin Reim, Johann Helmut Brandstätter*
- T15-5A** LOCAL NEURONAL CIRCUITRY IN THE CHICKEN OPTIC TECTUM AND MODULATION BY THE ISTHMIC SYSTEM  
*Stefan Weigel, Matthias Dübber, Harald Luksch*
- T15-6A** VISUAL SYSTEM ASSESSMENT WITH MULTIFOCAL ELECTROPHYSIOLOGY – OPTIC MEDIA OPACITIES MIMIC RETINAL DISEASES  
*Anne Herbig, Gloria C. Hölzl, Juliane Reupsch, Michael B. Hoffmann*
- T15-7A** PHARMACOLOGICAL MANIPULATION OF CHLORIDE HOMEOSTASIS IN THE RETINA : IMPACT ON DIRECTION SELECTIVE ON AND OFF RESPONSES IN THE RAT'S NUCLEUS OF THE OPTIC TRACT  
*Katharina Margaretha Spoida, Claudia Distler, Anne-Kathrin Trampe, Klaus-Peter Hoffmann*

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

### Thursday

- T15-1B** DETECTION OF CGMP IN MOUSE RETINAL NEURONS USING IMMUNOHISTOCHEMISTRY AND LIVE CELL IMAGING BASED ON GENETICALLY ENCODED SENSORS  
*Zhijian Zhao, Frank Müller*
- T15-2B** WHAT INFORMATION DOES THE EYE SEND TO THE BRAIN? RECORDING THE ENTIRE VISUAL OUTPUT AT A SINGLE RETINAL LOCATION  
*Thomas Euler, Philipp Behrens, Matthias Bethge, Tom Baden*
- T15-3B** RECEPTIVE FIELD PROPERTIES OF NEURONS IN THE OPTIC TECTUM OF CHICKEN (GALLUS GALLUS)  
*Josine Verhaal, Harald Luksch*
- T15-4B** BEYOND COLOUR VISION: DICHROMACY PROVIDES FOR OPTIMAL SAMPLING OF CONTRAST STATISTICS IN NATURAL SCENES  
*Timm Schubert, Tom Baden, Le Chang, Tao Wei, Mariana Zaichuk, Bernd Wissinger, Euler Thomas*
- T15-5B** PROBING VISUAL RECEPTIVE FIELDS AT SINGLE SYNAPSE RESOLUTION  
*Katrin Franke, Thomas Euler, Tom Baden*
- T15-6B** IMAGE STABILISATION THROUGH NON-LINEAR RETINAL PROCESSING  
*Garrett Greene, Erica Ehrhardt, Tim Gollisch, Thomas Wachtler*
- T15-7B** MODULATION OF RESPONSE PROPERTIES IN RETINAL GANGLION CELLS BY REMOTE STIMULATION  
*Vidhyasankar Krishnamoorthy, Tim Gollisch*
- T15-8B** SPATIAL INTEGRATION IN THE RECEPTIVE FIELD SURROUND OF RETINAL GANGLION CELLS  
*Daisuke Takeshita, Tim Gollisch*
- T15-9B** COMPLEMENT DEPOSITION IN AN EXPERIMENTAL AUTOIMMUNE MODEL OF GLAUCOMA IN RATS  
*Sabrina Reinehr, Sebastian Becker, Sandra Kühn, Christina Casola, Mathias Kühn, Burkhard Dick, Stephanie C. Joachim*

### Friday

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

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

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

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

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

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

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

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

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

### Saturday

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

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

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

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

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

- T15-6D** GANGLION CELL MOSAICS AND THEIR POTENTIAL INFLUENCE ON ORIENTATION PREFERENCE MAPS  
*Manuel Schottdorf, Wolfgang Keil, Fred Wolf*
- T15-7D** EARLY MULTISENSORY INTERACTION REVEALED THROUGH SIMULTANEOUS INTER-AREAL RECORDINGS IN THE FERRET MIDBRAIN  
*Iain Maurice Stitt, Edgar Galindo-Leon, Florian Pieper, Gerhard Engler, Andreas K. Engel*
- T15-8D** PSYCHOPHYSICAL MEASUREMENTS OF ABSOLUTE VISUAL THRESHOLDS IN MAN  
*Andreas Krensel, Werner Georg Karl Backhaus*

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

### Wednesday

- T16-1A** THE EFFECT OF LANGUAGE ON HORIZONTAL ASYMMETRY IN OVERT ATTENTION  
*Zaeinab Afsari, Jose P. Ossandon, Matti Krüger, Matthias Hampel, Peter König*
- T16-2A** INFLUENCE OF A CORTICAL LESION IN THE MOTOR CORTEX ON VISUAL CORTEX PLASTICITY IN ADULT MICE  
*Justyna Pielecka-Fortuna, Evgenia Kalogeraki, Siegrid Löwel*
- T16-3A** REELIN-DEFICIENT MICE POSSESS NORMAL VISUAL ACUITY AND VISUAL CORTICAL MAPS  
*Ann-Kristin Martens, Bianka Goetze, Karl-Friedrich Schmidt, Robin Wagener, Jochen Staiger, Siegrid Löwel*
- T16-4A** PERISACCADIC RESPONSE MODULATIONS IN AREA V4 OF THE MACAQUE MONKEY  
*Steffen Klingenhoefer, Markus Wittenberg, Thomas Wachtler, Frank Bremmer*
- T16-5A** TASK-DEPENDENT ATTENTIONAL MODULATION OF HUMAN VISUAL MOTION DIRECTION DISCRIMINATION THRESHOLDS  
*Elena Spanou, Stefan Treue*
- T16-6A** A COMPUTATIONAL MODEL OF LIGHT SCATTER AND IMAGE FORMATION IN THE HUMAN EYE  
*Ismael Kelly Pérez, Annette Werner*
- T16-7A** DARK EXPOSURE RESCUES OCULAR DOMINANCE PLASTICITY IN THE VISUAL CORTEX OF ADULT MICE IN AN AGE-DEPENDENT MANNER  
*Sophia Katharina Stodieck, Bianka Goetze, Franziska Greifzu, Hugo Cruces-Solis, Karl-Friedrich Schmidt, Siegrid Löwel*

- T16-8A** EFFECTS OF LOCOMOTION ON RESPONSE PROPERTIES AND FUNCTIONAL CONNECTIVITY IN MOUSE PRIMARY VISUAL CORTEX  
*Sinem Eriskan, Agne Vaiceliunaite, Florian Franzen, Alexandra Wal, Steffen Katzner, Laura Busse*

### Thursday

- T16-1B** HUMAN AND NON-HUMAN PRIMATE HOMOLOGUES OF STEREOMOTION IN CORTEX  
*Sylvia van Stijn, Ralf Deichman, Wolf Singer, Hwan Sean Lee*
- T16-2B** DISCREPANT REACH GOAL REPRESENTATIONS IN LOCAL FIELD POTENTIALS AND SPIKING ACTIVITY IN PARIETAL REACH REGION  
*Alexander Gail, Christian Klaes, Stephanie Westendorff*
- T16-3B** EFFECTS OF INTERHEMISPHERIC CONNECTIONS ON THE CONTRAST RESPONSE FUNCTION IN CAT PRIMARY VISUAL CORTEX  
*Thomas Wunderle, David Eriksson, Christiane Peiker, Kerstin E. Schmidt*
- T16-4B** REVERSALS OF ILLUSORY DEPTH OR ILLUSORY ROTATION IN STRUCTURE-FROM-MOTION: AN MEG STUDY  
*Alexander Pastukhov, Mandy Bartsch, Solveiga Stonkute, Jens Max Hopf, Jochen Braun*
- T16-5B** STIMULUS REPRESENTATIONS IN BODY-SELECTIVE REGIONS OF THE MACAQUE AND HUMAN CORTEX ASSESSED WITH EVENT-RELATED FMRI  
*Jan Jastorff, Ivo D. Popivanov, Natalie Caspari, Guy A. Orban, Wim Vanduffel, Rufin Vogels*
- T16-6B** DIFFERENT EXTRAOCULAR MOTONEURONAL SUBGROUPS CONTROL FAST AND SLOW PHASE COMPONENTS OF THE OPTOKINETIC REFLEX IN XENOPUS LAEVIS  
*Johanna Miriam Schuller, Alexander Georg Knorr, Stefan Glasauer, Hans Straka*
- T16-7B** SOCIAL EXPERIENCE MODULATES ADULT OCULAR DOMINANCE PLASTICITY IN MICE  
*Konrad Lehmann, Jenny Balog*
- T16-8B** INFLUENCE OF INTERMITTENT THETA-BURST TMS ON RAT VISUAL PERFORMANCE AND NEURONAL ACTIVITY MARKER EXPRESSION WHEN APPLIED DURING THE CRITICAL CORTICAL PERIOD  
*Diana Veronica Castillo-Padilla, Klaus Funke*
- T16-9B** COMBINING WEARABLE EYE-TRACKING WITH 4 $\pi$  LIGHT-FIELD MEASUREMENTS: TOWARDS CONTROLLING ALL BOTTOM-UP AND TOP-DOWN FACTORS DRIVING OVERT ATTENTION DURING REAL-WORLD TASKS  
*Josef Stoll, Mandana Sarey Khanie, Sandra Mende, Marius † Hart, Marilyne Andersen, Wolfgang Einhäuser*

## Friday

- T16-1C** POPULATION TUNING AND ATTENTIONAL MODULATION OF HUMAN BOLD RESPONSES TO SPIRAL MOTION PATTERNS  
*Sepideh Fazeli, Carsten Schmidt-Samoa, Peter Dechent, Stefan Treue*
- T16-2C** VISUAL CORTICAL DEVELOPMENT AND OCULAR DOMINANCE PLASTICITY IN THE ABSENCE OF NKCC1  
*Katja Krempler, Knut Kirmse, Christian A. Hübner, Otto W. Witte, Knut Holthoff*
- T16-3C** PAIRING-INDUCED PLASTICITY IN THE ORIENTATION PREFERENCE MAP DEPENDS ON THE CONTEXT OF THE LOCAL NEURAL CIRCUITRY IN FERRET VISUAL CORTEX  
*David Edward Whitney, Santosh Chandrasekaran, Juan Daniel Florez Weidinger, Seong-gi Kim, Fred Wolf, Justin Crowley*
- T16-4C** IS THERE A CRITICAL AREA SIZE FOR THE TRANSITION FROM INTERSPERSED TO COLUMNAR V1 ARCHITECTURE?  
*Wolfgang Keil, Fred Wolf, Matthias Kaschube, Michael Schnabel, David M. Coppola, Siegrid Loewel, Len E. White*
- T16-5C** SELF-ORGANISATION OF FINITE BANDWIDTH ORIENTATION PREFERENCE MAPS  
*Conor Dempsey, Wolfgang Keil, Dominik Heide, Fred Wolf*
- T16-6C** EARLY VISUAL PROCESSES INVOLVED IN VERNIER MISPERCEPTION UNDER ORIENTATION MASKING: CONTRIBUTIONS OF CENTER-SURROUND AND SPATIAL FREQUENCIES  
*Tzvetomir Tzvetanov*
- T16-7C** SYSTEMATIC DEVIATION OF EYE-MOVEMENT DIRECTION FROM STIMULUS-DIRECTION DURING OPTOKINETIC NYSTAGMUS  
*Andre Kaminiarz, Kathrin Bartelheimer, Frank Bremmer*
- T16-8C** PSD-95 LACKING SYNAPSES IN THE VISUAL CORTEX RETAIN A HIGH DEGREE OF AMPA RECEPTOR SILENCE  
*Xiaojie Huang, Karl-Friedrich Schmidt, Bianka Goetze, Löwel Siegrid, Oliver Schlüter*
- T16-9C** PSD-95 KO MICE RETAIN A JUVENILE OCULAR DOMINANCE PLASTICITY INTO LATE ADULTHOOD  
*Bianka Goetze, Karl-Friedrich Schmidt, Xiaojie Huang, Oliver M. Schlüter, Siegrid Löwel*
- T16-10C** IN VIVO IDENTIFICATION OF GABAERGIC AND GLUTAMATERGIC NEURONS AT EARLY DEVELOPMENTAL STAGE IN MOUSE VISUAL CORTEX  
*Michael Kummer, Knut Kirmse, Otto W. Witte, Knut Holthoff*

## Saturday

- T16-1D** SINGLE SPINE SYNAPTIC INPUTS IN MOUSE VISUAL CORTEX IN VIVO  
*Diana Deca, Nathalie Rochefort, Arthur Konnerth*
- T16-2D** CORTICAL PLASTICITY IN THE FACE OF CONGENITALLY ALTERED INPUT INTO V1  
*Jane Klemen, Michael B. Hoffmann, Christopher D. Chambers*
- T16-3D** CORTICAL PLASTICITY IN THE HUMAN VISUAL CORTEX - EFFECT OF CHIASMA OPTICUM ABNORMALITIES ON VENTRAL VISUAL AREAS  
*Falko R. Kaule, Barbara Wolynski, Anil Kumar, Irene Gottlob, Jörg Stadler, Oliver Speck, Martin Kanowski, Synke Meltendorf, Michael B. Hoffmann*
- T16-4D** ULTRA-HIGH SPATIAL RESOLUTION FMRI OF THE HUMAN VISUAL CORTEX AT 7 TESLA MAGNETIC FIELD STRENGTH  
*Juan Lei, Renat Yakupov, Falko R. Kaule, Frank Godenschweger, Oliver Speck, Michael B. Hoffmann*
- T16-5D** NEURONAL NONLINEARITY EXPLAINS DIFFERENCES IN VISUAL SPATIAL RESOLUTION BETWEEN DARKS AND LIGHTS  
*Jens Kremkow, Jianzhong Jin, Stanley Jose Kombar, Yushi Wang, Reza Lashgari, Michael Jansen, Xiaobing Li, Jose-Manuel Alonso*
- T16-6D** ZEBRAFISH BEL MUTANT AS A MODEL FOR INFANTILE NYSTAGMUS SYNDROME (INS): PHARMACOLOGIC INTERACTIONS WITH THE OCULAR MOTOR SYSTEM  
*Maresa Affhinos, Ying-Yu Huang, Dominik Straumann*
- T16-7D** TOP-DOWN ATTENTION MODULATES POST-SACCADIC REMAPPING IN MACAQUE MT  
*Tao Yao, Stefan Treue, Suresh Krishna*
- T16-8D** BRIGHTNESS AND COLOR DISCRIMINATION IN THE MONGOLIAN GERBIL  
*Kay Thurley, Josephine Henke, Christian Garbers, Christian Leibold, Thomas Wachtler*
- T16-9D** VISUALIZATION OF TRANSCRANIAL MAGNETIC STIMULATION EFFECTS BY VOLTAGE-SENSITIVE DYE IMAGING  
*Vladislav Kozyrev, Ulf T. Eysel, Dirk Jancke*

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

### Wednesday

- T17-1A** OAE-RESIDUALS GENERATED WITH COMPLEX SOUND STIMULI IN THE SHORT-TAILED FRUIT BAT *CAROLLIA PERSPICILLATA* (PHYLLOSTOMIDAE)  
*Désirée Schlenther, Manfred Kössl*
- T17-2A** DUCKY MICE WITH A MUTANT  $\alpha_{\beta 2}$   $CA^{2+}$  CHANNEL SUBUNIT: A NEW MODEL FOR SENSORINEURAL HEARING IMPAIRMENT  
*Barbara Fell, Niels Brandt, Gerald J. Obermair, Julia Dlugaczyk, Dietmar Hecker, Bernhard Schick, Jutta Engel*
- T17-3A** MECHANICAL TWO-TONE-DISTORTIONS IN THE TYMPANUM MOTION OF LOCUSTS  
*Doreen Möckel, Manfred Kössl, Manuela Nowotny*
- T17-4A** OPTOACOUSTIC STIMULATION OF SINGLE CELLS  
*Alexander Rettenmaier, Thomas Lenarz, Günter Reuter*
- T17-5A** HEARING IN *DROSOPHILA* REQUIRES VISUAL RHODOPSINS  
*David Piepenbrock, Pingkalai R. Senthilan, Martin C. Göpfert*
- T17-6A** MECHANICAL TUNING OF THE HIGH-FREQUENCY HEARING ORGAN IN BUSHCRICKETS  
*Jennifer Hummel, Manfred Kössl, Manuela Nowotny*

### Thursday

- T17-1B** A VISCOELASTIC MODEL OF ADAPTATION IN MAMMALIAN AUDITORY-NERVE FIBERS  
*Adam Peterson, Peter Heil*
- T17-2B** DETERMINATION OF DYNAMIC VESICLE POOLS IN INNER HAIR CELL RIBBON SYNAPSES  
*Carolin Wichmann, Elisabeth Auge, Ellen Reisinger, Tobias Moser*
- T17-3B** TEMPORAL INTEGRATION IN THE AUDITORY PATHWAY OF THE GRASSHOPPER  
*Sarah Wirtsohn, Bernhard Ronacher*
- T17-4B** AUDITORY PROCESSING IN A BUSH-CRICKET INTERNEURON  
*Timothy George Bayley, Berthold Hedwig*
- T17-5B** AUDITORY CHARACTERISATION OF *CAV2.3/-* MICE USING AUDITORY BRAINSTEM RESPONSES  
*Marco Weiergräber, Anna Papazoglou, Ralf Müller, Christina Henseler, Karl Broich, Roger Miller, Andreas Lundt*
- T17-6B** DOES STRESS ALTER HEARING THROUGH DIRECT EFFECTS IN THE COCHLEA?  
*Mirko Jaumann, Wibke Singer, Sze Chim Lee, Kamyar Kasini, Lukas Rüttiger, Marlies Knipper*

### Friday

- T17-1C** THREE DIMENSIONAL ACOUSTIC ORIENTATION IN INSECTS  
*Nanina Tron, Liesa-Kristin Beuter, Reinhard Lakes-Harlan*
- T17-2C** VIBRATION PERCEPTION IN ORTHOPTERA  
*Reinhard Lakes-Harlan, Philipp Keil, Robert Kügler, Heusler Jan, Strauss Johannes*
- T17-3C** FUNCTIONAL CATEGORIZATION OF ABDUCENS MOTONEURONS AS THE BASIS FOR APPROPRIATE DYNAMIC TUNING OF VESTIBULO-OCULAR RESPONSES IN *XENOPUS LAEVIS*  
*Haike Dietrich, Hans Straka*
- T17-4C** ONTOGENETIC PLASTICITY OF LINEAR VESTIBULO-OCULAR REFLEXES IN *XENOPUS LAEVIS*  
*Francisco Branoner, Hans Straka*
- T17-5C** MULTIMODAL MAP FORMATION OF TWO SENSORY MODALITIES WITHOUT VISUAL TEACHER: A DYNAMIC MODEL FOR THE BLIND MEXICAN CAVEFISH *ASTYANAX MEXICANUS*  
*Matthias Krippner, Julie Goulet, J. Leo van Hemmen*

### Saturday

- T17-1D** SPIKE-RATE RESONANCES IN SMALL NEURONAL NETWORKS: FROM THE CRICKET AUDITORY SYSTEM TO GENERAL MODELS  
*Florian Rau, Jan Clemens, Viktor Naumov, Wei Wu, R. Matthias Hennig, Susanne Schreiber*
- T17-2D** ANALYSIS OF A MOUSE MODEL WITH A MISSENSE MUTATION IN *OTOFERLIN*  
*Ellen Reisinger, Hanan Al-Moyed, Tina Pangrsic, Tobias Moser, Nicola Strenzke*
- T17-3D** MEDULLARY LATERAL LINE UNITS OF THE COMMON RUDD, *SCARDINIUS ERYTHROPHALMUS*, ARE SENSITIVE TO OBJECT POSITION  
*Evelyn Dylida, Adrian Klein, Horst Bleckmann*
- T17-4D** THE INFLUENCE OF *CABP2* ON THE BIOPHYSICAL PROPERTIES OF INNER HAIR CELL *CAV1.3 CA2+* CHANNELS  
*Maria Magdalena Picher, Isabelle Schrauwen, Sarah Helfmann, Akira Inagaki, Friederike Predoehl, Mohammad Amin Tabatabaiefar, Manou Sommen, Celia Zazo Seco, Jaap Oostrik, Hannie Kremer, Annelies Dheedene, Charlotte Claes, Erik Fransen, Morteza Hashemzadeh Chaleshtori, Paul Coucke, Amy Lee, Guy Van Camp, Tobias Moser*
- T17-5D** DISCREET LONG-TERM MONITORING OF ELECTRIC FISH BEHAVIOR  
*Jörg Henninger, Rüdiger Krahe, Jan Benda*



## T18: Auditory system: subcortical and cortical processing

### Wednesday

- T18-1A** COINCIDENT INPUTS ACHIEVED BY SYSTEMATIC VARIATIONS OF CONDUCTION VELOCITY  
*Armin Harry Seidl, Edwin W Rubel, Andres Barria*
- T18-2A** MASKING RELEASE DUE TO COHERENT ENVELOPE FLUCTUATIONS ACROSS FREQUENCY AT THE LEVEL OF THE INFERIOR COLLICULUS  
*Jan-Philipp Diepenbrock, Frank W. Ohl, Jesko L. Verhey*
- T18-3A** THE ROLE OF GABAERGIC AND GLYCINERGIC INHIBITION IN SHAPING SSA IN THE INFERIOR COLLICULUS OF THE ANESTHETIZED RAT  
*Yaneri A. Ayala, Manuel S. Malmierca*
- T18-4A** DIFFERENTIAL EXPERIENCE-DEPENDENT PLASTICITY IN MOUSE INFERIOR COLLICULUS DEPENDING ON PRIOR EXPOSURE  
*Hugo Cruces-Solis, Livia de Hoz*
- T18-5A** TINNITUS RELATED PLASTICITY IN AUDITORY CORTEX OF MONGOLIAN GERBILS  
*Sönke Ahlf, Konstantin Tziridis, Holger Schulze*
- T18-6A** REPRESENTATION OF COMPLEX SOUNDS IN THE MAMMALIAN INFERIOR COLLICULUS  
*Dominika Lyzwa, Michael Herrmann*
- T18-7A** FAST AND DIFFERENTIAL STEROID MODULATION OF THE AUDIO-MOTOR INTEGRATION IN THE MIDBRAIN OF THE TOAD *BOMBINA ORIENTALIS*  
*Christof Legler, Wolfgang Walkowiak*
- T18-8A** INFLUENCE OF SYNAPTIC INHIBITION ON OUTPUT RATE AND TIMING IN A SPHERICAL BUSHY CELL MODEL  
*Thomas Künzel, Jana Nerlich, Ivan Milenkovic, Hermann Wagner*
- T18-9A** DISTRIBUTION OF EXTRACELLULAR MATRIX PROTEOGLYCAN AT THE CALYX OF HELD/PRINCIPAL NEURONS IN THE MEDIAL NUCLEUS OF TRAPEZOID BODY IN MICE  
*Maren Blosa, Mandy Sonntag, Gudrun Seeger, Rudolf Rübsamen, Thomas Arendt, Markus Morawski*
- T18-10A** ROLES OF GABA-MEDIATED INHIBITION IN THE CORTICAL PROCESSING OF TEMPORALLY-PATTERNED SOUNDS  
*Julio C. Hechavarria, Manfred Kössl*
- T18-11A** INDEPENDENT RESPONSE ADAPTATION OF EXCITATORY AND INHIBITORY INPUTS ALLOWS RAPID ADJUSTMENT OF OPTIMAL SPATIAL SENSITIVITY IN LATERAL SUPERIOR OLIVARY NEURONS  
*Helge Gleiss, Michael Pecka, Benedikt Grothe*

- T18-12A** ADAPTATION IN THE AUDITORY MIDBRAIN OF THE BARN OWL INDUCED BY THREE DOUBLE STIMULATION PARADIGMS  
*Roland Feger, Martin Singheiser, Philipp Tellers, Mark von Campenhausen, Hermann Wagner*

### Thursday

- T18-1B** REGULARITY-DEPENDENT CHANGES IN STIMULUS-SPECIFIC ADAPTATION IN THE AUDITORY CORTEX  
*Sebastian Florian Betz, Bernhard H. Gaese*
- T18-2B** RAT AUDITORY CORTICAL FUNCTIONING AND DIFFERENT ASPECTS OF PERFORMANCE IN FREQUENCY DISCRIMINATION TASKS  
*Ann-Kathrin Riegel, Bernhard H. Gaese*
- T18-3B** HYPERPOLARIZATION-ACTIVATED CURRENTS SHAPE TEMPORAL RESPONSE PROPERTIES IN MOUSE SUPERIOR PARAOLIVARY NUCLEUS NEURONS  
*Katrin Vonderschen, Anna K. Magnusson*
- T18-4B** NEURAL CODING OF TARGET RANGE IN BATS IS INFLUENCED BY REFLECTIONS FROM WATER SURFACES  
*Alexander Luis Warmbold, Uwe Firzlaff, Lutz Wiegrebe*
- T18-5B** DIRECTIONALITY OF HEARING IN DOMESTIC CHICKEN (*GALLUS GALLUS DOMESTICUS*)  
*Hans Andrea Schnyder, Dieter Vanderelst, Sophia Bartenstein, Uwe Firzlaff, Harald Luksch*
- T18-6B** THE HEARING FUNCTION OF THE DELETION OF L-TYPE CAV1.2 IN THE PERIPHERAL AND CENTRAL AUDITORY SYSTEM  
*Sze Chim Lee, Annalisa Zuccotti, Somisetty V. Satheesh, Thomas Schimmang, Lukas Rüttiger, Hans Gerd Nothwang, Marlies Knipper*
- T18-7B** FREQUENCY-RELATED TOPOGRAPHY OF THE CORTICOFUGAL CONNECTIONS OF FIELD AI IN THE MONGOLIAN GERBIL  
*Eike Budinger, Michael Brosch, Henning Scheich, Judith Mylius*
- T18-8B** "THAT'S FAR BELOW ME!" - PULSE-ECHO DELAY SENSITIVITY IN THE VERTICAL PLANE MEASURED IN THE AUDITORY CORTEX OF BATS  
*Susanne Hoffmann, Selina Prosch, Uwe Firzlaff, Lutz Wiegrebe*
- T18-9B** EFFECTS OF TWO DIFFERENT HEARING AIDS ON SOUND PROCESSING IN THE PRIMARY AUDITORY CORTEX OF MONGOLIAN GERBILS  
*Konstantin Tziridis, Sönke Ahlf, Michael Heiden, Holger Schulze*
- T18-10B** GLYCINERGIC INHIBITION CONTROLS SYNAPTIC INTEGRATION IN THE MEDIAL SUPERIOR OLIVE  
*Michael Hideki Myoga, Simon Lehnert, Christian Leibold, Felix Felmy, Benedikt Grothe*

- T18-11B** TELEMETRIC STUDY OF NEURONAL ACTIVITY IN A SONG NUCLEUS HVC REVEALS ONE NEURON TYPE THAT IS INVOLVED IN SENSORY-MOTOR CONTROL OF CALLS IN ZEBRA FINCHES  
*Shouwen Ma, Lisa Trost, Manfred Gahr, Andries ter Maat*

### Friday

- T18-1C** LAYER-SPECIFIC PROCESSING OF ULTRASONIC CALLS IN THE AUDITORY CORTICAL FIELDS OF MICE  
*Günter Ehret, Diana B. Geißler*
- T18-2C** MULTIMODAL SIGNAL INTERGRATION IN THE DROSOPHILA CNS  
*Philipp Jaehde, Martin Goepfert*
- T18-3C** SIMULTANEOUS BUT NOT SEQUENTIAL BILATERAL LESION OF GERBIL AUDITORY CORTEX DOES EXTINGUISH PRE-LEARNED DISCRIMINATION PERFORMANCE OF FAST AMPLITUDE MODULATED TONES  
*Manfred Depner, Konstantin Tziridis, Holger Schulze*
- T18-4C** ELECTROPHYSIOLOGICAL EVIDENCE FOR AUDITORY MOTION-DETECTORS IN HUMANS  
*Ramona Grzeschik, Martin Böckmann-Barthel, Roland Mühler, Jesko L. Verhey, Michael B. Hoffmann*
- T18-5C** ACTIVITY DEPENDENT REGULATION ADJUSTS THE DURATION OF INHIBITION IN AN ECHO SUPPRESSION CIRCUIT  
*Julian Ammer, Felix Felmy*
- T18-6C** CALCIUM ENTRY SITES OF NEURONS IN THE MEDIAL SUPERIOR OLIVE  
*Felix Felmy, Sarah Berner, Delwen Franzen, Susanne Blank, Christian Kellner*
- T18-7C** VARIABILITY OF SOUND SOURCE POSITION AND TEMPORAL FEATURE REPRESENTATION IN ACROSS-FREQUENCY INTEGRATING NEURONS OF THE BARN OWL  
*Philipp Tellers, Kerstin Büles, Hermann Wagner*
- T18-8C** NMDA-DEPENDENT ENHANCEMENT OF RATE CODING IN THE AUDITORY BRAINSTEM  
*Ida Siveke, Julian Ammer, Benedikt Grothe, Felix Felmy*
- T18-9C** INVESTIGATING ADAPTATION IN THE BARN OWL WITH A DOUBLE-STIMULUS PARADIGM: A BEHAVIORAL APPROACH  
*Lutz Kettler, Sandra Brill, Dana Zähringer, Hermann Wagner*
- T18-10C** LEVELS OF GAP-43 MRNA REFLECT MODIFIED STIMULATION-DEPENDENT ACTIVITY IN THE AUDITORY BRAINSTEM OF RATS  
*Nicole Rosskoth-Kuhl, Robert-Benjamin Illing, Robert-Benjamin Illing, Ralf Birkenhäger*
- T18-11C** INHIBITORY SYNAPSES IN THE DEVELOPING AUDITORY BRAINSTEM TRANSIENTLY RELEASE ZINC WHICH ELICITS POSTSYNAPTIC CALCIUM RESPONSES  
*Elisabet Garcia-Pino, Maria E. Rubio, Catherine J. Weisz, Kandler Karl*

- T18-12C** AUDITORY INPUT TO TEGMENTAL NEURONS AND ITS MODULATION BY STRIATAL ACTIVITY  
*Anna C. Schneider, Wolfgang Walkowiak*

### Saturday

- T18-1D** GABAB RECEPTOR MEDIATED ADAPTATION IN MEDIAL SUPERIOR OLIVE NEURONS  
*Annette Stange, Andrea Lingner, Michael H. Myoga, Felix Felmy, Ida Siveke, Michael Pecka, Benedikt Grothe*
- T18-2D** INTERAURAL COHERENCE AS A BASIS FOR A ROBUST AND EFFICIENT SOUND LOCALIZATION MODEL  
*Tom Goeckel, Hermann Wagner, Gerhard Lakemeyer*
- T18-3D** ROLE OF AUDITORY INTERHEMISPHERIC CONNECTIONS IN LATERALIZED SOUND PROCESSING BY MONGOLIAN GERBILS  
*Katja Saldeitis, Marcus Jeschke, Max F. K. Happel, Wolfram Wetzel, Henning Scheich, Frank W. Ohl, Eike Budinger*
- T18-4D** THE CLAUSTRUM IN THE MONGOLIAN GERBIL (*MERIONES UNGUICULATUS*): ARCHITECTURE AND CONNECTIONS WITH PRIMARY SENSORY AND FRONTAL ASSOCIATION CORTICES  
*Julia Henschke, Eike Budinger, Henning Scheich, Susanne Radtke-Schuller*
- T18-5D** DETERMINATION OF PURE-TONE HEARING THRESHOLDS IN EURASIAN OTTERS (*LUTRA LUTRA*) USING BRAINSTEM AUDITORY EVOKED POTENTIALS (BAEP)  
*Mathias Benjamin Voigt, Christian Hackenbroich, Hans-Heinrich Krüger, Arne Liebau, Karl-Heinz Esser*
- T18-6D** HEARING DURING AGING IN THE EMERGING PRIMATE BRAIN AGING MODEL MICROCEBUS MURINUS: A BERA STUDY  
*Christian Schopf, Elke Zimmermann, Julia Tünsmeier, Sabine B.R. Kästner, Andrej Kral*
- T18-7D** CHANGE OF THETA-BAND COHERENCE BETWEEN AUDITORY CORTEX AND VENTRAL STRIATUM IN MONGOLIAN GERBIL DURING A TWO-WAY GO/NOGO OPERANT CONDITIONING TASK  
*Andreas L. Schulz, Marie L. Woldeit, Frank W. Ohl*
- T18-8D** SPATIO-TEMPORAL CODING IN THE BAT AUDITORY MIDBRAIN AND CORTEX: A REPRESENTATION OF ECHO-ACOUSTIC FLOW?  
*Uwe Firzlaff, Susanne Hoffmann, Alexander Warmbold, Lutz Wiegrebe*
- T18-9D** AMPLITUDE-MODULATION DETECTION OF GERBILS IN REVERBERANT SOUND FIELDS  
*Lutz Wiegrebe, Andrea Lingner, Kathrin Kugler, Benedikt Grothe*

- T18-10D** PROJECTION PATTERNS OF NEURONS WITHIN THE CHICKEN INFERIOR COLLICULUS INTO FORMATIO RETICULARIS AND OPTIC TECTUM  
*Bertram Niederleitner, Harald Luksch*
- T18-11D** METABOLIC MATURATION OF AUDITORY NEURONES IN THE SUPERIOR OLIVARY COMPLEX: IMMUNOHISTOCHEMICAL STUDY AND MATHEMATICAL MODELLING  
*Lars Kunz, Barbara Trattner, Céline Marie Gravat, Benedikt Grothe*
- T18-12D** LACK OF BRAIN-DERIVED NEUROTROPHIC FACTOR IN THE COCHLEA BUT NOT IN THE BRAIN HAMPERS INNER HAIR CELL SYNAPSE PHYSIOLOGY, BUT PROTECTS AGAINST NOISE INDUCED AFFERENT FIBER LOSS  
*Wibke Singer, Annalisa Zuccotti, Stephanie Kuhn, Stuart L. Johnson, Christoph Franz, Dietmar Hecker, Hyun-Soon Geisler, Iris Köpfschall, Karin Rohbock, Katja Gutsche, Julia Dlugaiczyk, Bernhard Schick, Walter Marcotti, Lukas Rüttiger, Thomas Schimmang, Marlies Knipper*

- T19-6A** TRANSDUCTION OF AMINO ACID ODORANTS IN THE MAIN OLFACTORY EPITHELIUM OF LARVAL XENOPUS LAEVIS  
*Alfredo Sansone, Thomas Hassenklöver, Evangelia Tantalaki, Ivan Manzini*
- T19-7A** PHOSPHOLIPASE CB MEDIATES PHEROMONE DEPENDENT SIGNAL TRANSDUCTION IN THE OLFACTORY RECEPTOR NEURONS OF THE HAWKMOTH MANDUCA SEXTA  
*Petra Gawalek, Andreas Nolte, Martin Hindermann, Monika Stengl*
- T19-8A** MITOCHONDRIAL CA<sup>2+</sup> MOBILIZATION PLAYS A KEY ROLE IN MOUSE OLFACTORY SIGNALING  
*Lisa Marie Moeller, Daniela Fluegge, Annika Cichy, Monika Gorin, Agnes Weth, Sophie Veitinger, Silvia Cainarca, Stefan Lohmer, Sabrina Corazza, Eva M. Neuhaus, Werner Baumgartner, Jennifer Spehr, Marc Spehr*
- T19-9A** PROFILE OF ECTOPICALLY EXPRESSED HUMAN OLFACTORY RECEPTORS  
*Caroline Flegel, Stavros Manteniotis, Sandra Osthold, Guenter Gisselmann, Hanns Hatt*

## T19: Chemical senses: olfaction, taste, others

### Wednesday

- T19-1A** ODOR IDENTITY CODING REVEALS PARALLEL PROCESSING WITHIN THE BEE'S DUAL OLFACTORY PATHWAY  
*Martin F. Brill, Anneke Meyer, Martin P. Nawrot, Wolfgang Rössler*
- T19-2A** CHARACTERIZATION AND ROLE OF CALCIUM-DEPENDENT POTASSIUM CURRENTS IN LOCAL INTERNEURONS OF THE ANTENNAL LOBE OF PERIPLANETA AMERICANA  
*Ben Warren, Cathleen Rotte, Sabine Schleicher, Andreas Klein, Viktor Bardos, Sandra Wendler, Merit Klemann, Peter Kloppenburg*
- T19-3A** INFORMATION PROCESSING IN THE DROSOPHILA OLFACTORY SYSTEM: FROM ODORS TO KENYON CELLS  
*Faramarz Faghihi, Florentin Wörgötter, Christoph Kolodziejski*
- T19-4A** ON THE IMPORTANCE AND INTERACTION OF VISUAL AND OLFACTORY SIGNALS IN HONEYBEE FORAGING BEHAVIOUR  
*Verena Reinhardt, Christa Neumeyer*
- T19-5A** IN SITU VOLTAGE-CLAMP RECORDINGS FROM OLFACTORY PROJECTION NEURONS IN THE HONEYBEE  
*Jan Kropf, Wolfgang Rössler*

- T19-10A** THE INSECT OLFACTORY SYSTEM EXPLOITS STIMULUS-ONSET ASYNCHRONY FOR ODOR-BACKGROUND SEGREGATION  
*Paul Szyszka, Jacob S. Stierle, Stephanie Biergans, C. Giovanni Galizia*
- T19-11A** OCTOPAMINERGIC NEUROMODULATION IN THE COCKROACH ANTENNAL LOBE  
*Cathleen Rotte, Malaika Fehlert, Peter Kloppenburg*
- T19-12A** THE EXPRESSION PATTERNS OF ODORANT BINDING PROTEINS AND RECEPTORS INDICATE DISTINCT SUBSETS OF OLFACTORY SENSILLA ON THE ANTENNA OF ANOPHELES GAMBIAE  
*Anna Schultze, Danuta Schymura, Jürgen Krieger*
- T19-13A** CLONING AND EXPRESSION PATTERN OF A GABAB-RECEPTOR SUBUNIT FROM THE ANTENNAE OF MALE HELIOTHIS VIRESCENS  
*Pablo Pregitzer, Heinz Breer, Jürgen Krieger*
- T19-14A** COMPREHENSIVE RNA-SEQ EXPRESSION ANALYSIS OF SENSORY NEURONS WITH FOCUS ON TRIGEMINAL GANGLIA  
*Stavros Manteniotis, Ramona Lehmann, Caroline Flegel, Benjamin Schreiner, Janine Altmueller, Nicole Schöbel, Hanns Hatt, Guenter Gisselmann*
- T19-15A** PUTATIVE CHEMOSENSORY CELLS AT THE "LIMITING RIDGE" AND THEIR INTERACTION WITH "EFFECTOR" CELLS  
*Julia Eberle, Patricia Widmayer, Heinz Breer*
- T19-16A** ELECTROPHYSIOLOGICAL INVESTIGATION OF INTRINSIC MITRAL CELL PROPERTIES IN THE MOUSE ACCESSORY OLFACTORY BULB  
*Monika Gorin, Marc Spehr*

- T19-17A** BENCHMARKING DROSOPHILA RECEPTOR NEURONS FOR TECHNICAL APPLICATIONS  
*Thomas Nowotny, Stephen Trowell, Marien de Bruyne*
- T19-18A** FUNCTION OF ADULT-GENERATED DOPAMINERGIC INTERNEURONS IN THE OLFACTORY BULB GLOMERULAR LAYER  
*Wolfgang Georg Bywalez, Michael Mörschel, Philipp Serr, Jovica Ninkovic, Magdalena Götz, Veronica Egger*
- T19-19A** DOMINANCE OF WEAKER LIGANDS IN A COMPLEX ODOR MIXTURE  
*Daniel Münch, Benjamin Schmeichel, Ana F. Silbering, C. Giovanni Galizia*
- T19-20A** MODULATION OF PHEROMONE RESPONSES IN ANTENNAL TRICHOID SENSILLA OF THE HAWKMOTH *MANDUCA SEXTA* BY ORCO AGONISM AND ANTAGONISM  
*Andreas Nolte, Latha Mukunda, Nico Funk, Petra Gawalek, Sarah Körte, Dieter Wicher, Bill S. Hansson, Monika Stengl*

### Thursday

- T19-1B** ROLE OF THE GLOBAL LATERAL INHIBITION IN THE OLFACTORY BULB NETWORK AND DISCRIMINATION TIME IN MICE  
*Daniel Nunes, Thomas Kuner*
- T19-2B** FUNCTIONAL PROPERTIES OF OLIGOMERIC CONSTRUCTS OF THE DROSOPHILA ODORANT CO-RECEPTOR ORCO  
*Latha Mukunda, Vardanush Sargsyan, Sofia Lavista-Llanos, Bill S. Hansson, Dieter Wicher*
- T19-3B** MAMMALIAN SPECIFIC OR37 RECEPTORS ARE DIFFERENTIALLY ACTIVATED BY DISTINCT ODOROUS FATTY ALDEHYDES  
*Verena Bautze, Wolfgang Schwack, Heinz Breer, Jörg Strotmann*
- T19-4B** CIRCADIAN OSCILLATIONS OF CYCLIC NUCLEOTIDE CONCENTRATIONS IN INSECT ANTENNAE  
*Thomas Schendzielorz, Katja Schirmer, Julia Schulze, Monika Stengl*
- T19-5B** CHARACTERIZATION AND ROLE OF CA<sup>2+</sup>-DEPENDENT OUTWARD POTASSIUM CURRENTS IN UNIGLOMERULAR PROJECTION NEURONS OF THE ANTENNAL LOBE OF *PERIPLANETA AMERICANA*  
*Sabine Schleicher, Cathleen Rotte, Ben Warren, Andreas Klein, Viktor Bardos, Peter Kloppenburg*
- T19-6B** SUGAR-ELICITED SEARCH BEHAVIOR: THE BLOWFLY'S DANCE IN HONEY BEES  
*Axel Brockmann, Andrew Magis, Jake Herman, Jonathan Massy, Gene E. Robinson*
- T19-7B** CITRAL SELECTIVELY INHIBITS HUMAN K2P3.1 CHANNELS  
*Leopoldo Raul Beltran*

- T19-8B** NEUROCHEMICAL PROFILES OF IDENTIFIED LOCAL INTERNEURONS IN THE ANTENNAL LOBE OF *PERIPLANETA AMERICANA*  
*Debora Fusca, Andreas Husch, Joachim Schachtner, Arnd Baumann, Peter Kloppenburg*
- T19-9B** FUNCTIONAL CHARACTERIZATION OF HUMAN TRACE AMINE-ASSOCIATED RECEPTORS (TAARS) IN RECOMBINANT SYSTEMS  
*Ivonne Wallrabenstein, Jonas Kuklan, Lea Weber, Sandra Zborala, Markus Werner, Janine Altmüller, Christian Becker, Anna Schmidt, Hanns Hatt, Thomas Hummel, Günter Gisselmann*
- T19-10B** ROLE OF G<sub>20B</sub> SUBGROUP OF G PROTEINS IN OLFACTORY SIGNALING OF *DROSOPHILA MELANOGASTER*  
*Jennifer Sinthiya Ignatious Raja, C. Giovanni Galizia, Vladimir L. Katanaev*
- T19-11B** DEEP SEQUENCING OF THE MURINE OLFACTORY TRANSCRIPTOME  
*Ninthujah Kanageswaran, Marilen Demond, Benjamin Schreiner, Janine Altmüller, Hanns Hatt, Günter Gisselmann*
- T19-12B** LONG-TERM EFFECTS OF NORADRENALINE ON OLFACTORY SENSORY NEURON INPUT TO THE MAIN OLFACTORY BULB  
*Dennis Eckmeier, Stephen D. Shea*
- T19-13B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF PROTON-MEDIATED ACTIVITY IN THE MOUSE VOMERONASAL ORGAN  
*Annika Cichy, Jennifer Spehr, Marc Spehr*
- T19-14B** CAN *Aedes aegypti* FEMALES AVOID OVIPOSITION ON M-CRESOL (100 PPM) IN THE PRESENCE OF THE DETERRENT ISOMER P-CRESOL?  
*Ali Afify, Giovanni Galizia*
- T19-15B** ALTERED EXPRESSION OF GUSTATORY SIGNALING ELEMENTS IN THE STOMACH OF MORBIDLY OBESE PATIENTS AND OBESE MICE  
*Patricia Widmayer, Markus Küpper, Michael Kramer, Alfred Königsrainer, Heinz Breer*
- T19-16B** PHENOTYPIC PLASTICITY OF SYNAPTIC-BOUTON NUMBERS IN THE MUSHROOM BODIES OF THE HIGHLY POLYMORPHIC LEAF-CUTTING ANT *ATTA VOLLENWEIDERI*  
*Claudia Groh, Christina Kelber, Kornelia Grübel, Wolfgang Rössler*
- T19-17B** DEORPHANIZING CRYPT NEURONS, THE THIRD TYPE OF OLFACTORY RECEPTOR NEURONS  
*Gaurav Ahuja, Yuichiro Oka, Sigrun Korsching*
- T19-18B** IDENTIFICATION OF A NEW MURINE OLFACTORY SUBSYSTEM  
*Sonja Oberland, Stefanie Gaab, Niels de Wit, Thomas Pelz, Eva M. Neuhaus*

- T19-19B** COMPARATIVE TRANSCRIPTOMICS OF ARTHROPOD ANTENNAE  
*Katrin Christine Groh, Ewald Grosse-Wilde, Heiko Vogel, Marcus C. Stensmyr, Bill S. Hansson*
- T19-20B** VINEGAR FLY BEHAVIOR TOWARDS ODOR MIXTURES – AN ADDITIVE APPROACH  
*Michael Thoma, Markus Knaden, Bill S. Hansson*
- T19-21B** RECEPTORS FOR PROTEIN BREAKDOWN PRODUCTS IN GASTRIC ENDOCRINE CELLS AND IN GUSTATORY SENSORY CELLS  
*Désirée Haid, Patricia Widmayer, Heinz Breer*

### Friday

- T19-1C** SEROTONIN ASSOCIATION WITH FEEDING REGULATION IN ANTS  
*Agustina Falibene, Roxana Josens, Wolfgang Rössler*
- T19-2C** MOLECULAR BASIS OF SEX PHEROMONE DETECTION IN *HELIOTHIS VIRESCENS*  
*Jürgen Krieger, Pablo Pregitzer, Heinz Breer*
- T19-3C** SPATIAL REPRESENTATION OF THE OLFACTORY OUTPUT IN *DROSOPHILA*  
*Amelie E. E. Baschwitz, Antonia Strutz, Bill S. Hansson, Silke Sachse*
- T19-4C** IDENTIFICATION OF PDZ-PROTEIN BASED MICRO-DOMAINS IN VOMERONASAL SENSORY NEURONS  
*Bastian Henkel, Tobias Ackels, Marc Spehr, Eva M. Neuhaus*
- T19-5C** CHEMO- AND THERMOSENSORY SIGNALING IN THE GRUENEBERG GANGLION  
*Joerg Fleischer, Katharina Mamasuew, Sabrina Stebe, Heinz Breer*
- T19-6C** TACHYKININ-RELATED AND MYOINHIBITORY PEPTIDES CO-EXPRESS IN THE BRAIN OF *TRIBOLIUM CASTANEUM*  
*Milosz Krala, Carsten M. Heuer, Joachim Schachtner*
- T19-7C** THE *DROSOPHILA MELANOGASTER* OLFACTORY CO-RECEPTOR ORCO MEDIATES ODORANT SENSITIVITY IN ADULT FLIES  
*Thomas Tam Giang, Andrea Schneider, Henrike Scholz*
- T19-8C** FUNCTIONAL CHARACTERIZATION OF ALTERNATIVE SIGNAL TRANSDUCTION PATHWAYS IN OLFACTORY RECEPTOR NEURONS  
*Paul Scholz, Sabrina Baumgart, Katharina Klasen, Benjamin Kalbe, Hanns Hatt*
- T19-9C** SCAFFOLDING PROTEINS IN OLFACTION  
*Fabian Jansen, Sabrina Baumgart, Benjamin Kalbe, Mark Spehr, Christian Herrmann, Willem Bintig, Hanns Hatt, Eva Neuhaus*

- T19-10C** DELTA-GAMMA PHASE-AMPLITUDE COUPLING IN THE MOUSE WHISKER BARREL CORTEX IS DRIVEN BY THE OLFACTORY BULB  
*Junji Ito, Snigdha Roy, Ying Cao, Max Fletcher, Sonja Grün, Delfel Heck*
- T19-11C** UNTYPICAL CONNECTIVITY FROM OLFACTORY SENSORY NEURONS EXPRESSING OR37 INTO HIGHER BRAIN CENTERS VISUALIZED BY GENETIC TRACING  
*Jörg Strotmann, Andrea Bader, Heinz Breer*
- T19-12C** CHARACTERIZATION OF THE IONTRANSPORTER NKCC1 IN THE FIELD OF CHEMOSENSATION  
*Claudia Haering, Janine Wäring, Hanns Hatt*
- T19-13C** VARIATION IN THE HUMAN OLFACTORY SUBGENOME AND ITS IMPACT ON OLFACTORY PERCEPTION  
*Jonas Kuklan, Günter Gisselmann, Thomas Hummel, Hanns Hatt*
- T19-14C** INVOLVEMENT OF SEVERAL TRP CHANNELS IN TRIGEMINAL ODOR SENSATION  
*Jessica Kyereme, Matthias Lübbert, Nicole Schoebel, Hanns Hatt*
- T19-15C** TASTE RECEPTORS IN MAMMALIAN SPERMATOZOA: FUNCTIONAL ROLE OF TAS1R1 IN REGULATING BASAL CALCIUM AND cAMP CONCENTRATIONS IN SPERMATOZOA  
*Andrea Wartenberg, Dorke Meyer, Anja Voigt, Patricia Widmayer, Heike Borth, Andreas Breit, Ulrich Boehm, Thomas Gudermann, Wolfgang Meyerhof, Ingrid Boekhoff*
- T19-16C** DEORPHANIZATION OF MEMBERS OF THE SEGREGATING PSEUDOGENES OF OLFACTORY RECEPTORS  
*Kaveh Ashti Baghaei, Günter Gisselmann, Hanns Hatt*
- T19-17C** PROBING A POTENTIAL HETEROMULTIMERIZATION OF RECOMBINANT ANOCTAMIN PROTEINS  
*Tobias Ackels, Bastian Henkel, Eva Neuhaus, Marc Spehr*
- T19-18C** AN IN VIVO ATLAS OF THE *DROSOPHILA* ANTENNAL LOBE BASED ON RECEPTOR NEURON TARGETING  
*Veit Grabe, Antonia Strutz, Bill S. Hansson, Silke Sachse*
- T19-19C** A MODEL FOR SPARSE AND RELIABLE ENCODING OF OLFACTORY CUES IN THE HONEYBEE  
*Rinaldo Betkiewicz, Michael Schmucker, Farzad Farkhooi, Martin Paul Nawrot*
- T19-20C** GENE EXPRESSION PROFILING AND THE OLFACTORY SENSE OF *MANDUCA SEXTA*  
*Christopher Koenig, Sascha Bucks, Monika Stengl, Heiko Vogel, Ewald Grosse-Wilde, Bill S. Hansson*
- T19-21C** EFFECTS OF ADIPONECTIN ON THE OLFACTORY SYSTEM  
*Diana Loch, Heinz Breer, Jörg Strotmann*

## Saturday

- T19-1D** FMRFAMIDE-IMMUNOSTAINING REVEALS SIFAMIDE IN THE ANTENNAL LOBE OF THE HONEYBEE  
*Sabine Kreissl, Anne Schapals, Giovanni C. Galizia*
- T19-2D** POST-STIMULUS ACTIVITY IN THE OLFACTORY PATHWAY OF DROSOPHILA  
*Alja Lüdke, Kristina Dylla, C. Giovanni Galizia, Paul Szyszka*
- T19-3D** THE NEGLECTED SENSE - OLFACTORY COMMUNICATION IN A SONGBIRD, THE ZEBRA FINCH (TAENIOPYGIA GUTTATA)  
*E. Tobias Krause, Barbara A. Caspers*
- T19-4D** SPLITGFP - MEDIATED LOCALIZATION OF CONNECTIVITIES BETWEEN INTRINSIC AND EXTRINSIC MUSHROOM BODY NEURONS IN DROSOPHILA  
*Ulrike Pech, Atefeh Pooryasin, Serge Birman, André Fiala*
- T19-5D** COMPARATIVE NEUROANATOMICAL STUDY OF THE ANTENNAL LOBES OF HORNETS  
*Antoine Couto, Karine Monceau, Olivier Bonnard, Denis Thiéry, Jean-Christophe Sandoz*
- T19-6D** PHEROMONAL SEX COMMUNICATION IN HONEYBEE DRONES: FROM ODOR PROCESSING TO ORIENTATION BEHAVIOR  
*Andreas S. Brandstaetter, Florian Bastin, Jean-Christophe Sandoz*
- T19-7D** ACTIVITY DEPENDENT PLASTICITY IN THE OLFACTORY SYSTEM OF ADULT TRIBOLIUM CASTANEUM  
*Peter Christ, Martin Kollmann, Joachim Schachtner*
- T19-8D** INHIBITORY PROJECTION NEURONS BIAS ODOR ATTRACTION BEHAVIOR IN THE LATERAL HORN AREA OF DROSOPHILA MELANOGASTER  
*Antonia Strutz, Jan Soelster, Amelie Baschwitz, Veit Grabe, Farhan Abu, Jürgen Rybak, Markus Knaden, Michael Schmuker, Bill S. Hansson, Silke Sachse*
- T19-9D** THE OLFACTORY PATHWAY OF THE RED FLOUR BEETLE TRIBOLIUM CASTANEUM  
*Martin Kollmann, Stefan Dippel, Sergius Frank, Stephanie Crombach, Stefan Schütz, Ernst A. Wimmer, Joachim Schachtner*
- T19-10D** KEY PLAYERS – FUNCTIONAL ANALYSIS OF MANDUCA SEXTA OLFACTORY RECEPTORS  
*Christian Klinner, Christopher König, Shannon Olsson, Marcus C. Stensmyr, Bill S. Hansson, Ewald Grosse-Wilde*
- T19-11D** OLFACTION IN THE JUMPING BRISTLETAIL LEPISMA-CHILIS Y-SIGNATA (ARCHAEOGNATHA, MACHILIDAE)  
*Christine Mißbach, Hany Dweck, Steffen Harzsch, Marcus C. Stensmyr, Markus Knaden, Bill S. Hansson, Ewald Grosse-Wilde*

- T19-12D** THE NEUROPEPTIDOME OF TRIBOLIUM CASTANEUM ANTENNAL LOBES AND MUSHROOM BODIES  
*Marlene Binzer, Carsten M. Heuer, Jörg Kahnt, Joachim Schachtner*
- T19-13D** CODING OF FLORAL AND PHEROMONAL ODORS BY TWO OLFACTORY SUBSYSTEMS IN THE HONEYBEE BRAIN  
*Jean-Christophe Sandoz, Julie Carcaud, Martin Giurfa*
- T19-14D** SYNAPTIC CIRCUITRY OF IDENTIFIED NEURONS IN THE ANTENNAL LOBE OF DROSOPHILA MELANOGASTER  
*Jürgen Rybak, Giovanni Talarico, Santiago Ruiz, Christopher Arnold, David Neubert, Rafael Cantera, Bill Hansson*
- T19-15D** BIMODAL PROCESSING OF OLFACTORY INFORMATION IN AN AMPHIBIAN NOSE: ODOR RESPONSES SEGREGATE INTO A MEDIAL AND A LATERAL STREAM  
*Sebastian Gliem, Adnan S. Syed, Alfredo Sansone, Eugen Kludt, Evangelia Tantalaki, Sigrun I. Korsching, Ivan Manzini*
- T19-16D** RAPID MATURATION OF ODOR-EVOKED SIGNALING IN ADULT-BORN JUXTAGLOMERULAR NEURONS OF THE MOUSE OLFACTORY BULB  
*Yury Kovalchuk, Ryota Homma, Yajie Liang, Anatoliy Maslyukov, Marina Hermes, Yovica Ninkovic, Magdalena Götz, Lawrence Cohen, Olga Garaschuk*
- T19-17D** OLFACTORY RELATED GENE EXPRESSION IN THE ANTENNA OF LEAF-CUTTING ANTS (ATTA VOLLENWEIDERI)  
*Sarah Koch, Bill S. Hansson, Christoph J. Kleineidam, Ewald Grosse-Wilde*
- T19-18D** SHORT-TIME EXPOSURE TO VARIOUS ODOR STIMULI OR ODOR DEPRIVATION AFFECTS THE DISTRIBUTION OF FOS POSITIVE CELLS IN THE OLFACTORY SYSTEM NEUROGENIC AREA OF THE RAT  
*Kamila Fabianova, Juraj Blasko, Marcela Martoncikova, Eniko Racekova*
- T19-19D** POST-STIMULUS FIRING AND THE CORRESPONDING OLFACTORY SEARCH STRATEGY  
*Nicole Voges, Antoine Chaffiol, Philippe Lucas, Dominique Martinez*

## T20: Somatosensation: touch, temperature, proprioception, nociception

### Wednesday

- T20-1A** INFRARED VISION IN SNAKES – HOW NEURONS IN THE RATTLESNAKE'S TECTUM OPTICUM RESPOND TO A MOVING WARM OBJECT  
*Felix Kaldenbach, Tobias Kohl, Horst Bleckmann*

- T20-2A** ENHANCED RESPONSES TO ODDBALL STIMULI IN THE RAT BARREL CORTEX – AN ANIMAL MODEL FOR HUMAN MISMATCH NEGATIVITY?  
*Steffen Klein, Manuel Lemos M. Rodrigues, Klaus Funke*
- T20-3A** NEURONAL CORRELATES OF WHISKER STIMULATION IN WILDTYPE MICE AND THE NRG1 MOUSE MODEL OF SCHIZOPHRENIA  
*Claudia Schreiner, Thomas Bessaih, Ted Abel, Dirk Feldmeyer, Diego Contreras*

### Thursday

- T20-1B** THE TRANSCRIPTION FACTOR C-MAF CONTROLS TOUCH RECEPTOR DEVELOPMENT AND FUNCTION  
*Hagen Wende, Stefan G. Lechner, Cyril Cheret, Steeve Bourane, Maria E. Sheean, Alexandre Pattyn, Katja Reuter, Francis L. Munier, Patrick Carroll, Gary R. Lewin, Carmen Birchmeier*
- T20-2B** ACTIVITY LOCALISATION OF SOUND TRANSDUCING TRP CHANNELS VIA IN VIVO CA2+ - IMAGING  
*Robert Jago Wiek, Martin Göpfert*
- T20-3B** COLD- AND WARM-RECEPTOR NEURONS OF THE SENSILLUM COELOCAPITULUM OF THE ANT CAM-PONOTUS RUFIPES  
*Manuel Nagel, Christoph J. Kleineidam*

### Friday

- T20-1C** AN ELABORATE SUBGENUAL ORGAN COMPLEX IN STICK INSECTS  
*Johannes Strauß*
- T20-2C** ENCODING OF TOUCH LOCATION AND INTENSITY BY NEURONS OF THE MEDICINAL LEECH HIRUDO MEDICINALIS  
*Gerrit Hilgen, Friederice Pirschel, Jutta Kretzberg*
- T20-3C** LDCV RELEASE FROM DRG NEURONS AND ITS MODULATION BY NPY  
*Anneka Bost, Barbara Niemeyer, Jens Rettig, Ute Becherer*

### Saturday

- T20-1D** THREAT, PAIN, AND BRAIN - THE EFFECTS OF FEAR AND ANXIETY ON THE PERCEPTION OF PAIN  
*Matthias J. Wieser, Philipp Reicherts, Antje BM Gerdes, Andreas Mühlberger, Paul Pauli*
- T20-2D** EFFECTS OF ASSOCIATIVE AND NON-ASSOCIATIVE TACTILE LEARNING ON ANTENNAL MOVEMENT IN HONEYBEES (APIS MELLIFERA L.)  
*Simon Würth, Samir Mujagic, Volker Dürr*

- T20-3D** THE DEVELOPMENT OF CROSS-MODAL PROCESSING IN THE RAT PRIMARY SOMATOSENSORY CORTEX  
*Kay Sieben, Brigitte Röder, Ileana L. Hanganu-Opatz*

### T21: Motor systems

#### Wednesday

- T21-1A** CHARACTERIZATION OF A BEHAVIORAL SAMUEL MUTANT GENERATED BY P ELEMENT-MEDIATED GENE TRAPPING IN DROSOPHILA MELANOGASTER  
*Roswitha Jungnickel, Roland Strauss, Bert R. E. Klagges, Heinz Sass*
- T21-2A** DETERMINING MODE OF ACTION OF PYMETROZINE – FROM SINGLE CELL TO SYSTEM LEVEL  
*Judith Förster, Ulrich Ebbingshaus-Kintscher, Ansgar Büschges*
- T21-3A** DECODING OF REACH AND GRASP KINEMATICS FROM PRIMATE PREMOTOR, MOTOR, AND PARIETAL CORTEX  
*Veera Katharina Menz, Stefan Schaffelhofer, Hansjörg Scherberger*
- T21-4A** INSECT LEG TARGETING: AIMING ACCURACY DEPENDS ON ACTIVITY OF TARGET LEG  
*Anne Wosnitza, Jennifer Engelen, Matthias Gruhn*
- T21-5A** INTERSEGMENTAL COORDINATION IN THE SWIMMERET SYSTEM: NEURONAL PROPERTIES OF THE DESCENDING COORDINATING NEURON  
*Swantje Grätsch, Carmen Smarandache-Wellmann*
- T21-6A** LFP SIGNALS IN MACAQUE PARIETAL HAND AREA AIP REPRESENT SPATIAL INFORMATION  
*Sebastian J. Lehmann, Hansjörg Scherberger*
- T21-7A** INFLUENCE OF TEMPERATURE ON THE RHYTHMIC ACTIVITY OF THE SWIMMERET SYSTEM IN CRAYFISH (PACIFASTACUS LENIUSCULUS)  
*Felix Blumenthal, Carmen Smarandache-Wellmann*
- T21-8A** CALCIUM IMAGING OF RETROGRADELY LABELED RETRACTOR COXAE NEURONS IN THE STICK INSECT CARAUSIUS MOROSUS  
*Jens Goldammer, Cathleen Rotte, Joachim Schmidt, Peter Kloppenburg, Ansgar Büschges*
- T21-9A** GABAERGIC INNERVATION OF THE CILIARY GANGLION IN PIGMENTED AND ALBINO RATS  
*Miriam Barnerssoi, Anja K.E. Horn*

### Thursday

- T21-1B** CHARACTERIZATION OF MUSCLE FIBER TYPES IN AN INSECT LEG  
*Elzbieta Godlewska, Ansgar Büschges, Matthias Gruhn*
- T21-2B** BODY-SIDE SPECIFICITY OF DESCENDING CONTROL OF LEG MOTOR ACTIVITY DURING TURNING IN AN INSECT  
*Matthias Gruhn, Philipp Rosenbaum, Anke Borgmann, Ansgar Bueschges*
- T21-3B** CONTROL OF MOTOR ACTIVITY IN A WALKING STICK INSECT (CARAUSIUS MOROSUS) LEG WITH AND UPON LOSS OF GROUND CONTACT  
*Joscha Schmitz, Volker Berendes, Michael Dübber, Matthias Gruhn, Ansgar Büschges*
- T21-4B** CALCIUM FRET-IMAGING INDICATES BILATERAL POWER BALANCING IN TRANSGENE DROSOPHILA FLIGHT MUSCLE  
*Fritz-Olaf Lehmann, Dimitri Skandalis*
- T21-5B** CONTROL OF HANDLING FOOD BY THE "HANDS" IN INSECT FEEDING  
*Reinhold Hustert, Anh-Vu Nguyen*
- T21-6B** SINGLE TRIAL NEURONAL CORRELATES OF DECISION-MAKING FOR HAND GRASPING IN MACAQUE AREA F5 AND AIP  
*Benjamin Wellner, Jonathan A Michaels, Wiebke Alexandra Wellner, Hans Scherberger*
- T21-7B** EMBODIED JOINT MOVEMENT CONTROL: INTERACTION OF NEURAL NETWORKS AND PASSIVE MUSCLE PROPERTIES IN THE STICK INSECT  
*Arndt von Twickel, Christoph Guschlbauer, Charalampos Mantziaris, Anna Schwarz, Ansgar Büschges*
- T21-8B** ALLOCENTRIC PLANNING OF IMMEDIATE REACH MOVEMENT IS PRONE TO INDUCED ROELOFS ILLUSION  
*Bahareh Taghizadeh, Alexander Gail*
- T21-9B** INTERDEPENDENCE OF MOVEMENT PLANNING AND CHOICE BEHAVIOR FOR DECISIONS AMONG MULTIPLE REACH GOALS  
*Lalitta Suriya-Arunroj, Alexander Gail*
- T21-10B** ACTIVITY OF DUM NEURONS IN THE SUBESOPHAGEAL GANGLION DURING LOCOMOTOR BEHAVIOR IN THE STICK INSECT  
*Thomas Stolz, Martin Heß, Joachim Schmidt*

### Friday

- T21-1C** CALRETININ INPUTS ARE CONFINED TO MOTONEURONS FOR UPWARD EYE MOVEMENTS IN PRIMATES  
*Christina Zeeh, Bernhard J. Hess, Emmanuel Chen Ngwa, Julia M. Feige, Anja K.E. Horn*
- T21-2C** NEURAL CONTROL OF FORWARD AND BACKWARD WALKING IN INSECTS  
*Philipp Rosenbaum, Ansgar Bueschges*

- T21-3C** WHOLE-CELL RECORDINGS FROM MOUSE FORELIMB MOTOR CORTEX NEURONS DURING TARGETED REACHING  
*Birgit Christina Voigt, Luc Estebanez, James F.A. Poulet*
- T21-4C** MODULATION IN THE PROCESSING OF MOVEMENT SIGNALS FROM THE LEG DURING CURVE WALKING OF AN INSECT  
*Katja Hellekes, Ansgar Büschges*
- T21-5C** IMMUNOCYTOCHEMICAL STUDIES ON THE NERVOUS SYSTEM OF ONYCHOPHORA (VELVET WORMS): INSIGHTS INTO THE EVOLUTION OF ARTHROPOD BODY SEGMENTATION  
*Georg Mayer, Hans-Joachim Pflüger, Paul Anthony Stevenson*
- T21-6C** NETWORK DEPENDENT ACTIVATION OF A HYPERPOLARIZING CONDUCTANCE IN MOTONEURONS ENHANCES NEURONAL SYNCHRONY  
*Boris P. Chagnaud, Andrew H. Bass*
- T21-7C** SPINAL COROLLARY DISCHARGE IN MECHANORECEPTOR-RELATED NERVES MEDIATES INFORMATION ABOUT LOCOMOTOR ACTIVITY  
*Roberto Banchi, Boris P. Chagnaud, Hans Straka*
- T21-8C** ENCODING OF INTENDED REACH MOVEMENT DIRECTION IN LOCAL FIELD POTENTIAL PHASE IN MONKEY FRONTO-PARIETAL REACH AREA PRR  
*Pablo Martinez-Vazquez, Alex Gail*
- T21-9C** EXTRINSIC AND INTRINSIC FACTORS INFLUENCING SPONTANEOUS AND REINFORCEMENT-INDUCED PITCH CHANGES IN ZEBRA FINCH SONG  
*Anna Ewa Stepien, Alessandro Canopoli, Alexei Vyssotski, Valance Yanxin Wang, Gagan Narula, Richard Hahnloser*
- T21-10C** CHARACTERIZATION OF OCTOPAMINERGIC UNPAIRED MEDIAN NEURONS IN THE SUBOESOPHAGEAL GANGLION OF MANDUCA SEXTA  
*Jessika Erdmann, Hans-Joachim Pflüger*

### Saturday

- T21-1D** SYNERGY OF MOTOR CONTROL PATHWAYS FOR AERIAL STEERING IN DROSOPHILA  
*Ruben Andres Berthé, Peter Schützner, Fritz-Olaf Lehmann*
- T21-2D** THE DEVELOPMENT OF TYRAMINERGIC/OCTOPAMINERGIC NEURONS OF DROSOPHILA MUSCLES INTEGRATED IN AN ATLAS  
*Konstantin Lehmann, Christina Zube, Stephan Sigris, Carsten Duch, Hans-Joachim Pflüger*
- T21-3D** SPATIO-TEMPORAL ORGANIZATION OF LOCAL FIELD POTENTIAL OSCILLATIONS IN THE MONKEY MOTOR CORTEX  
*Lyuba Zehl, Thomas Broschier, Alexa Riehle, Sonja Grün, Michael Denker*
- T21-4D** PEPTIDERGIC MODULATION OF LARVAL DROSOPHILA LOCOMOTOR ACTIVITY  
*Dennis Pauls, Kristina Jessen, Christian Wegener*



- T21-5D** NO EVIDENCE FOR DISTINCT GAITS IN DROSOPHILA  
*Till Bockemühl, Anne Wosnitza, Michael Dübbert, Henrike Scholz, Ansgar Büschges*
- T21-6D** CORRECTION MOVEMENTS AND SPATIAL COORDINATION IN MULTIPEDAL LOCOMOTION  
*Leslie M. Theunissen, Subhashree Vikram, Volker Dürr*
- T21-7D** THE IMPORTANCE OF CHARGED RESIDUES IN THE INTRACELLULAR TM3-4 LOOP OF THE INHIBITORY GLYCINE RECEPTOR  
*Georg Langlhofer, Bea Unterer, Carmen Villmann*
- T21-8D** IDENTIFICATION OF INDIVIDUAL NEURONS IN EMG AND HOOK ELECTRODE RECORDINGS USING SPIKE SORTING TECHNIQUES  
*Sophie Ann Bradley, Luis A. Camunas Mesa, Ria Cooke, Rodrigo Quian Quiroga, Tom Matheson*
- T21-9D** MONITORING OF REFLEX ACTIVITY AND MOTOR FUNCTION IN SPASTIC RATS, NNOS, PV IMMUNOREACTIVITY AND ASTROCYTE 'S EXPRESSION IN SPINAL CORD AFTER REPEATED BACLOFEN TREATMENT  
*Andrea Kuchariková, Ludmila Hricová, Alexandra Kisucká, Andrea Schreiberová, Štefánia Gedrová, Nadežda Lukáčová*

## T22: Homeostatic and neuroendocrine systems, stress response

### Wednesday

- T22-1A** ROLE OF CB1 RECEPTOR AND ENDOCANNABINOIDS ON CORTICO-STRIATAL CONNECTIVITY OF PSYCHOSOCIALLY STRESSED MICE  
*Jordi Tomas Roig*
- T22-2A** HEXOKINASE II-MEDIATED HYPOXIA TOLERANCE – A MOLECULAR SWITCH GOVERNING CELLULAR FATE DEPENDING ON THE METABOLIC STATE  
*Philipp Mergenthaler, David Andrews, Ulrich Dirnagl, Andreas Meisel*
- T22-3A** EARLY-LIFE STRESS INDUCED MODULATION OF EXCITATORY SYNAPSES IN THE LIMBIC BRAIN  
*Anup Gopalakrishna Pillai, M.J. Arp, M.V. Schmidt, F. Holsboer, H. Krugers, M. Joels*

### Thursday

- T22-1B** THE NEUROPEPTIDE SIFAMIDE ENHANCES APPETITIVE BEHAVIOR IN DROSOPHILA MELANOGASTER  
*Simon Kobbenbring, Thomas Riemensperger, Mirjam-Vanessa Sommer, André Fiala*
- T22-2B** IMPACT OF HEME AND HEME DEGRADATION PRODUCTS (HHDPS) ON CEREBRAL VASCULAR REACTIBILITY  
*Alexander Joerk, Anne Wiegand, Otto W. Witte, Knut Holthoff*

### Friday

- T22-1C** CORTICAL NNOS NEURONS AS AN ANATOMICAL LINK TO HOMEOSTATIC SLEEP REGULATION  
*Lars Dittrich, Alan J. Wilk, Michael Miller, Deepti P. Warrier, Stephen R. Morairty, Thomas S. Kilduff*
- T22-2C** FTO CONTROLS ACTIVITY OF THE DOPAMINERGIC CIRCUITRY  
*Simon Hess, Martin E Hess, Linda Koch, Linda A.W. Verhagen, Hella S. Brönneke, Marcelo O. Dietrich, Sabine D. Jordan, Bengt F. Belgardt, Tamas L. Horvath, Ulrich Rüther, Jens C. Brüning, Peter Kloppenburg*
- T22-3C** A GLUCOSE RESPONSIVE SUBPOPULATION OF THE LOCUS COERULEUS CONTRIBUTES TO BAT SYMPATHETIC TRAFFIC AND ENERGY HOMEOSTASIS  
*Lars Paeger, Sulay Tovar, Simon Hess, Donald A. Morgan, Christine Könner, Hella S. Brönneke, Brigitte Hampel, P. Justus Ackermann, Nadine Evers, Hildegard Büning, F. Thomas Wunderlich, Kamal Rhamouni, Jens C. Brüning, Peter Kloppenburg*

### Saturday

- T22-1D** DOWNREGULATION OF THE COPPER TRANSPORTER DATP7 IN PEPTIDERGIC NEURONS AND ENDOCRINE CELLS RESULTS IN IMPAIRED PEPTIDE AMIDATION  
*Christian Wegener, Azza Sellami, Jan A Veenstra*
- T22-2D** REMOTE LONG-TERM REGISTRATIONS OF SLEEP-WAKE RHYTHMS AND ACTIVITY IN COMMON MARMOSET MONKEYS – HOMEOSTATIC RESPONSE TO SLEEP DEPRIVATION  
*Kerstin Hoffmann, Alex Coolen, Christina Schlumbohm, Eberhard Fuchs*
- T22-3D** ULTRASONIC VOCALIZATIONS EMITTED DURING SOCIAL DEFEAT AND UPON REEXPOSURE TO THE SOCIAL DEFEAT ENVIRONMENT  
*Eberhard Fuchs, Nicole Yee, Rainer K.W. Schwarting, Markus Wöhr*

## T23: Neural networks and rhythm generators

### Wednesday

- T23-1A** OPTOGENETIC DISSECTION OF ADAPTIVE INHIBITORY CIRCUIT MOTIFS IN ADULT NEOCORTEX  
*Dennis Kätzel, Gero Miesenböck*
- T23-2A** OSCILLATORY ENTRAINMENT OF NEONATAL PREFRONTAL-HIPPOCAMPAL NETWORKS AFTER SELECTIVE LESION OF GABAERGIC NEURONS IN THE HIPPOCAMPUS  
*Sebastian H. Bitzenhofer, Ileana L. Hanganu-Opatz*

- T23-3A** MATURATION OF OSCILLATORY ENTRAINMENT WITHIN PREFRONTAL-HIPPOCAMPAL NETWORKS IN A GENETIC MOUSE MODEL OF SCHIZOPHRENIA  
*Stephanie Riemann, Henrike Hartung, Ileana L. Hanganu-Opatz*
- T23-4A** THE DECISION TO RESPOND: THE ROLE OF ELECTRICALLY COUPLED BRAINSTEM NEURONS IN THE DECISION TO SWIM  
*Edgar Buhl, Michael Hull, Alan Roberts, Stephen R. Soffe*
- T23-5A** SCRATCH GENERATION BEYOND THE LUMBAR ENLARGEMENT  
*Robertas Guzulaiitis, Aidas Alaburda, Jorn Hounsgaard*
- T23-6A** ANATOMICAL AND IN VIVO OPTICAL IMAGING ANALYSIS OF METATHORACIC DUM NEURONS IN THE LOCUST SCHISTOCERCA GREGARIA  
*Marco Schubert, Florian Bilz, Victoria Antemann, Hans-Joachim Pflüger*
- T23-7A** THE ROLE OF ELECTRICAL SYNAPSES IN A RAT MODEL OF ABSENCE EPILEPSY: CA2+ MODULATES THE INTERACTION BETWEEN NEURONS OF THE THALAMIC RETICULAR NUCLEUS  
*Denise Kohmann, Kay Jüngling, Hans-Christian Pape, Philippe Coulon*
- T23-8A** CELLULAR MECHANISMS OF DYNAMICAL SWITCHING BETWEEN DIFFERENT NETWORK STATES IN THE HIPPOCAMPAL AREA CA3  
*Shota Zarnadze, Peter Bäuerle, Tengis Gloveli, Tamar Dugladze*
- T23-9A** A NEURONAL BRAKE IN THE THALAMIC SOMATOSENSORY PERCEPTION: THE ROLE OF KCNQ CHANNELS  
*Manuela Cerina, Hanna Szkudlarek, Tatyana Kanyshkova, Philippe Coulon, Sven G. Meuth, Hans-Christian Pape, Thomas Budde*
- T23-10A** INSTABILITY AND PARTIAL SYNCHRONY IN A BALANCED NETWORK OF RESONATOR NEURONS  
*Maximilian Puelma Touzel, Michael Monteforte, Fred Wolf*

### Thursday

- T23-1B** SPECIFIC SIGNALLING OF PROPAGATING HIPPOCAMPAL SHARP WAVES TO MEDIAL ENTORHINAL CORTEX LAYER V NEURONS IN VITRO  
*Fabian C. Roth, Katinka Marie Beyer, Martin Both, Andreas Draguhn, Alexei V. Egorov*
- T23-2B** RECONSTRUCTION OF SYNAPTIC INPUTS TO PRE-BÖTZINGER COMPLEX NEURONS IN SITU  
*Anke Borgmann, Yaroslav I. Molkov, Hidehiko Koizumi, Ruli Zhang, Ilya A. Rybak, Jeffrey C. Smith*
- T23-3B** MORPHOLOGICAL AND ELECTROPHYSIOLOGICAL CHARACTERIZATION OF VIP EXPRESSING INTERNEURONS IN MOUSE BARREL CORTEX  
*Alvar Pränneke, Martin Möck, Jochen Staiger*

- T23-4B** COROLLARY DISCHARGE MODULATION OF WIND-SENSITIVE INTERNEURONS IN THE SINGING CRICKET  
*Stefan Schöneich, Berthold Hedwig*
- T23-5B** PHASE-SYNCHRONY FACILITATES BINDING AND SEGMENTATION OF NATURAL IMAGES IN A NEURAL NETWORK MODEL  
*Holger Finger, Peter König*
- T23-6B** CIRCADIAN EXPRESSION OF THE CLOCK GENES PERIOD, TIMELESS 1 AND CRYPTOCHROME 2 IN THE COCKROACH RHYPAROBIA MADERAE IN DIFFERENT TISSUES AND PHOTOPERIODS  
*Achim Werckenthin, Christian Derst, Monika Stengl*
- T23-7B** TOWARDS A CAUSAL ROLE OF OSCILLATIONS IN VISUAL PERCEPTION  
*Yuranny Cabral, Melanie Wilke*
- T23-8B** FUNCTION OF THE POSITIVE FEEDBACK CIRCUITRY WITHIN LAYER 4 OF THE BARREL CORTEX  
*Omer Revah, Tatjana Tchumachenko, Fred Wolf, Michael Gutnick*
- T23-9B** MODULATION OF HIPPOCAMPAL ASSEMBLIES BY REPETITIVE ACTIVATION OF GRANULE CELLS IN VITRO  
*Martin Keller, Andreas Draguhn, Susanne Reichinnek, Martin Both*

### Friday

- T23-1C** CONNECTIVITY ANALYSIS IN THE THORACIC GANGLIA BETWEEN LOCAL INTERNEURONS AND DUM NEURONS  
*Leonard Nadler, Hans-Joachim Pflüger*
- T23-2C** FUNCTIONAL CONNECTIVITY OF LAYER II/III GABAERGIC MARTINOTTI CELLS IN THE PRIMARY SOMATOSENSORY (BARREL) CORTEX OF MICE  
*Florian Walker, Mirko Witte, Martin Möck, Jochen Staiger*
- T23-3C** FAST NETWORK OSCILLATIONS IN THE LATERAL SEPTUM IN VIVO  
*Tatiana Korotkova, Natalia P. Denisova, Alexey Ponomarenko*
- T23-4C** THE NEURONAL CIRCUIT UNDERLYING TIMING OF ECLOSION BEHAVIOR IN DROSOPHILA  
*Mareike Selcho, Kouji Yasuyama, Ronja Hensgen, Christian Wegener*
- T23-5C** PHOTOPERIOD AFFECTS PHYSIOLOGICAL RESPONSES OF CIRCADIAN PACEMAKER NEURONS IN THE MADEIRA COCKROACH RHYPAROBIA MADERAE  
*Hongying Wei, El-Sayed Baz, Monika Stengl*
- T23-6C** IMPACT OF CHRONIC NICOTINE TREATMENT ON HIPPOCAMPAL OSCILLATORY ACTIVITY IN A G72 TRANSGENIC MOUSE MODEL FOR SCHIZOPHRENIA  
*Andreas Lundt, Boris Hamsch, David-Marian Otte, Karl Broich, Anna Papazoglou, Andreas Zimmer, Marco Weiergräber*

- T23-7C** THE CAV 2.3 R-TYPE CHANNEL IS A MODULATOR OF RODENT SLEEP ARCHITECTURE  
*Magdalena Elisabeth Siwek, Anna Papazoglou, Marco Weiergräber, Karl Broich*
- T23-8C** TASK-DEPENDENT ACTIVATION OF THALAMO-CORTICAL NETWORKS WITH TACS  
*Christiane Weinrich, Carsten Schmidt-Samoa, Peter Dechent, Melanie Wilke, Mathias Baehr*
- T23-9C** OPTIMIZED TEMPORALLY DECONVOLVED CA2+ IMAGING REVEALS SCALE-FREE TOPOLOGY OF CA1 HIPPOCAMPAL ASSEMBLIES  
*Thomas Pfeiffer, Susanne Reichinnek, Andreas Draguhn, Martin Both*

### Saturday

- T23-1D** IDENTIFICATION OF CLOSER-INTERNEURONS OF THE SONG PATTERN GENERATOR IN THE CRICKET (*GRYLLUS BIMACULATUS DEGEER*)  
*Joaquim Pedro Jacob, Berthold Hedwig*
- T23-2D** ON THE IMPACT OF OSCILLATORY SYNCHRONY ON DIRECTED FUNCTIONAL CONNECTIVITY METRICS: A NETWORK-MODEL-BASED STUDY  
*Agostina Palmigiano, Demian Battaglia, Annette Witt, Theo Geisel*
- T23-3D** APPLYING INTERNAL MODELS TO GAIT-AWARE NEUROCONTROL IN A KNEE-ANKLE-FOOT-ORTHOSIS  
*Jan-Matthias Braun, Poramate Manoonpong, Timo von Marcard, Markus Tüttemann, Florentin Wörgötter, Bernhard Graimann*
- T23-4D** RESTORATION OF IMPAIRED FUNCTIONAL COUPLING IN THE AMYGDALO-HIPPOCAMPAL-CORTICAL CIRCUITRY IN NCAM DEFICIENT MICE BY PARTIAL NMDA RECEPTOR AGONIST D-CYCLOSERINE  
*Oleg Senkov, Gerhard Engler, Melitta Schachner, Alexander Dityatev, Andreas K. Engel*
- T23-5D** INVESTIGATION INTO O-LM CELL RECRUITMENT DURING HIPPOCAMPAL RIPPLES IN VITRO  
*Maria Pangalos, José R. Donoso, Jochen Winterer, Aleksandar R. Zivkovic, Richard Kempter, Nikolaus Maier, Dietmar Schmitz*
- T23-6D** DECODING SPATIAL INFORMATION FROM MYOELECTRIC SIGNALS FOR CONTROL OF TRANS-RADIAL PROSTHESES  
*J. Michael Herrmann, David Hofmann, Dario Farina*
- T23-7D** INTEGRATION AND SEGREGATION OF CHOICE RELEVANT INFORMATION ACROSS STATE TRANSITIONS IN MACAQUE PREFRONTAL CORTEX  
*Stephanie Westendorff, Daniel Kaping, Martin Vinck, Stefan Everling, Thilo Womelsdorf*
- T23-8D** STRAIN DIFFERENCES IN ITBS RTMS EFFECTS ON THE CORTICAL EXPRESSION OF THE CALCIUM-BINDING PROTEIN CALBINDIN IN RATS  
*Annika Mix, Alia Benali, Klaus Funke*

- T23-9D** DYNAMICS OF CORTICAL CIRCUITS WITH DIFFERENT NETWORK TOPOLOGIES  
*Rainer Engelken, Fred Wolf, Michael Monteforte*
- T23-10D** NEURONAL SYNCHRONIZATION AND AMINERGIC MODULATION OF NETWORK OSCILLATIONS – IMPLICATIONS FOR SCHIZOPHRENIA  
*André Fisahn, Richard Andersson, April Johnston*

### T24: Attention, motivation, emotion and cognition

### Wednesday

- T24-1A** AN INTERNAL REPRESENTATION OF ZERO YAW TORQUE IN *DROSOPHILA MELANOGASTER*  
*Franziska Toepfer, Martin Heisenberg, Reinhard Wolf*
- T24-2A** RISK-SEEKING BEHAVIOR IN MONKEYS IS MODULATED BY EFFORT IN A SPATIAL DECISION TASK  
*Adán Ulises Domínguez Vargas, Annika Grass, Stefan Treue, Melanie Wilke, Igor Kagan*
- T24-3A** ENGAGEMENT AND DISENGAGEMENT OF RECURRENT MICROCIRCUITS IN FUNCTIONAL AND DYSFUNCTIONAL STATES OF THE HUMAN AMYGDALA  
*Johanna Derix, Ioannis Vlachos, Martin Herpers, Isabella Mutschler, Moritz Helias, Andreas Schulze-Bonhage, Ad Aertsen, Martin Peper, Arvind Kumar, Tonio Ball*
- T24-4A** SELECTIVE VISUAL ATTENTION IN *DROSOPHILA*: HOW LONG IS THE ATTENTION-SPAN?  
*Sebastian Koenig, Preeti Sareen, Reinhard Wolf, Martin Heisenberg*
- T24-5A** FEATURE-BASED ATTENTIONAL MODULATION IN THE PRIMARY VISUAL CORTEX OF RHESUS MONKEYS  
*Rui-Feng Liu, Valeska Stephen, Stefan Treue*
- T24-6A** THE INFLUENCE OF BODY POSTURE ON SPATIAL PERCEPTION: EFFECTS OF EGOCENTRIC MIDLINE SHIFT  
*Kerstin Paschke, Igor Kagan, Mathias Bähr, Melanie Wilke*
- T24-7A** CONNECTING BRAIN AND MIND WITH FORMAL CONCEPT ANALYSIS: A DATA-DRIVEN INVESTIGATION OF THE SEMANTIC, EXPLICIT CODING HYPOTHESIS  
*Dominik M. Endres, Ruth Adam, Uta Noppeney, Martin A. Giese*
- T24-8A** THE ENDOCANNABINOID SYSTEM AND ITS INFLUENCE ON COGNITION IN THE ZEBRAFISH (*DANIO RERIO*)  
*Nicole Prinz, Tim Ruhl, Gerhard von der Emde*
- T24-9A** USING HALOPERIDOL AND LEVODOPA TO MIMIC EFFECTS OF INCREASED ACTION OF DOPAMINE AT D1 RECEPTORS IN HUMANS  
*Carola Wormuth, Peter van Ruitenbeek, Mitul A. Mehta*

**T24-10A** EFFECTS OF SPATIAL ATTENTION ON MULTI-UNIT ACTIVITY IN THE PRIMARY VISUAL CORTEX OF THE RHESUS MONKEY  
*Valeska Marija Stephan, Rui-Feng Liu, Stefan Treue*

**T24-11A** STIMULUS-UNSPECIFIC SPATIAL AND STIMULUS-SPECIFIC FEATURE-BASED ATTENTIONAL MODULATIONS IN AREA MSTd OF MACAQUE VISUAL CORTEX  
*Sonia Baloni, Daniel Kaping, Stefan Treue*

**T24-12A** EFFECTS OF VISUAL ATTENTION ON NEURAL PROCESSING IN RHESUS' V1 BY SIMULTANEOUS ELECTROPHYSIOLOGY AND BOLD-FMRI  
*Frederico Augusto Casarsa de Azevedo, Leonardo Casarsa Azevedo, Nikos Logothetis, Georgios Keliris*

### Thursday

**T24-1B** AN ATTENTIONAL BLINK WITH MOTION STIMULI  
*Janina Hueer, Sonia Baloni, Nils Müller, Stefan Treue*

**T24-2B** NUMEROSITY DISCRIMINATION IN THE CARRION CROW (CORVUS CORONE)  
*Almut Hoffmann, Andreas Nieder*

**T24-3B** MAPPING THE REGULATION OF BEHAVIORAL MOTIVATION IN THE BRAIN OF DROSOPHILA MELANOGASTER  
*Ariane-Saskia Ries, Roland Strauss*

**T24-4B** THE LONG AND THE SHORT OF IT: CARRION CROWS LEARN TO FLEXIBLY CHOOSE STIMULI BASED ON RELATIVE SIZE  
*Felix Moll, Andreas Nieder*

**T24-5B** NEURAL CORRELATES UNDERLYING THE USE OF PRIOR INFORMATION IN PERCEPTUAL CLOSURE  
*Alla Brodski, Georg-Friedrich Paasch, Saskia Helbling, Michael Wibral*

**T24-6B** TWO FUNCTIONAL SYSTEMS FOR SIZE PERCEPTION REVEALED THROUGH DIFFERENT BEHAVIOURAL TASKS  
*Torsten Stemmler, Jan Skorupa*

**T24-7B** EFFECTS OF GRADED SPATIAL ATTENTION ON HUMAN DIRECTION DISCRIMINATION THRESHOLDS AND THEIR DEPENDENCE ON NOISE  
*Vera Katharina Marks, Stefan Treue*

**T24-8B** DEPTH OF PROCESSING IN HUMAN PLACE RECOGNITION  
*Stephan Lancier, Sabrina Hansmann-Roth, Marc Halfmann, Hanspeter Mallot*

**T24-9B** THE INFLUENCE OF EXOGENOUS SEX HORMONES ON HUMAN ATTENTION AND COGNITION: AN ERP-STUDY  
*Nora Lessing, Kristian Folta-Schoofs*

**T24-10B** A MODALITY DEPENDENT EFFECT IN THE CORSI TAPPING TASK  
*Andrea Röser, Gregor Hardiess, Hanspeter A. Mallot*

### Friday

**T24-1C** EGO-MOTION FROM OPTIC FLOW: EVIDENCE FOR A MATCHED FILTER MECHANISM  
*Hanspeter A. Mallot, Till Becker, Fabian Recktenwald, Gregor Hardiess*

**T24-2C** IMAGERY OF A FAMILIAR PLACE VARIES WITH INTERVIEW LOCATION  
*Wolfgang G. Röhrich, Niklas Binder, Hanspeter A. Mallot*

**T24-3C** SOCIAL DEFEAT IN CRICKETS: INFLUENCES OF DOPAMINERGIC MODULATION ON THE SUPPRESSION OF AGGRESSION AND ITS RECOVERY  
*Paul Anthony Stevenson, Jan Rillich*

**T24-4C** WINNERS AND LOSERS - PRODUCTS OF NATURE OR NURTURE? EVIDENCE FOR POTENTIALLY INHERENT DIFFERENCES IN AGGRESSION BETWEEN CRICKETS  
*Jacqueline Rose, Darron Cullen, Jan Rillich, Stephen Simpson, Paul Stevenson*

**T24-5C** RELIEF CONDITIONING IN RATS: ROLE OF THE AMYGDALA AND THE NUCLEUS ACCUMBENS  
*Markus Fendt*

**T24-6C** PERCEPTUAL CHANGES AND EMOTIONAL IMPACT OF SENSORY AUGMENTATION  
*Sabine Ursula König, Jessika Schwandt, Kai Kaspar, Peter König*

**T24-7C** STIMULUS SALIENCE ENHANCEMENT AT THE EXPENSE OF ACCURATE REPRESENTATION: MT RESPONSES TO TRANSIENT DIRECTION CHANGES AND THEIR ATTENTIONAL ENHANCEMENT  
*Vahid Mehrpour, Julio C. Martinez-Trujillo, Stefan Treue*

**T24-8C** PROBING NUMEROSITY-SELECTIVITY IN NEURONS OF THE ASSOCIATION CORTEX OF NUMERICALLY-NAÏVE MONKEYS  
*Pooja Viswanathan, Andreas Nieder*

**T24-9C** CONTEXT-DEPENDENT CODING FLEXIBILITY OF NUMEROSITY-SELECTIVE NEURONS IN THE PRIMATE PREFRONTAL CORTEX  
*Maria Moskaleva, Andreas Nieder*

**T24-10C** PREFRONTAL NEURONS ENCODE VOLITIONAL INITIATION OF MONKEY VOCALIZATIONS  
*Steffen R. Hage, Andreas Nieder*

### Saturday

**T24-1D** THE ROLE OF DOPAMINE IN RISK-BASED DECISION MAKING IN RATS  
*Bettina Mai, Wolfgang Hauber*

**T24-2D** ACUTE STRESSOR EFFECTS ON GOAL-DIRECTED ACTION IN RATS  
*Wolfgang Hauber, Stephanie Braun*

**T24-3D** PREFRONTAL CORTEX NEURONS REPRESENT ABSTRACT RULES APPLIED TO MULTIPLE AGNITUDES  
*Anne-Kathrin Eiselt, Andreas Nieder*

- T24-4D** EFFECT OF INTENSE PHYSICAL ACTIVITY ON INDIVIDUAL ALPHA FREQUENCY (IAF) AND FATIGUE INDEX (FI)  
*Irina S. Polikanova, Aleksander G. Tonevitsky*
- T24-5D** IONTOPHORETIC STIMULATION OF DOPAMINE D1 RECEPTOR ENHANCES NUMERICAL RULE CODING IN THE PRIMATE PREFRONTAL CORTEX  
*Torben Ott, Simon N Jacob, Andreas Nieder*
- T24-6D** NEURAL CORRELATES OF ABSTRACT TASK-SWITCHING IN CARRION CROWS  
*Lena Veit, Andreas Nieder*
- T24-7D** SALIVA ESTRADIOL LEVEL PREDICTS INDIVIDUAL ALPHA FREQUENCY IN WOMEN  
*Christina Brötzner, Wolfgang Klimesch, Michael Doppelmayr, Hubert H. Kerschbaum*
- T24-8D** LAUGHING RATS ARE OPTIMISTIC  
*Rafal Rygula, Helena Pluta, Piotr Popik*
- T24-9D** RHESUS MONKEYS CAN SWITCH VOLITIONALLY BETWEEN DISTINCT CALL TYPES  
*Natalja Gavrilov, Steffen R. Hage, Andreas Nieder*
- T24-10D** ACQUISITION VS. MEMORIZATION TRADE-OFFS IN COMPARATIVE VISUAL SEARCH  
*Gregor Hardiess, Noemi D Martin, Aylin Sarikaya, Hanspeter A. Mallot*
- T24-11D** VISUAL SEARCH IN BARN OWLS  
*Julius Orłowski, Petra Nikolay, Ohad Ben-Shahar, Hermann Wagner*

## T25: Learning and memory

### Wednesday

- T25-1A** PUNISHMENT- VERSUS PAIN RELIEF-LEARNING IN DROSOPHILA  
*Sören Diegelmann, Thomas Niewalda, Mirjam Appel, Jennifer Bergmann, Stephan Preuschhof, Birgit Michels, Ayse Yarali, Bertram Gerber*
- T25-2A** LEARNING TO NAVIGATE: EXPLORATORY ORIENTATION FLIGHTS OF YOUNG HONEYBEES  
*Jacqueline Degen, Andreas Kirbach, Konstantin Lehmann, Randolph Menzel*
- T25-3A** HOUSING CONDITIONS MODULATE THE COGNITIVE PERFORMANCE IN TRANSGENIC MICE OVEREXPRESSING THE SCHIZOPHRENIA SUSCEPTIBILITY GENE TCF4  
*Magdalena M. Brzózka, Dorota Badowska, Peter Falkai, Moritz J. Rossner*

- T25-4A** FASTER SPREADING ACTIVATION FOR HIGH FEATURE CONCEPT WORDS  
*Andrea Zauner, Wolfgang Klimesch, Nicole Alexandra Himmelstoß*
- T25-5A** EFFECTS OF THE NEUROACTIVE INSECTICIDE THIAACLOPRID ON THE FLIGHT BEHAVIOR OF HONEY-BEES  
*Lena Faust, Johannes Hahn, Bernd Grünewald*
- T25-6A** PHASE CHANGE IN DESERT LOCUSTS IS ASSOCIATED WITH SHORT- AND LONG-TERM DIFFERENCES IN THE DISTRIBUTION OF SEROTONIN IN THE CNS  
*Swidbert Roger Ott, Stephen Mark Rogers*
- T25-7A** ASSOCIATING NEURONAL ACTIVITY WITH VOCAL COMMUNICATION IN FREE MOVING MEMBERS OF A SOCIAL GROUP OF ZEBRA FINCHES  
*Andries Ter Maat, Lisa Trost, Rene F Jansen, Manfred Gahr*
- T25-8A** ENHANCED PERFORMANCE IN A COMPLEX AUDITORY RELEARNING TASK BY CONTROLLED ENZYMIC MODULATION OF THE EXTRACELLULAR MATRIX IN AUDITORY CORTEX  
*Hartmut Niekisch, Matthias Deliano, Laura L. Castiblanco, Renato Frischknecht, Max Happel*
- T25-9A** EFFECTS OF NEONICOTINOID INSECTICIDES ON MOTOR AND NEURONAL ACTIVITY IN THE HONEYBEE  
*Martina Triltsch, Johannes Fischer, Konstantin Kabat vel Job, Bernd Grünewald*
- T25-10A** QUANTIFICATION OF PHOSPHORYLATED CREB IN INNER COMPACT KENYON CELLS IN THE HONEY BEE BRAIN  
*Katrin B. Gehring, Karin Heufelder, Dorothea Eisenhardt*
- T25-11A** CIRCUIT MECHANISMS OF ASSOCIATIVE FEAR LEARNING IN AUDITORY CORTEX  
*Johannes Jakob Letzkus, Steffen Wolff, Elisabeth Meyer, Philip Tovote, Julien Courtin, Cyril Herry, Julia Luedke, Andreas Luthi*
- T25-12A** OCTOPAMINE AND TYRAMINE REGULATE THE SUCROSE SENSITIVITY IN THE HONEYBEE (APIS MELLIFERA) DEPENDING ON THE ANIMALS FEEDING STATE  
*Christina Buckemüller, Richard Zeumer, Oliver Siehler, Isabel Groß, Dorothea Eisenhardt*
- T25-13A** IN SEARCH OF NEURAL CORRELATES OF DECISIONS IN HONEY BEES  
*Hanna Zwaka, Randolph Menzel*
- T25-14A** HOW OUTCOME EXPECTATIONS ORGANIZE LEARNED BEHAVIOUR IN LARVAL DROSOPHILA  
*Michael Schleyer, Wiebke Nahrendorf, Benjamin Fischer, Bertram Gerber*
- T25-15A** 'COGNITIVE ENHANCEMENT' IN DROSOPHILA LARVAE?  
*Birgit Michels, Maria Pakendorf, Kathrin Franke, Ludger Wessjohann, Oleh Lushchak, Dushyant Mishra, Bertram Gerber*

## Thursday

- T25-1B** THE REWARD MAGNITUDE IN CONDITIONING OF THE HONEY BEE'S PROBOSCIS EXTENSION RESPONSE AFFECTS MEMORY FORMATION  
*Kathrin Marter, Lars Bothe, Laura Morgenstern, Carmen Lewa, Dorothea Eisenhardt*
- T25-2B** A NETWORK FOR THE REPRESENTATION OF OBJECT POSITIONS IN THE CENTRAL COMPLEX OF DROSOPHILA  
*Hannah Marie Wagner, Burkhard Poeck, Roland Strauss*
- T25-3B** RAT NAVIGATION WITH VISUAL AND ACOUSTIC CUES IN VIRTUAL REALITY ON A SERVO BALL  
*Ursula Kaupert, York Winter*
- T25-4B** ACOUSTICALLY GUIDED WAY-FINDING IN HUMANS: THE ROLE OF GENDER AND SIGHTEDNESS  
*Daniel Schmidtke, Sarah Galinski, Karl-Heinz Esser*
- T25-5B** SYNAPTIC DYNAMICS IN THE AUDITORY CORTEX DURING LEARNING AND MEMORY RECALL  
*Kaja Moczulska, Manuel Peter, Juliane Tinter, Simon Rumpel*
- T25-6B** SPATIAL ORIENTATION OF APIS MELLIFERA IN A LED-ENVIRONMENT  
*Sören Miehe, Randolph Menzel*
- T25-7B** THE POTENTIAL FUNCTION OF CAMKII IN LONG-TERM MEMORY IN THE HONEYBEE  
*Christina Scholl, Wolfgang Rössler*
- T25-8B** MELATONIN DEPENDENT CHANGES IN BIRDSONG - MEASURING CHANGES IN BRAIN ACTIVITY OF FREELY BEHAVING ZEBRA FINCHES  
*Susanne Seltmann, Lisa Trost, Andries TerMaat, Sebastien Deregnacourt, Manfred Gahr*
- T25-9B** CALLING BEHAVIOUR OF ZEBRA FINCHES (TAENIOPYGIA GUTTATA) FORCED PAIRS AND ACTIVATION PATTERN OF A PALLIAL SONG NUCLEUS DURING UNLEARNED VOCALIZATIONS  
*Pietro Bruno D'Amelio, Lisa Trost, Andries ter Maat*
- T25-10B** A LABORATORY TEST OF SPATIAL RECOGNITION IN SOLITARY AND SOCIAL BEES  
*Nanxiang Jin, Randolph Menzel*
- T25-11B** SUBCELLULAR DISTRIBUTION OF EPENDYMINS AND THEIR BINDING PARTNERS  
*Roman Göthe, Rupert Schmidt*
- T25-12B** IMPACT OF CHRONIC AND ACUTE BDNF DEFICIENCY ON FEAR LEARNING AND FEAR EXTINCTION  
*Thomas Endres, Volkmar Lessmann*
- T25-13B** MODELLING THE INTERACTION OF SYNAPTIC AND STRUCTURAL PLASTICITY  
*Michael Fauth, Christian Tetzlaff, Florentin Wörgötter*

- T25-14B** THE ROLE OF MICRORNAS IN LEARNING AND MEMORY IN THE HONEYBEE BRAIN  
*Julia Rennertz, Uli Müller*
- T25-15B** BIDIRECTIONAL ACETYLATION-MEDIATED MODULATION OF MEMORY IN THE HONEYBEE: SEARCH FOR THE TARGETED GENES  
*Katja Merschbaeche, Uli Mueller*
- T25-16B** ENHANCEMENT OF OLFACTORY ACUITY VIA DIFFERENTIAL CONDITIONING OF SIMILAR ODORS  
*Jonas Barth, Shubham Dipt, Moritz Hermann, Thomas Riemensperger, André Fiala*

## Friday

- T25-1C** DEVELOPMENTAL CHANGES IN LATERAL AMYGDALA INHIBITORY CIRCUITS  
*Daniel Bosch, Ingrid Ehrlich*
- T25-2C** EFFECTS OF NEONICOTINOID INSECTICIDES ON HONEYBEE HOMING FLIGHT BEHAVIOR USING HARMONIC RADAR TRACKING  
*Johannes Fischer, Teresa Müller, Anne-Kathrin Spatz, Bernd Grünewald, Randolph Menzel*
- T25-3C** THE SEQUENCE OF STIMULUS PRESENTATIONS DURING CONDITIONING IS CRITICAL FOR MEMORY FORMATION AND AFFECTS THE AMOUNT OF CREB  
*Johannes Felsenberg, Jenny Aino Plath, Dorothea Eisenhardt*
- T25-4C** 5-HTT GENOTYPE INFLUENCES SPATIAL LEARNING AND THE EXPRESSION OF DIFFERENT MARKERS OF NEUROPLASTICITY  
*Margherita Maria Lee, Sina Kollert, Magdalena Weidner, Sandra Grauthoff, Rebecca S. Heimig, K.P. Lesch, Norbert Sachser, Lars Lewejohann, Angelika G. Schmitt, Sina Kollert*
- T25-5C** SYNAPTIC PROTEOME CHANGES IN MOUSE BRAIN REGIONS UPON AUDITORY DISCRIMINATION LEARNING  
*Angela Kolodziej, Thilo Kähne, Karl-Heinz Smalla, Elke Eisenschmidt, Utz Uwe Haus, Robert Weismantel, Siegfried Kropf, Wolfram Wetzler, Frank W. Ohl, Wolfgang Tischmeyer, Michael Naumann, Eckart D. Gundelfinger*
- T25-6C** MAPPING OF REGIONAL BRAIN ACTIVITY DURING TWO-WAY ACTIVE AVOIDANCE (TWA) BEHAVIOR USING IN VIVO SPECT-IMAGING IN RATS  
*Anja Mannewitz, Jürgen Goldschmidt, Katharina Braun*
- T25-7C** DETECTION OF OBJECT-SPACE NOVELTY IN THE CAT OF FREELY BEHAVING MICE INDUCES LTD WHICH IS DEPENDENT ON NMDA AND MGLU5 RECEPTOR ACTIVATION  
*Jeremy Goh, Denise Manahan-Vaughan*
- T25-8C** APIS – A NOVEL SYSTEM FOR AUTOMATIC CONDITIONING OF HONEY BEES  
*Nicholas Hagen Kirkerud, David Gustav, Henja-Niniane Wehmann, C. Giovanni Galizia*

- T25-9C** AGE-DEPENDENT IMPACT OF AVOIDANCE PRE-TRAINING ON ADULT LEARNING: FUNCTIONAL IMAGING IN FREELY BEHAVING MICE  
*Almuth Spröwitz, Anett Riedel, Jörg Bock, Katharina Braun*
- T25-10C** A WALKING SIMULATOR FOR STUDYING AVERSIVE CLASSICAL AND OPERANT CONDITIONING IN HONEYBEES  
*Florian BASTIN, Andreas S. Brandstaetter, Jean-Christophe Sandoz*
- T25-11C** IONIC CURRENT MODULATIONS OF HONEYBEE ANTENNAL LOBE AND MUSHROOM BODY NEURONS  
*Sophie Himmelreich, Bernd Grünewald*
- T25-12C** PHYSIOLOGICAL MECHANISMS OF SENSORY AUGMENTATION ASSESSED BY FMRI  
*Johannes Keyser, Susan Wache, Maria Schmitz, Sebastian Fleck, Sabine U. König, Robert Muil, Saskia K. Nagel, Frank Schumann, Thomas Wolbers, Christian Büchel, Peter König*
- T25-13C** EFFECTS OF GLUTAMATE IN INTRA- AND EXTRACELLULAR RECORDINGS FROM MUSHROOM BODY EXTRINSIC NEURONS IN THE HONEY BEE  
*Ruth Bartels, Stefan Voigt, Randolph Menzel*
- T25-14C** HETEROGENOUS POPULATIONS OF AMYGDALA MEDIAL PARACAPSULAR INTERCALATED CELLS RECEIVE PRESYNAPTICALLY - MODULATED SENSORY INPUTS  
*Douglas Asede, Daniel Bosch, Francesco Ferraguti, Ingrid Ehrlich*
- T25-15C** PATTERN SEPARATION IN THE HUMAN HIPPOCAMPUS  
*David Berron, Hartmut Schütze, Emrah Düzel*
- T25-16C** TESTING DROSOPHILA LEARNING AND MEMORY MUTANTS WITH AND WITHOUT METHYLPHENIDATE TREATMENT IN BURIDAN'S PARADIGM  
*Yasmine Jennifer Graf, Bjoern Brembs*
- Saturday**
- T25-1D** CHARACTERIZATION OF MPFC INPUTS TO PRINCIPAL NEURONS AND INTERNEURONS IN THE BASOLATERAL AMYGDALA  
*Cora Hübner, Daniel Bosch, Andreas Lüthi, Ingrid Ehrlich*
- T25-2D** THE CHARACTERIZATION OF THE DIFFERENT SAP47 ISOFORMS  
*Jörg Kleber, Timo Saumweber, Sören Diegelmann, Bertram Gerber*
- T25-3D** TOWARDS THE BIOCHEMICAL COMPONENTS OF THE VISUAL ORIENTATION MEMORY IN DROSOPHILA  
*Sara Kuntz, Burkhard Poeck, Roland Strauss*
- T25-4D** HIGH-VOLTAGE ACTIVATED CA2+ CHANNELS IN SEPTOHIPPOCAMPAL THETAGENESIS  
*Anna Papazoglou, Magdalena, Elisabeth Siwek, Christina Hensele, Ralf Müller, Karl Broich, Marco Weiergräber*
- T25-5D** THERMO-GENIC INDUCTION OF A MEMORY TRACE IN SUBSETS OF DROSOPHILA MUSHROOM BODY KENYON CELLS  
*Thomas Dieter Riemensperger, David Vasmer, Atefeh Pooryasin, Silke Dempewolf, Hendrik Urbanke, André Fiala*
- T25-6D** SINGLE-NEURON PHOTOACTIVATION VIA RECOMBINASE-MEDIATED CELL-SPECIFIC EXPRESSION OF CHANNELRHODOPSIN-2, TO ANALYZE HABITUATION IN SENSORY NEURONAL CIRCUITS  
*Cornelia Schmitt, Jana Liewald, Sebastian Wabnig, Alexander Gottschalk*
- T25-7D** POPULATION CLOCK MODELS AND DELAYED TEMPORAL MEMORY: AN INFORMATION THEORETIC APPROACH  
*Sakyasingha Dasgupta, Florentin Wörgötter, Poramate Manoonpong*
- T25-8D** LEARNED HELPLESSNESS IN DROSOPHILA  
*Zhenghong Yang, Reinhard Wolf, Martin Heisenberg*
- T25-9D** OPERANT CONDITIONING OF DROSOPHILA IN THE SHOCKBOX  
*Sophie Johanna Batsching, Reinhard Wolf, Martin Heisenberg*
- T25-10D** POLICY LEARNING IN SELF-ORGANISING SPIKING NETWORKS THROUGH NEUROMODULATION OF SYNAPTIC TRANSMISSION  
*Simon M. Vogt, Ulrich G. Hofmann*
- T25-11D** CHARACTERIZATION OF SINGING AND LISTENING ASSOCIATED FIRING PATTERNS OF SIX DIFFERENT NEURON TYPES IN BASAL GANGLIA SONG NUCLEUS AREA X DURING SONG DEVELOPMENT  
*Lisa Kolb, Constance Scharff, Richard Hahnloser*
- T25-12D** DECIPHERING THE ARCHITECTURE OF THE INSECT MUSHROOM BODY TO UNDERSTAND ITS ROLE IN OLFACTORY LEARNING AND MEMORY  
*Gérard Leboulle*
- T25-13D** TRANSIENT ACTION OF RNA-POLYMERASE II INHIBITOR ON LEARNING IN HONEYBEES  
*Aline Loehfelm, Katja Merschbaecher, Uli Mueller*
- T25-14D** PATHWAY SPECIFIC NEURONAL DYNAMICS IN THE ENTORHINAL-HIPPOCAMPAL CIRCUIT  
*Gerrit Schwesig, Anton Sirota*
- T25-15D** GLUCOSE, AMP-DEPENDENT PROTEIN KINASE AND LEARNING IN HONEYBEES  
*Marie-Anne Croyé, Kathy Rether, Uli Mueller*
- T25-16D** SEARCH FOR THE UP-STREAM REGULATORS OF HISTONE DEACETYLASES IN HONEYBEES  
*Jennifer Folz, Uli Mueller*
- T25-17D** CHARACTERIZATION OF A FUNCTIONAL RHOSAP/RICH2 - PROSAP2/SHANK3 INTERACTION USING A NOVEL RICH2 TRANSGENIC MOUSE MODEL  
*JENNIFER FOLZ, ULI MUELLER*  
*Claus Matti Eckert, Jürgen Bockmann, Tobias M. Boeckers, Andreas M. Grabrucker*

## T26: Computational neuroscience

## Wednesday

- T26-1A** INTERPLAY OF INTRINSIC NOISE AND RECEPTIVE FIELD SIZES IN ELECTROSENSORY ENCODING IN WEAKLY ELECTRIC FISH  
*Jan Grewe, Anna Stöckl, Henriette Walz, Jan Benda*
- T26-2A** DECODING CONTEXT DEPENDENT MOVEMENT PLANS FROM FRONTOPIRIAL REACH AREAS  
*Christoph Budziszewski, Axel Lindner, Alexander Gail*
- T26-3A** SELF-ORGANIZED CRITICALITY IN NETWORKS OF LEAKY INTEGRATE AND FIRE NEURONS  
*Maximilian Uhlig, Anna Levina, J. Michael Herrmann, Theo Geisel*
- T26-4A** RESTING STATE FUNCTIONAL CONNECTIVITY: LARGE-SCALE NEURAL MODEL WITH TIME-DELAYS AND SYSTEM NOISE  
*Vesna Vuksanovic, Philipp Hövel*
- T26-5A** SELF-SUPERVISED NEURONAL PROCESSING OF SENSORY STREAMS  
*Robert Gütig*
- T26-6A** HOW DO CHANNEL DENSITIES AND DIFFERENT TIME CONSTANTS AFFECT THE DYNAMIC GAIN OF A DETAILED MODEL OF A PYRAMIDAL NEURON?  
*David Hofmann, Andreas Neef, Ilya Fleidervish, Michael Gutnick, Fred Wolf*
- T26-7A** BALANCED SYNFIRE CHAIN  
*Nikolay Chenkov, Henning Sprekeler, Richard Kempter*
- T26-8A** RELATIONS BETWEEN THE MANDELBROT SET AND THE CENTRAL NERVOUS SYSTEM  
*Thomas Kromer*
- T26-9A** REGULATION OF GLUTAMATE RECEPTOR COMPOSITION  
*Yue-Hien Lee, Hanspeter Herzel*
- T26-10A** SIGNAL TRANSFER IN NEURONS WITH CENTRAL VERSUS EXTERNALIZED SOMA  
*Janina Hesse, Susanne Schreiber*
- T26-11A** THE NA<sup>+</sup> HYPOTHESIS CHALLENGED  
*Federico Faraci*
- T26-12A** PYTEMPOTRON - A PYTHON BASED IMPLEMENTATION OF THE TEMPOTRON  
*Matthias Ihrke, Robert Gütig*
- T26-13A** A MODEL OF LATERAL INTERACTIONS IN COLOR VISION  
*Olivia Haas, Christian Kellner, Thomas Wachtler*

## Thursday

- T26-1B** A COMPUTATIONAL MODEL OF HIPPOCAMPAL FORWARD SWEEP ACTIVITY AT DECISION POINTS  
*Lorenz Goenner, Julien Vitay, Fred H. Hamker*
- T26-2B** CONSOLIDATION IN A HIERARCHICAL MEMORY NETWORK LEADS TO POWER-LAW FORGETTING  
*Urs Bergmann, Henning Sprekeler, Michiel Remme, Susanne Schreiber, Richard Kempter*
- T26-3B** MODEL-FREE RECONSTRUCTION OF NEURONAL CONNECTIVITY FROM CALCIUM IMAGING SIGNALS  
*Olav Stetter, Javier Orlandi, Demian Battaglia, Jordi Soriano, Theo Geisel*
- T26-4B** FISHER INFORMATION MODEL: V1 PROPERTIES LIMIT THE PATTERN MOTION SENSITIVITY OF MT  
*Stephanie Lehmann, Alexander Pastukhov, Jochen Braun*
- T26-5B** ATTENTION IMPROVES INFORMATION PROCESSING BY TUNING CORTICAL NETWORKS TOWARDS CRITICAL STATES  
*Nergis Tömen, David Rotermund, Udo Ernst*
- T26-6B** PHYSIOLOGICALLY-INSPIRED NEURAL MODEL FOR THE PROCESSING OF DYNAMIC FACIAL EXPRESSIONS  
*Martin A. Giese, Girija Ravishankar, Shervin Safavi, Dominik Endres*
- T26-7B** GENERATION OF UNCORRELATED NOISE BY RECURRENT NEURAL NETWORKS  
*Jakob Jordan, Mihai A. Petrovici, Johannes Schemmel, Karlheinz Meier, Markus Diesmann, Tom Tetzlaff*
- T26-8B** SUPERCOMPUTERS READY FOR USE AS DISCOVERY MACHINES FOR NEUROSCIENCE  
*Susanne Kunkel, Maximilian Schmidt, Jochen M. Eppler, Jun Igarashi, Gen Masumoto, Tomoki Fukai, Shin Ishii, Hans Ekkehard Plesser, Abigail Morrison, Markus Diesmann, Moritz Helias*
- T26-9B** SYNAPTIC THETA SUSCEPTIBILITY IN SPIKE TIMING DEPENDENT PLASTICITY  
*Christian Albers, Klaus Richard Pawelzik*
- T26-10B** SYMMETRY BREAKING IN POPULATIONS OF NEURONAL FEATURE DETECTORS  
*Julia Hillmann, Robert Gütig*
- T26-11B** COMPACT INTERNAL REPRESENTATION - A MATHEMATICAL MODEL OF DROSOPHILA'S PREDICTION CAPABILITIES IN FLIGHT CONTROL  
*Bianca Zaepf, José Antonio Villacorta Villacorta, Jan-Lukas Oepen, Roland Strauss*
- T26-12B** LINKING PHYSIOLOGY AND MORPHOLOGY IN TWO TYPES OF HONEYBEE PROJECTION NEURONS  
*Anneke Meyer, Martin F. Brill, Wolfgang Rössler, Martin Paul Nawrot*



## Friday

- T26-1C** DEPENDENCE OF NEURONAL ENCODING ON THE SITE OF ACTION POTENTIAL INITIATION  
*Maxim Volgushev, Evgeny Nikitin, Vladimir Ilin*
- T26-2C** DETECTION OF SINGLE SOURCES DURING COGNITIVE PROCESSING OF AUDITORY STIMULI  
*Ralf Mueller, Max Taubert, Marco Weiergräber, Joachim Klosterkötter, Stephan Ruhrmann, Anke Brockhaus-Dumke*
- T26-3C** TEMPERATURE COMPENSATED RESPONSES IN CONDUCTANCE-BASED MODELS OF GRASSHOPPER AUDITORY RECEPTORS: IONIC MECHANISMS AND METABOLIC COST  
*Frederic Roemschied, Jan-Hendrik Schleimer, Monika Eberhard, Bernhard Ronacher, Susanne Schreiber*
- T26-4C** LEARNING LATERAL INHIBITION WITH INHIBITORY SPIKE-TIMING DEPENDENT PLASTICITY TO IMPROVE STIMULUS DISCRIMINATION IN A MODEL OF THE ANTENNAL LOBE  
*Bahadir Kasap, Michael Schmuker*
- T26-5C** RECEPTIVE FIELD INFERENCE FROM BINARY SPIKE DECISIONS FOR RESPONSES TO NON-GAUSSIAN STIMULUS ENSEMBLES  
*Arne-Freerk Meyer, Jan-Philipp Diepenbrock, Frank W. Ohl, Jörn Anemüller*
- T26-6C** A DYNAMIC MODEL FOR SELECTIVE VISUAL ATTENTION PREDICTS INFORMATION ROUTING  
*Daniel Harnack, Udo A Ernst, Klaus R Pawelzik*
- T26-7C** NEUROPHYSIOLOGICAL VALIDATION OF COMPUTATIONAL METHODS TO PREDICT CORTICAL EXCITATION VOLUMES IN TRANSCRANIAL MAGNETIC STIMULATION  
*Alexander Opitz, Wynn Legon, Abby Rowlands, Walter Paulus, William J. Tyler*
- T26-8C** SOMATIC SODIUM CHANNELS ACCOUNT FOR 2ND PHASE OF ACTION POTENTIAL UPSTROKE IN LAYER 5 PYRAMIDAL CELLS  
*Andreas Neef, Michael J. Gutnick, Fred Wolf, Ilya Fleidervish*
- T26-9C** SPARSE AND RELIABLE CORTICAL REPRESENTATIONS EMERGE NATURALLY IN NETWORKS WITH ADAPTING NEURONS  
*Martin Paul Nawrot, Farzad Farkhooi*
- T26-10C** SYNAPTIC SCALING ENABLES DYNAMICALLY DISTINCT SHORT- AND LONG-TERM MEMORY FORMATION  
*Christian Tetzlaff, Christoph Kolodziejcki, Marc Timme, Misha Tsodyks, Florentin Wörgötter*
- T26-11C** INTRINSIC AND EXTRINSIC SOURCES OF CORRELATED ACTIVITY IN RECURRENT NETWORKS  
*Moritz Helias, Tom Tetzlaff, Markus Diesmann*
- T26-12C** RECONSTRUCTION OF NETWORK CONNECTIVITY IN THE IRREGULAR FIRING REGIME  
*Dmytro Grytskyy, Markus Diesmann, Moritz Helias*

## Saturday

- T26-1D** SPIKE PATTERN DETECTION BY FREQUENT ITEMSET MINING  
*Emiliano Torre, Michael Denker, Christian Borgelt, David Picado, George Gerstein, Sonja Gruen*
- T26-2D** SIMULATION OF A MULTI-ELECTRODE ARRAY NEUROCHIP EXPERIMENT WITH CLONAZEPAM  
*Kerstin Lenk, Olaf H.-U. Schroeder, Barbara Pritwitzer*
- T26-3D** NEURONAL VARIABILITY VS. PRECISE STIMULUS DISCRIMINATION IN AN OLFACTION-INSPIRED NETWORK: A NEUROMORPHIC CASE STUDY  
*Michael Schmuker, Thomas Pfeil, Martin Paul Nawrot*
- T26-4D** THE EXTREME LEARNING MACHINE AS A MODEL TO STUDY PATTERN DISCRIMINATION IN INSECT BRAINS  
*Niklas Flindt, Amir Madany Mamlouk, Michael Schmuker*
- T26-5D** INPUT-DEPENDENT DECORRELATION OF NEURONAL ACTIVITY IN BARREL CORTEX  
*Birgit Kriener, Gaute T. Einevoll*
- T26-6D** RELIABILITY OF ALGORITHMS FOR AUTOMATIZED DETECTION OF NEURONAL ACTIVITY IN VITRO  
*Franz Carlsen, Knut Kirmse, Ernst Günter Schukat-Talamazzini, Knut Holthoff*
- T26-7D** MICROSCOPIC RECRUITMENT OF NETWORK SPIKES IN RECURRENT NETWORKS WITH SYNAPTIC SHORT-TERM PLASTICITY  
*Christoph Bauermeister, Gustavo Deco, Jochen Braun*
- T26-8D** THE CONNECTOME OF THE SPINAL CORD OF THE RAT  
*Oliver Schmitt, Peter Eipert, Ann-Kristin Klünker, Richard Kettlitz, Pauline Morawska, Andreas Wree*
- T26-9D** WINNER-TAKE-ALL CIRCUITS EXHIBIT KEY HALLMARKS OF BINOCULAR RIVALRY  
*Svenja Marx, Gina Gruenhagen, Daniel Walper, Ueli Rutishauser, Wolfgang Einhäuser*
- T26-10D** TOWARD A SPIKING MULTI-AREA NETWORK MODEL OF MACAQUE VISUAL CORTEX  
*Maximilian Schmidt, Sacha van Albada, Rembrandt Bakker, Markus Diesmann*
- T26-11D** ACTION POTENTIAL SHAPE AND SPIKE ENCODING PROPERTIES MATURE IN PARALLEL IN CULTURED HIPPOCAMPAL NEURONS  
*Elinor Lazarov, Michael Gutnick, Fred Wolf, Andreas Neef*
- T26-12D** APPLICATION OF NETWORK THEORY TO REAL LIVING CULTURES  
*Christian Claus Schmeltzer*
- T26-13D** DESYNCHRONIZING EFFECT OF HIGH-FREQUENCY STIMULATION IN A GENERIC CORTICAL NETWORK MODEL  
*Jens Christian Claussen, Markus Schütt*

## T27: Techniques and demonstrations

### Wednesday

- T27-1A** STRUCTURAL AND QUANTITATIVE MRI OF THE COMMON MARMOSSET MONKEY USING A CLINICAL 3T SCANNER  
*Gunther Helms, Enrique Garea-Rodriguez, Christina Schlumbohm, Jessica König, Peter Dechent, Eberhard Fuchs, Melanie Wilke*
- T27-2A** A WIRELESS AND FULLY IMPLANTABLE RECORDING SYSTEM FOR ECOG SIGNALS  
*David Rotermund, Dmitriy Boll, Victor Gordillo-Gonzalez, Darren Gould, Thomas Hertzberg, Janpeter Höffmann, Sunita Mandon, Dagmar Peters-Drolshagen, Jonas Pistor, Marius Richter, Tim Schellenberg, Elena Tolstosheeva, Guido Widman, Christian E. Elger, Walter Lang, Steffen Paul, Martin Schneider, Klaus R. Pawelzik, Andreas K. Kreiter*
- T27-3A** A HIGH-RESOLUTION, PHOTOACTIVATED TRANSGENE EXPRESSION METHOD IN VIVO TO STUDY HOMEOSTATIC EFFECTS OF GENETICALLY ALTERED NEURONAL ACTIVITY  
*Aline Dubos, Alexandre Specht, Sidney Cambridge*
- T27-4A** AN OPTOGENETIC APPROACH TO THE AUDITORY SYSTEM OF THE MONGOLIAN GERBIL  
*Stefan Keplinger, Fred Koch, Stylianos Michalakis, Martin Biel, Benedikt Grothe, Lars Kunz*
- T27-5A** OPTICAL IMAGING: A COMPARISON OF TWO METHODS IN MICE AND BIRDS  
*Neethu Michael, Nina Keary, Uwe Mayer, Hans-Joachim Bischof, Siegrid Löwel*
- T27-6A** TARGETED-ESTERASE INDUCED DYE LOADING (TED) ASSISTED ER CALCIUM IMAGING IS IMPROVED WITH A NEW RED-FLUORESCENT ESTERASE CONSTRUCT  
*Samira Samtleben, Caroline Fecher, Robert Blum*

### Thursday

- T27-1B** ACQUISITION OF MULTINEURONAL SPIKE EVENTS FROM BRAIN SLICES  
*Kai Gansel, Wolf Singer*
- T27-2B** AUTOMATED ANALYSIS OF SPONTANEOUS SYNAPTIC ACTIVITY IN WHOLE CELL CURRENT CLAMP RECORDINGS  
*Alexander Drakew, Urban Maier, Anja Tippmann, Michael Frotscher*
- T27-3B** RESPONSE PROPERTIES OF THE GENETICALLY-ENCODED OPTICAL H<sub>2</sub>O<sub>2</sub> SENSOR HYPER  
*Jonathan Weller, Michael Müller*
- T27-4B** TESTING AND IMPROVEMENT OF A SPIKE SORTING ALGORITHM  
*Christopher Doerr, Dirk Hoehl, Uwe Thomas, Thomas Schanze*

- T27-5B** DATA MANAGEMENT FOR EFFICIENT AND REPRODUCIBLE RESEARCH  
*Andrey Sobolev, Aljoscha Leonhardt, Christian Kellner, Philipp L. Rautenberg, Andreas V. Herz, Thomas Wachtler*
- T27-6B** CELL VIABILITY TESTING WITH A SPONGE ALKALOID: AGELADINE A INDICATES ACIDIFICATION DURING PHYSIOLOGICAL STRESS AND APOPTOSIS  
*Ulf Bickmeyer, Kristin Tietje, Benedikt Hofbauer, Christine Fink, Thomas Roeder, Christian Wegener, Guido Schramm*
- T27-7B** SINGLE-PARTICLE TRACKING OF NEURONAL SURFACE PROTEINS IN BRAIN SLICES  
*Barbara Biermann, S. Sokoll, J. Klueva, M. Missler, M. Heine*

### Friday

- T27-1C** CALCIUM IMAGING AND OPTICAL MANIPULATION OF VESTIBULAR NEURONS IN THE AXOLOTL  
*Stephan Direnberger, Roberto Banchi, Christian Seebacher, Felix Felmy, Hans Straka, Lars Kunz*
- T27-2C** CONDITIONAL PHOTOLABELING OF INDIVIDUAL NEURONS IN TRANSGENIC MOUSE LINES IN VIVO  
*Manuel Peter, Brice Bathellier, Bruno Fontinha, Simon Rumpel*
- T27-3C** BONCAT AND GINCAT - OR HOW TO TAG NEWLY SYNTHESIZED PROTEINS WITH A CLICK  
*Anke Müller, Christine Freitag, Thilo Kähne, Daniela C. Dieterich*
- T27-4C** SUFFICIENT ACROSS-TIP DIFFUSION OCCURS WITH SHARP MICROELECTRODES FILLED WITH HIGH IONIC-STRENGTH SOLUTIONS TO ALTER MEMBRANE CONDUCTANCES WITHIN TYPICAL EXPERIMENTAL DURATIONS  
*Jeffrey Bryan Thuma, Christoph Guschlbauer, Ansgar Büschges, Scott Llewellyn Hooper*
- T27-5C** ANALYSIS OF INFECTION EFFICACY, TROPISM, IMMUNOGENICITY, AND AXONAL TRANSPORT OF RAAV SEROTYPES IN THE MOUSE BRAIN  
*Dominik Florian Aschauer, Sebastian Kreuz, Simon Rumpel*

### Saturday

- T27-1D** IN VIVO IMAGING OF PKA ACTIVATION IN THE STRIATUM USING AN OPTICAL FIBER BUNDLE AND BIOSENSOR  
*Pierre Vincent, Marina Brito, Elvire Guiot, Liliana Castro, Jin Zhang, Danièle Paupardin-Tritsch*
- T27-2D** IMPROVING MULTI-PHOTON IMAGING TO STUDY OLFACTORY CODING IN INSECTS  
*Georg Raiser, Marcel Wunram, Sabine Scheibe, C. Giovanni Galizia*
- T27-3D** SYSTEMATIC INDIVIDUAL DIFFERENCES IN SPATIAL NAVIGATION - AN ONLINE STUDY  
*Caspar Mathias Goeke, Peter König, Klaus Gramann*

- T27-4D** BRAIN TUMOR VOLUME AS A RELIABLE PREDICTOR FOR OVERALL GLIOBLASTOMA PATIENTS SURVIVAL – A EPIDEMIOLOGICAL APPROACH  
*Katharina Friedlein, Nic E. Savaskan, Michael Buchfelder, Ilker Y. Eyüpoglu*
- T27-5D** PHARMACOLOGICAL EVALUATION OF THE EFFICACY OF TRICAININE (MS-222) AS AN ANESTHETIC AGENT FOR BLOCKING SENSORY-MOTOR RESPONSES IN XENOPUS LAEVIS  
*Carlana Ramlochansingh, Francisco Branoner, Werner Graf, Hans Straka*
- T27-6D** SELF MOTION FROM OPTIC FLOW MONITORED BY OPTICAL MOUSE CHIPS  
*Hansjürgen Dahmen, Hanspeter A. Mallot*