

# Poster Contributions: 11<sup>th</sup> Göttingen Meeting, 18-21 March 2015

## Explanation of Abstract Numbers

There are two poster sessions on Wednesday, Thursday, Friday and Saturday. Posters with poster numbers ending with an A are displayed on Wednesday, posters 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 hours 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 19, 10:45 -11:30 h and 17:15 -18:00 h in the poster area 21.

## Postersessions

Postersessions A:	Wednesday, March 18	13.00 - 14.30 and 16.30 - 18.00
Postersessions B:	Thursday, March 19	10.00 - 11.30 and 16.30 - 18.00
Postersessions C:	Friday, March 20	10.00 - 11.30 and 16.30 - 18.00
Postersessions D:	Saturday, March 21	10.30 - 12.00 and 13.30 - 15.00

## Poster Topics

T1	Stem cells, Neurogenesis and Gliogenesis
T2	Axon and Dendrite Development, Synaptogenesis
T3	Developmental Cell Death, Regeneration and Transplantation
T4	Neurotransmitters, Retrograde messengers and Cytokines
T5	G Protein-linked and other Receptors
T6	Ligand-gated, Voltage-dependent Ion Channels, and Transporters
T7	Synaptic Transmission, Pre- and Postsynaptic organization
T8	Synaptic Plasticity, LTP, LTD
T9	Glia, Glia-Neuron Interactions
T10	Aging and Developmental Disorders
T11	Alzheimer's, Parkinson's and other Neurodegenerative Diseases
T12	Neuroimmunology, Inflammation, and Neuroprotection
T13	Cognitive, Emotional, Behavioral State Disorders and Addiction
T14	Vision: Invertebrates
T15	Vision: Retina and Subcortical Pathways
T16	Vision: Striate and Extrastriate Cortex, Eye Movement and Visuomotor Processing
T17	Auditory Mechanoreceptors, Vestibular, Cochlea, Lateral Line and Active Sensing
T18	Auditory System: Subcortical and Cortical Processing
T19	Chemical Senses: Olfaction, Taste, Others
T20	Somatosensation: Touch, Temperature, Proprioception, Nociception
T21	Motor Systems
T22	Homeostatic and Neuroendocrine Systems, Stress Response
T23	Neural Networks and Rhythm Generators
T24	Attention, Motivation, Emotion and Cognition
T25	Learning and Memory
T26	Computational Neuroscience
T27	Techniques and Demonstrations

## Poster Contributions: 11<sup>th</sup> Göttingen Meeting, 18-21 March 2015

- T1-1A** ARE OLFATORY BULB AND BRAIN VOLUME GROWING PROPORTIONALLY?  
*Elke Weiler, Willi Bennegger, Ulm*
- T1-2A** AXONAL PATHOLOGY IN PATIENT-DERIVED NEURONS HARBORING SPG11 MUTATIONS: AN IPSC MODEL FOR SPATACSIN-LINKED HEREDITARY SPASTIC PARAPLEGIA  
*Himanshu Kumar Mishra, Francesc Pérez-Brangulí, Iryna Prots, Steven Havlicek, Zacharias Kohl, Jonatan Dorca-Arevalo, Martin Regensburger, Elisabeth Sock, Juan Blasi, Teja W Groemer, Ursula Schlötzer-Schrehardt, Jürgen Winkler, Beate Winner, Erlangen*
- T1-3A** CALCIUM RESPONSE PROFILE OF DIFFERENT CELL TYPES IN THE MOUSE SUBVENTRICULAR ZONE  
*Nanette Messemer, Laura Fritz, Joachim W. Deitmer, Kaiserslautern*
- T1-4A** CHEMICALLY DEFINED DIFFERENTIATION OF HUMAN ASTROCYTES FROM IPSC DERIVED NEURAL STEM CELLS FOR DISEASE MODELING  
*Pretty Garg, Kurt Gottmann, Katja Nieweg, Düsseldorf*
- T1-5A** DIRECT CONVERSION OF ADULT CORTICAL OLIGODENDROCYTE PROGENITOR CELLS TO FUNCTIONAL NEURONS  
*Daniel Peterson, S Bazarek, A Mehta, RA Marr, GE Stutzmann, RM Howard, SR Whitemore, Bonn*
- T1-6A** EFFICIENT GENERATION OF HUMAN IPSC DERIVED PARVALBUMIN INTERNEURONS FOR DISEASE MODELLING  
*Debia Rajnath Wakhloo, Katja Nieweg, Marburg*
- T1-1B** EXPRESSION AND FUNCTION OF LIN28B IN THE AUTONOMIC NERVOUS SYSTEM  
*Melanie Hennchen, Ikram Abarchan- El Makhfi, Hermann Rohrer, Frankfurt*
- T1-2B** FILOPODIA-BASED WNT TRANSPORT DURING PATTERNING OF THE NEURAL PLATE IN VERTEBRATES  
*Steffen Scholpp, Eliana Stanganello, Alexander Schug, Karlsruhe*
- T1-3B** INDUCIBLE FORMATION OF HIPPOCAMPAL OLIGODENDROCYTES FROM PRE-EXISTING LOCAL PRECURSORS  
*Christoph Ott, Imam Hassouna, Liane Dahm, Meike Hütte, Miso Mitkovski, Sandra Göbbels, Klaus-Armin Nave, Hannelore Ehrenreich, Göttingen*
- T1-5B** INTERACTIONS BETWEEN THE MENINGES AND THE CORTICAL NEUROEPITHELIUM TIME GLIOGENESIS DURING CORTICAL DEVELOPMENT  
*Alexander von Holst, Richard Sturm, Heidebelberg*
- T1-1C** MUTATIONS IN MOUSE CDK5RAP2; MORE THAN JUST MICROCEPHALY  
*Sami Zaqout, Nadine Krämer, Gisela Stoltenburg, Jessica Fassbender, Gregor Willerding, Angela Kaindl, Berlin*
- T1-2C** MYCN IN SYMPATHETIC NEUROGENESIS AND NEUROBLASTOMA DEVELOPMENT  
*Marco Kramer, Marie Arsenian-Henriksson, Hemann Rohrer, Frankfurt/Main*
- T1-3C** NEURONAL ORGANIZATION OF THE I LAYER OF HUMAN NEOCORTEX DURING PRENATAL DEVELOPMENT  
*Alena A. Kozlova, Nadezhda A. Sidorova, Lyubov A. Tkachenko, Saint-Petersburg, Russia*
- T1-4C** PROTOCADHERIN18A INFLUENCES NEUROGENESIS IN ZEBRAFISH THALAMUS  
*Bernadett Bösze, Steffen Scholpp, Eggenstein-Leopoldshafen*

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- T1-5C** ROLE OF TGF- $\beta$  ON THE DEVELOPMENT AND SURVIVAL OF MOUSE HINDBRAIN SEROTONERGIC NEURONS  
*Enaam Chleilat, Eleni Roussa, Freiburg*
- T1-1D** ROLE OF TGF- $\beta$  ON THE DEVELOPMENT OF MIDBRAIN DOPAMINERGIC NEURONS  
*Fabian Josue Cardenas Lara, Eleni Roussa, Kerstin Krieglstein, Freiburg*
- T1-2D** TARGETED DISRUPTION OF THE SERINE/THREONINE KINASE ULK4 GENE LEADS TO ABNORMAL NEUROGENESIS AND CONGENITAL HYDROCEPHALUS-LIKE PHENOTYPE  
*Min Liu, zhenlong Guan, Timothy O'Brien, Sanbing Shen, Galway, Ireland*
- T1-3D** TCF7L2 STEERS NEURONAL DIVERSITY REQUIRED FOR ASYMMETRIC BRAIN FORMATION AND FUNCTION  
*Matthias Carl, Ulrike Hüsken, Stephen Wilson, Mannheim*
- T1-4D** TGFR2 CONDITIONAL KNOCK-OUT IN THE DEVELOPING TELENCEPHALON RESULTS IN NEUROVASCULAR DEFECTS  
*Tanja Vogel, Nicole Hellbach, Stefan Weise, Freiburg*
- T1-5D** THE ECTONUCLEOTIDASE NTPDASE2 CONTROLS PROGENITOR CELL PROLIFERATION IN NEUROGENIC NICHES OF THE ADULT MOUSE BRAIN  
*Jennifer Stefani, Kristine Gampe, Klaus Hammer, Peter Brendel, Alexandra Pötzsch, Grigori Enikolopov, Keiichi Enyoji, Amparo Acker-Palmer, Simon C. Robson, Herbert Zimmermann, Frankfurt am Main*
- T2-1A** ALPHA-SYNUCLEIN IS ASSOCIATED WITH THE SYNAPTIC VESICLE APPARATUS IN THE HUMAN AND RAT ENTERIC NERVOUS SYSTEM  
*Martina Böttner, Tobias Fricke, Melanie Müller, Martina Barrenschee, Thilo Wedel, Kiel*
- T2-2A** AXOGENESIS IN THE ANTENNAL SENSORY SYSTEM OF THE GRASSHOPPER: PIONEER NEURONS  
*Erica Ehrhardt, Tatjana Kleele, Yu Liu, George Boyan, Planegg-Martinsried*
- T2-3A** CDH13 IN THE DEVELOPING MOUSE NERVOUS SYSTEM  
*Dominik Pascal Kiser, Andrea Forero, Theresa Gerstle, Sarah Sich, Jonas Waider, Olga Rivero, Klaus-Peter Lesch, Würzburg*
- T2-4A** CORTICAL PROGENITORS RELEASE THE CHEMOKINE CXCL12 (SDF-1) TO PROMOTE INGROWTH OF THALAMOCORTICAL AFFERENTS  
*Philipp Abe, Zoltán Molnár, Ralf Stumm, Jena*
- T2-1B** FASCICLE SWITCHING: AN ANCIENT PATTERN OF AXOGENESIS IN A MODERN BRAIN  
*George Stephen Boyan, Leslie Williams, Yu Liu, Martinsried*
- T2-2B** GENERATION AND ANALYSIS OF A NOVEL TRANSGENIC MOUSE LINE WITH DEFECTIVE FIBER TRACTS  
*Maria Eleni Kastriti, Marina Theodosiou, Marina Vidaki, Kostas Theodorakis, Domna Karagogeos, Heraklion, Crete, Greece*
- T2-3B** LIM-DOMAIN-BINDING PROTEINS: INTERACTION IN NEURONAL DEVELOPMENT AND EPILEPTOGENESIS  
*Barbara Karoline Iwaniuk, Robert Maresch, Alexander Grote, Rebecca Kulbida, Karen MJ van Loo, Heinz Beck, Susanne Schoch, Albert J. Becker, Bonn*
- T2-1C** LOCAL STIMULATION OF MOUSE HIPPOCAMPAL NEURONS BY RECOMBINANT PRION PROTEIN INDUCES RAPID NEURITE OUTGROWTH  
*Ladan Amin, Xuan Thi Anh Nguyen, Gabriele Giachin, Giuseppe Legname, Dan Cojoc, Trieste, Italy*

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- T2-2C** MOLECULAR MECHANISMS OF EXOCYTOSIS OF LARGE DENSE CORE VESICLES IN DORSAL ROOT GANGLION NEURONS  
*Ali Hussein Shaib, Margarete Klose, Jens Rettig, Barbara Niemeyer, Ute Becherer, Homburg*
- T2-3C** NEURONAL FUNCTIONS OF RIM3 $\gamma$  AND RIM4 $\gamma$   
*Katrin Michel, Sara Ferando-Colomer, Johannes A. Müller, Ana-Maria Oprisoreanu, Albert Becker, Dirk Dietrich, Susanne Schoch, Bonn*
- T2-1D** NEUROPLASTINS INTERACT WITH TRAF6 TO INITIATE CELL SIGNALING  
*Sampath Kumar Vemula, Magdeburg*
- T2-2D** POSTNATAL DEVELOPMENT AND PLASTICITY OF ANATOMICAL PATHWAYS SUITABLE FOR MULTISENSORY INTEGRATION PROCESSES IN RODENT PRIMARY SENSORY CORTICES A1, S1, AND V1  
*Julia U. Henschke, Patrick Kanold, Henning Scheich, Eike Budinger, Magdeburg*
- T2-3D** QUANTIFICATION OF HIPPOCAMPAL AND CORTICAL NETWORK ACTIVITY IN AWAKE NEONATAL MICE.  
*Robin Till Hirsch, Stephan Marguet, Walid Fazeli, Dirk Isbrandt, Cologne*
- T2-4D** REELIN INDUCES BRANCHING OF NEURONS AND RADIAL GLIAL CELLS DURING CORTICOGENESIS  
*Xuejun Chai, Li Fan, Hong Shao, Xi Lu, Wei Zhang, Jiawei li, Jianlin Wang, Shulin Chen, Michael Frotscher, Shanting Zhao, Hamburg*
- T3-1A** CELL TYPE-SPECIFIC DIFFERENCES IN ACTIVITY-DEPENDENT POSTNATAL APOPTOSIS IN NEOCORTICAL CULTURES  
*Oriane Blanquie, Anne Sinning, Heiko Luhmann, Mainz*
- T3-1B** INFLUENCE OF THE NICOTINAMID-NUCLEOTID-TRANSHYDROGENASE ON THE MANIFESTATION OF PERINATAL HYPOXIC-ISCHEMIC BRAIN LESIONS IN THE MOUSE  
*Sandra Semar, Thomas Tschernig, Carola Meier, Homburg/Saar*
- T3-1C** NEUROPROTECTIVE EFFECT OF GRAFTED MURINE INDUCED PLURIPOTENT STEM CELLS ON INJURED SPINAL MOTONEURONS FOLLOWING VENTRAL ROOT AVULSION IN RATS  
*Antal Nógrádi, Krisztián Pajer, Csilla Nemes, Sára Berzsenyi, András Dinnyés, Szeged, Hungary*
- T3-1D** REGENERATION OF THE SUBGENUAL COMPLEX IN THE STICK INSECT *SIPYLOIDEA SIPYLUS*  
*Reinhard Lakes-Harlan, Stefanie Weis, Johannes Strauß, Giessen*
- T4-1A** CAPS1 CRITICALLY REGULATES BDNF RELEASE AND INTRAGRANULAR PH OF SECRETORY GRANULES  
*Robert Eckenstaler, Volkmar Leßmann, Tanja Brigadski, Magdeburg*
- T4-1B** MUSCARINIC RECEPTOR CONTROL OF PYRAMIDAL NEURON MEMBRANE POTENTIAL IN MEDIAL PREFRONTAL CORTEX (MPFC) IN YOUNG RATS.  
*Przemyslaw Norbert Kurowski, Maciej Gawlak, Pawel Szulczyk, Warsaw, Poland*
- T4-1C** NO EVIDENCE FOR ROLE OF EXTRACELLULAR CHOLINE-ACETYLTRANSFERASE IN GENERATION OF GAMMA OSCILLATIONS IN RAT HIPPOCAMPAL SLICES *IN VITRO*  
*Jan-Oliver Hollnagel, Rizwan ul Haq, Christoph J Behrens, Anna Maslarova, Istvan Mody, Uwe Heinemann, Berlin*
- T4-1D** PRE- AND POSTSYNAPTIC EFFECTS OF NOREPINEPHRINE ON NEUROTRANSMISSION BETWEEN LAYER 4 EXCITATORY NEURONS IN RAT BARREL CORTEX  
*Jiali Tang, Gabriele Radnikow, Dirk Feldmeyer, Jülich*

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- T5-1A** ACTIVATION OF  $\mu$ -OPIOID RECEPTORS INHIBITS INTERCALATED INTERNEURONS AND MODULATES FEED-FORWARD INHIBITION IN THE MOUSE AMYGDALA  
*Lena Goedecke, Peter Blaesse, Michael Bazelot, Marco Capogna, Hans-Christian Pape, and Kay Jüngling, Münster*
- T5-2A** DECIPHERING THE NEURONAL CIRCUIT ACTIVATED BY THE DEATH-ASSOCIATED ODOR CADAVERINE  
*Milan Dieris, Gaurav Ahuja, Venkatesh Krishna, Sigrun Korsching, Cologne*
- T5-1B** MODELING AND EXPERIMENTAL VERIFICATION OF LIGAND-RECEPTOR INTERACTION IN A HIGH AFFINITY CADAVERINE RECEPTOR WITH AN UNUSUAL BIFUNCTIONAL LIGAND REQUIREMENT.  
*Kanika Sharma, Gaurav Ahuja, Arnd Baumann, Sigrun Korsching, Cologne*
- T5-2B** MOLECULAR MECHANISMS OF OLFACTORY DETECTION IN POLYPHAGOUS MOTH *SPODOPTERA LITTORALIS*: DEORPHANIZATION OF ODOURANT RECEPTORS VIA THE *DROSOPHILA* EMPTY NEURON SYSTEM.  
*Fredrik Schlyter, William B. Walker, Muhammad Binyameen, Arthur de Fouchier, Claudia Steiner, Christelle Monsempes, Annick Maria, Marie-Christine François, Peter Anderson, Bill S. Hansson, Thomas Chertemps, Nicolas Montagné, Emmanuelle Jacquin-Joly, Mattias Larsson, ALNARP, Sweden*
- T5-3B** POSSIBLE REGULATION OF CB1-RECEPTOR BY RGS-PROTEINS IN A CELL TYPE SPECIFIC MANNER  
*Sebastian Loch, Bernadette Mohr, Krisztina Monory, Mainz*
- T5-1C** SCA-23 MUTANT DYNORPHIN A CAUSES CELL DEATH VIA NON-OPIOID MECHANISMS  
*Cleo JLM Smeets, J Jezierska, MN Melo, A Stargardt, C Dooley, G Bakalkin, J McLaughlin, S Marrink, HH Kampinga, EA Reits, DS Verbeek, Groningen, Netherlands*
- T5-1D** THE *V1R*-RELATED *ORA5* RECEPTOR IS NOT EXPRESSED IN CILIATED AND MICROVILLOUS NEURONS, THE MAJOR OLFACTORY RECEPTOR NEURON POPULATIONS.  
*Daniel Kowatschew, Shahrzad Bozorg Nia, Yuichiro Oka, Sigrun Korsching, Köln*
- T5-2D** TRANSACTIVATION OF TRKB RECEPTOR THROUGH THE ADENOSINE RECEPTOR *A2A-R* LEADS TO CHANGES IN DOWNSTREAM SIGNALING CASCADES  
*Stefan Wiese, Teresa Tsai, Dennis Stern, Alice Klausmeyer, Bochum*
- T6-1A** A MULTISCALE MODEL OF *SHAKER-TYPE*  $K_v$ -CHANNEL MUTANTS PREDICTS MACROSCOPIC ELECTROPHYSIOLOGICAL RESULTS  
*Alexander Peyser, Wolfgang Nonner, Jülich*
- T6-2A** BALANCING NOCICEPTIVE SIGNALING BY CO-ACTIVATION OF TRESK AND TRP CHANNELS BY LYSOPHOSPHATIDIC ACID  
*Sina Kollert, Frank Döring, Erhard Wischmeyer, Wuerzburg*
- T6-3A** CHANGES IN NEURAL NETWORK HOMEOSTASIS TRIGGER NEUROPSYCHIATRIC SYMPTOMS  
*Jochen C. Meier, Nicola Maggio, Iris Müller, Gürsel Caliskan, Marcus Semtner, Joanna Eller, Ute Häussler, René Jüttner, Tamar Dugladze, Eva Chronowska, Carola A. Haas, Akos Kulik, Tengis Gloveli, Oliver Stork, Uwe Heinemann, Aline Winkelmann, Berlin*
- T6-4A** CHARACTERIZATION OF CALCIUM CURRENTS IN NEONATAL AND MATURE SPIRAL GANGLION NEURONS OF  $\alpha_2\delta_3^-/-$   
*Friederike Stephani, Wenyang Wang, Jutta Engel, Homburg*
- T6-5A** CHLORIDE TRANSPORTER, A NEW THERAPEUTIC TARGETS  
*Mahmoudreza Hadjighassem, Tehran, Iran*

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- T6-6A** COMPLEX AND SPARSE CODING ALONG THE HONEY BEE'S OLFACTORY PATHWAY: POTENTIAL CONTRIBUTION OF IONIC CURRENTS OF MEDIAL AND LATERAL PROJECTION NEURONS AND KENYON CELLS  
*Jan Kropf, Wolfgang Rössler, Würzburg*
- T6-7A** CORRELATIONS BETWEEN NEURONAL SPIKE TRAINS EXAMINED UNDER RECREATED FLUCTUATING SYNAPTIC CONDUCTANCE INPUTS  
*Daniele Linaro, Michele Giugliano, Antwerp, Belgium*
- T6-8A** DEAFNESS BY MUTATION IN ATP GATED P2X2 CHANNELS (DFNA41) IS NOT INDUCED BY THE DOMINANT NEGATIVE EFFECT  
*Yan Zhu, Tuebingen*
- T6-9A** DEFECTIVE ESCAPE BEHAVIOUR IN DEAH-BOX RNA HELICASE MUTANTS IMPROVED BY RESTORING GLYCINE RECEPTOR EXPRESSION  
*Sophie Leacock, Hiromi Hirata, Kazutoyo Ogino, Kenta Yamada, Robert J. Harvey, London, United Kingdom*
- T6-1B** DIFFERENTIAL REGULATION OF CHLORIDE TRANSPORTER EXPRESSION BY POTASSIUM CHLORIDE AND AMPAKINE IN CHICKEN AUDITORY BRAINSTEM *IN VITRO*  
*Marcus Joseph Wirth, Lars Roentgen, Hermann Wagner, Aachen*
- T6-2B** EFFECTS OF EPILEPSY-ASSOCIATED ION CHANNEL MUTATIONS ON NEURONAL NETWORK ACTIVITY  
*Filip Rosa, Sabina Vejzovic, Heidi Löffler, Stephan Theiss, Marcel Dihné, Holger Lerche, Snezana Maljevic, Tübingen*
- T6-3B** FOREBRAIN 5-HT<sub>7</sub> RECEPTORS RELIEVE NEUROPATHIC PAIN BY REVERSING DYSFUNCTION OF DENDRITIC INTEGRATION  
*Mirko Santello, Thomas Nevian, Bern, Switzerland*
- T6-4B** FUNCTIONAL CHARACTERIZATION OF NOVEL GABA(A) RECEPTOR MUTATIONS ASSOCIATED WITH IDIOPATHIC GENERALIZED EPILEPSIES  
*Merle Bock, Cristina Niturad, Julia Knaus, Thomas Ott, Timm Danker, Steven Petrou, Yvonne Weber, Holger Lerche, Snezana Maljevic, Tuebingen*
- T6-5B** HYPERPOLARIZATION-ACTIVATED CATION CHANNELS INFLUENCE SYNAPTIC INTEGRATION IN SUBSTANTIA NIGRA DOPAMINE NEURONS.  
*Dominique Engel, Vincent Seutin, Liège, Belgium*
- T6-6B** IMPERMEANT ANIONS, FIXED CHARGES, AND THE DRIVING FORCE OF GABA<sub>A</sub>R-MEDIATED CL<sup>-</sup> CURRENTS  
*Juha Voipio, Kai Kaila, Helsinki, Finland*
- T6-7B** *IN VIVO* TAGGING OF CA<sub>v</sub>1.3 CALCIUM CHANNELS REVEALS C-TERMINAL MODULATION OF GATING PROPERTIES AND SUBCELLULAR EXPRESSION OF THE FULL LENGTH CHANNEL IN MOUSE INNER HAIR CELLS  
*Stephanie Eckrich, Anja Scharinger, Dietmar Hecker, Kai Schönig, Dusan Bartsch, Martina J Sinnegger-Brauns, Bernhard Schick, Jutta Engel, Jörg Striessnig, Homburg*
- T6-8B** INFLUENCE OF CKAMP44 ON AMPA RECEPTOR NUMBER AND FUNCTION IN RELAY NEURONS OF THE LATERAL GENICULATE NUCLEUS  
*Xufeng Chen, Jakob von Engelhardt, Heidelberg*
- T6-9B** INTRACELLULAR CA<sup>2+</sup>/CALMODULIN MODULATES KVβ1.1-INDUCED INACTIVATION OF KV CHANNELS  
*Sandip Madhusudan Swain, Nirakar Sahoo, Sophie Denhardt, Roland Schönherr, Stefan H. Heinemann, Jena*

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- T6-10B** PERSISTENT DISCHARGES IN DENTATE GYRUS PERISOMA-INHIBITING INTERNEURONS REQUIRE HCN CHANNEL ACTIVATION  
*Claudio Elgueta, Johannes Köhler, Marlene Bartos, Freiburg Im Bresigau*
- T6-1C** INTRACELLULAR SODIUM CHANGES MEDIATED BY THE ELECTROGENIC SODIUM-BICARBONATE CO-TRANSPORTER NBCE1 IN MOUSE CORTICAL ASTROCYTES.  
*Zinnia Naoshin, Shefteeq M. Theparambil, Joachim W. Deitmer, Kaiserslautern*
- T6-2C** MECHANISMS OF KCC2-MEDIATED NEUROPROTECTION  
*Marcus Semtner, Aline Winkelmann, Jochen C. Meier, Berlin*
- T6-3C** MOTONEURON FUNCTION IN DROSOPHILA IS SHAPED BY CACOPHONY (CA<sub>v</sub>2) CALCIUM CHANNEL POST-TRANSCRIPTIONAL MODIFICATIONS  
*Stefanie Ryglewski, Mainz*
- T6-4C** MULTIPLE CA<sup>2+</sup> CHANNEL DEPENDENT COMPONENTS IN GROWTH-HORMONE SECRETION FROM MALE RAT ANTERIOR PITUITARY SOMATOTROPHS  
*Itzhak Nussinovitch, Elad Sosial, Jerusalem, Israel*
- T6-5C** MUTATIONS IN GABRA3 CAUSE X-LINKED IDIOPATHIC EPILEPSY  
*Cristina Elena Niturad, Esther Leshinsky, Dorit Lev, Pasquale Striano, Federico Zara, Holger Lerche, Tally Sagie, Snezana Maljevic, Tübingen*
- T6-6C** NEOCORTICAL NEURONS POSSESS TWO DISTINCT PERSISTENT SODIUM CURRENTS WITH DIFFERENT VOLTAGE DEPENDENCE AND DIFFERENT UNDERLYING MECHANISM OF GENERATION  
*Ilya A. Fleidervish, Michael J. Gutnick, Efrat Lasser-Katz, Beer-Sheva, Israel*
- T6-7C** PHYSIOLOGY AND ION CHANNEL EXPRESSION OF AXONS OF AMYGDALA PROJECTION NEURONS  
*Jan Gründemann, Verena Senn, Andreas Lüthi, Basel, Switzerland*
- T6-8C** RECIPROCAL MODULATION OF CA<sub>v</sub>2.3 VOLTAGE-GATED CA<sup>2+</sup> CHANNELS BY COPPER(II) IONS AND KAINIC ACID.  
*Felix Neumaier, Isha Akhtar, Maxine Dibué-Adjei, Jürgen Hescheler, Toni Schneider, Cologne*
- T6-9C** REGULATION OF INTRACELLULAR H<sup>+</sup> FROM ALKALOSIS IN CORTICAL ASTROCYTES IS MEDIATED BY THE ELECTROGENIC SODIUM-BICARBONATE COTRANSPORTER NBCE1  
*Mohammed Shefteeq Theparambil, Joachim W. Deitmer, Kaiserslautern*
- T6-1D** RYANODINE RECEPTOR ACTIVATION INDUCES LONG-TERM PLASTICITY OF SPINE CALCIUM DYNAMICS.  
*Friedrich Jochenning, Anne-Kathrin Theis, Ulrike Pannasch, Martin Rückl, Sten Rüdiger, Dietmar Schmitz, Berlin*
- T6-2D** SELECTIVE ABLATION OF IONOTROPIC GLUTAMATE RECEPTOR SUBUNITS 2 AND 4 IN HORIZONTAL CELLS OF THE MOUSE RETINA  
*Sebastian Swirski, Karin Dedek, Ulrike Janssen-Bienhold, Oldenburg*
- T6-3D** SEVERAL POTASSIUM CONDUCTANCES MODULATE ACTION POTENTIAL KINETICS AND DISCHARGE PATTERNS IN GFP-EXPRESSING INTERNEURONS (GIN) IN THE MOUSE CINGULATE CORTEX.  
*Therese Riedemann, Bernd Sutor, Munich*
- T6-4D** STIM1 CONTROLS NEURONAL CA<sup>2+</sup> SIGNALING AND MGLUR1/TRPC3-DEPENDENT SYNAPTIC TRANSMISSION IN CEREBELLAR PURKINJE CELLS  
*Arjan Dijke, Jana Hartmann, Arthur Konnerth, München*

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- T6-5D** SURFACE MOBILITY OF  $\alpha 2\delta$ -SUBUNITS WITHIN THE NEURONAL MEMBRANE  
*Anna Maria Ciurasczkiewicz, Magdeburg*
- T6-6D** TRANSIENT RECEPTOR POTENTIAL MELASTATIN-3 (TRPM3)-INDUCED ACTIVATION OF AP-1 REQUIRES  $Ca^{2+}$  IONS AND THE TRANSCRIPTION FACTORS C-JUN, ATF2, AND TCF  
*Andrea Lesch, Gerald Thiel, Homburg*
- T6-7D** TRPV1 REGULATES INNERVATION IN THE HIPPOCAMPUS  
*Joaquin Isaac Hurtado Zavala, Saheeb Ahmed, Camin Dean, Goettingen*
- T6-8D** TYRAMINE FUNCTIONS AS A NEUROMODULATOR OF *DROSOPHILA* LARVAL MOTONEURONS  
*Natalie Christine Schützler, Carsten Duch, Stefanie Ryglewski, Mainz*
- T6-9D** VOLTAGE-GATED CALCIUM CHANNELS IN THE MOUSE SCIATIC NERVE  
*Ruxandra Barzan, Nicole Fröhlich, Daniela Eissler, Maria Kukley, Tübingen*
- T7-1A** A POINT MUTATION ABOLISHES THE TARGETING OF MOVER TO PRESYNAPTIC TERMINALS.  
*Asha Kiran Akula, Saheeb Ahmed, Camin Dean, Thomas Dresbach, Göttingen*
- T7-2A** ACTIONS OF FLUOXETINE (PROZAC) ON BEHAVIOR AND NEURONAL FUNCTION  
*Sandra Larissa Elena Blümich, Kyle Ritter, Zana R. Majeed, Jonathan Robinson, Eugen Brailoiu, Robin L. Cooper, Leipzig*
- T7-3A** ADF/COFILIN IN SYNAPSE PHYSIOLOGY AND MOUSE BEHAVIOR  
*Marco Rust, Andreas Görlich, Anika-Maria Zimmermann, Michael Wolf, Marco Sassoè-Pognetto, Christine Gurniak, Eckhard Friauf, Walter Witke, Marburg*
- T7-4A** ALTERATION IN DENDRITIC SPINE MORPHOLOGY AND SYNAPTIC RECEPTOR COMPOSITION IN RICH2 KNOCK-OUT MICE  
*Tasnuva Sarowar, Stefanie Grabrucker, Juergen Bockmann, Tobias M. Boeckers, Andreas M. Grabrucker, Ulm*
- T7-5A** BDNF RECRUITMENT TO OPTOGENETICALLY ACTIVATED REGIONS AND ITS TRANSFER TO NEIGHBOURING CELLS  
*Markus A. Stahlberg, Karl Deisseroth, Stefan W. Hell, Camin Dean, Göttingen*
- T7-6A** CALCIUM CHANNEL MOBILITY WITHIN THE PRESYNAPTIC MEMBRANE  
*Martin Heine, Romy Schneider, Eric Hosy, Johannes Kohl, Yulia Klueva, Daniel Choquet, Ulrich Thomas, Andreas Voigt, Magdeburg*
- T7-7A** COMPLEXINS 3 AND 4 ACT AS FUSION CLAMP AND REGULATE VESICLE AVAILABILITY AT PHOTORECEPTOR RIBBON SYNAPSES IN MOUSE RETINA  
*Johann Helmut Brandstätter, Anna Sendelbeck, Andreas Feigenspan, Michaela Fuchs, Norbert Babai, Kerstin Reim, Erlangen*
- T7-8A** DELETION OF THE TRYPTOPHAN-RICH BASIC PROTEIN WRB CAUSES PROGRESSIVE HEARING IMPAIRMENT IN MICE  
*Tina Pangrsic, Iliana Panou, Christian Vogl, Gulnara Yamanbaeva, Carolin Wichmann, Artur Indzhukulian, Shuh-Yow Lin, Sonja Wojcik, Nicola Strenzke, David Corey, Tobias Moser, Göttingen*
- T7-9A** DEPolarizing GABA ORCHESTRATES INHIBITION IN DEVELOPING MOUSE NEOCORTEX *IN VIVO*  
*Knut Kirmse, Michael Kummer, Yury Kovalchuk, Otto W. Witte, Olga Garaschuk, Knut Holthoff, Jena*
- T7-10A** DIFFUSION OF SODIUM SIGNALS IN SPINY DENDRITES



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*Christian Kleinhans, Karl W. Kafitz, Christine R. Rose, Düsseldorf*

- T7-1B** DIFFUSION VERSUS EXTRUSION: MECHANISMS FOR RECOVERY FROM SODIUM LOADS IN MOUSE CA1 PYRAMIDAL NEURONS  
*Miguel Mondragão, Christine R. Rose, Düsseldorf*
- T7-2B** DYNAMIC FIDELITY CONTROL TO THE CENTRAL AUDITORY SYSTEM: SYNERGISTIC GLYCINE/GABAERGIC INHIBITION IN THE COCHLEAR NUCLEUS  
*Ivan Milenkovic, Jana Nerlich, Thomas Kuenzel, Christian Keine, Michael Burger, Rudolf Ruebsamen, Leipzig*
- T7-3B** ESTABLISHMENT OF APPROPRIATE METHODS FOR THE IDENTIFICATION OF PUTATIVE INTERACTION PARTNERS OF GLYCINE TRANSPORTER 2  
*Sabrina Marz, Jan Kullmann, Pascal Schalkowsky, Claudia Fecher-Trost, Eckhard Friauf, Kaiserslautern*
- T7-4B** HOMEOSTATIC CHANGES OF NEURONAL EXCITABILITY IN THE SOMATOSENSORY CORTEX OF MICE FOLLOWING TRAUMATIC BRAIN INJURY  
*Florie LE PRIEULT, Barbara IMBROSCI, Serge C. THAL, Kristin ENGELHARD, Thomas MITTMANN, Mainz*
- T7-5B** HOMEOSTATIC REGULATION OF FUNCTION IN SPECIFIC SUBTYPES OF GABAERGIC INTERNEURONS FOLLOWING FOCAL CORTICAL LESIONS  
*Thomas Mittmann, Angela Neitz, Barbara Imbrosci, Mainz*
- T7-6B** IMAGING EXOCYTOSIS AND CA<sup>2+</sup> INFLUX AT INDIVIDUAL INNER HAIR CELL RIBBON SYNAPSES  
*Stefanie Krinner, SangYong Jung, Tobias Moser, Göttingen*
- T7-7B** LOCAL POSTSYNAPTIC SODIUM CHANNEL ACTIVATION IN DENDRITIC SPINES OF OLFACTORY BULB GRANULE CELLS  
*Wolfgang Georg Bywalez, Vanessa Rupprecht, Dinu Patirniche, Martin Stemmler, Andreas Herz, Balázs Rózsa, Gergely Katona, Veronica Egger, Planegg-Martinsried*
- T7-8B** LOCALIZATION AND QUANTIFICATION OF THE PRESYNAPTIC PROTEIN BRUCHPILOT IN THE HONEYBEE CENTRAL BRAIN AND IN SUBCOMPARTMENTS OF MUSHROOM BODY LIP BOUTONS  
*Katrin B. Gehring, Karin Heufelder, Christine Quentin, Isabella Kersting, Stephan Sigrist, Dorothea Eisenhardt, Berlin*
- T7-9B** MECHANISMS OF SYNAPTIC VESICLE RELEASE STUDIED AT SINGLE ACTIVE ZONES  
*Chao-Hua Huang, Hideki Takago, Tobias Moser, Goettingen*
- T7-10B** MIRNA-96 ALTERS INFORMATION TRANSFER AT A CENTRAL AUDITORY SYNAPSE  
*Christina Berger, Tina Schlüter, Hans Gerd Nothwang, Felix Felmy, Planegg-Martinsried*
- T7-1C** MODULATION OF NEUROTRANSMITTER RELEASE BY ENDOGENOUS AMYLOID BETA IN PHYSIOLOGICAL CONCENTRATION INVOLVES MOLECULAR REMODELING OF PRESYNAPTIC RELEASE APPARATUS  
*Anna Fejtova, Vesna Lazarevic, Maria Andres-Alonso, Magdeburg*
- T7-2C** MOVER: A NEW PLAYER IN SYNAPTIC STRENGTH  
*Julio Santos Viotti, Thomas Dresbach, Göttingen*
- T7-3C** NANO-ARCHITECTURE OF PRESYNAPTIC P/Q-TYPE CALCIUM CHANNELS IN PARVALBUMIN-EXPRESSING HIPPOCAMPAL BASKET CELLS  
*Akos Kulik, Daniel Althof, Masahiko Watanabe, Freiburg*

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- T7-4C** NEW GENETIC TOOLS FOR THE ANALYSIS OF GABA AND GLYCINE CO-TRANSMITTING NEURONS  
*Stefanie Besser, Marit Sicker, Ulrike Winkler, Swen Hülsmann, Johannes Hirrlinger, Leipzig*
- T7-5C** NOVEL FUNCTIONS OF C-JUN N-TERMINAL KINASES IN NEURONS  
*Stella-Amrei Kunde, Nils Rademacher, Sarah A. Shoichet, Berlin*
- T7-6C** NOVEL GROUP OF NEURON BOUND EXTRACELLULAR METALLOPEPTIDASES (NEMPS) LOCATED IN THE SYNAPTIC AREA  
*Mark I. Mosevitsky, Ekaterina S. Kropotova, Gatchina, Russia*
- T7-7C** PHYSIOLOGICAL ROLE OF NLGN2 IN ANXIETY PROCESSING CIRCUITRY.  
*Olga Babaev, Hannelore Ehrenreich, Dilja Krueger- Burg, Goettingen*
- T7-8C** POTENTIAL BASIS FOR LOCAL FEEDBACK FROM HORIZONTAL CELLS TO CONES IN THE MOUSE RETINA  
*Camille Anastasia Chapot, Sinziana Pop, Robin Kemmler, Thomas Euler, Timm Schubert, Tuebingen*
- T7-9C** PRE- AND POSTSYNAPTIC FUNCTIONS OF THE VOLTAGE-DEPENDENT CA<sup>2+</sup>-CHANNEL DMCA1D (CA<sub>v</sub>1) IN *DROSOPHILA*  
*Aylin Klein, Dimitrios Kadas, Carsten Duch, Mainz*
- T7-10C** REGULATION OF PSD-95 COMPLEX ASSEMBLY  
*Nils Rademacher, Stella-Amrei Kunde, Sarah A. Shoichet, Berlin*
- T7-11C** RIM PROTEINS AT THE PHOTORECEPTOR RIBBON SYNAPSE  
*Martina Löhner, Jenny Atorf, Norbert Babai, Jan Kremers, Susanne Schoch, Elena Alvarez-Baron, Johann H. Brandstätter, Hanna Regus-Leidig, Erlangen*
- T7-1D** ROLE OF BASSOON IN THE REGULATION OF NEUROTRANSMITTER RELEASE  
*Carolina Montenegro Venegas, Eneko Pina, Claudia Marini, Eckart Gundelfinger, Anna Fejtova, Magdeburg*
- T7-2D** SYNCHRONOUS EPILEPTIC ACTIVITY BETWEEN CA1 AND CA3 HIPPOCAMPUS DURING POSTSYNAPTIC BLOCKADE OF GLUTAMATE AND GABA RECEPTORS.  
*Olha Zapukhliak, Olga Netsyk, Arthur Romanov, Olena Isaeva, Oleg Krishtal, Dmytro Isaev, Kyiv, Ukraine*
- T7-3D** THE MORPHOLOGICAL AND MOLECULAR NATURE OF SYNAPTIC VESICLE PRIMING AT PRESYNAPTIC ACTIVE ZONES  
*Cordelia Imig, Sang-Won Min, Stefanie Krinner, Marife Arancillo, Christian Rosenmund, Thomas C. Südhof, JeongSeop Rhee, Nils Brose, Benjamin Cooper, Göttingen*
- T7-4D** TIGHT COUPLING BETWEEN CA<sup>2+</sup> SENSORS OF EXOCYTOSIS AND PRESYNAPTIC CA<sup>2+</sup> CHANNELS AT INNER HAIR CELL RIBBON SYNAPSES  
*Mantas Gabrielaitis, Aaron B Wong, Tina Pangrsic, Mark A Rutherford, Carolin Wichmann, Fred Wolf, Tobias Moser, Goettingen*
- T7-5D** TYPE OF INHIBITORY TRANSMITTERS DISTINGUISHES RESPONSES TO ANOXIA IN FRAGILE AND NON-FRAGILE MOTOR NEURONS IN RATS  
*Yu Kono, Satoshi Takagi, Masashi Nagase, Soichiro Mochio, Fusao Kato, Tokyo, Japan*
- T7-6D** ULTRASTRUCTURAL DETERMINATION OF DYNAMIC VESICLE POOLS AT INNER HAIR CELL RIBBON SYNAPSES  
*Carolin Wichmann, Susann Michanski, Christian Vogl, Rituparna Chakrabarti, SangYong Jung, Tanja Maritzen, Volker Haucke, Tobias Moser, Göttingen*

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- T7-7D** VERTEBRATE-SPECIFIC PRESYNAPTIC PROTEIN MOVER CONTROLS RELEASE PROBABILITY AT THE CALYX OF HELD  
*Christoph Körber, Darius Schwenger, Thomas Kremer, Thomas Dresbach, Thomas Kuner, Heidelberg*
- T7-8D** VESICULAR REPLENISHMENT IN COCHLEAR INNER HAIR CELLS OPERATES WITHOUT MUNC13 AND CAPS PRIMING PROTEINS  
*Christian Vogl, Benjamin H. Cooper, Jakob Neef, Sonja M. Wojcik, Kerstin Reim, Ellen Reisinger, Nils Brose, JeongSeop Rhee, Tobias Moser, Carolin Wichmann, Goettingen*
- T7-9D** VESICULAR SYNAPTOBREVIN2/VAMP2 LEVELS GUARDED BY AP180 CONTROL EFFICIENT NEUROTRANSMISSION  
*Gaga Kochlamazashvili, Seong Joo Koo, Benjamin Rost, Dmytro Puchkov, Niclas Gimber, Martin Lehmann, Georgi Tadeus, Jan Schmoranzler, Christian Rosenmund, Volker Haucke, Tanja Maritzen, Berlin*
- T7-10D**  $\alpha$ 5-GABA<sub>A</sub> RECEPTORS REGULATE DENDRITIC INTEGRATION IN CA1 PYRAMIDAL NEURONS  
*Jan Michael Schulz, Maria-Clemencia Hernandez, Josef Bischofberger, Basel, Switzerland*
- T7-11D** SYNAPTIC PROPERTIES OF SOM- AND CCK-EXPRESSING CELLS IN DENTATE GYRUS INTERNEURON NETWORKS.  
*Shakuntala Savanthrapadian, Thomas Meyer, Claudio Elgueta, Marlene Bartos, Freiburg*
- T8-1A** A HIGH CONTENT *IN VITRO* SCREEN FOR MEASURING REGULATION OF SYNAPTIC STRUCTURE/FUNCTION BY SMALL MOLECULES  
*Judith Rudolph, Kerstin Kellner, Isabell Cardaun, Karsten Kottig, Christina Thiede, Kenneth Young, Heinz von der Kammer, Hamburg*
- T8-2A** A TRANSGENIC MOUSE MODEL (BLEV) FOR VISUALIZATION OF THE DIFFERENTIAL USAGE OF BDNF EXON IV AND VI IN THE LIVING ORGAN  
*Wibke Singer, Eleonora Passeri, Hyun-Soon Geisler, Da Guo, Florian Mayer, Jing Hu, Verena Bautze, Jörg Strotmann, Ulrike Zimmermann, Lukas Rüttiger, Rama Panford-Walsh, Marlies Knipper, Tübingen*
- T8-4A** ACTIVITY DEPENDENT MODULATION OF ECM BY EXTRACELLULAR PROTEOLYSIS  
*Jeet Bahadur singh, M.J.C. Valenzuela, E.D. Gundelfinger, C.I. Seidenbecher, Renato Frischknecht, Magdeburg*
- T8-5A** ACTIVITY-DEPENDENCE AND TARGET SPECIFICITY OF SYNAPSE FORMATION DURING LONG-TERM POTENTIATION  
*Cvetalina Nikolaeva Coneva, Tobias Bonhoeffer, Tobias Rose, Martinsried*
- T8-6A** CIRCUIT ANALYSIS OF FUNCTIONALLY CHARACTERIZED NEURONS IN THE VISUAL CORTEX OF MICE  
*Simon Weiler, Tobias Rose, Mark Hübener, Tobias Bonhoeffer, Volker Scheuss, Martinsried*
- T8-7A** CONTRIBUTION OF CALCIUM-INDUCED CALCIUM RELEASE TO SYNAPTIC PLASTICITY AT THE MOSSY FIBER SYNAPSE  
*Urban Maier, Alexander Drakew, Michael Frotscher, Hamburg*
- T8-8A** DEVELOPMENT AND SPIKE-TIME DEPENDENT PLASTICITY OF INHIBITION IN A BINAURAL E/I NUCLEUS  
*Brice Bouhours, Enida Gjoni, Ralf Schneggenburger, Lausanne, Switzerland*
- T8-9A** DIFFERENT FORMS OF TIMING-DEPENDENT LTP CAN COEXIST AT CA3-CA1 HIPPOCAMPAL SYNAPSES  
*Elke Edelmann, Efrain Cepeda-Prado, Volkmar Leßmann, Magdeburg*
- T8-10A** DIFFERENTIAL CONTRIBUTION OF MATRIX METALLOPROTEINASES 3 AND 2/9 TO LONG-TERM POTENTIATION OF NMDAR-MEDIATED FIELD POTENTIALS AND LTP IN BASAL VS APICAL DENDRITES IN MOUSE CA1 HIPPOCAMPAL REGION.  
*Tomasz Wojtowicz, Patrycja Brzdak, Jerzy W. Mozrzymas, Wroclaw, Poland*

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- T8-1B** DYNEIN LIGHT CHAIN - AN ESSENTIAL FACTOR FOR GEPHYRIN CLUSTERING  
*Vanessa Kress, Günter Schwarz, Cologne*
- T8-2B** ENDOPLASMIC RETICULUM DYNAMICS AND SPINE STRUCTURAL PLASTICITY ARE CORRELATED  
*Alberto Perez Alvarez, Shuting Yin, Wolfgang Wagner, John A Hammer III, Thomas G Oertner, Hamburg*
- T8-3B** GAD65-SPECIFIC ANTIBODY EFFECTS ON SYNAPTIC PLASTICITY IN HIPPOCAMPAL ORGANOTYPIC SLICES  
*Paula Pacj, Laurence Ris, Mons, Belgium*
- T8-4B** GROWTH FACTOR RECEPTOR BOUND-PROTEIN 2 IS ESSENTIAL FOR SOCIAL LONG-TERM RECOGNITION MEMORY FORMATION  
*Judith Camats Perna, Thomas Schlüter, Kristina Langnäse, Thomas Endres, Rita Murau, Volkmar Leßmann, Lars Nitschke, Oliver Stork, Klaus-Dieter Fischer, Mario Engelmann, Magdeburg*
- T8-5B** HIPPOCAMPAL SYNAPTIC PLASTICITY CAN BE INDUCED VIA PATTERNED AFFERENT STIMULATION OF THE PRIMARY OLFACTORY CORTEX  
*Christina Strauch, Denise Manahan-Vaughan, Bochum*
- T8-6B** IMPAIRED SHORT-TERM PLASTICITY IN THE HIPPOCAMPUS OF SPHINGOSINE-1-PHOSPHATE LYASE DEFICIENT MICE  
*André Deutschmann, Daniel N. Mitroji, Maren Raucamp, Michael Hans, Jochen Walter, Gerhild van Echten-Deckert, Dieter Swandulla, Bonn*
- T8-7B** INTERPLAY BETWEEN THE DOPAMINERGIC SYSTEM AND THE EXTRACELLULAR MATRIX IN TERMS OF LEARNING  
*Jessica Mitlöhner, Constanze Seidenbecher, Renato Frischknecht, Alexander Dityatev, Magdeburg*
- T8-8B** LACK OF TYPE 1 IFN RECEPTOR AFFECTS SYNAPTIC PLASTICITY IN MOUSE HIPPOCAMPUS  
*Gayane Grigoryan, Shirin Hosseini, Chintan Chhatbar, Wiebke Arendt, Kristin Michaelsen-Preusse, Ulrich Kalinke, Martin Korte, Braunschweig*
- T8-9B** LIGHT-INDUCIBLE TRANSCRIPTOMIC AND EPIGENOMIC CHANGES UNDERLYING BRAIN PLASTICITY IN HONEYBEES  
*Nils Becker, Robert Kucharski, Sylvain Foret, Ryszard Maleszka, Wolfgang Rössler, Würzburg*
- T8-1C** LONG-TERM PLASTICITY AND FEAR LEARNING IN ADULT HETEROZYGOUS BDNF KNOCKOUT MICE  
*Susanne Meis, Thomas Endres, Thomas Munsch, Volkmar Lessmann, Magdeburg*
- T8-2C** LONG-TERM POTENTIATION IN PERFORANT-PATH DENTATE GYRUS SYNAPSES OF FREELY BEHAVING RATS REQUIRES ACTIVATION OF  $\beta$ -ADRENERGIC RECEPTORS  
*Niels Hansen, Anne Kemp, Hardy Hagena, Denise Manahan-Vaughan, Bochum*
- T8-3C** MECHANISMS REGULATING CTBP1 NUCLEO-CYTOPLASMIC FUNCTIONS  
*Anika Dirks, Daniela Ivanova, Eckart D. Gundelfinger, Anna Fejtová, Magdeburg*
- T8-4C** METHYLPHENIDATE AMPLIFIES LONG-TERM POTENTIATION IN RAT HIPPOCAMPUS INVOLVING  $\beta$ -ADRENERGIC AND D1/D5 RECEPTORS AND INSERTION OF AMPA RECEPTORS  
*Bernardo Enrique Morales, Claudia Carvallo, Carlos Rozas, Darwin Contreras, Mario Carreño, Gonzalo Ugarte, Marc Leander Zeise, Santiago, Chile*
- T8-5C** METHYLPHENIDATE INDUCES LONG-LASTING METAPLASTIC CHANGES IN THE RAT PREFRONTAL CORTEX  
*Marc Leander Zeise, Héctor Burgos, Rocio Agurto, Christian Cofré, Patricio Saez, Alejandro Hernández, Bernardo Morales, Santiago, Chile*

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- T8-6C** MOLECULAR MECHANISMS MEDIATING THE SPECIFIC EFFECTS OF BDNF-TRKB SIGNALING IN HIPPOCAMPAL NEURONS  
*Nina Gödecke, Anita Remus, Marta Zagrebelsky, Martin Korte, Braunschweig*
- T8-7C** PHENOTYPIC SYNAPTIC PLASTICITY IN THE BRAIN OF THE NECTAR-FEEDING ANT *CAMPONOTUS RUFIPES*  
*Annekathrin Lindenberg, Wolfgang Rössler, Claudia Groh, Würzburg*
- T8-8C** ROLE OF HISTONE-METHYLTRANSFERASES IN LEARNING AND MEMORY  
*Cemil Kerimoglu, Susanne Burkhardt, Eva Benito-Garagorri, Ana Martinez-Hernandez, Jerzy Dyczkowski, Andre Fischer, Göttingen*
- T8-9C** ROLE OF THE SYNAPTIC VESICLE PROTEIN MOVER AT BUSHY CELL SYNAPSES  
*Friederike Wetzel, Thomas Dresbach, Göttingen*
- T8-1D** SPIKE TIMING-DEPENDENT PLASTICITY: CONTRIBUTION OF THE NUMBER OF SPIKE PAIRINGS IN SYNAPTIC MODIFICATION AT SCHAFFER COLLATERAL-CA1 SYNAPSES.  
  
*Efrain Cepeda-Prado, Leßmann Volkmar, Elke Edelmann, Magdeburg*
- T8-2D** SYNAPTIC PLASTICITY AND THE SPINE APPARATUS  
*Alexander Drakew, Anja Tippmann, Urban Maier, Michael Frotscher, Hamburg*
- T8-3D** SYNAPTOTAGMIN3 CONTROLS ENDOCYTOSIS OF POST-SYNAPTIC RECEPTORS TO AFFECT SYNAPTIC PLASTICITY.  
*Ankit Awasthi, Saheeb Ahmed, Binu Ramachandran, Yo Shinoda, Henrik Martens, Carolin Wichmann, Camin Dean, Goettingen*
- T8-4D** THE APP INTERACTING PROTEIN FAMILY FE65 REVEALS A CRUCIAL ROLE FOR SYNAPTIC FUNCTION AND PLASTICITY  
*Susann Ludewig, Ulrike Herrmann, Meike Hick, Paul Strecker, Ulrike Müller, Suzanne Guenette, Stefan Kins, Martin Korte, Braunschweig*
- T8-5D** THE EFFECT ON THE FIELD POTENTIALS FROM THE HIPPOCAMPUS OF BAD-BAD&#253; EXTRACT (SOLANACEA SPECIES): IS THERE A CONTRIBUTION ON THE MEMORY?  
  
*Yalcin Yetkin, Mehmet A. Pak, Van, Turkey*
- T8-6D** THE EFFECTS OF ALBUMIN ON PLASTICITY CHANGES IN THE HIPPOCAMPUS AND ON RESPONSE TO ANTIPILEPTIC DRUGS IN THE ENTORHINAL CORTEX  
*Seda Salar, Ezequiel Lapilover, Julia Müller, Alon Friedman, Uwe Heinemann, Berlin*
- T8-7D** THE NEURAL CELL ADHESION MOLECULE-ASSOCIATED POLYSIALIC ACID REGULATES SYNAPTIC PLASTICITY IN THE MOUSE PREFRONTAL CORTEX  
*Hristo Varbanov, Gaga Kochlamazashvili, Herbert Hildebrandt, Alexander Dityatev, Magdeburg*
- T8-8D** THE ROLE OF METABOTROPIC GLUTAMATE RECEPTORS IN DIFFERENT FORMS OF SYNAPTIC PLASTICITY IN VITRO.  
*Amira Latif-Hernandez, Enrico Faldini, Tariq Ahmed, Detlef Balschun, Leuven, Belgium*
- T8-9D** TIME-RESTRICTED IMPACT OF MATRIX METALLOPROTEASE 3 ACTIVITY ON LONG-TERM PLASTICITY OF NMDARS-MEDIATED SYNAPTIC TRANSMISSION AND LTP IN APICAL AND BASAL DENDRITES IN MOUSE CA1 HIPPOCAMPAL REGION.  
*Patrycja Brzdak, Jerzy W. Mozrzymas, Tomasz Wojtowicz, Wroclaw, Poland*

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- T8-10D** ACTIVATION OF THE METABOTROPIC GLUTAMATE RECEPTOR MGLU5 DETERMINES THE DIRECTION OF SYNAPTIC PLASTICITY AT MOSSY FIBER – CA3 AND ASSOCIATIONAL/COMMISSURAL – CA3 SYNAPSES  
*Hardy Hagena, Denise Manahan-Vaughan, Bochum*
- T9-1A** A PHOTOACTIVATBLE CRE SYSTEM BASED ON A CAGED TAMOXIFEN ANALOG FOR PERMANENT GENETIC MANIPULATION OF CELLS IN THE BRAIN  
*Sidney Cambridge, Betsi Flores, Ludovic Jullien, Alexandre Specht, Heidelberg*
- T9-2A** ACTIVITY-DEPENDENT REGULATION OF SODIUM/BICARBONATE CO-TRANSPORTER 1, NBCE1, IN RODENT HIPPOCAMPUS AND CORTEX  
*Eleni Roussa, Magdalena Schrödl-Häußel, Freiburg*
- T9-3A** ASTROCYTIC NEURONAL LACTATE SHUTTLE: FUEL SUBSTRATE FOR MAINTENANCE OF IONIC HOMEOSTASIS IN RAT HIPPOCAMPUS  
*Eskedar Ayele Angamo, Uwe Heinemann, Berlin*
- T9-4A** ASTROGLIOSIS: CHANGES IN POTASSIUM BUFFERING IN ALZHEIMER'S  
*Lana M Osborn, Lieneke Kooijman, Willem Kamphuis, Elly M Hol, Wytse J Wadman, Amsterdam, Netherlands*
- T9-1B** ATP SENSING AND DYNAMICS IN BRAIN CELLS  
*Ulrike Winkler, Andrea Trevisiol, Pauline Seim, Yvonne Enzbrenner, Aiman S. Saab, Klaus-Armin Nave, Johannes Hirrlinger, Leipzig*
- T9-2B** CHARACTERIZATION OF PANGLIAL NETWORKS IN BARRELOIDS OF THE MURINE JUVENILE THALAMUS  
*Lena Claus, Stephanie Griemsmann, Ronald Jabs, Christian Henneberger, Christian Steinhäuser, Bonn*
- T9-3B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF ION CHANNELS IN ASTROCYTES PROLIFERATING IN RESPONSE TO ACUTE BRAIN INJURY  
*Stefanie Götz, Lars Kunz, Benedikt Grothe, Magdalena Götz, Planegg-Martinsried*
- T9-4B** FUNCTIONAL ROLE OF PRESYNAPTIC NMDA RECEPTORS DURING THE INDUCTION OF LONG-TERM DEPRESSION AT NEOCORTICAL L4-L2/3 SYNAPSES IN JUVENILE RATS  
*Florian B. Neubauer, Rogier Min, Thomas Nevian, Bern, Switzerland*
- T9-5B** HETEROGENEOUS GAP JUNCTIONAL COUPLING OF ASTROCYTES IN THE AUDITORY BRAINSTEM  
*Jonathan Stephan, Simon Wadle, Charlotte Bold, Philipp Naumann, Christian P. Moritz, Julia Langer, Christine R. Rose, Eckhard Friauf, Kaiserslautern*
- T9-1C** IMPACT OF NEURONAL ACTIVITY ON GLIAL ENERGETIC METABOLITES AS DETERMINED WITH GENETICALLY ENCODED FRET-BASED NANOSENSORS IN ORGANOTYPIC MOUSE HIPPOCAMPAL SLICES  
*Iván Ruminot, Jana Schmaelzle, Alejandro San Martin, Sebastián Ceballo, L. Felipe Barros, Joachim W. Deitmer, Kaiserslautern*
- T9-2C** LACTATE SUPPORTS SODIUM HOMEOSTASIS OF NEURONS, BUT NOT OF ASTROCYTES, UNDER METABOLIC STRESS IN THE MOUSE HIPPOCAMPUS  
*Daniel Ziemens, Claudia Karus, Christine R. Rose, Düsseldorf*
- T9-3C** MICROGLIA COMPRISE FUNCTIONALLY DISTINCT CELLULAR SUBSETS WITH SPECIALIZED PHAGOCYTOTIC CAPACITY  
*Alexander Adalbert Götz, Angela Borisch, Martin Weber, Uwe-Karsten Hanisch, Göttingen*
- T9-4C** SOLULBLE NEUREGULIN-1 MODULATES DISEASE PATHOGENESIS IN RODENT MODELS OF CHARCOT-MARIE-

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### TOOTH DISEASE 1A

*Robert Fledrich, Ruth M. Stassart, Klink A, Thomas Prukop, Tamer A. M. Abdelaal, Christine Stadelmann, Wolfgang Brück, Klaus-Armin Nave, Michael W. Sereda, Göttingen*

- T9-1D** THE ROLE OF MYELIN IN COGNITIVE PROCESSING: DIRECTION AND STRENGTH OF LATERALIZATION.  
*Livia de Hoz, Klaus-Armin Nave, Sharlen Moore, Goettingen*
- T9-2D** THE ROLE OF MYELIN IN TEMPORAL AND SPECTRAL PROCESSING IN THE AUDITORY SYSTEM  
*Sharlen Yared Moore Corona, Klaus-Armin Nave, Livia de Hoz, Goettingen*
- T9-3D** THE ROLE OF THE MONOCARBOXYLATE TRANSPORTERS (MCTS) IN NEURONS AND ASTROCYTES IN THE UPTAKE OF KETONE BODIES  
*Linda S. Forero Quintero, L.F Barros, H.M. Becker, J.W. Deitmer, Kaiserslautern*
- T9-4D** TIGHT JUNCTION BARRIERS IN THE FIBER LAYER OF THE FISH RETINA  
*Lidia Garcia Pradas, Corinna Gleiser, Andrea Wizenmann, Hartwig Wolburg, Andreas F Mack, Tübingen*
- T9-5D** WATER DEPRIVATION INDUCED NEURO-ASTROCYTIC INTERACTIONS IN BOTH SUPRAOPTIC AND PARAVENTRICULAR NUCLEI OF HYPOTHALAMUS OF BRAIN MERIONES SHAWI WHICH IMPROVED THE CONTROL OF VASOPRESSIN ON KIDNEY WATER CHANNEL NAMED AQUAPORINES-2.  
*Abdeljalil ELGOT, Omar ELHIBA, Halima GAMRANI, Settat, Morocco*
- T10-1A** A NOVEL FORM OF INFANT-ONSET MITOCHONDRIOPATHY  
*Bianca Hartmann, Hao Hu, Nadine Kraemer, Luciana Musante, Björn Fischer, Hans-Hilger Ropers, Thomas Wienker, Christoph Huebner, Angela M. Kaindl, Berlin*
- T10-2A** ADVANCED PATERNAL AGE AS A RISK FACTOR FOR AUTISM: EFFECTS ON BEHAVIOR AND BRAIN MORPHOLOGY IN RATS AND HUMANS  
*Dominik Seffer, Axel Krug, Julius C. Eggebrecht, Henrike Rippberger, Bruno Dietsche, Heidelore Backes, Rainer K.W. Schwarting, Tilo Kircher, Markus Wöhr, Marburg*
- T10-3A** AUTISTIC-LIKE BEHAVIOR AND ALTERED NEUROTRANSMITTER LEVELS IN MICE LACKING THE POST-SYNAPTIC SCAFFOLDING PROTEIN *SHANK1*  
*A Özge Sungur, Magdalena CE Jochner, Elena Andres, Adriana del Rey, Rainer KW Schwarting, Markus Wöhr, Marburg*
- T10-4A** BDNF DELETION IN THE COCHLEA/LOWER BRAINSTEM LEADS TO CENTRAL PLASTICITY CHANGES OVER AGE  
*Dario Campanelli, Sze Chim Lee, Ksenya Varakina, Annalisa Zuccotti, Wibke Singer, Lukas Rüttiger, Thomas Schimmang, Marlies Knipper, Tübingen*
- T10-5A** CB1 RECEPTOR SIGNALING INFLUENCES ASTROGLIAL MORPHOLOGY AND DISTRIBUTION IN THE AGEING HIPPOCAMPUS  
*Andras Bilkei-Gorzo, Önder Albayram, Frank Ativie, Safak Hasan, Till Zimmer, Karsten Bach, Andreas Zimmer, Bonn*
- T10-6A** ULTRASONIC VOCALIZATIONS OF NEONATAL RATS PRENATALLY EXPOSED TO VALPROIC ACID.  
*Eva Bollen, Karolina Rojek, Piotr Popik, Krakow, Poland*
- T10-1B** EARLY TREATMENT OF AN M-CHANNEL EPILEPSY PHENOTYPE PREVENTS DISORDERED BEHAVIOR, BRAIN STRUCTURE AND ACTIVITY  
*Stephan Marguet, Quyen Le, Andrea Merseburg, Axel Neu, Fabio Morellini, Igor Jakovcevski, Dirk Isbrandt, Hamburg*

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- T10-2B** FUNCTIONAL ANALYSIS OF NOVEL COLLYBISTIN MISSENSE MUTATIONS ASSOCIATED WITH INTELLECTUAL DISABILITY  
*Philip Long, Victoria James, Maya Topf, Philipp Wesche, Kirsten Harvey, Robert Harvey, London, United Kingdom*
- T10-3B** GENE THERAPY IN FRAGILE X SYNDROME  
*David Richard Hampson, Shervin Gholizadeh, Jason Arsenault, Toronto, Canada*
- T10-4B** MODELING MORPHOLOGICAL AND FUNCTIONAL BRAIN DISEASES BY ABLATION OF I(H) DURING DEVELOPMENT  
*Andrea Merseburg, Anna Katharina Schlusche, Igor Jakovcevski, Steffi Sandke, Axel Neu, Dirk Isbrandt, Hamburg*
- T10-5B** MYELIN ABNORMALITIES IN MENTAL DISEASES: FOCUS ON MYELIN BASIC PROTEIN (MBP)  
*Giulia Poggi, Susann Boretius, Wiebke Möbius, Klaus-Armin Nave, Hannelore Ehrenreich, Göttingen*
- T10-6B** NOVEL ALTERNATIVE SPLICE VARIANTS OF MOUSE *CDK5RAP2* CAUSE A LACK OF MICROCEPHALY PHENOTYPE IN CONDITIONAL *CDK5RAP2* *LOXP/HCMV CRE* MUTANT MOUSE  
*Nadine Krämer, Lina Issa-Jahns, Gerda Neubert, Ethiraj Ravindran, Olaf Ninnemann, Angela M. Kaindl, Berlin*
- T10-1C** NOVEL MID-HINDBRAIN MALFORMATION, MICROCEPHALY, AND INTELLECTUAL DISABILITY  
*ETHIRAJ RAVINDRAN, Hao Hu, Nadine Kraemer, Olaf Ninnemann, Luciana Musante, Eugen Boltshauser, Detlev Schindler, Hans-Hilger Ropers, Thomas Wienker, Christoph Hubner, Angela M Kaindl, Berlin*
- T10-3C** PROBIOTIC BACTERIA PROTECTS DOPAMINERGIC NEURONS IN A ROTENONE MODEL OF PD IN RATS  
*Mohamed Moheb Elgamal, Mohamed Salama, Mohamed Alaa, Mahmoud Elkotb, Hussein Sheashaa, Mohamed Sobh, Mansoura, Egypt*
- T10-4C** RECOMBINANT HUMAN ERYTHROPOIETIN MODULATES NEUROGENESIS AND VASCULOGENESIS IN THE HYPOXIC MOUSE BRAIN DURING EARLY DEVELOPMENT  
*Mandy Richter-Kraus, Susan Jung, Florian Brackmann, Regina Trollmann, Erlangen*
- T10-5C** REELIN FUNCTION IN THE ADULT DENTATE GYRUS  
*Jasmine Pahle, Jo Kristin Welzel, Michael Frotscher, Bianka Brunne, Hamburg*
- T10-6C** SYNAPTIC PROTEINS AND THEIR RELATIONSHIP TO BRAIN AGING IN MALE AND FEMALE ZEBRAFISH (*DANIO RERIO*)  
*Michelle Marie Adams, Ayca Arslan-Ergul, Dilara Halim, Elif Karoglu, Bahriye Erkaya, Ferda Altaytas, Ozlen Konu, Ankara, Turkey*
- T10-7C** THE MULTIPLE ROLES OF REELIN IN NEURONAL MIGRATION AND LAYER FORMATION: BEYOND THE SIMPLISTIC VIEW  
*Nieves Mingo-Moreno, Rebecca Wallrafen, Jochen F. Staiger, Robin J. Wagener, Göttingen*
- T10-1D** THE EXPRESSION OF MYELIN-ASSOCIATED GENES IS REDUCED IN MILD FOCAL CORTICAL DYSPLASIA  
*Catharina Donkels, Dietmar Pfeifer, Susanne Huber, Julia Nakagawa, Vera van Velthoven, Astrid Weyerbrock, Josef Zentner, Carola A. Haas, Freiburg*
- T10-3D** THE NF2 TUMOR SUPPRESSOR PROTEIN MERLIN IN PERIPHERAL NERVE REGENERATION  
*Alexander Schulz, Stephan L. Baader, Andrey Irintchev, Otto .W Witte, Helen Morrison, Jena*
- T10-4D** THEORETICAL MODELING OF CEREBRAL ORGANOID: MICROCEPHALY AND THE GRIFFITHS SINGULARITY  
*Karen G. Petrosyan, Chin-Kun Hu, Taipei, Taiwan*
- T10-5D** TOUCHSCREEN-BASED VISUAL PAIRWISE DISCRIMINATION AND REVERSAL LEARNING IN THE PRIMATE BRAIN



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## AGING MODEL *MICROCEBUS MURINUS*

*Sandra Ammersdörfer, Daniel Schmidtke, Marine Joly, Elke Zimmermann, Hannover*

- T10-6D** VISUO-SPATIAL PAIRED ASSOCIATE LEARNING (PAL) IN A STREPSIRRHINE PRIMATE (*MICROCEBUS MURINUS*): NEW INSIGHTS INTO EARLY PRIMATE COGNITION FROM A COMPUTER-BASED LEARNING TASK  
*Daniel Schmidtke, Sandra Ammersdörfer, Elke Zimmermann, Hannover*
- T11-1A** <sup>201</sup>TLDDC-SPECT IMAGING OF ALTERATIONS IN CNS K<sup>+</sup>-METABOLISM IN MOUSE MODELS OF DEMENTIA  
*Anja M. Oelschlegel, Franziska Stöber, Daniel Vincenz, Henning Scheich, Ivayala Apostolova, Holger Amthauer, Klaus G. Reymann, Jürgen Goldschmidt, Magdeburg*
- T11-2A** ALTERED LOCALIZATION AND ABNORMAL MODIFICATIONS OF SIGMA RECEPTOR-1 IN AMYOTROPHIC LATERAL SCLEROSIS  
*ANAND GOSWAMI, Aachen*
- T11-3A** AMYLOID- $\beta$ -INDUCED NMDA-RECEPTOR SIGNALING TO THE NUCLEUS  
*Katarzyna Maria Grochowska, Julia Baer, Giriraj Sahu, Michael R. Kreutz, Magdeburg*
- T11-4A** AN ANIMAL MOUSE MODEL FOR RETINAL DEGENERATION REVEALS *CCDC66* TRANSGENE EXPRESSION OUTSIDE THE RETINA AND EXPRESSION PROFILING IDENTIFIES RETINAL DEGENERATION MARKER  
*Wanda Maria Gerding, Sabrina Schreiber, Benjamin Robertz, Amer Denis Akkad, Elisabeth Petrasch-Parwez, Jörg Thomas Epplen, Bochum*
- T11-5A** ATTEMPT TO PROVE THE ACETYLCHOLINE-DEPENDENT CHARACTER OF SUPPRESSION OF THE APOMORPHINE-INDUCED ROTATION RATE OF HEMIPARKINSONIAN RATS AFTER INTRASTRIATAL TREATMENT WITH BOTULINUM NEUROTOXIN-A AND EVIDENCE FOR THE POSSIBILITY OF REPEATED INTRASTRIATAL BONT-A TREATMENTS OF HEMIPARKINSONIAN RATS DURING 6 MONTHS  
*Alexander Hawlitschka, Eilhard Mix, Andreas Wree, Rostock*
- T11-6A** CHARACTERIZATION OF A HUMAN CELL CULTURE MODEL SYSTEM FOR STUDYING PARKINSON'S DISEASE  
*Katharina Pieger, Nadja Schröder, Norbert Babai, Janina Deußner, Jürgen Winkler, Johann Helmut Brandstätter, Erlangen*
- T11-7A** CHARACTERIZATION OF NEWLY IDENTIFIED REGULATORS OF PROTEIN HOMEOSTASIS IN MAMMALIAN CELLS  
*Albrecht M. Clement, Anna S. Besemer, Christian von Hilchen, Christian Behl, Mainz*
- T11-8A** CYCLODEXTRIN MIMICS ALTERATION OF INHIBITORY SYNAPTIC TRANSMISSION OBSERVED IN CA1 PYRAMIDAL CELLS OF NPC1 DEFICIENT MICE  
*Michael Rabenstein, Katja Bovensiepen, Arndt Rolfs, Moritz J. Frech, Rostock*
- T11-9A** DE- AND REMYELINATION IN METACHROMATIC LEUKODYSTROPHY  
*Klaudia Brysch, Matthias Eckhardt, Volkmar Gieselmann, Bonn*
- T11-10A** DECIPHERING THE BRAIN NON-CODING RNAOME LINKED TO COGNITIVE AGING AND ALZHEIMER'S DISEASE USING THE MOUSE AS MODEL ORGANISMS  
*Magdalena Navarro, Eva Benito, Andre Fischer, Göttingen*
- T11-11A** DELAYED FEEDBACK CONTROL OF PATHOLOGICAL NETWORK OSCILLATIONS  
*Ioannis Vlachos, Taskin Deniz, Arvind Kumar, Freiburg*
- T11-12A** DELETION OF MYOSIN VI CAUSES SLOW RETINAL OPTIC NEUROPATHY AND AGE-RELATED MACULAR DEGENERATION (AMD)-LIKE RETINAL PHENOTYPE

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*Timm Schubert, Corinna Gleiser, Peter Heiduschka, Christoph Franz, Kerstin Nagel-Wolfrum, Ayse Sahaboglu, Nicole Weisschuh, Gordon Eske, Karin Rohbock, Norman Rieger, Francois Paquet-Durand, Bernd Wissinger, Uwe Wolfrum, Bernhard Hirt, Wibke Singer, Lukas Rüttiger, Ulrike Zimmermann, Marlies Knipper, Tuebingen*

- T11-1B** DOES THE CYTOPLASMIC MEMBRANE LOCALIZED VOLTAGE-DEPENDENT ANION CHANNEL 1 (VDAC-1) PARTICIPATE IN HA-RAS-MEDIATED NEURONAL PROTECTION?  
*Sebastian Neumann, Konstantin Kuteykin-Teplyakov, Rolf Heumann, Bochum*
- T11-2B** EFFECTS OF ALPHA-SYNUCLEIN ON AXONAL TRANSPORT OF MITOCHONDRIA.  
*Alexander Böcker, Jan Koch, Mathias Bähr, Paul Lingor, Göttingen*
- T11-3B** EFFECTS OF STN-DBS ON THE AMPHETAMINE-INDUCED TURNING BEHAVIOR IN HEMI-PARKINSONIAN RAT MODEL  
*Pegah Azizi, Maria Mesch, Michael T Lippert, Kentaroh Takagaki, Magdeburg*
- T11-4B** EPIGENETIC PROFILING OF APP/PS1 MICE – A MOUSE MODEL FOR ALZHEIMER'S DISEASE  
*Michael Andre Gertig, André Fischer, Göttingen*
- T11-5B** EVIDENCE OF NUCLEOLAR STRESS IN GENETIC MODELS OF NEURODEGENERATIVE DISORDERS: FOCUS ON BASAL GANGLIA.  
  
*Rosanna Parlato, Valentin Evsyukov, Suzana Gispert, Falk Schlaudraff, Holger Bierhoff, Rasem Mustafa, Wolfgang Wurst, Birgit Liss, Ulm*
- T11-6B** EXPOSURES TO DAILY SOCIAL DEFEAT LEAD TO MOTOR IMPAIRMENT AND CALRETICULIN UPREGULATION. A RISK FACTOR FOR LATER-LIFE ONSET OF NEURODEGENERATIVE DISORDERS.  
*Jordi Tomas Roig, Göttingen*
- T11-7B** EXPRESSION AND FUNCTION OF INWARDLY RECTIFYING POTASSIUM CHANNEL IN ALS OLIGODENDROCYTES  
*Danijela Bogoljub Bataveljic, Ljiljana Nikolic, Mina Peric, Pavle Radoslav Andjus, Belgrade, Serbia Montenegro*
- T11-8B** EXPRESSION OF THE CYTOSKELETON PROTEIN VIMENTIN IS ALTERED IN NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC IPSC DERIVED CELLS  
*Franziska Runge, Michaela Trilck, Arndt Rolfs, Moritz J. Frech, Rostock*
- T11-9B** FEAR AND FEAR EXTINCTION LEARNING IN APP/PS1 MICE  
*Thomas Endres, Gloria Hölzl, Elke Edelmann, Volkmar Lessmann, Magdeburg*
- T11-10B** FIBROBLASTS AS AN ATTRACTIVE MODEL FOR THE EXPLORATION OF GLUCOCEREBROSIDASE DEFICIENCY IN PARKINSON'S DISEASE  
*Diana BEEKHAREE, Karim Belarbi, Kevin Saitoski, Bernard Gressier, Pierre Semaille, Guillemette Huet, Eugénie Mutez, Alexandre Kreisler, Alain Destée, Marie-Christine Chartier-Harlin, lille, France*
- T11-11B** FUNCTIONAL CHARACTERISATION OF NIEMANN-PICK TYPE C1 NEURONAL CELLS DERIVED FROM PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS  
*Moritz J. Frech, Sarah Joost, Michaela Trilck, Franziska Runge, Michael Rabenstein, Arndt Rolfs, Rostock*
- T11-12B** FUNCTIONAL PROPERTIES OF MICROGLIA IN MOUSE MODELS OF ALZHEIMER'S DISEASE  
*Nasrin Saiepour, Thomas A Bayer, Hendrikus W.G.M Boddeke, Uwe-Karsten Hanisch, Göttingen*
- T11-1C** HSP22 MEDIATES THE DIFFERENTIAL DEGENERATION OF DOPAMINERGIC MIDBRAIN NEURONS  
*Baozhu Zhang, Xinhua Zhang, Sen Li, Yanqing Yin, Jiawei Zhou, Shanghai, China*

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- T11-2C** INFLUENCE OF  $\alpha$ -SYNUCLEIN ON INTRACELLULAR LEVELS OF TRANSITION METALS  
*Eleonora Carboni, Stefan Roudeau, Lisa Barski, Lars Tatenhorst, Mathias Bähr, Asuncion Carmona, Richard Ortega, Paul Lingor, Göttingen*
- T11-3C** LABEL FREE QUANTITATIVE PROTEOMICS OF ASTROCYTES DIRECTLY CONVERTED TO NEURONS  
*Hendrik Schöneborn, Shariful Islam, Fabian Raudzus, Christina Rolfes, Marcus Krüger, Hermann Heumann, Koushik Chakrabarty, Sebastian Neumann, Rolf Heumann, Bochum*
- T11-4C** MIRNAS IN NEURITE OUTGROWTH AND REGENERATION OF MIDBRAIN NEURONS  
*Anna-Elisa Roser, Rashi Halder, Jerzy Dyczkowski, Mathias Bähr, André Fischer, Paul Lingor, Goettingen*
- T11-5C** MOLECULAR IMAGING OF CAV3.2-CHANNEL PROMOTER REGULATION IN HIPPOCAMPI OF LIVING MICE DURING EPILEPTOGENESIS  
*Rebecca Kulbida, Yipeng Wang, Eva-Maria Mandelkow, Susanne Schoch, Albert J. Becker, Karen M. J. van Loo, Bonn*
- T11-6C** NEURONAL DIFFERENTIATION OF NIEMANN-PICK TYPE C1 PATIENT-SPECIFIC INDUCED PLURIPOTENT STEM CELLS  
*Michaela Trilck, Sarah M. E. Joost, Franziska Runge, Arndt Rolfs, Moritz J. Frech, Rostock*
- T11-7C** POSTTRANSLATIONAL MODIFICATION AND MUTATION OF HISTIDINE 50 TRIGGER ALPHA-SYNUCLEIN AGGREGATION AND TOXICITY  
*Stefanie Menges, Johannes C. M. Schlachetzki, Holger Meixner, Cord-Michael Becker, Jürgen Winkler, Wei Xiang, Jochen Klucken, Erlangen*
- T11-8C** READING THE CODE: THE ROLE CHROMATIN READERS IN THE HEALTHY AND DISEASED BRAIN.  
*Hendrik Urbanke, Eva Benito, Andre Fischer, Göttingen*
- T11-9C** RETINAL NEURODEGENERATION, REACTIVE GLIOSIS AND COMPLEMENT ACTIVATION IN PROTEIN TYROSINE PHOSPHATASE MEG2 DEFICIENT MICE  
*Jacqueline Reinhard, Stephanie C. Joachim, Susanne Wiemann, Julia Woestmann, Yingchun Wang, Gregory Downey, Andreas Faissner, Bochum*
- T11-10C** ROCK-INHIBITION AS A THERAPEUTIC APPROACH IN MODELS OF PARKINSON'S DISEASE  
*Lars Tatenhorst, Kim-Ann Saal, Jan C. Koch, Uwe Michel, Mathias Bähr, Lars Tönges, Paul Lingor, Goettingen*
- T11-11C** SIGNIFICANT EFFECT OF L-DOPA TREATMENT ON THE TRANSCRIPTOME OF A BRAIN AREA RELEVANT FOR PARKINSON'S DISEASE: INDUCTION OF TH EXPRESSION IN THE STRIATUM  
*Sandra Gellhaar, Allissa A Dillman, Henrike Planert, Gilad Silberberg, Mark R Cookson, Dagmar Galter, Stockholm, Sweden*
- T11-12C**  $Na^+/K^+$  PUMP AND KIR CHANNEL FUNCTIONAL RELATIONSHIP IN SPINAL CORD OLIGODENDROCYTES IN AMYOTROPHIC LATERAL SCLEROSIS  
*Ljiljana Mladen Nikolic, Danijela Bogoljub Bataveljic, Belgrade, Serbia Montenegro*
- T11-1D** SPHINGOSINE-1-PHOSPHATE LYASE DEFICIENCY IN THE BRAIN: POSSIBLE LINK TO ALZHEIMER'S DISEASE?  
*Daniel Nicolae Mitroiu, Konstantin Glebov, Julie Saba, Jochen Walter, Gerhild van Echten-Deckert, Bonn*
- T11-2D** SYT10 IS A NOVEL DOWNSTREAM TARGET OF NPAS4 AND PLAYS A ROLE IN SYNAPTIC ACTIVITY-INDUCED NEUROPROTECTION  
*Anne M. H. Woitecki, Ramona F. Sowade, Polina Gulakova, Karen M. J. van Loo, Albert J. Becker, Susanne Schoch, Bonn*

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- T11-3D** THE EFFECT OF COGNITIVE AND MOTOR IMPAIRMENTS ON THE P300 SOURCES IN PARKINSON'S DISEASE PATIENTS  
*Olga Ivanenko, Sergii Kryzhanovskiy, Andrii Cherninskyi, Igor Zyma, Irina Karaban, Kyiv, Ukraine*
- T11-4D** THE EFFECT OF CURCUMIN AGAINST ACUTE ALUMINUM INTOXICATION ON THE DOPAMINERGIC SYSTEM IN RAT  
*Wafaa LAABBAR, ABDELJALIL ELGOT, Halima GAMRANI, Marrakech, Morocco*
- T11-5D** THE FUNCTIONAL LINK BETWEEN AUTOPHAGY AND THE TRANS-CELLULAR SPREAD OF ALPHA-SYNUCLEIN  
*Georgia Minakaki, Anna Bergmann, Wei Xiang, Holger Meixner, Jürgen Winkler, Jochen Klucken, Erlangen*
- T11-6D** THE HIPPOCAMPAL CA<sup>2+</sup> REGION IN TEMPORAL LOBE EPILEPSY  
*Ute Häussler, Katrin Rinas, Susanne Huber, Carola A. Haas, Freiburg*
- T11-7D** THE ROLE OF *DROSOPHILA* APPL (AMYLOID PRECURSOR PROTEIN LIKE) PROTEIN IN BRAIN FUNCTION AND BEHAVIOUR.  
*Franziska Rieche, Burkhard Poeck, Roland Strauss, Mainz*
- T11-8D** THE ROLE OF INTRACELLULAR CA<sup>2+</sup> STORES FOR NEURONAL DYSFUNCTION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE  
*Chommanad Lerdkrai, Bianca Brawek, Olga Garaschuk, Tübingen*
- T11-9D**  $\alpha$ ABNORMAL MODIFICATION OF ALS-ASSOCIATED MUTANT E102Q SIGMA RECEPTOR-1LEADS TO ER STRESS-MEDIATED DEFECTS IN PROTEIN DEGRADATION AND ENDOSOMAL TRAFFICKING.  
*Alice Dreser, Jan Tillman Vollrath, Antonio Sechi, Andreas Roos, Istvan Katona, S Bohlega, A Al-Saif, Dominik Wiemuth, Hannelore Heidtmann, Jörg Vervoorts, Marc Dohmen, Tania Rizo, Akila Chandrasekar, Hülya Daimaguler, Joachim Weis, Anand Goswami, Aachen*
- T11-10D** DELETION OF THE AMYLOID PRECURSOR PROTEIN FAMILY MEMBERS APP AND APLP2 RESULTS IN ABERRANT CHANGES OF THE MOUSE HIPPOCAMPAL PRESYNAPTIC ACTIVE ZONE PROTEOME  
*Jens Weingarten, Melanie Laßek, Benjamin Müller, Marion Bäumlisberger, Tabiwang N. Arrey, Amparo Acker-Palmer, Ulrike Müller, Michael Karas, Walter Volkmandt, Frankfurt*
- T11-11D** DELETION OF THE AMYLOID PRECURSOR PROTEIN RESULTS IN ABERRANT CHANGES OF THE HIPPOCAMPAL PRESYNAPTIC ACTIVE ZONE PROTEOME IN MOUSE BRAIN  
*Melanie Laßek, Jens Weingarten, Benjamin Müller, Marion Bäumlisberger, Tabiwang N. Arrey, Amparo Acker-Palmer, Ulrike Müller, Michael Karas, Walter Volkmandt, Frankfurt*
- T12-1A** ACTIVATED MICROGLIA INDUCE DEFICITS IN EXCITATORY SYNAPSES THROUGH IL-1 $\beta$ : IMPLICATIONS FOR COGNITIVE IMPAIRMENT IN SEPSIS  
*Carolina A Moraes, Gabriel Santos, Tania Cristina Leite de Sampaio Spohr, Joana D Avila, Flávia Regina Souza Lima, Claudia Farias Benjamim, Fernando A Bozza, Flávia CA Gomes, Rio de Janeiro, Brazil*
- T12-2A** ANTI-DPPX ENCEPHALITIS: PATHOGENIC EFFECTS OF ANTIBODIES ON GUT AND BRAIN NEURONS  
*Johannes Piepgras, Markus Höltje, Klaus Michel, Qin Li, Carolin Otto, Christoph Drenckhahn, Christian Probst, Ralph Buchert, Michael Schemann, Winfried Stöcker, Josep Dalmau, Gudrun Ahnert-Hilger, Klemens Ruprecht, Berlin*
- T12-3A** ANTI-INFLAMMATORY ROLE OF HEME OXYGENASE-1 / CARBON MONOXIDE IN FUNCTIONAL ASSAYS USING CO-CULTURES OF MICROGLIA AND HUMAN MODEL NEURONS  
*Hannah Scheiblich, Gerd Bicker, Hannover*
- T12-4A** BRAIN ENDOTHELIAL SPECIFIC KNOCKOUT OF NEMO CAUSES BLOOD BRAIN-BARRIER DISRUPTION AND MIMICS

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### NEUROLOGICAL SYMPTOMS OF INCONTINENTIA PIGMENTI

*Jan Wenzel, Dirk A. Ridder, Kristin Müller, Kathrin Töllner, Hartwig Wolburg, Stijn Stroobants, Xin-Kang Tong, Rudi D'Hooge, Detlef Balschun, Wolfgang Löscher, Edith Hamel, Markus Schwaninger, Lübeck*

- T12-5A** CD14 CONTROL OVER MICROGLIAL TLR4 FUNCTIONS INVOLVES AN IFN $\beta$ -MEDIATED FEEDBACK MECHANISM  
*Christin Fritsche, Hana Janova, Uwe-Karsten Hanisch, Göttingen*
- T12-6A** CHANGES OF BDNF-MEDIATED SIGNALING MECHANISMS DURING THE FORMATION OF NEURAL NETWORKS AND IN THE ACUTE NORMOBARIC HYPOXIA IN VITRO  
*Tatiana Alexandrovna Sakharnova, Maria Valerievna Vedunova, Elena Vladimirovna Mitroshina, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia*
- T12-7A** COMPARATIVE ANALYSIS OF STEM-CELL-MARKERS IN MATCHED PRIMARY AND RECURRENT GLIOBLASTOMAS  
*Charlotte Flüh, Kirsten Hattermann, H. Maximilian Mehdorn, Rolf Mentlein, Janka Held-Feindt, Kiel*
- T12-8A** CROSSREACTIVITY OF ANTIBODIES TO NEISSERIA GONORRHOEAE WITH THE HEAT SHOCK PROTEIN HSP60 CORRELATES WITH REDUCED MITOCHONDRIAL ACTIVITY IN THE HUMAN CHOROID PLEXUS PAPILOMA CELL LINE HIBCPP  
*Bernhard Reuss, Horst Schroten, Hiroshi Ishikawa, Abdul Rahman Asif, Göttingen*
- T12-9A** DECOMPRESSIVE CRANIECTOMY FOR PREVENTION OF SECONDARY BRAIN DAMAGE IN PATIENTS WITH TRAUMATIC INTRACRANIAL HEMATOMAS.  
*Jamshid Kuzibaev, Kozim Makhkamov, Tashkent, Russia*
- T12-1B** ERYTHROPOIETIN PROMOTES SURVIVAL OF INSECT NEURONS VIA RECEPTOR-DEPENDENT SIGNALLING  
*Natasa Miljus, Jan Vincent Rison, Ralf Heinrich, Göttingen*
- T12-2B** EUPHORBIA RESINEFERA EXTRACT INDUCED PAIN DECREASE ON MICE  
*Ouassil EL KHERCHI, Hanane Khalki, Maryam Mountassir, Abdelmajid ZYAD, Abderrahman Chait, Béni - Mellal, Morocco*
- T12-3B** EVALUATION OF INFLAMMATORY AND SYNAPTIC PROTEIN ALTERATIONS DURING ACUTE, SUB-ACUTE, AND CHRONIC INFLAMMATORY RESPONSE FOLLOWING STATUS EPILEPTICUS (SE)  
*Una Avdic, Idrish Ali, Christine T Ekdahl, Lund, Sweden*
- T12-4B** GUT MICROBIOTA INFLUENCES LIPOPOLYSACCHARIDE-INDUCED DEPRESSIVE-LIKE BEHAVIORS BY INFLAMMATORY MECHANISM: INVOLVEMENT OF ADULT HIPPOCAMPAL NEUROGENESIS AND SEROTONERGIC NEUROTRANSMISSION.  
*Alline Cristina Campos, Natalia Pessoa Rocha, Jacques R Nicoli, Leda Q Vieira, Mauro M Teixeira, Antonio L Teixeira, Göttingen*
- T12-5B** INTERACTIONS BETWEEN SIGNALING MECHANISMS OF NEUROTROPHIC FACTORS BDNF AND GDNF DURING NORMOBARIC HYPOXIA IN VITRO  
*Maria Valerievna Vedunova, Tatiana Alexandrovna Sakharnova, Elena Vladimirovna Mitroshina, Alexey Alexandrovich Babaev, Tatiana Victorovna Shishkina, Natalia Alexandrovna Shchelchkova, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia*
- T12-6B** INTRALESIONAL TRANSPLANTATION OF MESENCHYMAL STEM CELLS IN THE TOXIC DEMYELINATING CUPRIZONE MODEL.  
*Laura Salinas Tejedor, Kristin Jacobsen, Gabriel Berner, Viktoria Gudi, Nicole Jungwirth, Florian Hansmann, Wolfgang Baumgärtner, Thomas Skripuletz, Martin Stangel, Hannover*
- T12-7B** LOSE AND USE YOUR HEAD! INVERSE SIGNALING OF TRANSMEMBRANE CHEMOKINES IN GLIOMAS

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*Kirsten Hattermann, Henrike Gebhardt, Ralf Lucius, Andreas Ludwig, Rolf Mentlein, Janka Held-Feindt, Kiel*

- T12-8B** MICROGLIA ACTIVATION IN MICE SHOWING DEPRESSIVE-LIKE BEHAVIOR AFTER CHRONIC INTERFERON-ALPHA TREATMENT  
*Simone Wachholz, Manuela Eßlinger, Jennifer Plümper, Marie-Pierre Manitz, Georg Juckel, Astrid Friebe, Bochum*
- T12-1C** NEUROGENESIS IN ORGANOTYPIC HIPPOCAMPAL SLICE CULTURES IS STRONGLY AFFECTED BY GLIAL CELL ACTIVATION AND INFLAMMATORY PROCESSES  
*Johannes Gerlach, Catharina Donkels, Gert Münzner, Carola A. Haas, Freiburg*
- T12-2C** NEUROTROPHINS BDNF AND NGF IN PATIENTS WITH AFFECTIVE DISORDERS  
*Lyudmila Levchuk, Natalya Vyalova, German Simutkin, Svetlana Ivanova, Nikolay Bokhan, Tomsk, Russia*
- T12-3C** POLYMERIC NANOPARTICLES AS DRUG CARRIERS ACROSS THE BLOOD-BRAIN BARRIER: AN EFFECTIVE AND NON-TOXIC SYSTEM  
*Petra Henrich-Noack, Nadine Voigt, Sarah Kockentiedt, Werner Hintz, Jürgen Tomas, Bernhard A. Sabel, Magdeburg*
- T12-4C** PRENATAL IMMUNE CHALLENGE INDUCES CHANGES OF MICROGLIAL SURFACE MARKERS IN AN ANIMAL MODEL OF SCHIZOPHRENIA  
*Manuela Eßlinger, Marie Pierre Manitz, Simone Wachholz, Rainer Sommer, Jennifer Plümper, Awatef Esshili, Georg Juckel, Astrid Friebe, Bochum*
- T12-5C** PRIMARY BRAIN CELL CULTURES OF *TRIBOLIUM CASTANEUM* AS A MODEL TO STUDY ERYTHROPOIETIN SIGNALING PATHWAYS  
*Nina Hahn, Ralf Heinrich, Göttingen*
- T12-6C** QUANTITATIVE ASSESSMENT OF BLOOD-BRAIN BARRIER PERMEABILITY AND CELL DAMAGE AFTER CORTICAL ISCHEMIA - ROLE OF FREE RADICALS  
*Karl Schoknecht, Ofer Prager, Udi Vazana, Lyn Kamintsky, Yoash Chassidim, Uwe Heinemann, Alon Friedman, Berlin*
- T12-7C** RESPONSES OF MOUSE RETINAL GANGLION CELLS TO EXPERIMENTALLY INDUCED HYPOXIA / ISCHEMIA  
*Gabriel Christian Knop, Anneka Göppner, Bianca Assmann, Andreas Feigenspan, Erlangen*
- T12-8C** ROLE OF P75 NEUROTROPHIN RECEPTOR IN MEDIATING NEURONAL ALTERATIONS IN *TOXOPLASMA GONDII* CHRONICALLY INFECTED MICE  
*Jan Alexander Kleveman, Marianna Weller, Alexandru Parlog, Ildiko Dunay, Marta Zagrebelsky, Martin Korte, Braunschweig*
- T12-9C** ALTERATIONS OF THE GLIAL ACTIVATION MARKERS IN RAT CHRONIC MILD STRESS MODEL  
*Weronika Dominika Duda, Katarzyna Curzytek, Marta Kubera, Eimear Fagan, Thomas J. Connor, Krakow, Poland*
- T12-1D** SYSTEMIC INFLAMMATION IS ASSOCIATED WITH A REDUCTION IN SYNAPTOPODIN EXPRESSION IN THE MOUSE HIPPOCAMPUS  
*Andreas Strehl, Maximilian Lenz, Ze'ev Itsekson-Hayosh, Denise Becker, Joab Chapman, Thomas Deller, Nicola Maggio, Andreas Vlachos, Frankfurt am Main*
- T12-2D** THE EFFECT OF METHYLENE BLUE ADMINISTRATION ON CHEMOTHERAPY-INDUCED PERIPHERAL NEUROPATHY  
*Teodora Alexa, Andrei Luca, Catalina Roxana Bohotin, Iasi, Romania*
- T12-3D** THE EFFECT OF N-ARACHIDONOYLDOPAMIN (N-ADA) ON FUNCTIONAL HOMEOSTASIS OF NEURAL NETWORKS IN

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### NORMAL CONDITIONS AND IN MODELING OF ACUTE HYPOXIA

*Elena Vladimirovna Mitroshina, Maria Valerievna Vedunova, Tatiana Alexandrovna Sakharnova, Mikhail Yurievich Bobrov, Leonid Georgievich Khaspekov, Irina Vasilievna Mukhina, Nizhny Novgorod, Russia*

- T12-4D** THE EFFECT OF NEUROINFLAMMATION INDUCED BY INFLUENZA A VIRUS INFECTION ON HIPPOCAMPAL NEURON MORPHOLOGY  
*Shirin Hosseini, Kristin Michaelsen-Preusse, Esther Wilk, Klaus Schughart, Martin Korte, Braunschweig*
- T12-5D** THE INFLUENCE OF PATIENTS GLUTAMATE RECEPTOR 2 ANTIBODIES ON AMPA RECEPTOR MEDIATED TRANSMISSION  
*Holger Haselmann, Benedikt Grünwald, Christian Geis, Jena*
- T12-6D** THE TRANSMEMBRANE CHEMOKINE CXCL16 TRANSDUCES "INVERSE SIGNALING" EFFECTS IN HUMAN MENINGIOMAS  
*Janka Held-Feindt, Kareen Bartsch, Henrike Gebhardt, Maximilian Mehdorn, Rolf Mentlein, Kirsten Hattermann, Kiel*
- T12-7D** THERMAL IMPACT OF OPTOGENETIC LASER LIGHT STIMULATION ON NEURAL TISSUE  
*Gonzalo Arias Gil, Frank Ohl, Kentaroh Takagaki, Michael T. Lippert, Magdeburg*
- T12-8D** COMPARING NEUROPROTECTIVE ACTIONS IN A RAT MODEL OF RETINAL DEGENERATION  
*Mattia Di Paolo, Darin Zerti, L'Aquila, Italy*
- T13-1A** ACCUMBAL CART PEPTIDE 55-102 BLOCKS AMPHETAMINE-INDUCED LOCOMOTOR ACTIVITY BY REGULATING AKT-GSK3 $\beta$  SIGNALING PATHWAY AND ACCOMPANIED INTERACTION WITH GLUA1  
*Bo Ram Cho, Wha Young Kim, Ju Kyong Jang, Jeong-Hoon Kim, Seoul, Korea (South)*
- T13-2A** ACUTE AND CHRONIC EXPOSURE TO CANNABINOID AGONIST MODIFIES NEURONAL ACTIVITY AND COHERENCE OF LOCAL FIELD POTENTIALS IN SUB-CORTICAL LIMBIC AND SOMATO-SENSORY CORTICAL REGIONS  
*Kerstin Schwabe, Mesbah Alam, Christof v. Wrangel, Joachim K. Krauss, Nadine John, Hannover*
- T13-3A** ANIMAL MODEL FOR COFFIN-LOWRY SYNDROME: FUNCTION OF RSK2/RSK2 IN NEURONAL PLASTICITY AND BEHAVIOUR  
*Victoria Lily Cabello Gonzalez, Michaela Groma, Angelika Schmitt, Matthias Fischer, Wuerzburg*
- T13-4A** ASSOCIATION OF (N251S)-PIP5K2A WITH POSITIVE SYMPTOMS IN SCHIZOPHRENIA  
*Evgeniya G. Boyarko, Darina R. Iskalieva, Olga Yu. Fedorenko, Svetlana A. Ivanova, Tomsk, Russia*
- T13-5A** BEHAVIOURAL ANALYSIS OF FLINDERS SENSITIVE LINE RODENT MODEL OF DEPRESSION: AN APPROPRIATE MODEL FOR MEDIAL FOREBRAIN BUNDLE DEEP BRAIN STIMULATION?  
*Stephanie Thiele, Timo Spehl, Lars Frings, Fredericke Braun, Marisa Ferch, Philipp Meyer, Luciano Furlanetti, Volker Coenen, Máté Döbrössy, Freiburg*
- T13-6A** CO-MICROINJECTION OF GHRELIN AND D1 DOPAMINE RECEPTOR AGONIST IN THE NUCLEUS ACCUMBENS CORE ENHANCES LOCOMOTOR ACTIVITY IN AMPHETAMINE PRE-EXPOSED RAT  
*Wenting Cai, Ju Kyong Jang, Jeong-Hoon Kim, Seoul, Korea (South)*
- T13-7A** CRUCIAL FUNCTION OF FMRP IN THE DEVELOPMENT OF THE HIPPOCAMPAL MOSSY FIBER PATHWAY  
*Franziska Scharkowski, Leonie Salzburger, Martin Korte, Kristin Michaelsen-Preusse, Braunschweig*
- T13-8A** DEEP BRAIN STIMULATION OF THE CENTROMEDIAN-PARAFASCICULAR COMPLEX ATTENUATES DEFICIENT SENSORIMOTOR GATING IN A RAT MODEL FOR TOURETTE SYNDROME

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*Thomas Elle, Joachim, K. Krauss, Kerstin Schwabe, Nadine John, Hannover*

- T13-9A** DIFFERENTIAL REGULATION OF COCAINE-INDUCED LOCOMOTOR ACTIVITY BY LEPTIN IN THE NUCLEUS ACCUMBENS  
*Jung Won Lee, Wha Young Kim, Jeong-Hoon Kim, Seoul, Korea (South)*
- T13-1B** DISSECTION AND OPTOGENETIC MANIPULATION OF HABENULA-IPN CELL-SPECIFIC NEURONAL NETWORKS IN THE CONTROL OF NICOTINE ADDICTION AND WITHDRAWAL  
*Andreas Görlich, Jessica L Ables, Inés Ibañez-Tallon, New York, USA*
- T13-2B** DYSREGULATION OF BDNF SIGNALING DURING ABSTINENCE FOLLOWING DEVELOPMENTAL EXPOSURE TO COCAINE  
*Lucia Caffino, Giuseppe Giannotti, Chiara Malpighi, Giorgio Racagni, Fabio Fumagalli, Milano, Italy*
- T13-3B** EFFECT OF CADHERIN-13 INACTIVATION ON THE GABAERGIC SYSTEM IN THE MOUSE HIPPOCAMPUS  
*Lucas Bacmeister, Sandy Popp, Angelika Schmitt, Olga Rivero, Klaus-Peter Lesch, Sarah Sich, Würzburg*
- T13-4B** EFFECTS OF DIFFERENT PHARMACOLOGICAL MANIPULATIONS ON COGNITIVE JUDGMENT BIAS OF RATS IN THE AMBIGUOUS-CUE INTERPRETATION PARADIGM  
*Rafal Rygula, Jakub Kregiel, Joanna Golebiowska, Jakub Kubik, Piotr Popik, Krakow, Poland*
- T13-5B** EFFECTS OF *NYMPHAEA LOTUS* LINN. AQUEOUS EXTRACT ON CHRONIC MILD STRESS-INDUCED DEPRESSION IN RATS  
*KAMENI POUmeni Mireille, Dzeufiet Desire, Dimo Theophile, Kamtchouing Pierre, Yaounde, Cameroon*
- T13-6B** EFFECTS OF SINGLE AND REPEATED N-ACETYLCYSTEINE TREATMENTS ON CUE-INDUCED NICOTINE-SEEKING BEHAVIOR.  
*Federico Moro, milano, Italy*
- T13-7B** ELECTROCONVULSIVE STIMULATION ALLEVIATES A BREEDING-INDUCED PREPULSE INHIBITION DEFICIT IN RATS  
*Nadine John, Wiebke Theilmann, Helge Frieling, Joachim, K. Krauss, Kerstin Schwabe, Claudia Brandt, Hannover*
- T13-8B** ENHANCED EXCITABILITY OF GRANULE CELLS AFTER ELECTROCONVULSIVE SEIZURES MIGHT BE LINKED TO CONCOMITANT UP-REGULATION OF ACTIVIN SIGNALING  
*Fang Zheng, Andrea S. Link, Christian Alzheimer, Erlangen*
- T13-9B** EXPRESSION INFLAMMASOME IN NEURONAL AND ASTROCYTIC CELLS IN NEURODEGENERATION  
*Yulia Komleva, Olga Lopatina, Iana Gorina, Victoria Volkova, Alla Salmina, Krasnoyarsk, Russia*
- T13-1C** ENTORHINAL INPUT CONTRIBUTES TO AN ABERRANT HIPPOCAMPAL CIRCUITRY IN MESIAL TEMPORAL LOBE EPILEPSY  
*Philipp Janz, Ute Häussler, Antje Kilius, Oliver Kretz, Matthias Kirsch, Ulrich Egert, Carola A. Haas, Freiburg*
- T13-3C** GHRELIN DIMINISHES THE NEURONAL OUTPUT OF THE DORSAL RAPHE NUCLEUS AND ITS RESPONSES TO FOOD-PREDICTING CUES IN FREELY BEHAVING RATS  
*Christoph Lindemann, Brian I. Hyland, Dunedin, New Zealand*
- T13-4C** INTER-INDIVIDUAL DIFFERENCES IN BEHAVIORAL INHIBITION AND BEHAVIORAL ACTIVATION ARE REFLECTED IN HUMAN BRAIN STRUCTURE  
*Yadan Li, Lei Qiao, Jiang Qiu, Qinglin Zhang, Chongqing, China*
- T13-5C** MODELING THE DYNAMICS OF DISEASE STATES IN DEPRESSION



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*Selver Demic, Sen Cheng, Bochum*

- T13-6C** NEURONAL CORRELATES OF SUSTAINED FEAR IN THE ANTEROLATERAL PART OF THE BED NUCLEUS OF THE STRIA TERMINALIS  
*Jörg Lesting, Thiemo Daldrup, Patrick Meuth, Thomas Seidenbecher, Hans-Christian Pape, Münster*
- T13-7C** PHASIC DOPAMINE ACTIVITY IN THE DORSAL STRIATUM DURING VARIABLE INTERVAL RESPONDING TO ALCOHOL AND SUCROSE  
*Tatiana Shnitko, Donita Robinson, Chapel Hill, NC, USA*
- T13-8C** POSITIVE ALLOSTERIC MODULATION OF THE  $\alpha 7$  NICOTINIC ACETYLCHOLINE RECEPTORS ENHANCES RECOGNITION MEMORY IN RATS  
*Agnieszka Teresa Potasiewicz, Krakow, Poland*
- T13-9C** SOCIAL BEHAVIOR AT THE MOLECULAR LEVEL  
*Olga Lopatina, Yulia Komleva, Yana Gorina, Natalia Kuvacheva, Alla Salmina, Krasnoyarsk, Russia*
- T13-1D** PROGRAMMING OF PROMOTER DNA METHYLATION IN HETEROZYGOUS SEROTONIN TRANSPORTER DEFICIENT MICE BY PRENATAL STRESS  
*Magdalena Theodora Weidner, Karla-Gerlinde Schraut, Sissi B Jakob, Angelika G Schmitt, Klaus J Scholz, Tatyana Strekalova, Nady El Hajj, Thomas Haaf, Gabriela Ortega, Harry WM Steinbusch, Klaus-Peter Lesch, Daniel L van den Hove, Würzburg*
- T13-2D** RESPONSIVENESS OF ACTIVIN A AND ITS NOVEL TARGET GENE *PMEP1* TO ENVIRONMENTAL STIMULATION AND ANTIDEPRESSANT TREATMENT  
*Andrea Stephanie Link, Svitlana Kurinna, Steven Havlicek, Sandra Lehnert, Beate Winner, Tobias Huth, Fang Zheng, Sabine Werner, Christian Alzheimer, Erlangen*
- T13-3D** STUDY HYDROLYSIS MYELIN BASIC PROTEIN BY IGG OF SCHIZOPHRENIC PATIENT ACCORDING TO THE EXTENSION OF THE DISEASE  
*Daria Parshukova, Ludmila Smirnova, Valentina Buneva, Svetlana Ivanova, Arkady Semke, Yulia Borodyuk, Tomsk, Russia*
- T13-4D** THE BLOCKADE OF NMDA RECEPTORS REDUCED THE EXTINCTION PERIOD ON MORPHINE-CONDITIONED PLACE PREFERENCE IN THE RAT  
*Ali Siahposht- Khachaki, Tehran, Iran*
- T13-5D** THE EFFECTS OF THE POSITIVE ALLOSTERIC MODULATOR OF  $\alpha 7$ -NACHRS IN COGNITIVE TASKS IN RATS.  
*Agnieszka Nikiforuk, Agnieszka Potasiewicz, Piotr Popik, Krakow, Poland*
- T13-6D** THE ENDOCANNABINOID SYSTEM IN THE EXTENDED AMYGDALA NETWORK MODULATES MECHANISMS OF SUSTAINED FEAR.  
*Thiemo Daldrup, Maren Denise Lange, Hanna Szkuclarek, Thomas Seidenbecher, Joerg Lesting, Stephan Guggenhuber, Sabine Ruehle, Floortje Remmers, Sebastian Kuegler, Beat Lutz, Hans-Christian Pape, Muenster*
- T13-7D** THE TPH2 KNOCKOUT RAT: PHYSIOLOGICAL AND BEHAVIORAL ANALYSIS OF A SEROTONIN DEFICIENT RAT MODEL  
*Yasmine Graf, Daniel Beis, Cornelia Hainer, Michael Bader, Markus Wöhr, Natalia Alenina, Berlin*
- T13-8D** VARIABILITY OF CEREBRAL LATERALIZATION FOR PERCEPTION OF SPEECH EMOTIONAL PROSODY IN THE COURSE OF PERCEPTUAL LEARNING (IN DIFFERENT ACOUSTIC ENVIRONMENT)  
*Elena Dmitrieva, Victor Gelman, St.Petersburg, Russia*

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- T13-9D** IMPAIRED FAST-SPIKING INTERNEURON FUNCTION IN A GENETIC MOUSE MODEL OF DEPRESSION.  
*Jonas-Frederic Sauer, Michael Strüber, Marlene Bartos, Freiburg*
- T14-1A** A CILIARY PROTEIN IN MOTION-VISION GAIN CONTROL  
*Bart Geurten, Robert Kossen, Selina André, Damiano Zanini, Martin C. Göpfert, Göttingen*
- T14-2A** ANATOMICAL ORGANIZATION OF TANGENTIAL NEURONS OF THE CENTRAL COMPLEX IN THE BRAIN OF THE DESERT LOCUST  
*Joss von Hadeln, Manuel Quintero, Linda Häger, Stanley Heinze, Tobias Bockhorst, Uwe Homberg, Marburg*
- T14-3A** CIRCADIAN CLOCK RESETTING IN *DROSOPHILA* BY NON-CANONICAL RHODOPSIN SIGNALLING AND THE ZONA PELLUCIDA PROTEIN QUASIMODO  
*Ralf Stanewsky, Maite Ogueta-Gutierrez, Adam Bradlaugh, Edgar Buhl, Roger Hardie, James Hodge, London, United Kingdom*
- T14-1B** CIRCADIAN RHYTHMICITY IN BEHAVIOURAL AND NEURONAL SENSITIVITY IN LOCUSTS  
*Jonathan Daniel Shand, Tom Matheson, Ezio Rosato, Leicester, United Kingdom*
- T14-2B** DIRECT VISUAL INPUT TO MOTONEURONS CONTROLLING WING STEERING MUSCLES IN *DROSOPHILA*  
*Jan Bartussek, Fritz-Olaf Lehmann, Rostock*
- T14-3B** EXPRESSION PLASTICITY OF OPSIN GENES IN *CAMPONOTUS RUFIPES* WORKERS  
*Ayse Yilmaz, Stefan Albert, Wolfgang Rössler, Johannes Spaethe, Claudia Groh, Würzburg*
- T14-4B** HEAD-BODY-COORDINATION IN WALKING *DROSOPHILA MELANOGASTER*  
*Kristina Corthals, Philipp Jähde, Martin C. Göpfert, Bart R.H. Geurten, Göttingen*
- T14-1C** HOW MUCH *DROSOPHILA* VISUAL BEHAVIOR IS PREDICTED BY MODELS WITH ASYMMETRIC MOTION RESPONSES?  
*Andreas Poehlmann, Lisa M. Fenk, Andrew D. Straw, Vienna, Austria*
- T14-2C** INVESTIGATING THE NEURONAL SUBSTRATE MEDIATING 3D VISION IN THE PRAYING MANTIS  
*Ronny Rosner, Vivek Nityananda, Ghaith Tarawneh, Jenny Read, Newcastle upon Tyne, United Kingdom*
- T14-3C** MISSING LINKS AND UNEXPECTED PROPERTIES OF MOTION-DETECTING CIRCUITS  
*Marion Silies, Tom Clandinin, Göttingen*
- T14-4C** MODULATION ON THE FLY: THE ROLE OF NEUROMODULATION IN VISUALLY GUIDED FLIGHT BEHAVIOR  
*Katja Hellekes, John R. Stowers, Andrew D. Straw, Vienna, Austria*
- T14-1D** NEUROPEPTIDES IN THE REGULATION OF WORKER ONTOGENY IN THE ANT *CATAGLYPHIS FORTIS*  
*Franziska Schmitt, Christian Wegener, Wolfgang Rössler, Würzburg*
- T14-2D** ORIENTATION RUNS OF THE DESERT ANT *CATAGLYPHIS FORTIS*  
*Pauline Nikola Fleischmann, Robin Grob, Jochen Zeil, Rüdiger Wehner, Wolfgang Rössler, Würzburg*
- T14-3D** SYSTEM IDENTIFICATION OF *DROSOPHILA* FLIGHT BEHAVIOUR  
*John Ross Stowers, Andrew Straw, Andi Kugi, Vienna, Austria*
- T14-4D** ULTRASTRUCTURE AND ANATOMY OF MICROGLOMERULAR SYNAPTIC COMPLEXES IN THE POLARIZATION VISION PATHWAY OF THE HONEYBEE

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*Martina Held, Uwe Homberg, Keram Pfeiffer, Marburg*

- T15-1A** A GENERATIVE MODEL OF DECORRELATING COLOR SENSITIVE RETINAL GANGLION CELLS  
*Daniel von Poschinger-Camphausen, Cornelius Weber, Stefan Wermter, Hamburg*
- T15-2A** CENTROSOMAL PROTEIN PERICENTRIN INTERACTS WITH NESPRIN PROTEIN SYNE-2 IN THE RETINA  
*Nathalie Falk, Kristin Kessler, Johannes Glöckner, Karsten Boldt, Marius Ueffing, Ronald Roepmen, Christian Thiel, Johann Helmut Brandstätter, Andreas Gießl, Erlangen*
- T15-3A** CLASSIFYING RETINAL GANGLION CELLS IN THE SALAMANDER RETINA  
*Fernando Rozenblit, Tim Gollisch, Göttingen*
- T15-4A** DEPOLARIZATION- AND LIGHT-EVOKED CALCIUM ACTION POTENTIALS IN HORIZONTAL CELLS OF THE MOUSE RETINA  
*Andreas Feigenspan, Erlangen*
- T15-5A** DIVERSE FEATURES OF SPATIAL CONTRAST ADAPTATION IN THE MOUSE RETINA  
*Mohammad Hossein Khani, Tim Gollisch, Goettingen*
- T15-6A** EFFECTS OF LOCOMOTION THROUGHOUT THE MOUSE EARLY VISUAL SYSTEM  
*Sinem Erisken, Agne Vaiceliunaite, Ovidiu Jurjut, Matilde Fiorini, Steffen Katzner, Laura Busse, Tübingen*
- T15-1B** ENCODING OF NATURAL IMAGES BY RETINAL GANGLION CELLS  
*Jian Liu, Tim Gollisch, Göttingen*
- T15-2B** FOLLOWING THE VISUAL SIGNAL ACROSS THE ENTIRE MOUSE RETINA: FROM CONE CALCIUM TO GANGLION CELL SPIKES  
*Tom Baden, Katrin Franke, Sinziana Pop, Miroslav Roman Roson, Robin Kemmler, Philipp Berens, Matthias Bethge, Timm Schubert, Thomas Euler, Tübingen*
- T15-3B** FUNCTIONAL CHARACTERIZATION OF THE SIGNAL PROCESSING CHAIN IN THE MOUSE EARLY VISUAL SYSTEM  
*Miroslav Roman Roson, Thomas Euler, Philipp Berens, Laura Busse, Tübingen*
- T15-4B** INFLUENCE OF CORTICO-THALAMIC FEEDBACK ON TEMPORAL AND SPATIAL RESPONSE PROPERTIES IN THE MOUSE DORSOLATERAL GENICULATE NUCLEUS  
*Agne Vaiceliunaite, Sinem Erisken, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tübingen*
- T15-5B** MECHANISMS UNDERLYING THE MODULATION OF HORIZONTAL CELL GAP JUNCTIONS BY ALL-TRANS RETINOIC ACID  
*Jasmin Segelken, Sebastian Hermann, Reto Weiler, Ulrike Janssen-Bienhold, Oldenburg*
- T15-6B** WHAT THE MOUSE EYE TELLS THE MOUSE BRAIN: FINGERPRINTING THE RETINAL GANGLION CELL TYPES OF THE MOUSE RETINA  
*Katrin Franke, Thomas Baden, Philipp Berens, Miroslav Rezac, Matthias Bethge, Thomas Euler, Tübingen*
- T15-1C** MOTION ENCODING IN THE SALAMANDER RETINA  
*Norma Krystyna Kühn, Tim Gollisch, Göttingen*
- T15-2C** OPTICAL IMAGING OF NEURONS RESPONSIBLE FOR TRANSFORMATION OF SENSORY INFORMATION INTO MOTOR COMMANDS  
*Gytis Baranauskas, Gytis Svirskis, Natasa Svirskiene, Tatiana Tkatch, Kaunas, Lithuania*

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- T15-3C** ORDER IN THE CHAOS - UNSCRAMBLING THE INTERLACED FINE STRUCTURES OF ANCHOVY CONE PEDICLES  
*Maximilian Scheungrab, Katja Schulze, Gerhard Wanner, Martin Heß, Planegg-Martinsried*
- T15-4C** POWER SPECTRA CHANGES INDUCED BY REPETITIVE TRANSORBITAL ALTERNATING CURRENT STIMULATION: A LONGITUDINAL APPROACH TO STUDY AFTER EFFECTS  
*Ting Li, Carolin Gall, Doreen Brösel, Ying Gao, Michal Bola, Bernhard A. Sabel, Magdeburg*
- T15-5C** PROCESSING OF MOTION STIMULI BY CELLS IN THE OPTIC TECTUM  
*Josine Verhaal, Harald Luksch, Freising-Weihenstephan*
- T15-6C** RECEPTIVE FIELD MAPPING IN BLIND RETINAE USING LOCALIZED ELECTRICAL STIMULATION  
*Henrike Stutzki, Florian Helmhold, Günther Zeck, Reutlingen*
- T15-1D** RESPONSE CHARACTERISTICS OF ON STELLATE-VARICOSE AMACRINE CELLS AND THEIR INTERACTIONS WITH ON MIDGET GANGLION CELLS IN PRIMATE RETINA  
*Christian Puller, Michael B. Manookin, Maureen Neitz, Fred Rieke, Jay Neitz, Seattle, USA*
- T15-2D** SIMILARITY ACROSS SACCADES IS ENCODED IN THE RETINA  
*Vidhyasankar Krishnamoorthy, Michael Weick, Tim Gollisch, Goettingen*
- T15-3D** SPATIAL INTEGRATION PROPERTIES OF MICE RETINAL GANGLION CELLS: A CLOSED-LOOP APPROACH  
*Luis Giordano Ramos Traslosheros López, Michael Weick, Tim Gollisch, Goettingen*
- T15-4D** SPIKE GENERATOR DESENSITIZATION IN RETINAL GANGLION CELLS UNDERLIES TRANSIENT LIGHT RESPONSE AND SENSITIVITY TO HIGH CONTRASTS  
*Thomas Euler, Timm Schubert, Olivia Auferkorte, Elisabeth Butz, Laura Hüser, Silke Haverkamp, Le Chang, Tübingen*
- T15-5D** THE NIMA-RELATED SERINE/THREONINE KINASE -NEK1- AT CILIA OF SENSORY CELLS  
*Andreas Gießl, Kristin Kessler, Johann Helmut Brandstätter, Christian Thiel, Erlangen*
- T15-6D** TYPE 2 WIDE-FIELD AMACRINE CELLS IN TYROSINE HYDROXYLASE (TH)::GFP MICE SHOW A HOMOGENOUS SYNAPSE DISTRIBUTION AND CONTACT SMALL GANGLION CELLS  
*Bianca Brüggem, Arndt Meyer, Franziska Boven, Reto Weiler, Karin Dedek, Oldenburg*
- T16-1A** BIMODAL ROLE OF MATRIX METALLOPROTEINASES IN ADULT VISUAL CORTEX PLASTICITY IN A HEALTHY AND LESIONED BRAIN  
*Justyna Pielecka-Fortuna, Evgenia Kalogeraki, Siegrid Löwel, Göttingen*
- T16-2A** CHANGING SACCADE PLANS: TIMING OF RESPONSE COMPETITION IN SPATIAL DECISION-MAKING  
*Danial Arabali, Caio Moreira, Kristin Kaduk, Melanie Wilke, Igor Kagan, Göttingen*
- T16-3A** CLUSTERS OF INTRALAMINAR SYNAPTIC INPUTS ON THE DENDRITES OF CORTICAL LAYER 5 PYRAMIDAL CELLS SUGGEST RECRUITMENT OF NON-LINEAR DENDRITIC INTEGRATION  
*Volker Scheuss, Onur Gökçe, Tobias Bonhoeffer, Martinsried*
- T16-4A** EXPERIMENTAL MODEL FOR TESTING OF CORTICAL VISUAL PROSTHESIS PROTOTYPE.  
*Elizaveta M. Rutskova, Andrei N. Serkov, Marianna E. Ivanova, Boris Kh. Baziyany, Moscow, Russia*
- T16-5A** FACE PATCH RESTING STATE NETWORKS LINK FACE PROCESSING TO SOCIAL COGNITION

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*Caspar Martin Schwiedrzik, Wilbert Zarco, Stefan Everling, Winrich Freiwald, New York, USA*

- T16-6A** HEMISPHERIC ASYMMETRY IN LEFT- AND RIGHT- HANDERS DURING EMOTIONAL STOOP-TEST  
*Mariia P. Bondarenko (Rassomagina), Victoria Kravchenko, Mykola Makarchuk, Kyiv, Ukraine*
- T16-1B** IMPAIRED BINOCULAR MICROSACCADES IN HEMIANOPIA  
*Ying Gao, Carolin Gall, Bernhard A. Sabel, Magdeburg*
- T16-2B** INTERHEMISPHERIC BRAIN PROCESSING AND ACTION SELECTION IN HUMAN AND NON-HUMAN PRIMATES  
*Caio Margarido Moreira, Igor Kagan, Goettingen*
- T16-3B** KNOCK-DOWN OF THE SIGNALING SCAFFOLD POSTSYNAPTIC DENSITY PROTEIN-95 (PSD-95) IN THE ADULT PRIMARY VISUAL CORTEX RESTORED A JUVENILE OCULAR DOMINANCE PLASTICITY  
*Sophia Katharina Stodieck, Xiaojie Huang, Oliver M. Schlüter, Siegrid Löwel, Göttingen*
- T16-4B** LEARNING TO DISCRIMINATE STIMULUS ORIENTATION SHAPES RESPONSE PROPERTIES IN MOUSE PRIMARY VISUAL CORTEX  
*Ovidiu Jurjut, Sinem Erisken, Agne Vaiceliunaite, Laura Busse, Steffen Katzner, Tübingen*
- T16-5B** NEURONS IN VISUAL CORTEX RETAIN A MEMORY OF THEIR INPUTS AFTER MONOCULAR DEPRIVATION  
*Tobias Rose, Juliane Jäpel-Schael, Mark Hübener, Tobias Bonhoeffer, Martinsried*
- T16-1C** OCULAR DOMINANCE PLASTICITY AFTER STROKE WAS PRESERVED IN PSD-95 KNOCKOUT MICE  
*Franziska Greifzu, Daniel Parthier, Oliver M. Schlüter, Siegrid Löwel, Göttingen*
- T16-2C** ORIENTATION SELECTIVITY IN A NETWORK OF CORTICAL NEURONS *IN-VITRO*  
*Manuel Schottdorf, Hecke Schrobsdorff, Walter Stühmer, Fred Wolf, Göttingen*
- T16-3C** PROCESSING OF CONTRAST-MODULATED SECOND-ORDER STIMULI IN MOUSE VISUAL CORTEX.  
*Zeinab Khastkhodaei, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tübingen*
- T16-4C** REWARD EXPECTANCIES MODULATE SENSORY PROCESSING IN MOUSE PRIMARY VISUAL CORTEX  
*Alexandra Wal, Ovidiu Jurjut, Laura Busse, Steffen Katzner, Tübingen*
- T16-5C** SACCADE RELATED LAYER SPECIFIC LOCAL FIELD POTENTIAL ACTIVITY IN MACAQUE V1 DURING FREE VIEWING  
*Richard Meyes, Junji Ito, Yukako Yamane, Ichiro Fujita, Hiroshi Tamura, Sonja Grün, Jülich*
- T16-1D** SPATIAL INTEGRATION IN MOUSE V1 IS SHAPED BY NMDA RECEPTORS IN PARVALBUMIN-POSITIVE INTERNEURONS  
*Matilde Fiorini, Agne Vaiceliunaite, Sinem Erisken, Ovidiu Jurjut, Steffen Katzner, Laura Busse, Tuebingen*
- T16-2D** THE EFFECTS OF PULVINAR MICROSTIMULATION ON CORTICAL BOLD ACTIVITY IN THE BEHAVING MONKEY  
*Lydia Gibson, Melanie Wilke, Igor Kagan, Goettingen*
- T16-3D** THE PRESERVED OCULAR DOMINANCE PLASTICITY IN THE VISUAL CORTEX OF ENRICHED MICE IS HERITABLE  
*Evgenia Kalogeraki, Siegrid Löwel, Göttingen*
- T16-4D** THE RETINOTOPIC REPRESENTATION OF THE VISUAL WULST IN A LATERALLY EYED BIRD, THE ZEBRA FINCH (*TAENIOPYGIA GUTTATA*)  
*Neethu Michael, Hans Joachim Bischof, Göttingen*

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- T16-5D** THE YIN AND YANG OF CORTICAL PLASTICITY: THE ROLE OF POSTSYNAPTIC DENSITY PROTEINS 93 AND 95 FOR MOUSE VISION AND VISUAL CORTICAL PLASTICITY  
*Leon Hosang, Sophia Stodieck, Bianka Götze, Plinio D. Favaro, Oliver M. Schlüter, Siegrid Löwel, Göttingen*
- T17-1A** ANALYSIS OF STABILITY AND DEGRADATION OF OTOFERLIN AT NORMAL AND ELEVATED TEMPERATURE  
*Alexandra Müller, Christof Lenz, Sandra Meese, Hanan Al-Moyed, Henning Urlaub, Ellen Reisinger, Göttingen*
- T17-2A** AUDITORY TUNING IN AN INSECT EAR  
*Jennifer Hummel, Stefan Schöneich, Berthold Hedwig, Manfred Kössl, Manuela Nowotny, Frankfurt*
- T17-3A** BK CHANNELS ARE NOT THE TARGET OF THE NO-CGMP SIGNALING CASCADE IN MOUSE INNER HAIR CELLS  
*Isabelle Lang, Homburg*
- T17-4A** CHRONIC RADIOFREQUENCY EXPOSURE ALTERS GLYCINE RECEPTOR IMMUNOREACTIVITY IN THE MICE AUDITORY BRAINSTEM COMPLEX AT SAR 1.6W/KG.  
*Dhiraj Maskey, Myeung Ju Kim, Kathmandu, Nepal*
- T17-5A** ELECTRON MICROSCOPIC STUDY OF ASSEMBLY, MATURATION AND HETEROGENEITY OF INNER HAIR CELL RIBBON SYNAPSES  
*Susann Michanski, Rituparna Chakrabarti, Christian Fischer, Carolin Wichmann, Göttingen*
- T17-1B** GENDER DIFFERENCES IN THE HEARING ORGAN OF THE BUSHCRICKET *ANCYLECHA FENESTRATA*  
*Jan Scherberich, Jennifer Hummel, Manuela Nowotny, Frankfurt am Main*
- T17-2B** HOW PRIVATE IS PRIVATE - DETECTION OF FOREIGN SPECIES SIGNALS IN WEAKLY ELECTRIC FISH *APTERONOTUS LEPTORHYNCHUS*  
*Jan Grewe, Carlin Sachgau, Eileen Winkel, Jie Zhang, Jan Benda, Fabian Sinz, Tübingen*
- T17-3B** INVESTIGATION OF LONG-TERM DEPRESSION IN THE MEDIAL NUCLEUS OF TRAPEZOID BODY-LATERAL SUPERIOR OLIVE SYNAPSES OF DEVELOPING CIRCLING MICE  
*Jonu Pradhan, Seung Cheol Ahn, Kathmandu, Nepal*
- T17-4B** MEASURING SINGLE CELL RESPONSES IN THE *DROSOPHILA* HEARING ORGAN WITH TWO-PHOTON MICROSCOPY  
*Philipp Jähde, Martin C. Göpfert, Göttingen*
- T17-5B** NATURAL SCENES OF ELECTROCOMMUNICATION AND THEIR IMPLICATIONS FOR SENSORY PROCESSING  
*Jörg Henninger, Rüdiger Krahe, Jan Benda, Tübingen*
- T17-1C** NEURAL BASIS OF AIRBORNE VIBRATORY SIGNAL PROCESSING OF THE HONEYBEE *APIS MELLIFERA*  
*Kazuki Kai, Ajayrama Kumaraswamy, Philipp Rautenberg, Hidetoshi Ikeno, Thomas Wachtler, Hiroyuki Ai, Fukuoka, Japan*
- T17-2C** OPTICAL STIMULATION OF SPIRAL GANGLION NEURONS IN VITRO FOR LASER PULSE DURATIONS IN THE  $\mu$ S TO MS RANGE  
*Alexander Rettenmaier, Thomas Lenarz, Günter Reuter, Hannover*
- T17-3C** PHONOTACTIC BEHAVIOUR OF THE CICADA *OKANAGANA RIMOSA* (CICADIDAE, HOMOPTERA)  
*Liesa-Kristin Beuter, Nanina Tron, Reinhard Lakes-Harlan, Giessen*
- T17-4C** PHONOTACTIC FLIGHT BEHAVIOUR AND VERTICAL SOUND SOURCE LOCALIZATION OF THE PARASITOID FLY *EMBLEMASOMA AUDITRIX* (DIPTERA: SARCOPHAGIDAE)

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*Nanina Tron, Reinhard Lakes-Harlan, Giessen*

- T17-5C** PREFERENCES FOR ACOUSTIC SIGNALS AND DECISION MAKING BY FEMALE CRICKETS *GRYLLUS BIMACULATUS* IN CHOICE SITUATIONS  
*Eileen Gabel, Janine Kuntze, R. Matthias Hennig, Berlin*
- T17-1D** TEMPORAL STRUCTURE OF ELECTROCOMMUNICATION SIGNALS IN THE WAVE-TYPE ELECTRIC FISH *APTERONOTUS LEPTORHYNCHUS*  
*Juan Felipe Sehuanes, Fabian Sinz, Jan Benda, Tübingen*
- T17-2D** THE ROLE OF CA<sup>2+</sup> BINDING PROTEIN 2 (CABP2) IN SYNAPTIC SOUND ENCODING AND HEARING  
*Maria Magdalena Picher, Anna Gehrt, Sangyong Jung, Jakob Neef, Alexandra Ivanovic, Guy Van Camp, Tobias Moser, Göttingen*
- T17-3D** THE ROLE OF G PROTEIN G $\alpha_1$  ISOFORMS IN HEARING IN ADULT MICE  
*Sze Chim Lee, Ana Novakovic, Sandra Beer-Hammer, Mireille Montcouquiol, Bernd Nürnberg, Lukas Rüttiger, Marlies Knipper, Tübingen*
- T17-4D** ANALYSIS OF THE OTOFERLIN I515T MUTATION CAUSING TEMPERATURE DEPENDENT HEARING LOSS  
*Ellen Reisinger, Hanan Al-Moyed, Tina Pangrsic Vilfan, Alexandra Müller, Gerhard Hoch, Nils Brose, Tobias Moser, Carolin Wichmann, Nicola Strenzke, Göttingen*
- T17-5D** THE ROLE OF LRBA (LIPOPOLYSACCHARIDE-RESPONSIVE, BEIGE-LIKE ANCHOR PROTEIN) IN AUDITORY FUNCTION  
*Nicola Strenzke, Christian Vogl, Tanvi Butola, Tzu-Lun Wang, Michael Leitner, Natja Haag, Britta Qualmann, Michael Kessels, Tobias Moser, Dominik Oliver, Manfred Kilimann, Göttingen*
- T18-1A** ACTION POTENTIAL CONDUCTION VELOCITY IN LOW- AND HIGH FREQUENCY GLOBULAR BUSHY CELL AXONS MEASURED IN VIVO  
*Annette Stange-Marten, Benedikt Grothe, Michael Pecka, Planegg-Martinsried*
- T18-2A** ANAESTHESIA INDUCED CHANGES IN NEURONAL RESPONSE PROPERTIES IN MOUSE PRIMARY AUDITORY CORTEX  
*Simone Kurt, Bettina Joachimsthaler, Marina A. Egorova, Günter Ehret, Simone Kurt, Hannover*
- T18-3A** ANALYSIS OF ACUTE STRESS ON LONG-TERM VULNERABILITY AFTER AN ACOUSTIC INJURY IN A MATURE RAT MODEL  
*Philipp Carlos Armbruster, Wibke Singer, Lukas Rüttiger, Marlies Knipper, Tübingen*
- T18-4A** AUDITORY PROFILE OF CA<sup>V</sup>2.3 MICE USING AUDITORY BRAINSTEM RESPONSE (ABR) ANALYSIS  
*Anna Papazoglou, Andreas Lundt, Varum Raj Ginde, Thilo Kahl, Karl Broich, Marco Weiergraeber, Bonn*
- T18-5A** CATEGORIZATION OF AUDITORY STIMULI IN THE BEHAVING MOUSE  
*Chi Chen, Livia de Hoz García-Bellido, Goettingen*
- T18-6A** CHANGE OF CORTICAL ACTIVITY PATTERNS BY SELECTIVE APOPTOSIS OF AUDITORY CORTICOTHALAMIC FEEDBACK PROJECTIONS  
*Katja Saldeitis, Marcus Jeschke, Eike Budinger, Frank W. Ohl, Max F. K. Happel, Magdeburg*
- T18-7A** CHARACTERIZATION OF AN EXOTIC INHIBITORY SYNAPSE IN THE AUDITORY BRAINSTEM  
*Dennis J. Weingarten, Alexander Fischer, Nadine Patschull-Keiner, Eckhard Friauf, Kaiserslautern*
- T18-8A** CHARACTERIZATION OF OPTOGENETIC COCHLEA STIMULATION  
*Marcus Jeschke, Victor H Hernandez, Anna Gehrt, Zhizi Jing, Gerhard Hoch, Christian Goßler, Ulrich T Schwarz,*

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*Patrick Ruther, Michael Schwaerzle, Livia de Hoz, Nicola Strenzke, Tobias Moser, Goettingen*

- T18-9A** CHOLINERGIC SIGNALING ONTO SPHERICAL BUSHY CELLS IN THE COCHLEAR NUCLEUS OF THE GERBIL  
*Thomas Künzel, Richard Sinzig, Stefanie Kurth, David Goyer, Aachen*
- T18-10A** CONTEXT DEPENDENT MODULATION OF NEURONAL RESPONSE IN NUCLEUS NCM OF FREELY-MOVING ZEBRA FINCHES.  
*Mauricio Nicolas Adreani, Pietro Bruno DAmelio, Andries ter Maat, Manfred Gahr, Seewiesen*
- T18-11A** CROSS-MODAL PLASTICITY OF DORSAL AUDITORY CORTEX IN CONGENITAL DEAFNESS  
*Andrej Kral, Christiane Sprenger, Peter Baumhoff, Jochen Tillein, Peter Hubka, Stephen G. Lomber, Ruediger Land, Hannover*
- T18-12A** DEEP BRAIN STIMULATION AT THE INFERIOR COLLICULUS: A NEW ANIMAL MODEL TO STUDY PARADOXICAL KINESIA?  
*Liana Melo Thomas, Uwe Thomas, Marburg*
- T18-1B** DIFFERENCES IN NEURAL PLASTICITY ALONG THE AUDITORY PATHWAY BETWEEN ANIMALS WITH AND WITHOUT SUBJECTIVE TINNITUS  
*Konstantin Tziridis, Sönke Ahlf, Holger Schulze, Erlangen*
- T18-2B** DIFFERENTIAL ROLE OF SOLUBLE GUANYLYL CYCLASE (NO-GC) ISOFORMS IN AUDITORY FUNCTION IN ADULT MICE  
*Dorit Möhrle, Nicole Eichert, Steffen Wolter, Evanthia Mergia, Doris Koesling, Marlies Knipper, Lukas Rüttiger, Tübingen*
- T18-3B** DISCRETE REPRESENTATIONS IN MOUSE AUDITORY CORTEX AND THEIR STABILITY IN THE PRESENCE OF SYNAPTIC TURNOVER  
*Jens-Bastian Eppler, Dominik Aschauer, Matthias Kaschube, Simon Rumpel, Frankfurt*
- T18-4B** DOES GINKGO BILOBA EXTRACT EGB 761® HAVE A THERAPEUTIC EFFECT ON NOISE INDUCED HEARING LOSS AND SUBJECTIVE TINNITUS?  
*Patrick Krauss, Stefanie Buerbank, Konstantin Tziridis, Holger Schulze, Erlangen*
- T18-5B** DOPAMINE-MODULATED RECURRENT CORTICOEFFERENT FEEDBACK IN PRIMARY AUDITORY CORTEX: PERCEPTUAL SALIENCE AND MEMORY FUNCTION  
*Max Happel, Frank W. Ohl, Magdeburg*
- T18-6B** DYNAMICS AND PRECISION OF TEMPORAL RESPONSES IN THE MOUSE INFERIOR COLLICULUS  
*Günter Ehret, Marina A. Egorova, G.D. Khorunzhii, Ulm*
- T18-7B** EXCITATION - INHIBITION INTEGRATION IN A BINAURAL AUDITORY CIRCUIT  
*Enida Gjoni, Brice Bouhours, Friedemann Zenke, Tim Vogels, Wulfram Gerstner, Ralf Schneggenburger, Lausanne, Switzerland*
- T18-8B** EXPRESSION PROFILE OF VOLTAGE GATED K<sup>+</sup> CHANNELS IN THE MEDIAL SUPERIOR OLIVE  
*Sarah Anna Gleiss, Alisha Nabel, Felix Felmy, Planegg*
- T18-9B** FM-FM NEURONS IN THE MUSTACHED BAT ENCODE TARGET RANGE DEPENDING OF THE LEVEL OF THE CALL: NEURAL SPECIALIZATIONS FOR ECHO-LEVEL COMPENSATION  
*Silvio Macias Herrera, Emanuel C. Mora, Julio C. Hechavarría, Manfred Kössl, Frankfurt am Main*



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- T18-10B** GAPS OF SILENCE: HOW DO THEY AFFECT THE PERFORMANCE OF THE GLYCINERGIC MNTB-LSO SYNAPSES DURING PROLONGED STIMULATION?  
*Martin Fuhr, Eckhard Friauf, Kaiserslautern*
- T18-11B** HEARING LOSS IN ADULTHOOD MODIFIES INTERNEURONAL INTERACTION IN THE AUDITORY BRAINSTEM: A FOS STUDY OF THE RAT.  
*Nicole Rosskothén-Kuhl, Enya Paschen, Robert-Benjamin Illing, Freiburg*
- T18-12B** INFLUENCE OF ADAPTATION ON THE REPRESENTATION OF ITD IN THE BARN OWL'S ICX  
*Roland Ferger, Kerstin Pawlowsky, Martin Singheiser, Hermann Wagner, Aachen*
- T18-13B** SPATIAL UPDATE OF THE AUDITORY WORLD THROUGH VESTIBULAR AND PROPRIOCEPTIVE CUES  
*Daria Eva Irene Genzel, Uwe Firzlaff, Lutz Wiegrebe, Paul MacNeilage, Martinsried-Planegg*
- T18-1C** INFLUENCE OF EAR MOVEMENTS ON SPATIAL RECEPTIVE FIELDS IN THE BAT SUPERIOR COLLICULUS  
*Wolfgang Greiter, Alexander Warmbold, Paul MacNeilage, Lutz Wiegrebe, Uwe Firzlaff, Freising-Weihenstephan*
- T18-2C** INTEGRATION OF BIOSONAR AND VISUAL INFORMATION IN THE SUPERIOR COLLICULUS OF BATS.  
*Susanne Hoffmann, Mariana Matthes, Uwe Firzlaff, Harald Luksch, Freising-Weihenstephan*
- T18-3C** INVESTIGATION OF AUDITORY RECEPTIVE FIELDS IN NEURONS OF THE OPTIC TECTUM – DO GENERALISTS HAVE MULTIMODAL INTEGRATION?  
*Hans Andrea Schnyder, Freising*
- T18-4C** LAYER-SPECIFIC INTRACORTICAL MICROSTIMULATION OF PRIMARY AUDITORY CORTEX *IN VIVO*  
*Mathias Benjamin Voigt, Peter Baumhoff, Mika Sato, Andrej Kral, Hannover*
- T18-5C** MEANINGFUL BUT PASSIVE SOUND EXPOSURE INDUCES LONG LASTING AND SPATIALLY-RESTRICTED PLASTICITY IN ADULT INFERIOR COLLICULUS  
*Hugo Cruces Solis, Zhizi Jing, Nicola Strenzke, Livia de Hoz, Goettingen*
- T18-6C** MODEL PREDICTIONS OF HOW COCHLEAR GAIN LOSS AND NEUROPATHY AFFECT HUMAN AUDITORY BRAINSTEM RESPONSES  
*Sarah Verhulst, Oldenburg*
- T18-7C** NEURAL PROCESSING OF UNLEARNED CALLS IN SECONDARY AUDITORY AREAS IN A SONGBIRD.  
*Pietro Bruno D'Amelio, Mauricio Nicolas Adreani, Milena Klumb, Andries ter Maat, Seewiesen*
- T18-8C** OFF-RESPONSE FACILITATION IN MOUSE AUDITORY MIDBRAIN NEURONS TO MODELS OF COMMUNICATION CALLS  
*Alexander Grigorievich Akimov, Marina Alexandrovna Egorova, Günter Ehret, St. Petersburg, Russia*
- T18-9C** OPTIMIZING TEMPORARY INACTIVATION METHODS TO SELECTIVELY DEFINE THE IMPORTANCE OF DIFFERENT RAT AUDITORY CORTICAL AREAS  
*Ann-Kathrin Riegel, Bernhard H. Gaese, Frankfurt am Main*
- T18-10C** PERFORMANCE OF GLUTAMATERGIC SYNAPSES FROM THE COCHLEAR NUCLEUS TO THE LATERAL SUPERIOR OLIVE DURING PROLONGED STIMULATION  
*Katrin Janz, Eckhard Friauf, Kaiserslautern*

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- T18-11C** PHASIC AND TONIC CHANGES OF NEURONAL ACTIVITY IN PRIMATE AUDITORY CORTEX INDUCED BY THE DOPAMINERGIC VENTRAL MIDBRAIN  
*Judith Mylius, Max, F., K. Happel, Ying Huang, Henning Scheich, Michael Brosch, Magdeburg*
- T18-12C** PRE- AND POSTSYNAPTIC REFINEMENTS IN THE MEDIAL SUPERIOR OLIVE (MSO) DURING LATE POSTNATAL DEVELOPMENT  
*Delwen L. Franzen, Sarah A. Gleiss, Susanne Blank, Christian J. Kellner, Felix Felmy, Munich*
- T18-1D** ROLE OF MICRORNA-183-96 FOR DEVELOPMENT AND FUNCTION OF THE AUDITORY BRAINSTEM  
*Tina Schlüter, Elena Rosengauer, Hans Gerd Nothwang, Oldenburg*
- T18-2D** ROLE OF PARTICULATE GUANYLYL CYCLASE B/NATRIURETIC PEPTIDE RECEPTOR 2 (GC-B/NPR2) IN AUDITORY FUNCTION IN ADULT MICE  
*Steffen Wolter, Dorit Möhrle, Mahdieh Alinaghikhani, Dennis Zelle, Hannes Schmidt, Marlies Knipper, Lukas Rüttiger, Tübingen*
- T18-3D** SENSORIMOTOR FEEDBACK MAINTAINS AUDITORY OBJECTS FORMATION IN ZEBRA FINCHES (*TAENIOPYGIA GUTTATA*)  
*Shouwen Ma, Andries Ter Maat, Manfred Gahr, Seewiesen*
- T18-4D** SHORT-TERM AUDITORY ADAPTATION TO CONTINUOUS AND INTERRUPTED MOTION IN HUMAN  
*Alisa Petrovna Gvozdeva, Saint-Petersburg, Russia*
- T18-5D** SHORT-TERM PLASTICITY IN THE AUDITORY BRAINSTEM AND THE HIPPOCAMPUS: A COMPARATIVE STUDY OF THREE SYNAPTIC SYSTEMS  
*Elisa Krächan, Florian Kramer, Eckhard Friauf, Kaiserslautern*
- T18-7D** STARTLE-BASED TINNITUS ASSESSMENT IN RODENTS: IMPROVING EFFECTIVENESS AND RELIABILITY  
*Natalie Steube, Manuela Nowotny, Bernhard H. Gaese, Frankfurt/Main*
- T18-8D** STRUCTURAL AND FUNCTIONAL CHANGES IN THE MOUSE CENTRAL AUDITORY PATHWAY AFTER NOISE EXPOSURE  
*Moritz Gröschel, Susanne Müller, Romy Götze, Jana Ryll, Arne Ernst, Dietmar Basta, Berlin*
- T18-9D** TEMPORAL PRECISION OF SOUND-ONSET CODING IN THE MOUSE AUDITORY BRAINSTEM  
*Diana Beatrix Geissler, Elke Weiler, Günter Ehret, Ulm*
- T18-10D** TEMPORAL RESPONSE PROPERTIES IN THE RECEPTIVE FIELDS OF MOUSE PRIMARY AUDITORY CORTEX NEURONS  
*Marina Alexandrovna Egorova, Gleb Dmitrievich Khorunzhii, Günter Ehret, Simone Kurt, St. Petersburg, Russia*
- T18-11D** THE CONTINUOUS MOTION PERCEPTION THRESHOLDS FOR APPROACHING SOUND IMAGES WITH DIFFERENT RHYTHMIC STRUCTURES  
*Irina Germanovna Andreeva, Saint-Petersburg, Russia*
- T18-12D** THE ROLE OF L-TYPE  $Ca^{2+}$ -CHANNELS FOR DEVELOPMENT AND FUNCTION OF THE AUDITORY BRAINSTEM  
*Lena Ebbers, Somisetty V. Satheesh, Lukas Rüttiger, Katrin Janz, Marlies Knipper, Eckhard Friauf, Hans Gerd Nothwang, Oldenburg*
- T18-13D** TINNITUS DEVELOPMENT AFTER REPEATED ACOUSTIC OVERSTIMULATION  
*Lenneke Kiefer, Bernhard Gaese, Manuela Nowotny, Frankfurt/Main*

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- T19-1A** "SLOW SPONTANEOUS OSCILLATIONS IN MITRAL CELLS OF THE MOUSE ACCESSORY OLFACTORY BULB"  
*Monika Gorin, Marc Spehr, Aachen*
- T19-2A** "LOW ENERGY BALANCE" HORMONES MODULATE THE OLFACTORY RESPONSIVENESS  
*Diana Loch, Heinz Breer, Jörg Strotmann, Stuttgart*
- T19-3A** 3D-RECONSTRUCTION AS A TOOL TO STUDY POSTMETAMORPHIC CHANGES IN NEUROPEPTIDE PATTERN IN THE ANTENNAL LOBE OF *TRIBOLIUM CASTANEUM*  
*Milosz Krala, Kristof Hormann, Ulrich Tallarek, Joachim Schachtner, Marburg*
- T19-4A** A CD36 EXPRESSING SUBSET OF MURINE OLFACTORY NEURONS IS INVOLVED IN FATTY ACID DETECTION.  
*Eva M. Neuhaus, Sonja Oberland, Tobias Ackels, Stefanie Gaab, Thomas Pelz, Marc Spehr, Jena*
- T19-5A** A<sub>1</sub> RECEPTOR-MEDIATED MODULATION OF RECURRENT INHIBITION IN MOUSE OLFACTORY BULB MITRAL CELLS  
*Kristina Schulz, Natalie Rotermund, Christian Lohr, Daniela Hirnet, Hamburg*
- T19-6A** ACTIVATION OF THE OR37 SUBSYSTEM COINCIDES WITH A REDUCTION OF NOVEL ENVIRONMENT INDUCED ACTIVITY WITHIN THE PARAVENTRICULAR NUCLEUS OF THE HYPOTHALAMUS  
*Anna-Maria Maier, Bettina Klein, Verena Bautze, Jörg Strotmann, Stuttgart*
- T19-7A** ADENOSINE RECEPTOR A<sub>1</sub> MODULATES THE POTASSIUM CONDUCTANCE OF OLFACTORY BULB MITRAL CELLS  
*Svenja Winandy, Nadine Breitzkreutz, Natalie Rotermund, Christian Lohr, Daniela Hirnet, Hamburg*
- T19-8A** ADENOSINE-MEDIATED MODULATION OF OLFACTORY BULB NETWORK ACTIVITY AND ODOUR INFORMATION PROCESSING  
*Daniela Hirnet, Natalie Rotermund, Torsten Fregin, Melanie Buchta, Christian Lohr, Hamburg*
- T19-9A** ANATOMICAL AND FUNCTIONAL ORGANIZATION OF THE *DROSOPHILA* ANTENNAL LOBE: GLOMERULAR CONVERGENCE AND DIVERGENCE  
*Veit Grabe, Amelie E. E. Baschwitz, Bill S. Hansson, Silke Sachse, Jena*
- T19-10A** BRAIN COMPOSITION IN *GODYRIS ZAVALATA*, A DIURNAL BUTTERFLY, REFLECTS AN INCREASED RELIANCE ON OLFACTORY INFORMATION  
*Swidbert Roger Ott, Stephen H Montgomery, Leicester, United Kingdom*
- T19-11A** CA<sup>2+</sup> DEPENDENT K<sup>+</sup> CURRENTS IN UNIGLOMERULAR OLFACTORY PROJECTION NEURONS OF THE ANTENNAL LOBE  
*Viktor Bardos, Cathleen Bradler, Ben Warren, Sabine Schleicher, Andreas Klein, Peter Kloppenburg, Cologne*
- T19-12A** CA<sup>2+</sup>-ACTIVATED CL<sup>-</sup> CURRENTS IN THE VOMERONASAL ORGAN ARE MEDIATED BY ANOCTAMIN 1 AND ANOCTAMIN 2  
*Jonas Münch, Gwendolyn Billig, Thomas J. Jentsch, Berlin*
- T19-13A** CHEMO- AND THERMOSENSORY SIGNALING IN THE GRUENEBERG GANGLION  
*Joerg Fleischer, Katharina Schellig, Sabrina Stebe, Ying-Chi Chao, Ruey-Bing Yang, Heinz Breer, Stuttgart*
- T19-14A** CHEMOSENSORY CHARACTERISATION OF ANTRAL G-CELLS AND ITS NUTRIENT-INDUCED MODULATION OF GENEXPRESSION  
*Amelie Therese Rettenberger, Stuttgart*
- T19-15A** COEXPRESSION OF ANOCTAMINS IN CILIA OF OLFACTORY SENSORY NEURONS

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*Daniela Ricarda Drose, Bastian Henkel, Tobias Ackels, Marc Spehr, Eva Maria Neuhaus, Aachen*

- T19-16A** CO-EXPRESSION OF SIX TIGHTLY CLUSTERED OLFACTORY RECEPTOR GENES IN THE ANTENNA OF THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*  
*Jürgen Krieger, Tim Karner, Isabelle Kellner, Anna Schultze, Stuttgart*
- T19-1B** COMPARTMENT-SPECIFIC CALCIUM HANDLING PROPERTIES IN OLFACTORY PROJECTION NEURONS  
*Debora Fuscà, Ben Warren, Andreas Pippow, Christophe Pouzat, Peter Kloppenburg, Cologne*
- T19-2B** COMPOUND VALENCE IS CONSERVED IN BINARY ODOR MIXTURES IN *DROSOPHILA MELANOGASTER*  
*Michael Thoma, Bill S. Hansson, Markus Knaden, Jena*
- T19-3B** DISRUPTION OF KCC2 FROM MITRAL CELLS OF THE OLFACTORY BULB LEADS TO SPECIFIC ODOR DISCRIMINATION DEFECTS DUE TO DISREGULATED GABAERGIC INHIBITION  
*Kathrin Gödde, Dmytro Puchkov, Carsten K. Pfeffer, Thomas J. Jentsch, Berlin*
- T19-4B** EFFECT OF PIPERINE AND OTHER SENSORY ACTIVE COMPOUNDS ON HUMAN KCNK CHANNELS OF THE TASK AND TRESK SUBFAMILIES  
*Leopoldo Raul Beltran, Madeline Beltran, Caroline Flegel, Sascha Titt, Günter Gisselmann, Hanns Hatt, Bochum*
- T19-5B** EFFECTS OF NEONICOTINOID EXPOSURE ON THE HONEY BEE ODOR CODING  
*Mara Andrione, Martina Puppi, Quentin Badouin, Albrecht Haase, Renzo Antolini, Giorgio Vallortigara, Mattarello, Trento, Italy*
- T19-6B** EFFECTS OF SUBLETHAL DOSES OF A NEONICOTINOID INSECTICIDE ON THE OLFACTORY SYSTEM OF A MOTH  
*Kaouther RABHI, Kali Esancy, Elodie Demondion, Philippe Lucas, H  l  ne Tricoire-Leignel, Sylvia Anton, Christophe Gadenne, Beaucauz  , France*
- T19-7B** ELECTROPHYSIOLOGICAL ANALYSIS OF CONCENTRATION CODING AND LEARNING IN THE HONEYBEE DUAL OLFACTORY SYSTEM  
*Maren Reuter, Martin Strube-Bloss, Martin Brill, Wolfgang R  ssler, W  rzburg*
- T19-8B** ENTRAINED SLOW OSCILLATORY ACTIVITY IN MITRAL CELLS OF THE MOUSE ACCESSORY OLFACTORY BULB  
*Chryssanthi Tsitoura, Katja Watznauer, Monika Gorin, Marc Spehr, Aachen*
- T19-9B** EVIDENCE FOR DAYTIME- AND PHEROMONE DOSE-DEPENDENT METABOTROPIC SIGNAL TRANSDUCTION CASCADES IN THE HAWKMOTH *MANDUCA SEXTA*  
*Petra Gawalek, Robin Schumann, Thomas Schendzielorz, Andreas Nolte, Monika Stengl, Kassel*
- T19-10B** *EX VIVO* FUNCTIONAL IMAGING OF OLFACTORY SENSORY NEURONS IN *DROSOPHILA MELANOGASTER*  
*Fabio Miazzi, Sabine Kaltofen, Bill S. Hansson, Dieter Wicher, Jena*
- T19-11B** EXPRESSION OF GUSTATORY RECEPTORS IN CHEMOSENSORY ORGANS AND THE ALIMENTARY TRACT OF *HELIOTHIS VIRESCENS*  
*Jennifer Reuck, Heinz Breer, J  rgen Krieger, Stuttgart*
- T19-12B** FUNCTIONAL IMAGING OF CORTICAL FEEDBACK PROJECTIONS FROM THE ANTERIOR OLFACTORY NUCLEUS TO THE MOUSE OLFACTORY BULB  
*Markus Rothermel, Matt Wachowiak, Aachen*
- T19-13B** GLOMERULAR STRUCTURE OF THE CENTRAL NERVOUS PROJECTIONS FROM SCORPION PECTINES: STRUCTURAL DETAILS AND GENDER DIFFERENCES

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*Harald Wolf, Ulm*

- T19-14B** HIGH CONSERVATION OF FAMILY SIZE AND GENOMIC STRUCTURE OF ORA OLFACTORY RECEPTOR GENES IN TWELVE TELEOST SPECIES  
*Veronika Zapilko, Sigrun Korsching, Köln*
- T19-15B** HIGH FAT FEEDING AFFECTS THE NUMBER OF GPR120 CELLS AND ENTEROENDOCRINE CELLS IN THE MOUSE STOMACH  
*Patricia Widmayer, Hannah Goldschmid, Helena Henkel, Markus Küper, Alfred Königsrainer, Heinz Breer, Stuttgart*
- T19-16B** IDENTIFICATION OF A NATURAL SOURCE FOR THE OR37B LIGAND  
*Verena Bautze, Wolfgang Schwack, Heinz Breer, Joerg Strotmann, Stuttgart*
- T19-1C** ILLUMINATING THE FUNCTION OF INHIBITORY MICROCIRCUITS IN THE ZEBRAFISH HOMOLOGUE OF OLFACTORY CORTEX  
*Thomas Frank, Rainer W Friedrich, Basel, Switzerland*
- T19-2C** IMAGING MOLECULAR VIBRATION SENSING IN HONEYBEE OLFACTORY CIRCUIT  
*Marco Paoli, Elisa Rigosi, Roberto Canteri, Giorgio Vallortigara, Renzo Antolini, Albrecht Haase, Trento, Italy*
- T19-3C** INVOLVEMENT OF THE GPCR, DOPECR, IN THE MODULATION OF OLFACTORY-GUIDED BEHAVIOUR IN A MOTH  
*Sylvia Anton, Antoine Abrieux, Line Duportets, Stéphane Debernard, Christophe Gadenne, Angers, France*
- T19-4C** KENYON CELL PLASTICITY IN ADULT RED FLOUR BEETLES  
*Björn Trebels, Joachim Schachtner, Marburg*
- T19-5C** MAGNETIC FIELD-DRIVEN INDUCTION OF ZENK IN THE TRIGEMINAL SYSTEM OF PIGEONS (COLUMBA LIVIA).  
*Nele Annika Lefeldt, Dominik Heyers, Nils-Lasse Schneider, Svenja Engels, Dana Elbers, Henrik Mouritsen, Houston, USA*
- T19-6C** METAMORPHOTIC REMODELING OF THE OLFACTORY ORGAN OF THE AFRICAN CLAWED FROG *XENOPUS LAEVIS*  
*Katarina Dittrich, Thomas Hassenklöver, Ivan Manzini, Göttingen*
- T19-7C** MOLECULAR BASIS OF OLFACTORY RECEPTOR EVOLUTION IN CLOSELY RELATED *ANOPHELES* MOSQUITOES  
*Stefanie Blankenburg, Sharon R. Hill, Rickard Ignell, Alnarp, Sweden*
- T19-8C** MOLECULAR ELEMENTS IN THE DETECTION OF THE MINOR SEX PHEROMONE COMPONENT IN *HELIOTHIS VIRESCENS*  
*Monika Zielonka, Pablo Pregitzer, Jürgen Krieger, Stuttgart*
- T19-9C** MORPHOLOGICAL ANALYSIS OF MITRAL CELL POPULATIONS IN THE MOUSE ACCESSORY OLFACTORY BULB  
*Katja Watznauer, Monika Gorin, Marc Spehr, Aachen*
- T19-10C** MULTIMODAL CODING IN THE GUSTATORY SYSTEM OF THE DROSOPHILA LARVAE  
*Lena van Giesen, Simon G. Sprecher, Fribourg, Switzerland*
- T19-11C** NEUROCELLULAR BASIS OF OLFACTORY ACUMEN IN THE AFRICAN GIANT RAT (*CRICETOMYS GAMBIANUS*)  
*Matthew Ayokunle Olude, James Olukayode Olopade, Amadi Ogonda Ihunwo, Abeokuta, Morocco*
- T19-12C** NEUROPEPTIDES AND BLOOD FEEDING BEHAVIOR –

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### A QUANTITATIVE ANALYSIS IN *AEDES AEGYPTI*

*Peter Christ, Anna Reifenrath, Jörg Kahnt, Sharon R. Hill, Frank Hauser, Rickard Ignell, Joachim Schachtner, Marburg*

- T19-13C** NEUROPEPTIDES AND MATING BEHAVIOR – A QUANTITATIVE ANALYSIS IN *AEDES AEGYPTI*  
*Anna Reifenrath, Peter Christ, Jörg Kahnt, Sharon R. Hill, Frank Hauser, Rickard Ignell, Joachim Schachtner, Marburg*
- T19-14C** OCTOPAMINE MODULATES THE EXCITABILITY OF IDENTIFIED OLFACTORY INTERNEURONS IN THE COCKROACH ANTENNAL LOBE  
*Sandra Wendler, Cathleen Bradler, Peter Kloppenburg, Cologne*
- T19-15C** ODOR RESPONSES OF *DROSOPHILA* RECEPTOR NEURONS – RESPONSE PROFILES, MIXTURES AND INDIVIDUAL RESPONSE DYNAMICS  
*Daniel Münch, Thomas Laudes, Jennifer S. Ignatious Raja, Anja Nissler, C. Giovanni Galizia, Konstanz*
- T19-16C** OLFACTORY IMPRINTING AND PERK RELATED CELLULAR ACTIVITY IN THE ZEBRAFISH OLFACTORY SYSTEM  
*Daniela Biechl, Kristin Tietje, Iori Namekawa, Rainer Friedrich, Mario F. Wullimann, Gerlach Gabriele, Planegg-Martinsried*
- T19-1D** ORCO EXPRESSION DURING LARVAL AND PUPAL DEVELOPMENT OF THE RED FLOUR BEETLE *TRIBOLIUM CASTANEUM*  
*Joachim Schachtner, Carolin Knoll, Stefan Dippel, Björn Trebels, Marburg*
- T19-2D** ORGANIZATION OF THE BLOOD–BRAIN BARRIER IN THE OLFACTORY NERVE LAYER  
*Antonia Benita Beiersdorfer, Janine Grawe, Melissa Malekpour, Kristina Buddrus, Hartwig Wolburg, Christian Lohr, Hamburg*
- T19-3D** ORIGIN OF HIGH VARIABILITY IN COLONY ODOR REPRESENTATION IN THE ANTS' BRAIN  
*Stefanie Neupert, Bernd Meyer, Christoph J. Kleineidam, Konstanz*
- T19-4D** PHYSIOLOGICAL CHARACTERIZATION OF FORMYL PEPTIDE RECEPTOR EXPRESSING CELLS IN THE MOUSE VOMERONASAL ORGAN  
*Tobias Ackels, Benoît von der Weid, Ivan Rodriguez, Marc Spehr, Aachen*
- T19-5D** POSTMETAMORPHIC PLASTICITY IN THE INTRINSIC NEUROPEPTIDE REPERTOIRE OF THE *TRIBOLIUM CASTANEUM* ANTENNAL LOBES  
*Stefan Ries, Christoph Nolte, Marlene Binzer, Jörg Kahnt, Joachim Schachtner, Marburg*
- T19-6D** POST-STIMULUS ACTIVITY IN THE OLFACTORY PATHWAY OF *DROSOPHILA*  
*Alja Lüdke, Georg Raiser, C. Giovanni Galizia, Paul Szyszka, Konstanz*
- T19-7D** REGENERATION IN THE INSECT OLFACTORY SYSTEM  
*Hannah Wasser, Michael Stern, Hannover*
- T19-8D** REPRESENTATION OF ODOR INFORMATION IN HIGHER BRAIN CENTERS OF THE VINEGAR FLY  
*Amelie Erika Elfriede Baschwitz, Jan Sölter, Antonia Strutz, Bill S. Hansson, Silke Sachse, Jena*
- T19-9D** SULFATED STEROIDS ARE CHEMOSENSORY STIMULI OF BOTH THE MAIN AND ACCESSORY OLFACTORY SYSTEM OF *XENOPUS LAEVIS*  
*Alfredo Sansone, Thomas Hassenklöver, Ivan Manzini, Göttingen*

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- T19-10D** TEMPORAL PROCESSING OF ODOR STIMULI FROM OLFACTORY RECEPTOR NEURONS TO PROJECTION NEURONS  
*Carlotta Martelli, Andre' Fiala, Göttingen*
- T19-11D** THE NEURONAL AND MOLECULAR BASIS OF CAFFEINE TASTE SIGNALING IN *DROSOPHILA* LARVAE  
*Anthi A. Apostolopoulou, Saskia Köhn, Michael Lutz, Alexander Wüst, Lorena Mazija, Anna Rist, C. Giovanni Galizia, Alja Lüdke, Andreas S. Thum, Konstanz*
- T19-12D** TO GO OR NOT TO GO? - BEHAVIORAL RESPONSES TO BINARY MIXTURES OF ATTRACTIVE AND AVERSIVE ODORS  
*Tom Retzke, Ahmed A. M. Mohamed, Markus Knaden, Silke Sachse, Bill S. Hansson, Jena*
- T19-13D** TO GO OR NOT TO GO? OLFACTORY PROCESSING OF ODOR FEATURES: GOOD VS. BAD  
*Ahmed A.M. Mohamed, Tom Retzke, Markus Knaden, Bill S. Hansson, Silke Sachse, Jena*
- T19-14D** TWO OCTOPAMINERGIC VUM NEURONS BILATERALLY INNERVATE MUSCLES AND SENSORY EPITHELIA OF THE HONEYBEE ANTENNA  
*Stephan Shuichi Haupt, Bielefeld*
- T19-15D** UNIQUE CONNECTIVITY FROM OR37 EXPRESSING OLFACTORY SENSORY NEURONS TO HIGHER BRAIN CENTERS  
*Jörg Strotmann, Andrea Bader, Bettina Klein, Heinz Breer, Stuttgart*
- T19-16D** VASOPRESSIN DEPRESSES EXCITATORY SYNAPTIC TRANSMISSION IN MITRAL CELLS OF THE OLFACTORY BULB  
*Michael Lukas, Veronica Egger, Regensburg*
- T20-1A** A COMBINED SETUP FOR NEURONAL RECORDINGS AND BEHAVIORAL MEASUREMENTS BASED ON A THERMAL STIMULATION DEVICE FOR PAIN INDUCTION IN MICE  
*Achim Schilling, Konstantin Tziridis, Holger Schulze, Erlangen*
- T20-2A** A GIANT DESCENDING INTERNEURON IN THE STICK INSECT CONVEYING INFORMATION ABOUT ANTENNAL MOVEMENT AND SUBSTRATE VIBRATION  
*Gaetan Lepreux, Jan Marek Ache, Stephan Shuichi Haupt, Volker Dürr, Bielefeld*
- T20-3A** A MODEL FOR TEMPERATURE-DEPENDENT LOCOMOTION IN *DROSOPHILA MELANOGASTER*  
*Andrea Klara Adden, Martin C. Göpfert, Bart R. H. Geurten, Göttingen*
- T20-4A** A VIRTUAL TACTILE ENVIRONMENT TO STUDY SENSORIMOTOR PROCESSING IN MOUSE NEOCORTEX DURING LOCOMOTION  
*Andreas Stäuble, Asli Ayaz, Fritjof Helmchen, Zürich, Switzerland*
- T20-5A** COLD DOG NOSES ARE SENSITIVE TO BODY HEAT RADIATION  
*Ronald H. H. Kröger, Lund, Sweden*
- T20-1B** ELECTROPHYSIOLOGICAL INVESTIGATION OF ANESTHESIA IN LOBSTERS  
*Torsten Fregin, Ulf Bickmeyer, Bremerhaven*
- T20-2B** EXTRACTION OF SPATIAL INFORMATION FROM INFRARED-INPUT IN THE PRIMARY INFRARED SENSITIVE NUCLEUS (LTDD) OF RATTLESNAKES  
*Maximilian S. Bothe, Tobias Kohl, Harald Luksch, Freising*
- T20-3B** INTEGRATION OF VISUAL AND TACTILE INPUTS IN A CRICKET ANTENNAL GIANT FIBRE  
*Timothy George Bayley, Berthold Hedwig, Cambridge, United Kingdom*

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- T20-4B** NEW AGONISTS FOR INSECT STRETCH RECEPTORS  
*Christian Spalthoff, Alexandre Nesterov, Ramani Kandasamy, Radoslaw Katana, Vincent L. Salgado, Martin C. Göpfert, Göttingen*
- T20-1C** NON-VISUAL FUNCTIONS OF VISUAL OPSINS  
*Diego Giraldo, Damiano Zanini, Marta Andrés, Bart R. H. Geurten, Martin C. Göpfert, Göttingen*
- T20-2C** OPTOPHYSIOLOGICAL INVESTIGATION ON THE INTEGRAL ROLE OF OCTOPAMINERGIC NEURONS IN THE MOTOR NEURON SYSTEM OF *DROSOPHILA MELANOGASTER*  
*Florian Bilz, Saskia Nagel, Hans-Joachim Pflüger, Marco Schubert, Berlin*
- T20-3C** PHYSIOLOGY OF THE FEMORAL CHORDOTONAL ORGAN OF ADULT *DROSOPHILA MELANOGASTER*  
*Joscha Arne Alt, Reinhard Lakes-Harlan, Giessen*
- T20-4C** REPRESENTING INFRARED SPACE USING TOPOGRAPHIC MICROSTIMULATION IN THE BARREL CORTEX OF THE RAT  
*Konstantin Hartmann, Eric E. Thomson, Miguel A. L. Nicolelis, Durham, NC, USA*
- T20-1D** SETTING THE CLOCK: ELECTROPHYSIOLOGICAL AND OPTOGENETIC CHARACTERISATION OF LIGHT AND TEMPERATURE ENTRAINMENT IN *DROSOPHILA*  
*Edgar Buhl, Maite Ogueta-Gutierrez, Chenghao Chen, Adam Bradlaugh, Ralf Stanewsky, James JL Hodge, Bristol, United Kingdom*
- T20-2D** STIMULUS PREFERENCE PROFILES OF WHISKER SENSITIVE NEURONS IN TRIGEMINAL NUCLEI  
*Shubo Chakrabarti, Andre Maia-Chagas, Cornelius Schwarz, Tübingen*
- T20-3D** THERMOSENSATION IN THE ANT *CAMPONOTUS RUFIPES*  
*Manuel Nagel, Christoph J. Kleineidam, Konstanz*
- T20-4D** TIGHT COUPLING OF MULTIPLE DESENSITIZATION MECHANISMS IN MECHANOTRANSDUCER CURRENTS OF DRG NEURONS  
*Janez Prešern, Ale korjanc, Toma Rodic, Jan Benda, Tübingen*
- T20-5D** VIP EXPRESSING INTERNEURONS IN LAYER II/III OF THE BARREL CORTEX  
*Alvar Prönncke, Bianca Scheuer, Mirko Witte, Martin Möck, Jochen F. Staiger, Göttingen*
- T21-1A** 3D REACH CAGE FOR MOVEMENT PLANNING IN EXTRAPERSONAL SPACE  
*Michael Berger, Alexander Gail, Göttingen*
- T21-2A** A COMPREHENSIVE APPROACH FOR THE AUTOMATED MEASUREMENT OF KINEMATIC PARAMETERS DURING WALKING IN *DROSOPHILA*  
*Till Bockemühl, Ansgar Büschges, Köln*
- T21-3A** A DESCENDING INTERNEURON THAT UNDERLIES TURNING BEHAVIOR IN FLYING *DROSOPHILA*  
*Bettina Schnell, Shigehiro Namiki, Wyatt Korff, Gwyneth M. Card, Michael H. Dickinson, Seattle, USA*
- T21-4A** A MODEL OF INTER-SEGMENTAL COORDINATION PRODUCING TRIPOD AND TETRAPOD COORDINATION PATTERNS OF INSECTS  
*Tibor Istvan Toth, Silvia Daun-Gruhn, Cologne*



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- T21-5A** AUDIO-VOCAL INTERACTION IN THE MONKEY PREFRONTAL CORTEX  
*Steffen R Hage, Andreas Nieder, Tübingen*
- T21-6A** BODY SIDE-SPECIFIC MODIFICATION OF LOAD PROCESSING DURING TURNING IN THE STICK INSECT  
*Matthias Gruhn, Philipp Rosenbaum, Anke Borgmann, Ansgar Büschges, Koeln*
- T21-7A** CELLULAR MECHANISMS UNDERLYING BEHAVIOURAL STATE-DEPENDENT MODULATION OF MOTOR CORTEX OUTPUT *IN VIVO*  
*Julia Schiemann, Paolo Puggioni, Miha Pelko, Joshua Dacre, Mark C.W. van Rossum, Ian Duguid, Edinburgh, United Kingdom*
- T21-8A** *CHANGING CODES* - MODULATION OF AXONAL SPIKING IN A SENSORY NEURON BY DESCENDING PROJECTION NEURONS  
*Carola Städele, Wolfgang Stein, Ulm*
- T21-1B** COMMAND AND CONTROL – NONSPIKING INTERNEURONS MODIFY SPECIFIC PARAMETERS OF SEARCHING MOVEMENTS  
*Eva Berg, Ansgar Büschges, Joachim Schmidt, Köln*
- T21-2B** CONTRIBUTION OF RGMA INHIBITION TO RECOVERY OF MOTOR FUNCTIONS AFTER SPINAL CORD INJURY IN MACAQUES  
*Hiroshi Nakagawa, Taihei Ninomiya, Toshihide Yamashita, Masahiko Takada, Inuyama Aichi, Japan*
- T21-3B** CORTICAL CONTROL OF LANGUAGE-RELATED MUSCLES IN SPEECH PRODUCTION  
*Valentina Ferpozzi, Luca Fornia, Tommaso Alfiero, Marco Riva, Enrica Fava, Lorenzo Bello, Gabriella Cerri, Milan, Italy*
- T21-4B** CPG NEURONS FOR SPECIES-SPECIFIC SINGING IN CRICKET SPECIES  
*Pedro Jacob, Berthold Hedwig, Cambridge, United Kingdom*
- T21-5B** DESCENDING TYRAMINERGIC/OCTOPAMINERGIC LOCUST BRAIN NEURONS.  
*Hans-Joachim Pflüger, Sergej Hartfil, Natalia Kononenko, Berlin*
- T21-6B** ENCODING OF VOLITIONAL INITIATION OF VOCALIZATION IN THE MACAQUE'S ANTERIOR CINGULATE CORTEX.  
*Natalja Gavrilov, Steffen R. Hage, Andreas Nieder, Tübingen*
- T21-7B** FREQUENCY-SELECTIVE FUNCTIONAL CORTICO-CORTICAL INTERACTIONS BETWEEN MONKEY PARIETAL REACH REGION AND DORSAL PREMOTOR CORTEX IN MEMORY GUIDED REACHING MOVEMENTS  
*Pablo Martinez Vazquez, Christian Klaes, Stephanie Westendorff, Alexander Gail, Goettingen*
- T21-8B** FROM VISION TO ACTION: A COMPARATIVE POPULATION STUDY OF HAND GRASPING AREAS AIP, F5, AND M1  
*Stefan Schaffelhofer, Hansjörg Scherberger, Göttingen*
- T21-9B** GRADED NEURAL SELECTIVITY WITH GRADED PREFERENCE FOR RULE-BASED REACH GOALS IN MONKEY SENSORIMOTOR CORTEX  
*Lalitta Suriya-Arunroj, Alexander Gail, Goettingen*
- T21-1C** GRASP FORCE CODING IN F5 AND AIP IN A DELAYED GRASPING TASK  
*Rijk W Intveld, Hansjoerg Scherberger, Goettingen*
- T21-2C** HABENULA CIRCUITRY CONTROLLING THE DOPAMINERGIC SYSTEM IN ANURAN AMPHIBIANS

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*Lars Freudenmacher, Vyara Todorova, Wolfgang Walkowiak, Köln*

- T21-3C** HABENULAR GLUTAMATERGIC EXCITATION OF VTA/SNC NEURONS IN LAMPREY  
*Arndt von Twickel, Wolfgang Walkowiak, Sten Grillner, Cologne*
- T21-4C** HOW TO FIND HOME BACKWARDS? REVERSE WALKING IN *CATAGLYPHIS FORTIS* DESERT ANTS  
*Sarah Elisabeth Pfeffer, Matthias Wittlinger, Ulm*
- T21-5C** JOINT MOMENTS IN THE LIMBS OF AN INSECT WALKING FREELY ON STABLE AND UNSTABLE GROUND  
*Chris Julian Dallmann, Josef Schmitz, Bielefeld*
- T21-6C** LATERALITY OF GRASP-RELATED ACTIVITY IN MACAQUE AREAS AIP AND F5  
*Jonathan A Michaels, Hansjörg Scherberger, Göttingen*
- T21-7C** LOSS OF THE CALCIUM CHANNEL  $\beta_4$  SUBUNIT REDUCES THE PACEMAKER FREQUENCY OF CEREBELLAR PURKINJE NEURONS IN ATAXIC MICE  
*Bruno Benedetti, Bernhard E. Flucher, Innsbruck, Austria*
- T21-8C** MODULATION OF REACH ADAPTATION THROUGH TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS) IN PATIENTS WITH CEREBELLAR DEGENERATION  
*Liane John, Michael Küper, Thomas Hulst, Joachim Hermsdörfer, Opher Donchin, Dagmar Timmann, Essen*
- T21-9C** MOTOR ACTIVITY IN THE THREE MAJOR LEG JOINTS OF THE TURNING STICK INSECT IS MODIFIED IN A CONTEXT-SPECIFIC WAY  
*Elzbieta Godlewska, Ansgar Büschges, Matthias Gruhn, Cologne*
- T21-1D** PROBING THE FUNCTION OF MOTONEURON DENDRITES IN *DROSOPHILA*  
*Carsten Duch, Natalie Schützler, Stefanie Ryglewski, Mainz*
- T21-2D** SPEED-DEPENDENT INTERPLAY BETWEEN CPG ACTIVITY AND SENSORY FEEDBACK DURING WALKING IN *DROSOPHILA*  
*Volker Berendes, Ansgar Büschges, Till Bockemühl, Cologne*
- T21-3D** SUBESOPHAGEAL MODULATION OF THORACIC MOTOR ACTIVITY IN THE STICK INSECT  
*Thomas Stolz, Joachim Schmidt, Cologne*
- T21-4D** TASK- AND SEGMENT-SPECIFICITY OF MOVEMENT FEEDBACK SIGNAL PROCESSING IN A CURVE STEPPING INSECT  
*Joscha Schmitz, Ansgar Büschges, Köln*
- T21-5D** THE EFFECT OF HUNGER ON MUSCLE INNERVATION BY OCTOPAMINERGIC NEURONS IN LARVAE OF *DROSOPHILA MELANOGASTER*  
*Konstantin Lehmann, Thomas Mathjczyk, Hans-Joachim Pflüger, Berlin*
- T21-6D** THE ROLE OF LEG TOUCHDOWN FOR THE CONTROL OF LOCOMOTOR ACTIVITY IN THE STEPPING STICK INSECT LEG  
*Ansgar Büschges, Joscha Schmitz, Volker Berendes, Matthias Gruhn, Cologne*
- T21-7D** TIME-DEPENDENT EFFECTS OF PULVINAR MICROSTIMULATION ON VISUALLY-GUIDED SACCADDES AND TARGET SELECTION  
*Adan Ulises Dominguez-Vargas, Lukas Schneider, Igor Kagan, Melanie Wilke, Goettingen*

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- T21-8D** WALKING AND RUNNING IN DESERT ANTS - GAIT PARAMETERS AT DIFFERENT WALKING SPEEDS IN THE ANT, *CATAGLYPHIS FORTIS*  
*Matthias Wittlinger, Verena Wahl, Ulm*
- T22-1A** EPENDYMAL CILIA GENERATE COMPLEX FLOW PATTERNS OF CEREBROSPINAL FLUID  
*Regina Johanna Faubel, Christian Westendorf, Eberhard Bodenschatz, Gregor Eichele, Göttingen*
- T22-2A** EXCITATION-INHIBITION BALANCE OF HYPOTHALAMIC OREXINERGIC NEURONS IN THE OBESE (*OB/OB*) MOUSE  
*Thorsten Becker, Luigia Cristino, Vincenzo Di Marzo, Giuseppe Busetto, Verona, Italy*
- T22-1B** MAPPING OF FOS EXPRESSION IN MESENCEPHALIC PERIAQUEDUCTAL GRAY AND DEEP TECTAL NUCLEI OF PIGEONS (*COLUMBA LIVIA*) AFTER TONIC IMMOBILITY.  
*Fernando Falkenburger Melleu, Cilene Lino de Oliveira, José Marino Neto, Florianópolis, Brazil*
- T22-1C** MODULATION OF IDENTIFIED PARAVENTRICULAR NUCLEUS NEURONS BY FUEL SENSING SIGNALS  
*Andreas C. Klein, Simon Hess, Jens C. Brüning, Peter Kloppenburg, Cologne*
- T22-2C** MOLECULAR EFFECTS OF OXYTOCIN ON STRESS:  
OXYTOCIN DELAYS CRF GENE EXPRESSION THROUGH CRT3  
  
*Benjamin Jurek, David A Slattery, Ying Liu Liu, Greti Aguilera, Erwin H van den Burg, Inga D Neumann, Regensburg*
- T22-1D** SEXUALLY DIMORPHIC EFFECTS OF FLUOXETINE IN THE REPEATED FORCED SWIMMING TEST: THE CONTRIBUTION OF THE SEROTONINERGIC METABOLISM IN THE BRAIN.  
*Cilene Lino de Oliveira, Aniceto Poli, Áurea Elizabeth Linder, José Marino Neto, Fernanda B. Lima Christian, Inae Spezia, Lais Cristina Theindl, Fernando Melleu, Karolina Domingues, Florianópolis, Brazil*
- T22-2D** SIMILARITIES WITHIN ARTHROPOD NEUROENDOCRINE SYSTEMS  
*Anja Dünnebeil, Andrea Wirmer, Ulm*
- T23-1A** ANALYSIS OF LIGHT ENTRAINMENT PATHWAYS FROM THE COMPOUND EYE TO THE CIRCADIAN CLOCK OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*  
*Julia Yvonne Gestrich, Azar Massah, Andreas Arendt, Monika Stengl, Kassel*
- T23-2A** BMAL1-DEFICIENCY AFFECTS NEURAL PROGENITOR PROLIFERATION AND FATE  
*Beryl Schwarz-Herzke, Amira Ali, Anna Stahr, Timour Prozorowski, Orhan Aktash, Charlotte von Gall, Düsseldorf*
- T23-3A** CONVERGENCE OF MORPHOLOGICAL AND PHYSIOLOGICAL PROPERTIES IN A HUB NEURON IN A COORDINATING NETWORK  
*Felix Blumenthal, Henriette A. Seichter, Carmen Smarandache-Wellmann, Köln*
- T23-4A** CROSS-MODAL MODULATION OF SPIKING PATTERNS IN THE PRIMARY SOMATOSENSORY CORTEX OF BROWN NORWAY RATS  
*Malte Bieler, Nicole Cichon, Kay Sieben, Ileana Hanganu-Opatz, Hamburg*
- T23-5A** CYCLIC NUCLEOTIDE OSCILLATIONS IN THE CIRCADIAN PACEMAKER OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*  
*Andreas Arendt, Julia Schendzielorz, Thomas Schendzielorz, Monika Stengl, Kassel*
- T23-6A** DIFFERENT SPATIAL AND TEMPORAL ACTIVATION PATTERNS IN THE PERIRHINAL AND ENTORHINAL CORTEX IN RESPONSE TO AFFERENT STIMULATION OF THE NEOCORTEX AND AMYGDALA

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*Janske Willems, Pascal Chameau, Taco Werkman, Wytse Wadman, Natalie Cappaert, Amsterdam, Netherlands*

- T23-7A** DISSECTING THE BALANCE BETWEEN EXCITATION AND INHIBITION IN THE CA1 AND DG REGIONS OF THE HIPPOCAMPUS  
*Sicco de Knecht, Wytse Wadman, Pascal Chameau, Amsterdam, Netherlands*
- T23-8A** FIRING PATTERNS OF IDENTIFIED NEURONS IN THE MEDIAL SEPTUM/DIAGONAL BAND NUCLEUS AND THEIR RELATIONSHIP TO BEHAVIOUR AND HIPPOCAMPAL NETWORK OSCILLATIONS  
*Tim James Viney, Abhilasha Joshi, Peter Somogyi, Oxford, United Kingdom*
- T23-9A** FUNCTIONAL ANALYSIS OF THE *RHYPAROBIA MADERAE* MOLECULAR CLOCK  
*Achim Werckenthin, Monika Stengl, Kassel*
- T23-10A** GLUTAMATERGIC SYSTEM CONTROLS SYNCHRONIZATION OF SPONTANEOUS NEURONAL ACTIVITY IN THE MURINE NEONATAL ENTORHINAL CORTEX  
*Petr Unichenko, Jenq-Wei Yang, Heiko J. Luhmann, Sergei Kirischuk, Mainz*
- T23-1B** INFLUENCE OF LFP-INDEPENDENT SPIKES ON IN-VIVO LFPS  
*Stephan Waldert, Roger N. Lemon, Alexander Kraskov, London, United Kingdom*
- T23-2B** INTRA- AND INTER-SEGMENTAL COORDINATION OF RHYTHMIC MOTOR ACTIVITY IN THE WALKING SYSTEM OF THE STICK INSECT  
*Charalampos Mantziaris, Ansgar Büschges, Anke Borgmann, Cologne*
- T23-3B** INTRACELLULAR CALCIUM RESPONSES TO THE NEUROTRANSMITTER GABA IN CIRCADIAN PACEMAKER NEURONS OF THE MADEIRA COCKROACH *RHYPAROBIA MADERAE*  
*Maria Giese, Hongying Wei, Monika Stengl, Kassel*
- T23-4B** INTRINSIC COUPLING MODES IN THE FERRET CORTEX AT DIFFERENT LEVELS OF ISOFLURANE  
*Florian Pieper, Felix Fischer, Gerhard Engler, Andreas K. Engel, Hamburg*
- T23-5B** INTRINSIC ELECTROPHYSIOLOGICAL PROPERTIES OF LOCUS COERULEUS NEURONS  
*Stephan Bremser, Lars Paeger, Peter Kloppenburg, Cologne*
- T23-6B** INVESTIGATING THE MOLECULAR CLOCK OF THE CARPENTER ANT *C. FLORIDANUS*: GENES, NEURONS AND BEHAVIOR  
*Janina Kay, Pamela Menegazzi, Stephanie Mildner, Flavio Roces, Charlotte Förster, Würzburg*
- T23-7B** LIVING AT DIFFERENT LATITUDES: THE ROLE OF *DROSOPHILA* L-LNV IN SETTING THE PHASE OF THE EVENING ACTIVITY PEAK.  
*Pamela Menegazzi, Elena Dalla Benetta, Marta Beauchamp, Christiane Hermann-Luibl, Charlotte Helfrich-Förster, Würzburg*
- T23-8B** LOCAL NEURONAL PHASE COUPLING IN MONKEY'S AREA V4 IS MODULATED BY SELECTIVE ATTENTION AS IF ONLY THE ATTENDED STIMULUS IS PRESENT  
*Eric Drebitz, Marcus Haag, Iris Grothe, Sunita Mandon, Andreas K. Kreiter, Bremen*
- T23-9B** MODULATION OF FIRING PATTERNS IN MIDBRAIN DOPAMINERGIC NEURONS  
*Ursel Collienne, Svitlana Popovych, Simon Hess, Martin E. Hess, Jens C Brüning, Silvia Daun-Gruhn, Peter Kloppenburg, Cologne*
- T23-10B** MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF LATERAL HORN NEURONS IN *DROSOPHILA*

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*MELANOGASTER*

*Sudeshna Das, Silke Sachse, Bill Hansson, Jena*

- T23-11B** LONG-RANGE SYNCHRONIZATION BY INTERMINGLED DELTA AND THETA OSCILLATIONS.  
*Jonatan Biskamp, Jonas-Frederic Sauer, Marlene Bartos, Freiburg*
- T23-1C** MOVEMENT DETECTION SYSTEMS ARE GENERALLY COLOUR-BLIND, THE STARTLE RESPONSE CIRCUITRY IN GOLDFISH IS NOT.  
*Peter Machnik, Nathalie Peper, Wolfram Schulze, Stefan Schuster, Bayreuth*
- T23-2C** NEW ANATOMICAL INSIGHT INTO THE CIRCADIAN CLOCK NETWORK OF *DROSOPHILA MELANOGASTER* USING FLYBOW  
*Frank K. Schubert, Dirk Rieger, Würzburg*
- T23-3C** OPTIMAL FEATURE INTEGRATION IN CRITICAL, BALANCED NETWORKS  
*Nergis Tömen, Udo Ernst, Bremen*
- T23-4C** OPTOGENETIC DISSECTION OF CELLULAR INTERACTIONS IN THE PREFRONTAL CORTEX OF NEONATAL MICE  
*Joachim Ahlbeck, Sebastian H. Bitzenhofer, Amy Wolff, Ileana L. Hanganu-Opatz, Hamburg*
- T23-5C** ORIGIN AND FUNCTION OF DEPOLARIZING AFTERPOTENTIALS IN STELLATE CELLS IN THE MEDIAL ENTORHINAL CORTEX  
*Franziska Kämpfbeck, Martin Stemmler, Andreas Herz, Felix Felmy, München*
- T23-6C** PHOTO-PERIODIC DIAPAUSE IN *DROSOPHILA EZOANA*: WHAT DOES IT TELL ABOUT CIRCADIAN INVOLVEMENT IN PHOTO-PERIODIC TIME MEASUREMENT?  
*Koustubh M. Vaze, Wuerzburg*
- T23-7C** RAPID TEMPERATURE ADAPTATION OF THE LIFE-SAVING ESCAPE C-START IS MEDIATED BY NMDA RECEPTORS AT THE LEVEL OF THE MAUTHNER CELLS IN LARVAL ZEBRAFISH  
*Alexander Hecker, Wolfram Schulze, Stefan Schuster, Bayreuth*
- T23-8C** REPRESENTATION OF VISUAL INFORMATION IN THE GOLDFISH MAUTHNER CELL  
*Sabine Feyl, Peter Machnik, Wolfram Schulze, Stefan Schuster, Bayreuth*
- T23-9C** RESPONSES TO EMOTIONAL IMAGES: RELATION TO THE RESPIRATORY CYCLE  
*Sergii O. Sobishchanskyi, Andrii O. Cherninskyi, Sergii V. Tukaiev, Mykola Y. Makarchuk, Kyiv, Ukraine*
- T23-10C** SMALL WORLD AND RICH CLUB DYNAMICS OF THE SINGLE UNIT MOTOR NETWORK AND THEIR CORRELATION TO OSCILLATIONS  
*Benjamin Wellner, Jonathan A Michaels, Stefan Schaffelhofer, Hans Scherberger, Goettingen*
- T23-11C** SPONTANEOUS FIELD POTENTIAL TRANSIENTS IN THE RAT DENTATE GYRUS  
*Marlene Lulie Anderson, Uwe Heinemann, Berlin*
- T23-1D** SYNCHRONIZATION OF SINGING AND BREATHING IN CRICKETS: NEURONAL COUPLING BETWEEN TWO RHYTHM-GENERATING NETWORKS  
*Stefan Schöneich, Berthold Hedwig, CB23EJ Cambridge, UK, United Kingdom*
- T23-2D** THE ARCHERFISH PREDICTIVE START: A SETUP TO COUPLE BEHAVIOR AND ELECTROPHYSIOLOGY  
*Wolfram Schulze, Martin Krause, Stefan Schuster, Bayreuth*

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- T23-3D** THE ENERGY DEMAND DURING DIFFERENT HIPPOCAMPAL NETWORK ACTIVITY STATES *IN VITRO*.  
*Justus Schneider, Nikolaus Berndt, Ismini E. Papageorgiou, Hermann-Georg Holzhütter, Oliver Kann, Heidelberg*
- T23-4D** THE FITNESS OF *DROSOPHILA MELANOGASTER* IS INFLUENCED BY THE NEURONAL CIRCADIAN CLOCK  
*Melanie Bunz, Taishi Yoshii, Dirk Rieger, Würzburg*
- T23-5D** THE IMPACT OF TIMED ELECTRICAL DEPOLARIZATION OF SPECIFIC CLOCK NEURONS ON *DROSOPHILA MELANOGASTER*'S CIRCADIAN CLOCK  
*Saskia Eck, Charlotte Helfrich-Foerster, Dirk Rieger, Würzburg*
- T23-6D** THE NEURONAL MICROCIRCUITS OF THE MEDIAL SEPTUM  
*Liudmila Sosulina, Hiroshi Kaneko, Falko Fuhrmann, Daniel Justus, Detlef Friedrichs, Susanne Schoch, Stefan Remy, Bonn*
- T23-7D** THETA OSCILLATIONS AND NEURONAL FIRING ALONG THE SEPTO-TEMPORAL AXIS OF THE EPILEPTIC HIPPOCAMPAL FORMATION  
*Antje Kilius, Ute Häussler, Arvind Kumar, Ulrich P. Friepe, Carola A. Haas, Ulrich Egert, Freiburg*
- T23-8D** THREE-DIMENSIONAL CA<sup>2+</sup> IMAGING OF NEURONAL NETWORK ACTIVITY IN THE NEONATAL MOUSE VISUAL CORTEX *IN VIVO*  
*Michael Kummer, Knut Kirmse, Otto W. Witte, Knut Holthoff, Jena*
- T23-9D** TOWARDS RECORDING STANDARDS OF NEURONAL AVALANCHES IN BRAIN SLICES  
*Julia Neugebauer, Jan-Olliver Hollnagel, Jörg Geiger, Christine Gebhardt, Berlin*
- T23-10D** VISUAL INFORMATION TRANSFER TO THE MAUTHNER CELL WITHOUT TECTAL PROCESSING  
*Kathrin Leupolz, Peter Machnik, Stefan Schuster, Bayreuth*
- T23-11D** WEAK INTERSEGMENTAL COUPLING OF RHYTHMIC MOTOR ACTIVITY IN THE WALKING SYSTEM OF THE STICK INSECT  
*Laura Schläger, Gerbera Claßen, Joachim Schmidt, Anke Borgmann, Cologne*
- T24-1A** ADDING UP THE ODDS - NITRIC OXIDE MEDIATES OPPONENT ASSESSMENT AND THE DECISION TO FLEE IN CRICKETS  
*Paul Anthony Stevenson, Jan Rillich, Leipzig*
- T24-2A** ALARM PHEROMONE-INDUCED DEFENSIVE BEHAVIOR IN RATS: ROLE OF THE BED NUCLEUS OF THE STRIA TERMINALIS  
*Tino Breitfeld, Johann Bruning, Yasushi Kiyokawa, Markus Fendt, Magdeburg*
- T24-3A** BEHAVIOURAL AND NEURONAL CORRELATES OF VISUAL NUMEROSITY REPRESENTATIONS IN THE CARRION CROW, *CORVUS CORONE*  
*Helen Ditz, Andreas Nieder, Tübingen*
- T24-4A** BLOCKADE OF OREXIN-1 RECEPTORS IN THE VENTRAL TEGMENTAL AREA COULD ATTENUATE THE LATERAL HYPOTHALAMIC STIMULATION-INDUCED POTENTIATION OF REWARDING PROPERTIES OF MORPHINE  
*Leila Zarepour, Tehran, Iran*
- T24-5A** CAGE-BASED AUTOMATED LEARNING OF COGNITIVE TASKS FOR RHESUS MACAQUES  
*Michael Niessing, Michael Berger, Leonore Burchardt, Antonino Calapai, Klaus Heisig, Valeska Stephan, Stefan Treue, Alexander Gail, Göttingen*

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- T24-6A** CELL-TYPE SPECIFIC MODULATION OF BEHAVIORALLY RELEVANT AND DISTRACTING STIMULI BY DOPAMINE D1 RECEPTORS IN PRIMATE PREFRONTAL CORTEX  
*Simon Nikolas Jacob, Maximilian Stalter, Andreas Nieder, Berlin*
- T24-7A** CHOLINERGIC INVOLVEMENT IN ATTENTIONAL MODULATION IN AREA MT OF PRIMATE VISUAL CORTEX  
*Clíodhna Quigley, Vera Katharina Veith, Stefan Treue, Goettingen*
- T24-8A** CORTICAL DRIVE OF LOW-FREQUENCY OSCILLATIONS IN THE HUMAN NUCLEUS ACCUMBENS DURING ACTION SELECTION  
*Max-Philipp Stenner, Vladimir Litvak, Robb B. Rutledge, Tino Zaehle, Friedhelm C. Schmidt, Jürgen Voges, Hans-Jochen Heinze, Raymond J. Dolan, London, United Kingdom*
- T24-1B** CROSS-MODAL WORKING MEMORY NEURONS IN THE CORVID NIDOPALLIUM CAUDO-LATERALE  
*Felix W. Moll, Andreas Nieder, Tuebingen*
- T24-2B** DOPAMINE D1 AND D2 RECEPTOR MODULATION OF NUMERICAL RULE CODING IN PRIMATE PREFRONTAL CORTEX NEURONS  
*Torben Ott, Simon N Jacob, Andreas Nieder, Tuebingen*
- T24-3B** EFFECTS OF ACUTE AND CHRONIC ADMINISTRATION OF L-DOPA ON COGNITIVE JUDGEMENT BIAS OF RATS IN THE AMBIGUOUS-CUE INTERPRETATION PARADIGM.  
*Jakub Kregiel, Joanna Golebiowska, Rafal Rygula, Krakow, Poland*
- T24-4B** EFFECTS OF ACUTE AND CHRONIC PHARMACOLOGICAL MANIPULATIONS OF THE 5-HT SYSTEM ON COGNITIVE JUDGMENT BIAS OF RATS.  
*Joanna Golebiowska, Jakub Kregiel, Rafal Rygula, Krakow, Poland*
- T24-5B** ELUCIDATING PROJECTION PATTERNS AND POSTSYNAPTIC PARTNERS OF INTERCALATED CELLS IN THE MOUSE AMYGDALA  
*Anna Gaertner, Douglas Asede, Minas Salib, Francesco Ferraguti, Ingrid Ehrlich, Tübingen*
- T24-6B** ENVIRONMENTAL ENRICHMENT DURING ADOLESCENCE ALTERS EXPLORATION STRATEGIES OF YOUNG ADULT RATS  
*Dana Elonne Cobb, Dr. Mark C. Zrull, Boone, NC, USA*
- T24-7B** FIGHTING BEHAVIOR OF FEMALE FIELD CRICKETS, NATURAL AND UNDER PHARMACOLOGICAL STIMULATION  
*Tanja Lauß, Andrea Wirmer, Ulm*
- T24-1C** GUIDANCE OF THE FOCUS OF ATTENTION IN *DROSOPHILA MELANOGASTER*  
*Sebastian König, Reinhard Wolf, Martin Heisenberg, Würzburg*
- T24-2C** HUMAN LINEAR VISUAL MOTION DIRECTION DISCRIMINATION THRESHOLDS: EFFECTS OF GRADED DEPLOYMENT OF SPATIAL ATTENTION  
*Vera Katharina Veith, Stefan Treue, Goettingen*
- T24-3C** IDENTIFICATION AND AMINERGIC MODULATION OF BRAIN INTERNEURONES WITH SYNAPTIC INPUTS FROM ANTENNAL MECHANORECEPTORS IN THE CRICKET  
*Ann-Juliana Breitenbach, Stefan Schöneich, Paul Anthony Stevenson, Leipzig*
- T24-4C** INCENTIVES, ACCOUNTABILITY AND DECISION MAKING: A NEUROSCIENTIFIC INVESTIGATION  
*Mina Godec, Frank Hartmann, Grega Repov , Anka Slana, Sergeja Slapnicar, Ljubljana, Slovenia*

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- T24-5C** INPUT AND OUTPUT CONNECTIONS TO RAT PREFRONTAL CORTEX ARE RECIPROCALLY ORGANISED BUT NOT ALIGNED  
*Chris John Tinsley, Stacey Ann Bedwell, Nottingham, United Kingdom*
- T24-6C** MMP-9 IN CENTRAL AMYGDALA IMPROVES REWARD LEARNING AND SOCIAL MOTIVATION  
*Kacper Kondrakiewicz, Ksenia Meyza, Alicja Puscian, Karolina Ziegart-Sadowska, Tomasz Nikolajew, Ewelina Knapska, Warsaw, Poland*
- T24-7C** NEURAL CORRELATES OF SOCIAL INTERACTIONS IN THE HONEYBEE COLONY  
*Benjamin H Paffhausen, Aron Duer, Isabella Hillmer, Randolph Menzel, Berlin*
- T24-8C** NEURONAL CORRELATES OF SUBJECTIVE VALUE IN THE PIGEON 'PREFRONTAL CORTEX'  
*Nils Kasties, Onur Güntürkün, Maik C. Stüttgen, Bochum*
- T24-1D** PREDICTING INDIVIDUAL AGGRESSIVENESS BY VIDEO-TRACKING ANALYSIS IN FREELY BEHAVING CRICKETS  
*Jacqueline Rose, Darron A. Cullen, Paul A. Stevenson, Leipzig*
- T24-2D** ROLE OF DOPAMINE D1/D2 RECEPTORS IN MEDIATING THE AFTEREFFECT OF WHEEL RUNNING  
*Alexandra Trost, Wolfgang Hauber, Stuttgart*
- T24-3D** SPATIAL ATTENTION SUPPRESSES MT RESPONSES TO MOTION ONSET IN MACAQUE MONKEYS  
*Vahid Mehrpour, Julio C. Martinez-Trujillo, Stefan Treue, Goettingen*
- T24-4D** THE EFFECTS OF DEVOCALIZATION ON ROUGH-AND-TUMBLE PLAY BEHAVIOUR IN UNFAMILAR ADULT AND JUVENILE RATS.  
*Theresa Marie Kisko, David R Euston, Sergio M Pellis, Lethbridge, Canada*
- T24-5D** THE NEURAL REPRESENTATION OF EMPTY SETS IN MACAQUE POSTERIOR PARIETAL CORTEX  
*Araceli Ramirez-Cardenas, Maria Moskaleva, Andreas Nieder, Tübingen, Mexico*
- T24-6D** THE ROLE OF DEPTH CUES IN HUMAN PLACE RECOGNITION  
*Hanspeter A. Mallot, Viktoria Prozmann, Marc Halfmann, Tübingen*
- T24-7D** TRANSIENT PROCESSES AND SYNCHRONIZATION OF INDEPENDENT ENSEMBLES NEURONS WITH HUMAN CHOICE AFTER THE STIMULUS  
*Margarita Zaleshina, Alexander Zaleshin, Moscow, Russia*
- T25-1A** A POSSIBLE ROLE OF DYNAMIC LEVELS OF PHOSPHORYLATED APIS MELLIFERA CREB (AMCREB) IN THE INNER COMPACT CELLS OF MUSHROOM BODIES IN REGULATING THE INDIVIDUAL ABILITY OF HONEYBEES TO LEARN DURING CLASSICAL CONDITIONING  
*Dorothea Eisenhardt, Karin Heufelder, Katrin Gehring, Janina Feige, Yan Dyck, Paul Bauer, Berlin*
- T25-2A** A SUBLETHAL DOSE OF THE NEONICOTINOID THIACTOPRID AFFECTS NAVIGATION, MEMORY AND SOCIAL COMMUNICATION IN HONEYBEES.  
*Lea Tison, Marie-Luise Hahn, Nina Sophie Irmisch, Aron Duer, Uwe Greggers, Gabriela Bischoff, Randolph Menzel, Berlin*
- T25-3A** A TASK TO PROBE TIME AND DISTANCE ESTIMATION IN RODENTS  
*Magdalena Kautzky, Kay Thurley, Planegg Martinsried*



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- T25-4A** ASSESSMENT OF  $\gamma$ -HYDROXYBUTIRIC ACID (GHB) ACTION IN INSECTS  
*Aurelien Strehl, Uli Mueller, Saarbrücken*
- T25-5A** CHANGES IN BDNF PROTEIN EXPRESSION AFTER FEAR EXTINCTION LEARNING IN THE AMYGDALA, THE MEDIAL PREFRONTAL CORTEX AND THE HIPPOCAMPUS  
*Aaron H Voss, Volkmar Lessmann, Thomas Endres, Magdeburg*
- T25-6A** 'COGNITIVE ENHANCEMENT' IN INSECTS: ASSOCIATIVE FUNCTION INCREASED BY *RHODIOLA ROSEA* FOOD SUPPLEMENTATION?  
*Birgit Michels, Katrin Franke, Ludger Wessjohann, Dushyant Mishra, Oleh Lushchak, Hanna Zwaka, Ruth Bartels, Bertram Gerber, Magdeburg*
- T25-7A** COMPARISON OF CLASSICAL AND OPERANT CONDITIONING USING BEHAVIOR AND ELECTROPHYSIOLOGY DURING AUDITORY LEARNING TASKS  
*Maité Goldschmidt, Angela Kolodziej, Andreas Schulz, Frank W. Ohl, Magdeburg*
- T25-8A** DECODING THE BRAIN EPIGENOME: CHROMATIN READERS IN COGNITION  
*Eva Benito-Garagorri, Hendrik Urbanke, Jonas Barth, Andre Fischer, Goettingen*
- T25-9A** DIFFERENT RAT HIPPOCAMPAL SUBFIELDS SHOW INCREASED ARC MRNA EXPRESSION AFTER NOVEL EXPLORATION OF DISCRETE POSITIONAL OR LARGE DIRECTIONAL SPATIAL CUES  
*Verena Aliane, Denise Manahan-Vaughan, Bochum*
- T25-10A** DIFFERENTIAL ANALYSIS OF GENE EXPRESSION WITH RNA-SEQ: REGULATION BY TRAINING STRENGTH  
*Katja Mershbächer, Uli Müller, Saarbrücken*
- T25-11A** DORSAL HIPPOCAMPAL LESIONS BOOST PERFORMANCE IN THE RAT SEQUENTIAL REACTION TIME TASK: EVALUATING THE ROLE OF ENHANCED INSTRUMENTAL EXPERIENCE  
*Sebastian Busse, Janine Roscher, Rainer K. W. Schwarting, Marburg*
- T25-12A** DYNAMICS OF MEMORY STORAGE BASED ON CELL ASSEMBLIES  
*Juliane Herpich, Florentin Wörgötter, Christian Tetzlaff, Göttingen*
- T25-13A** DYNAMICS OF SPATIAL SELF-ORGANIZATION OF CELL ASSEMBLIES  
*Johannes Maria Auth, Timo Nachstedt, Christian Tetzlaff, Florentin Wörgötter, Göttingen*
- T25-14A** EFFECTS OF INCREASED ACETYLCHOLINE LEVELS ON ODOR-INDUCED MEMORY REACTIVATION DURING SLOW WAVE SLEEP IN HUMANS  
*Jens G Klinzing, Jan Born, Björn Rasch, Susanne Diekelmann, Tübingen*
- T25-15A** EFFECTS OF OSCILLATORY ELECTRIC FIELDS ON EEG COUPLING: SLOW OSCILLATION AND SPINDLE ACTIVITY  
*Lisa Marshall, Dominic Aumann, Christian Wilde, Matthias Mölle, Lucas Parra, Lübeck*
- T25-1B** EFFECTS OF OVEREXPRESSION OF THE (PRO)RENIN RECEPTOR ON THE HIPPOCAMPAL FORMATION IN MICE  
*Alexander Bracke, Kai Bente, Oliver von Bohlen und Halbach, Greifswald*
- T25-2B** EPENDYMIN: *IN VITRO* EXPRESSION STUDIES ON A CELL ADHESION MOLECULE INVOLVED IN CNS PLASTICITY AFTER STRESS HORMONE TREATMENT  
*Donato Penninella, Rupert Schmidt, Gießen*
- T25-3B** EXTRA-CODING RNAS REGULATE NEURONAL DNA METHYLATION

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*Nancy Gallus, Esther Song, Rhiana Simon, Kathrin Savell, J David Sweatt, Jeremy J Day, Tübingen*

- T25-4B** GENE REGULATION AND EPIGENETICS OF A LIFETIME BODY-SIZE MEMORY IN *DROSOPHILA*  
*Laura Spindler, Tammo Krause, Burkhard Poeck, Roland Strauss, Mainz*
- T25-5B** GENERALIZATION OF ASSOCIATIVE OLFACTORY MEMORIES: PARAMETRIC ANALYSES IN *DROSOPHILA MELANOGASTER*  
*Emmanuel Antwi Adjei, Annie Voigt, Christian König, Rumeysa Taspinar, Ayse Yarali, Magdeburg*
- T25-6B** GENOME-WIDE ANALYSES ON ELECTRIC SHOCK AVOIDANCE, PUNISHMENT LEARNING AND RELIEF LEARNING IN *DROSOPHILA MELANOGASTER*  
*Christian König, Mirjam Appel, Claus-Jürgen Scholz, Marcus Dittrich, Tobias Müller, Hiromu Tanimoto, Ayse Yarali, Magdeburg*
- T25-7B** HIGH-RESOLUTION COMPARISON BETWEEN LEARNED AND INNATE OLFACTORY BEHAVIOUR IN LARVAL *DROSOPHILA*  
*Michael Schleyer, Samuel Reid, Evren Pamir, Timo Saumweber, Emmanouil Paisios, Alexander Davies, Bertram Gerber, Matthieu Louis, Magdeburg*
- T25-8B** HOW TO LEARN FAST AND FORGET SLOWLY WITH DENDRITIC SPINES  
*Michael Fauth, Florentin Wörgötter, Christian Tetzlaff, Göttingen*
- T25-9B** IMAGING OF SYNAPTIC ACTIVITY AND PLASTICITY IN THE *DROSOPHILA* BRAIN  
*Ulrike Pech, André Fiala, Goettingen*
- T25-10B** IMPACT OF HIPPOCAMPAL SCLEROSIS LATERALIZATION ON BEHAVIOR IN THE MOUSE INTRAHIPPOCAMPAL KAINATE MODEL OF MESIAL TEMPORAL LOBE EPILEPSY  
*Jean-Baptiste Faure, Antje Kilius, Ute Häussler, Philipp Janz, Carola Haas, Freiburg*
- T25-11B** IMPACT OF LIFE HISTORY ON FEAR MEMORY AND EXTINCTION IN MICE  
*Jasmin Remmes, Carina Boddien, Norbert Sachser, Hans-Christian Pape, Thomas Seidenbecher, Münster*
- T25-12B** IMPACT OF THE CORTICAL EXTRACELLULAR MATRIX ON MEMORY AND LEARNING FLEXIBILITY  
*Hartmut Niekisch, Matthias Deliano, Frank W. Ohl, Renato Frischknecht, Max F.K. Happel, Magdeburg*
- T25-13B** LEARNING OF DECLARATIVE MEMORY AFTER SLEEP IS INFLUENCED BY D-CYCLOSERINE GIVEN DURING SLEEP  
  
*Marjan Alizadeh Asfestani, Surjo R. Soekadar, Jan Schwidetzky, Jan Born, Gordon B. Feld, Tübingen*
- T25-14B** LOCOMOTION PATTERNS INDUCED BY LEARNED ODORS IN THE HONEY BEE (*APIS MELLIFERA* L.)  
*Hiroyuki Ai, Yuta Kimura, Toshiya Yamashita, Hidetoshi Ikeno, Stephan Shuichi Haupt, Fukuoka, Japan*
- T25-15B** LONG-TERM AVOIDANCE MEMORY LEADS TO A TRANSIENT INCREASE OF SYNAPTIC COMPLEXES IN THE MUSHROOM BODIES OF ANTS  
*Agustina Falibene, Flavio Roces, Wolfgang Rössler, Würzburg*
- T25-1C** MODELING THE INTERACTION OF LONG-TERM MEMORY AND WORKING MEMORY  
*Timo Nachstedt, Florentin Wörgötter, Christian Tetzlaff, Göttingen*
- T25-2C** NEURAL CIRCUIT ANALYSES OF RELIEF LEARNING IN FRUIT FLIES

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*Afshin Khalili, Christian König, Yoshinari Aso, Gerald Rubin, Ayse Yarali, Magdeburg*

- T25-3C** NEURAL CIRCUITS OF MEMORY RE-EVALUATION  
*Johannes Felsenberg, Scott Waddell, Oxford, United Kingdom*
- T25-4C** NEURAL CORRELATIONS IN BRAINS OF FREELY WALKING SOCIAL AND SOLITARY BEES DURING NAVIGATION IN AN ARTIFICIAL ENVIRONMENT  
*Nanxiang Jin, Simon Klein, Randolph Menzel, Berlin*
- T25-5C** NEURONAL CORRELATES OF INSTRUMENTAL LEARNING IN HONEYBEES  
*Hanna Zwaka, Meida Jusyte, Sophie Lehfeldt, Randolph Menzel, Berlin*
- T25-6C** NEURONAL CORRELATES OF UNLEARNED CALLS IN MALE AND FEMALE ZEBRAFISHES  
*Lisa Trost, Andries Ter Maat, Hannes Sagunsky, Manfred Gahr, Seewiesen*
- T25-7C** NEURONAL RESPONSES TO MILD HEAT AND ELECTRIC SHOCK IN THE BRAIN OF *DROSOPHILA*  
*Kristina V. Dylla, Alja Lüdke, Dana Shani Galili, Hiromu Tanimoto, C. Giovanni Galizia, Paul Szyszka, Konstanz*
- T25-8C** NEURONAL SUBSTRATE OF ASSOCIATIVE FEAR CONDITIONING IN THE ZEBRAFISH (*DANIO RERIO*) – MEASURED BY C-FOS EXPRESSION  
*Tim Ruhl, Jill Romer, Gerhard von der Emde, Bonn*
- T25-9C** NEUROPEPTIDE S RECEPTOR-DEFICIENT MICE IN A MOUSE MODEL OF POST-TRAUMATIC STRESS DISORDER  
*Markus Fendt, Josephine Germer, Evelyn Kahl, Magdeburg*
- T25-10C** NOGO-A INFLUENCES STRUCTURAL DYNAMICS OF MOSSY FIBER SYNAPSES  
*Cristina Iobbi, Martin Korte, Marta Zagrebelsky, Braunschweig*
- T25-11C** OPTICALLY EVOKED SHARPWAVE-RIPPLE WAVEFORMS IN HIPPOCAMPAL CIRCUITS INDICATE FORMATION OF NEURAL ASSEMBLIES  
*Pascal Geschwill, Martin Both, Andreas Draguhn, Heidelberg*
- T25-12C** PATHWAY ANALYSIS OF A VISUAL WORKING MEMORY IN *DROSOPHILA*  
*Sara Kuntz, Burkhard Poeck, Roland Strauss, Mainz*
- T25-13C** PHARMAKIRGENETICS: NEURON INHIBITION BY SMALL MOLECULE-INDUCED KIR2.1 STABILIZATION  
*Christoph Thoeninger, Eva Auffenberg, Angela Jurik, Stelios Michalakis, Gerhard Rammes, Carsten Wotjak, Roland Schmid, Munich*
- T25-14C** PLASTICITY IN MUSHROOM BODY PHYSIOLOGY CORRELATES WITH BEHAVIORAL LEARNING PERFORMANCE IN INDIVIDUAL HONEYBEES.  
*Martin Paul Nawrot, Martin Strube-Bloss, Nobuhiro Yamagata, Joachim Haenicke, Randolph Menzel, Berlin*
- T25-1D** PLASTICITY OF A DEFINED MUSHROOM BODY-OUTPUT SYNAPSE UNDERLIES LEARNED OLFACTORY BEHAVIOR IN *DROSOPHILA*  
*David Oswald, Johannes Felsenberg, Gaurav Das, Emmanuel Perisse, Clifford Talbot, Wolf Huetteroth, Scott Waddell, Oxford, United Kingdom*
- T25-2D** PROCESSING OF COMPETING VISUAL STIMULI IN THE CENTRAL COMPLEX OF *DROSOPHILA MELANOGASTER*  
*Stefanie Flethe, Roland Strauss, Mainz*

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- T25-3D** RELIEF LEARNING IS CONTROLLED BY DOPAMINE RELEASE IN THE RAT NUCLEUS ACCUMBENS  
*Jorge Ricardo Bergado Acosta, Magdeburg*
- T25-4D** SELECTIVE RETROGRADE AMNESIA OF ASSOCIATIVE MEMORY AFTER NEUROPLASTIN LOSS AND SEVERE DEFICITS IN NEUROPLASTIN-DEFICIENT MICE  
*Soumee Bhattacharya, Rodrigo Herrera-Molina, Frank Angenstein, Karl-Heinz Smalla, Eckart D. Gundelfinger, Dirk Montag, Magdeburg*
- T25-5D** SENSORY MEMORY FORMS IN THE CAUDOMEDIAL NIDOPALLIUM DURING SONG LEARNING  
*Christian Flecke, Yoko Yazaki-Sugiyama, Okinawa, Japan*
- T25-6D** SLEEP AND PREDICTIVE CODING: CAN SLEEP IMPROVE INFORMATION PROCESSING IN THE VISUAL SYSTEM?  
*Nicolas Dominic Lutz, Karsten Rauss, Jan Born, Tübingen*
- T25-7D** SPECIFIC CONTRIBUTION OF CA1 TO THE RECONSOLIDATION OF FEAR MEMORY: AN OPTOGENETIC/MOLECULAR IMAGING STUDY  
*Vanessa Lux, Olivia Masseck, Stefan Herlize, Magdalena Sauvage, Bochum*
- T25-8D** STUDYING THE MUSHROOM BODY MEMORY MATRIX ONE CELL AT A TIME  
*Timo Saumweber, Astrid Rohwedder, Katharina Eichler, Albert Cardona, James Truman, Marta Zlatic, Andreas Thum, Bertram Gerber, Magdeburg*
- T25-9D** SYNAPSIN FUNCTIONS IN TIMING-DEPENDENT BEHAVIOURAL PLASTICITY  
*Thomas Niewalda, Birgit Michels, Roswitha Jungnickel, Jörg Kleber, Sören Diegelmann, Bertram Gerber, Magdeburg*
- T25-10D** SYNAPSIN IS REQUIRED TO ESTABLISH A STRONG MEMORY IN ODOR-SUGAR ASSOCIATIVE LEARNING  
*Jörg Kleber, Thilo Kähne, Bertram Gerber, Magdeburg*
- T25-11D** THE CONNECTOME OF THE MUSHROOM BODY OF THE *DROSOPHILA* LARVA  
*Andreas Stephan Thum, Katharina Eichler, Marta Zlatic, Albert Cardona, Konstanz*
- T25-12D** THE IMPORTANCE OF VISUAL AND OLFACTORY STIMULI DURING FLOWER VISITS IN THE HONEY BEE  
*Verena Reinhardt, Christa Neumeyer, Mainz*
- T25-13D** THE ROLE OF CAMKII IN THE FORMATION OF LONG-TERM MEMORY IN THE HONEYBEE  
*Christina Scholl, Wolfgang Rössler, Wuerzburg*
- T25-14D** THE ROLE OF SLEEP IN FEAR EXTINCTION MEMORY IN MICE  
*Irene Melo, Ingrid Ehrlich, Tübingen*
- T25-15D** VERY LOW BIRTH WEIGHT PIGLETS SHOW IMPROVED COGNITIVE PERFORMANCE IN THE SPATIAL COGNITIVE HOLEBOARD TASK  
*Alexandra Antonides, Anne C. Schoonderwoerd, Franz Josef van der Staay, Rebecca E. Nordquist, Utrecht, Netherlands*
- T26-1A** A 3D DYNAMIC MODEL FOR THE STUDY OF CENTRAL DRIVE OF ANTENNAL MOVEMENTS IN INSECTS  
*Nalin Harischandra, André F. Krause, Volker Dürr, Bielefeld*
- T26-2A** A SIMPLIFIED MODEL FOR OSCILLATORY POPULATION DYNAMICS IN VISUAL CORTEX

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*Daniel Harnack, Klaus Richard Pawelzik, Udo Alexander Ernst, Sina Tootoonian, Bremen*

- T26-3A** BASAL GANGLIA DYNAMICS DURING MOVEMENT INITIATION: A COMPUTATIONAL MODEL FOR TRANSIENT BETA OSCILLATIONS  
*Amin Mirzaei, Arvind Kumar, Daniel Leventhal, Nicolas Mallet, Ad Aertsen, Joshua Berke, Robert Schmidt, Freiburg*
- T26-4A** BOOSTING COORDINATED RESET STIMULATION BY SLOWLY-VARYING-SEQUENCES: A COMPUTATIONAL STUDY  
*Magteld Zeitler, Peter A. Tass, Jülich*
- T26-5A** CHALLENGING A DYNAMICAL THRESHOLD EQUATION FOR ACTION POTENTIAL INITIATION FOR ITS GENERALITY  
*Lukas Sonnenberg, Jan Benda, Tübingen*
- T26-6A** CHANNEL MECHANISMS FOR A HIERARCHY OF TIMESCALES ACROSS THE HUMAN CORTEX  
*Benjamin Staar, Alberto Bernacchia, Bremen*
- T26-7A** COMPUTATIONAL CHARACTERIZATION OF AXON CARRYING DENDRITES CELLS: ELECTROPHYSIOLOGICAL PROPERTIES AND SYNAPTIC INTEGRATION  
*Antonio Yanez, Alexei V. Egorov, Tobias Rau, Christian Thome, Andreas Draguhn, Martin Both, Heidelberg*
- T26-8A** COMPUTATIONAL MODELING OF LTP AND CONCURRENT 'HETEROSYNAPTIC' LTD IN THE DENTATE GYRUS IN VIVO  
*Peter Jedlicka, Lubica Benuskova, Wickliffe C. Abraham, Frankfurt*
- T26-1B** EFFECT OF ALZHEIMER DISEASE ON THE DYNAMICAL AND COMPUTATIONAL CHARACTERISTICS OF RECURRENT NEURAL NETWORKS  
*Claudia Bachmann, Tom Tetzlaff, Susanne Kunkel, Abigail Morrison, Jülich*
- T26-2B** EFFECTS OF NEURONAL DIVERSITY ILLUSTRATED BY CURRENT- AND VOLTAGE-CLAMP EXPERIMENTS IN A VIRTUAL LABORATORY  
*Aubin Tchaptchet, Hans Albert Braun, Marburg*
- T26-3B** EFFICIENT CODING OF REWARDS IN STRATEGIC DECISION-MAKING  
*Florin Ionita, Alberto Bernacchia, Bremen*
- T26-4B** FROM RANDOMLY CONNECTED TO SPATIALLY ORGANIZED MULTI-LAYERED CORTICAL NETWORK MODELS  
*Johanna Senk, Espen Hagen, Sacha van Albada, Markus Diesmann, Jülich*
- T26-5B** FUNCTIONAL ROLE OF OPPONENT, DOPAMINE MODULATED D1/D2 PLASTICITY IN REINFORCEMENT LEARNING  
*Philipp Weidel, Abigail Morrison, Jenia Jitsev, Jülich*
- T26-6B** GENETIC NETWORKS SPECIFYING THE FUNCTIONAL ARCHITECTURE OF ORIENTATION DOMAINS IN V1  
*Joscha Liedtke, Fred Wolf, Göttingen*
- T26-7B** HYBRID SCHEME FOR MODELING LOCAL FIELD POTENTIALS FROM POINT-NEURON NETWORKS  
*Espen Hagen, David Dahmen, Maria L. Stavrinou, Henrik Lindén, Tom Tetzlaff, Sacha van Albada, Markus Diesmann, Sonja Grün, Gaute T. Einevoll, Jülich*
- T26-8B** IMPACT OF PARAMETRIC UNCERTAINTIES IN COMPUTATIONAL MODELS FOR DEEP BRAIN STIMULATION  
*Christian Schmidt, Ursula van Rienen, Rostock*

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- T26-1C** IMPAIRED HOMEOSTATIC REGULATION OF FEEDBACK INHIBITION ASSOCIATED WITH SYSTEM DEFICIENCY TO DETECT FLUCTUATION IN STIMULUS INTENSITY: A SIMULATION STUDY  
*Faramarz Faghihi, Ahmed Moustafa, Fairfax, USA*
- T26-2C** INTEGRATING TOUCH AND VISION IN STICK INSECTS AND INSECTOID ROBOTS  
*Thierry Hoinville, Nalin Harischandra, Volker Dürr, Bielefeld*
- T26-3C** LABILITY AND CONSTANCY OF ORIENTATION TUNING IN THE VISUAL CORTEX DEPENDS ON THE FUNCTIONAL ARCHITECTURE  
*Juan Daniel Florez Weidinger, Wolfgang Keil, Siegrid Löwel, Fred Wolf, Göttingen*
- T26-4C** MESOSCOPIC POPULATION DYNAMICS OF SPIKING NEURONS DERIVED FROM SINGLE CELL PROPERTIES  
*Tilo Schwalger, Moritz Deger, Wulfram Gerstner, Lausanne, Switzerland*
- T26-5C** NEURONAL MORPHOLOGY AND SPIKE ONSET RAPIDNESS MODULATE THE DYNAMIC GAIN IN CULTURED HIPPOCAMPAL NEURONS  
*Elinor Lazarov, Michael Gutnick, Fred Wolf, Andreas Neef, Goettingen*
- T26-6C** ONLINE PARAMETER ESTIMATION USING GPU SUPER-COMPUTING  
*Thomas Nowotny, Brighton, United Kingdom*
- T26-7C** SHAPING PHASE SPACE OF NEURAL NETWORKS VIA CONNECTIVITY  
*Maximilian Schmidt, Jannis Schuecker, Markus Diesmann, Moritz Helias, Jülich*
- T26-8C** STATE DEPENDENT MODULATION OF DOPAMINE FUNCTION IN THE STRIATUM  
*Marko Filipovic, Lars Hunger, Kai Du, Jeanette Hellgren-Kotaleski, Gilad Silberberg, Robert Schmidt, Arvind Kumar, Freiburg*
- T26-1D** STATISTICAL ASSESSMENT AND NEURONAL COMPOSITION OF ACTIVE SYNFIRES CHAINS  
*Carlos Canova, Emiliano Torre, Michael Denker, George Gerstein, Sonja Grün, Juelich*
- T26-2D** SYNAPTIC CONSOLIDATION OF COMPETITION  
*Yinyun Li, Florentin Woergoetter, Christian Tetzlaff, Goettingen*
- T26-3D** SYNAPTIC PLASTICITY MAXIMIZES INFORMATION IN RECURRENT NEURAL CIRCUITS  
*Dong Li, Alberto Bernacchia, Bremen*
- T26-4D** THE EFFECT OF HETEROGENEITY ON DECORRELATION MECHANISMS IN SPIKING NEURAL NETWORKS: A NEUROMORPHIC-HARDWARE STUDY  
*Jakob Jordan, Thomas Pfeil, Tom Tetzlaff, Andreas Grübl, Johannes Schemmel, Markus Diesmann, Karlheinz Meier, Juelich*
- T26-5D** THE RAT CONNECTOME: ALL KNOWN CONNECTIONS OF THE RAT NERVOUS SYSTEM IN ONE DATABASE  
*Oliver Schmitt, Peter Eipert, Ann-Christin Klünker, Jennifer Meinhardt, Adrian Karnitzki, Felix Lessmann, Julia Beier, Kanar Kadir, Jörg Jenssen, Lena Kuch, Andreas Wree, Rostock*
- T26-6D** THE TRANSFER FUNCTION OF THE LIF MODEL: A REDUCTION FROM COLORED TO WHITE NOISE  
*Jannis Schücker, Markus Diesmann, Moritz Helias, Jülich*
- T26-7D** TONIC CONDUCTANCE CHANGES IN THE CENTRAL AMYGDALA INFLUENCE FEAR GENERALIZATION

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*Martin Angelhuber, Paolo Botta, Andreas Luthi, Ad Aertsen, Arvind Kumar, Freiburg*

- T26-8D** ULTRA-FAST RESPONSE TO EXTERNAL ELECTRIC PULSES EXPLAINED BY NEURAL MORPHOLOGY  
*Andreas Neef, Goettingen*
- T27-1A** A FLUORESCENT MOLECULE FROM MARINE SPONGES AND ITS SYNTHETIC DERIVATIVES USED FOR LIVE IMAGING OF NEURONS, TISSUES AND ORGANISMS  
*Ulf Bickmeyer, Thorsten Mordhorst, Bremerhaven*
- T27-2A** A LARGE-SCALE METHOD FOR ESTABLISHING ZEBRAFISH NEURONAL CELL CULTURES  
*Georg Welzel, Daniel Seitz, Stefan Schuster, Bayreuth*
- T27-3A** ANALYSIS OF CA<sup>2+</sup> HANDLING PROPERTIES: PERFORATED PATCH CLAMP RECORDINGS MEET THE ADDED BUFFER APPROACH  
*Simon Hess, Martin E Hess, Christophe Pouzat, Jens C Brüning, Peter Kloppenburg, Cologne*
- T27-4A** ANALYSIS OF CIRCADIAN REGULATION OF GENE EXPRESSION IN CNS MICROVASCULAR ENDOTHELIAL CELLS  
*Jochen Ohnmacht, Markus Schwaninger, Lübeck*
- T27-5A** BAYESIAN MODELLING OF LOCUST BEHAVIOUR USING BAYSIG  
*Peter Sutovsky, Swidbert R Ott, Tom Nielsen, Tom Matheson, Leicester, United Kingdom*
- T27-6A** CHARACTERIZATION OF THE STIMULI DELIVERED BY THE FLY MIND-ALTERING DEVICE (FLYMAD).  
*Dorothea Hörmann, John R. Stowers, Andreas Poehlmann, Andrew D. Straw, Vienna, Austria*
- T27-7A** DETECTING TEMPORAL MODULATION OF HIGHER-ORDER CORRELATIONS BASED ON PAIRWISE CORRELATION MEASURES  
*Vahid Rostami, Junji Ito, Emiliano Torre, Pietro Quaglio, Moritz Helias, Sonja Grün, Juelich*
- T27-8A** DRUG EXPOSURE IN PLASMA, CSF AND BRAIN: A PHARMACOKINETIC COMPARISON STUDY IN RATS AND CYNOMOLGUS MONKEY.  
*Marcel van Gaalen, Joost Folgering, Jane, S. Sutcliffe, Christina Schlumbohm, Bob E Stratford<sup>3</sup>, Thomas I Cremers, Göttingen*
- T27-1B** ELECTROPHYSIOLOGICAL CHARACTERIZATION OF INDIVIDUAL NEURONS IN SPARSE CORTICAL CULTURES  
*Anne Sinning, Keiko Weir, Oriane Blanquie, Werner Kilb, Heiko J Luhmann, Mainz*
- T27-2B** ELEPHANT: AN OPEN-SOURCE TOOL FOR THE ANALYSIS OF ELECTROPHYSIOLOGICAL DATA SETS  
*Michael Denker, Alper Yegenoglu, Detlef Holstein, Emiliano Torre, Todd Jennings, Andrew Davison, Sonja Grün, Jülich*
- T27-3B** ESTIMATING THE POSITION OF ACTIVE NEURONS WITH MULTICHANNEL MICROELECTRODES  
*Martin Nguyen, Christopher Doerr, Thomas Schanze, Giessen*
- T27-4B** EXCEPTIONALLY WELL PRESERVED CENTRAL NERVOUS SYSTEM IN AN EARLY CAMBRIAN ARTHROPOD  
*Yu Liu, George S. Boyan, Jie Yang, Xiguang Zhang, Martinsried*
- T27-5B** FREELY VIBRATING NANOSTRUCTURED SCAFFOLDS AS A NOVEL ASSAY TO INVESTIGATE MECHANICAL PROPERTIES OF RETINAE  
*Saddam Mayazur Rahman, Andreas Reichenbach, Stefan G. Mayr, Mareike Zink, Leipzig*

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- T27-6B** HEPTODES ARE SUPERIOR FOR SPIKE SORTING TO TETRODES: A SIMULATION STUDY  
*Christopher Doerr, Thomas Schanze, Giessen*
- T27-7B** HIGH-RESOLUTION LOCALIZATION OF SYNAPTIC PROTEINS IN SOCIAL INSECT BRAINS  
*Thomas S. Muenz, Vivien Bauer, Christian Stigloher, Wolfgang Rössler, Würzburg*
- T27-1C** HOW TO EFFICIENTLY ORGANIZE AND EXPLOIT METADATA OF COMPLEX ELECTROPHYSIOLOGICAL EXPERIMENTS  
*Lyuba Zehl, Michael Denker, Adrian Stoewer, Florent Jaillet, Thomas Brochier, Alexa Riehle, Thomas Wachtler, Sonja Grün, Jülich*
- T27-2C** HYBRID VOLTAGE SENSOR IMAGING OF EGFP-F EXPRESSING NEURONS IN CHICKEN MIDBRAIN SLICES  
*Stefan Weigel, Tatiana Flisikowska, Angelika Schnieke, Harald Luksch, Freising*
- T27-3C** IMAGING OF WHOLE-MOUNT SAMPLES WITH  $\mu\text{M}$  RESOLUTION USING LIGHT-WEDGE- MICROSCOPY  
*Ulrich Leischner, Jena*
- T27-4C** IMPLANTABLE, YET ADAPTIVE MULTI-ELECTRODE POSITIONING SYSTEM FOR BRAIN COMPUTER INTERFACE APPLICATIONS  
*Enrico Ferrea, Lalitta Suriya-Arunroj, Dirk Hoehl, Uwe Thomas, Alexander Gail, Goettingen*
- T27-5C** LONG-TERM DECODING OF CONTINUOUS AND DISCRETE MOVEMENT PARAMETERS WITH A WIRELESS MYOELECTRIC IMPLANT  
*Pierre Morel, Enrico Ferrea, Bahareh Taghizadeh-Sarshouri, Sina Plümer, Josep Marcel Cardona Audí, Sören Lewis, Roman Ruff, Michael Russold, Lait Abu-Saleh, Dietmar Schroeder, Wolfgang Krautschneider, Thomas Meiners, Klaus-Peter Hoffmann, Alexander Gail, Goettingen*
- T27-6C** MODELLING BIOLOGICAL SIGNALS WITH BAYSIG  
*Kamal Abu Hassan, Thomas Nielsen, Emma Chung, Ronney Panerai, Nazia Saeed, Angela Salinet, Thompson G Robinson, Thomas Matheson, Leicester, United Kingdom*
- T27-7C** NEUROINFORMATICS FOR EFFICIENT DATA MANAGEMENT AND REPRODUCIBILITY IN ELECTROPHYSIOLOGY  
*Thomas Wachtler, Adrian Stoewer, Andrey Sobolev, Christian Kellner, Yann Le Franc, Jan Grewe, Planegg-Martinsried*
- T27-1D** OBSCURED ARTIFACTS IN MULTI-ELECTRODE RECORDINGS AND THEIR INFLUENCE ON CORRELATION ANALYSIS  
*Julia Sprenger, Emiliano Torre, Vahid Rostami, Thomas Brochier, Alexa Riehle, Michael Denker, Sonja Grün, Juelich*
- T27-2D** PHOTONIC MODULATION OF MEMBRANE POTENTIAL BY FLASH-LIGHT ILLUMINATION OF METALLIC BEADS.  
*Navin K. Ojha, Jane C. Arifin, Martin Schink, Enrico Leipold, Stefan H. Heinemann, Jena*
- T27-3D** POST-MORTEM MAGNETIC RESONANCE MICROSCOPY OF THE MURINE BRAIN AT 7 TESLA  
*Oliver von Bohlen und Halbach, Martin Lotze, Jörg Pfannmöller, Greifswald*
- T27-4D** SIMULTANEOUS ELECTROPHYSIOLOGICAL ANALYSIS OF CIRCADIAN RHYTHMS OF THE CIRCADIAN PACEMAKER CENTER, OF THE ELECTRORETINOGRAM, AND OF LEG MUSCLE ACTIVITY IN THE COCKROACH *RHYPAROBIA MADERAE*  
*El-Sayed Baz, Marcel Heim, Ildefonso Atienza López, Monika Stengl, Kassel*
- T27-6D** TIME-DEPENDENT CELLULAR RESPONSE PROFILING OF AN IMMORTALIZED EMBRYONIC MURINE HIPPOCAMPAL CELL-LINE (MHIPOE-14) FOR THE *IN VITRO* SIMULATION OF BRAIN DISEASES  
*Apostolos Zarros, George S. Baillie, Glasgow, United Kingdom*



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**T27-7D** TOWARDS SAFE OPTOGENETICS WITH GRAFTED CELL IMPLANTS: AN ALTERNATIVE METHOD TO THE DIRECT VIRUS DELIVERY OF THE OPSINS

*Lisa-Marie Selesnew, Paul Schlanstein, Luciano Furlanetti, Yijing Xie, Volker A. Coenen, Ulrich Hofmann, Máté D. Döbrössy, Freiburg im Breisgau*