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 21, 10:45 -11:30 h and 17:15 -18:00 h in the poster area 21.

Postersessions

Postersessions A:	Wednesday, March 20	13.00 - 14.30 and 16.30 - 18.00
Postersessions B:	Thursday, March 21	10.00 - 11.30 and 16.30 - 18.00
Postersessions C:	Friday, March 22	10.00 - 11.30 and 16.30 - 18.00
Postersessions D:	Saturday, March 23	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

	Title of the Poster	Author(s)
T1-1A	Chromatin remodeling BAF (mSWI/SNF) complexes regulate oligodendrogenesis in the embryonic forebrain	Eman Abbas (1), Kamila A. Kiszka(1,2), Linh Pham(1), Jochen F. Staiger(1,2), Tran C. Tuoc(1,2)
T1-2A	Automated and manual patch clamp data of human induced pluripotent stem cell-derived dopaminergic neurons	Denise Franz (1), Hervør Lykke Olsen(2), Jan Gimsa(3), Rüdiger Köhling(1)
T1-3A	Nr2f1 transcriptional gradient in the developing mouse cerebral cortex depends on histone demethylase KDM1a activity	Henriette Franz (1), Tanja Vogel(1)
T1-4A	Appropriate markers to identify glioblastoma stem cells in vitro	Diana Freitag (1), Fritz Klippel(1), Rolf Kalff(1), Christian Ewald(2), Jan Walter(1)
T1-1B	Recovery of olfactory induced behavior indicates successful network restoration after olfactory nerve transection in larval *Xenopus laevis*	Sara Joy Hawkins (1), Yvonne Gärtner(1), Lukas Weiss(1), Thomas Hassenklöver(1), Ivan Manzini(1,2)
T1-2B	Loss of Brg1 in hGFAP-positive cells impairs cerebral and cerebellar development	Dörthe Holdhof (1,2), Melanie Schoof(1,2), Malte Hellwig(1,2), Ulrich Schüller(1,2,3)
T1-3B	Generation of functionally active and mature neurons from ADHD patients carrying copy number variants of *SLC2A3* to study its impact on neuronal metabolic as well as neurodevelopmental processes	Charline Jansch (1), Andrea Forero(1), Sina Kollert(2), Sina Wäldchen(3), Jonas Waider(1), Frank Edenhofer(4), Erhard Wischmeyer(2), Klaus-Peter Lesch(1)
T1-4B	Stress impedes neuronal differentiation via *ZBTB16* in human cerebral organoids	Anthodesmi Krontira (1,2), Cristiana Cruceanu(1), Simone Röh(1), Silvia Matrinelli(1), Elisabeth Binder(1,3)
T1-1C	Characterization of Electrophysiological Properties Of Human iPSC-derived Neurons in Autaptic Culture	Hong Jun Rhee (1), Ali Shaib(1), ChoongKu Lee(1), Oliver Bruestle(2), Nils Brose(1), JeongSeop Rhee(1)
T1-2C	Characterization of Morphological Properties of Human iPSC-Derived Neurons in Autaptic Culture System	Ali Shaib (1), Hong Jun Rhee(1), ChoongKu Lee(1), Peter Seif(1), Oliver Bruestle(2), Nils Brose(1), JeongSeop Rhee(1)
T1-3C	Wharton's Jelly - source of MSC which are able to differentiate in NSC.	Adam Osowski (1), Ewa Kruminis-Kaszkiel(1), Ewa Bejer-Olenska(1), Joanna Wojtkiewicz(1)
T1-4C	Profilin1 mutant mice display features of a gyrencephalic neocortex	Marco Rust (1,2,3), Sophie Meyer(1), Jan Kullmann(1,3), Fabrizia Pipicelli(4), Felix Schneider(1,2,3), Nora Bartels(1), Silvia Cappello(4)
T1-1D	Neurogenic effect of Wnt signaling pathway on isolated murine and human progenitor cells of the enteric nervous system	Melanie Scharr (1), Peter Neckel(1), Katharina Nothelfer(1), Ying Zhang(1), Karin Seid(1), Florian Obermeyr(2,3), Lothar Just(1)
T1-2D	EGFL7: a novel modulator of neural homeostasis in the hippocampus	Mirko HH Schmidt (1), Verica Vasic(1), Frank Bicker(1)
T1-3D	Analysing schizophrenia risk variants in NRXN1 using functional and mature neuronal cultures from patient-derived iPS cells	Annika Liisa Majer (1)
T1-4D	Assessment of electrophysiological properties of human iPSC-derived serotonergic neuron model	Evgeniy Svirin (1,2), Sina Kollert(1,2), Charline Jansch(1), Erhard Wischmeyer (1), Tatyana Strekalova(1,2,3), Klaus-Peter Lesch (1,2,3)
T1-5D	Is the coat color reflecting neuronal layering in the olfactory bulb in the Female American Mink (*Neovison vison var. spec.*)?	Elke Weiler (1), Willi Bennegger(2,3)

T2-1A	SHANK3 transient silencing is accompanied by alterations in adhesion molecules partially restored by oxytocin	Jan Bakos (1,2), Martina Zatkova(1,2), Alexandra Reichova(1), Annamaria Srancikova(1), Veronika Meliskova(2), Zuzana Bacova(1)
T2-2A	Developmental neurotoxicity testing for axonal navigation defects in an intact locust embryo	Gerd Bicker (1), Karsten Bode(1), Michael Stern(1)
T2-3A	Remodeling of M1 layer Vb pyramidal cell axon initial segments and their axo-axonic innervation pattern after spinal cord lesion	Dominik Dannehl (1,2,3,5), Bruno Benedetti(2,3,5), Christian Thome(4), Jan Maximilian Janssen(1), Lara Sophie Bieler(2,3), Corinna Corcelli(1), Sébastien Couillard-Déspres(2,3,5), Maren Engelhardt(1,5)
T2-1B	Role of Ndr2 kinase in substrate-specific neurite growth and spine development	Yunus Demiray (1), Atsuhiro Tsutiya(1), Deniz Madencioglu(1), Dain Lee(1), Oliver Stork(1,2)
T2-2B	The morphology of pyramidal cells with axon-carrying dendrites in rat visual cortex	Eugenia Dutova (1), Ina Gasterstedt(1), Lisa Rennau(1), Steffen Gonda(1), Maren Engelhardt(2), Alexander Jack(1), Petra Wahle(1)
T2-3B	Neuroplastin Promotes Spinogenesis and Regulates E/I Synapse Balance through TRAF6	Rodrigo Herrera-Molina (1), Sampath Kumar Vemula(1), Ayse Malci(1), Lennart Junge(1), Anne-Christine Lehmann(1), Johannes Hradsky(1), Ricardo A. Matute(2), Ramya Rama(1), Michael Naumann(3), Constanze I. Seidenbecher(1), Eckart D. Gundelfinger(1)
T2-4B	Visual map formation without postsynaptic lamina neurons in *Drosophila*	Monika Kauer (1,3), Egemen Agi(1,3), Charlotte Wit(1,3), P. Robin Hiesinger(2,3)
T2-1C	GluK2-NETO2 signalling regulates dendritic spine morphology in developing hippocampus	Sebnem Kesaf (1)
T2-2C	**retracted** The altered expression of cell adhesion molecule contactin-3 in tuberous sclerosis complex	Anatoly Korotkov (1), James D. Mills(1), Armand Blondiaux(4), Fanny Jaudon(6), Jasper J. Anink(1), Jackelien van Scheppingen(1), Constanze Seidenbecher(4,5), Lorenzo Cingolani(6), Erwin A. van Vliet(1,2), Eleonora Aronica(1,3)
T2-3C	Posttranslational modification of hyaluronan receptor CD44 modifies its functions in regulation of neuronal morphology.	Josephine Labus (1), Alexander Wirth(1), Saskia Borsdorf(1), Evgeni Ponimaskin(1)
T2-1D	*In vivo* time-lapse imaging of olfactory sensory neuron birth, differentiation and axogenesis	Thomas Offner (1,2), Sara Joy Hawkins(2), Lukas Weiss(2), Thomas Hassenklöver(2), Ivan Manzini(1,2)
T2-2D	Genetically encoded calcium indicators (GECIs) can impair developmental dendrite growth in rat cortical neurons	Petra Wahle (1), Tobias Stahlhut(1), Alexander Jack(1)
T2-3D	Molecular mechanisms underlying Ankyrin2-dependent control of synaptic plasticity	Tobias Weber (1), Johanna Buchheit(1), Raiko Stephan(2), Jan Pielage(1)
T2-4D	Roles of Dscams in the Development of *Drosophila* Central Neuron Dendrites	Nicole Wilhelm (1), Shikha Kumari(1), Carsten Duch(1)
T3-1B	Identifying transcriptional response of developing corticospinal neurons to spinal axotomy	Philipp Abe (1), Karthikeyan Devaraju(1), Natalia Baumann(1), Denis Jabaudon(1)
T3-2B	TGF-β2 Regulates Development of Serotonergic Neuron Subgroups: Evidence from mutant mice	Belal Mahmoud Rahhal (1), Eleni Roussa(2)
T3-1C	Hypoxic reprogramming of HeLa Kyoto tumor cells	Anastasia Alekseevna Elizarova (1), Elena Ivanovna Erlykina(1), Vladimir Georgievich Pimenov (2), Mikhail Mikhailovich Palkin(1), Maria Maksimovna Lukina(1), Maria Vadimovna Shirmanova(1)
T3-2C	Bioinformatics analysis of oxidative and elemental status as a factor in the early diagnosis of brain tumors	Anna Vladimirovna Shcherina (1), Larisa Mikhailovna Obukhova(1), Oksana Vladimirovna Barinova (1), Kirill Vladimirovich Kuzmichev(1), Igor

		Alexandrovich Medyanik(1), Ilya Igorevich Evdokimov(2)
T4-1A	Impaired anandamide/palmitoylethanolamide signaling in hippocampal glutamatergic neurons alters synaptic plasticity, learning and emotional responses	Annika Beer (1), Tina Zimmermann(1), Julia C. Bartsch(2), Ermelinda Lomazzo(1), Stephan Guggenhuber(1), Maren Lange(2), Laura Bindila(1), Hans-Christian Pape(2), Beat Lutz(1)
T4-2A	Electrophysiological properties of CA1 pyramidal neurons and their dopaminergic modulation along the longitudinal hippocampal axis	Swantje Beythien (1), Volkmar Leßmann(1,2), Elke Edelmann(1,2)
T4-3A	Morphological and Behavioural Characteristics of the Tryptophan Hydroxylase Knockout Rat	Sabrina Ilonka Hanswijk (1), Jan K Buitelaar(1), Judith R Homberg(1)
T4-1B	Postsynaptic exocytosis of endogenous BDNF vesicles in BDNF-GFP knock-in mice	Volkmar Lessmann (1), Robert Eckenstaler(1), Julia Leschik(2), Thomas Endres(1), Thomas Munsch(1), Karin Richter(3), Oliver Kobler(4), Klaus Fischer(3), Werner Zuschratter(4), Tanja Brigadski(1), Beat Lutz(2)
T4-2B	Novel molecular tools for single cell imaging of C-to-U RNA editing	Jochen Meier (1), Andrea Knoll(2), Oliver Seitz(2), Svenja Kankowski(1)
T4-1C	GABAergic synaptic transmission and plasticity is unaltered in the lateral amygdala of heterozygous BDNF knockout mice	Susanne Meis (1,2), Thomas Endres(1), Thomas Munsch(1,2), Volkmar Lessmann(1,2)
T4-2C	Desensitization of partially occupied kainate receptor heteromers	Stefan Pollok (1), Andreas Reiner(1)
T4-1D	Towards highly specific genetic manipulation of the mouse cannabinoid CB1 receptor using CRISPR/Cas9: cell-type selective and region-specific CB1 knockout in the adult brain and generation of a CB1 point-mutation mouse line	Floortje Remmers (1), Leonid Eshkind(2), Maren D. Lange(3), Hans-Christian Pape(3), Beat Lutz(1)
T4-2D	Neuromuscular transmitters in arthropods	Michael Stern (1), Gerd Bicker(1)
T4-3D	C-terminal truncation at serine 505 increases EAAT2 activity and is not involved in EAAT2 downregulation associated with staurosporine-induced caspase 3 activation	Timo-Daniel Voss (1), Jan Lewerenz(1)
T5-1A	The adhesion-GPCR CIRL promotes mechanosensory signal discrimination	Sven Dannhäuser (1,2), Thomas Lux(3), Jeremy Chen(3), Nadine Ehmann(1,2), Chun Hu(4), Peter Soba(4), Heike Rittner(3), Robert J. Kittel(1,2)
T5-1B	CaMello-XR: Visualization and optogenetic control of $G_{q/11}$ signals and receptor trafficking in GPCR-specific domains	Dennis Eickelbeck (1), Raziye Karapinar(1), Alexander Jack(2), Petra Wahle(2), Stefan Herlitze(1)
T5-2B	The brain oxytocin system and its complex impact on stress and anxiety	Benjamin Jurek (1)
T5-1C	ADAMTS 4/5-mediated proteolysis of neural extracellular matrix upon D1-like dopamine receptor stimulation	Jessica Mitlöhner (1), Rahul Kaushik(2), Christine Gee(3), Alexander Dityatev(1,2,5), Renato Frischknecht(1,4,5), Constanze Seidenbecher(1,5)
T5-2C	Characteristics of 5-HT_7 receptor-expressing neurons in the mouse ventral dentate gyrus	Marcin Siwiec (1), Krzysztof Tokarski(1)
T5-1D	Dual action of D2 dopamine receptor activation in nucleus incertus – potential source of sex differences in food intake	Agata Szlaga (1), Anna Gugula(1), Anna Blasiak(1)
T5-2D	MrgD is expressed by neurons in the forebrain	Oliver von Bohlen und Halbach (1), Nora Bödecker(1), Thomas Walther(2), Anja Tetzner(2),

		Viola von Bohlen und Halbach(1)
T6-1A	Low-voltage-activated calcium and TTX-sensitive sodium currents are present at young and adult mouse retinal horizontal cells	Norbert Babai (1), Johann Helmut Brandstätter(1), Andreas Feigenspan(1)
T6-2A	Control of circadian ATP release in organotypic cultures of the rat suprachiasmatic nucleus by purinergic P2X and P2Y receptors	Anirban Bhattacharyya (1), Irena Svobodová (1), Milorad Ivetic(1), Zdenka Bendová (2), Hana Zemková (1)
T6-3A	Expression of the BK channel γ subunit LRRC52 (γ2) in mouse inner hair cells and the „BK channel activation paradox“	Jutta Engel (1), Isabelle Lang(1), Barbara A. Niemeyer(2), Martin Jung(3), Peter Ruth(4)
T6-4A	Mechanism of GLUT1 and GLUT3 palmitoylation	Noemi Gmahl (1), Nataliya Gorinski(1), Britta Stapel(2), Kai G. Kahl(2), Evgeni Ponimaskin(1)
T6-5A	Mechano-gating properties of *Drosophila* NOMPC	Philip Hehlert (1), Thomas Effertz(2), Martin Göpfert(1)
T6-6A	Probing the function of $a_2\delta$ voltage gated calcium channel subunits in the genetic model system *Drosophila melanogaster*	Laurin Heinrich (1), Christopher Bell(1), Stefanie Ryglewski(1)
T6-1B	Quantification of alternative splicing within ionotropic glutamate receptors (iGluRs) using human RNA-Seq data	Robin Herbrechter (1), Andreas Reiner(1)
T6-2B	A novel RNA editing sensor tool and specific agonist determine neuronal protein expression of RNA-edited glycine receptors	Florian Hetsch (1), Benjamin Förstera(2), Aline Winkelmann(3), Pina Knauff(4), Erich E. Wanker(3), Xintian A. You(5), Marcus Semtner(6), Svenja Kankowski(1), Jochen C. Meier(1)
T6-3B	Effect of fasting/refeeding on purinergic modulation of GABA-ergic synaptic transmission in the rat supraoptic nucleus	Milorad Ivetic (1), Anirban Bhattacharya(1), Hana Janouskova(1), Hana Zemkova(1)
T6-4B	Alternative splicing as a mechanism to increase ion channel diversity	Lukas Kilo (1), Stefanie Ryglewski(1)
T6-5B	RNA-edited glycine receptors are potential targets for pharmacotherapy in temporal lobe epilepsy	Larissa Kraus (1), Svenja Kankowski(2), Florian Hetsch(2), Nicolai Dorka(2), Marcus Semtner(3), Martin Holtkamp(1), Jochen C. Meier(2), Pawel Fidzinski(1)
T6-1C	The role of L-type Dmca1D calcium channels at the Drosophila neuromuscular synapse	Niklas Krick (1), Carsten Duch(1)
T6-2C	Maintaining excitation and inhibition at single cell level	Marie-Luise Kümmel (1), Uli Müller(1)
T6-3C	Thyroid Hormone Effects on Metabolic Rate: Correlation of Na^+ Influx and Expression of Na^+/K^+-ATPase	Heiko Michael Leßlich (1), Lisa Bachmann(1), Sascha Döring(1), Sivaraj Mohana Sundaram(2), Irmgard D. Dietzel(1)
T6-4C	Interactions of calcium channel ($Ca_v1.2$) circuitries with early life stress and their involvement in the pathogenesis of psychiatric disorders	Srivaishnavi Loganathan (1,2), Jan M Deussing(1)
T6-5C	TRPM3 channels in non-neuronal cells of somatosensory dorsal root ganglia	Johannes Oberwinkler (1), Sandeep Dembla(1,2), Raissa Enzeroth(1), Behrendt Marc(1)
T6-6C	Nano-scale dynamics of voltage gated Ca2+ channels: an in vivo single molecule analysis	Tina Ghelani (1,2), Hylkje Geertseema(3), Ulrich Thomas(4), Martin Lehmann(5), Felix Ewers(3), Martin Heine(4), Stephan J. Sigrist(1,2)

T6-1D	Effect of solute carriers (SLC) on CA1 pyramidal cells, synaptic transmission and hippocampal network activity	Marco Rohde (1), Vanessa Ziesak(1), Andreas Birkenfeld(2), Rüdiger Köhling(1)
T6-2D	Alanine scanning mutagenesis of the rat P2X7 receptor highlights the requirement for lysine and aspartate in the first transmembrane domain	Marian Rupert (1), Anirban Bhattacharya(1), Hana Janouskova(1), Stanko Stojilkovic(3), Hana Zemkova(1)
T6-3D	Role of the Na^+-activated K^+ channel Slack (Slo2.2) for hearing function and noise vulnerability in mice	Pauline Schepsky (1), Anne Bausch(2), Robert Lukowski(2), Katharina Sorg(3), Dietmar Hecker(3), Bernhard Schick(3), Peter Ruth(2), Simone Kurt(1), Jutta Engel(1)
T6-4D	The auxiliary Ca^{2+} channel subunits $\alpha_2\delta 2$ and $\alpha_2\delta 3$ are required for proper $Ca_V2.1$ currents in cultured spiral ganglion neurons and for the development of endbulb of Held synapses	Friederike Stephani (1), Kerstin Blum(1), Jutta Engel(1)
T6-5D	*In silico* current prediction and noise analysis elucidates gating properties of heterodimeric rClC-K1 chloride channels	Stefan Thiemann (1), Birgit Begemann(1), Toni Becher(1), Martin Fischer(1)
T6-6D	Ionic channels involved in spontaneous and CRH-induced excitability and calcium signaling of mice corticotrophs	Hana Zemkova (1), Melania Tomic(2), Marek Kucka(2), Greti Aguilera(3), Stanko S Stojilkovic(2)
T7-1A	Expression of BDNF precursor protein and RNA transcript in individual hippocampal neurons demonstrated using Laser Capture Microdissection and qRT-PCR	Federico Jose Barreda Tomas (1,2), Heike Heilmann(1), Imre Vida(1,3), Agnieszka Muenster-Wandowski(1)
T7-2A	The relation between the different phases of early-phase synaptic plasticity and the underlying dynamics of AMPA-receptors	Moritz Becker (1), Christian Tetzlaff(1,2)
T7-3A	TOP3B: A novel candidate gene in juvenile myoclonic epilepsy?	Marwa Daghsni (1), Saida Lahbib(2), Mohamed Fradj(3), Lilia Kraoua(4), Faouzi Maazoul(4), Sonia Abdelhak(2), Ridha M'rad(1,4)
T7-4A	Rapid induction and sustained expression of presynaptic homeostatic plasticity at a mammalian CNS synapse	Igor Delvendahl (1,2), Katarzyna Kita(1,2), Martin Müller(1,2)
T7-5A	Direct measurement of glutamate release at Schaffer collateral synapses under low and high frequency activity	Céline D. Dürst (1), J. Simon Wiegert(1), Christian Schulze(1), Nordine Helassa(2), Katalin Török(2), Thomas G. Oertner(1)
T7-6A	From local to global signalling in rat olfactory bulb granule cell dendrites	Veronica Egger (1), Max Müller(1), S.Sara Aghvami(1,2)
T7-7A	Synaptic mechanisms underlying temporally precise information processing in the VNLL	Linda Fischer (1,2), Felix Felmy(1)
T7-8A	Relation between sodium signaling and ATP consumption in mouse hippocampal neurons	Niklas J. Gerkau (1), Rodrigo Lerchundi(1), Jan Meyer(1), Christian Kleinhans(1), Marina Lantermann(1), Johannes Hirrlinger(2,3), Christine R. Rose(1)
T7-9A	In search of the synaptic vesicle tether at a sensory synapse	Kaspar Korbinian Maximilian Gierke (1), Sonja Kirsch(2), Tanja Müller(1), Craig Garner(3), Rainer Böckmann(2), Hanna Regus-Leidig(1), Johann Helmut Brandstätter(1)
T7-10A	Single synapse activity characterization reveals interdependences between release modes.	Andreas T Grasskamp (1,2), Meida Jusyte(1,3), Mathias A Böhme(1), Alexander M Walter(1,3)
T7-1B	The interplay between kinesin-3 and dynamic microtubules at presynapses specifies high	Pedro Guedes-Dias (1), Jeffrey J Nirschl(1), Nohely C Abreu(1), Mariko K Tokito(1), Erika LF Holzbaur(1)

	precision delivery of synaptic cargo	
T7-2B	Role of Auxiliary Subunits in AMPA Receptor Trafficking in Hippocampal Neurons	Ali Harb (1,2), Nils Vogel(2), Walentina Frisch(2), Ali Shaib(3), Ute Becherer(2), Dieter Bruns(2), Ralf Mohrmann(1)
T7-3B	Presynaptic K^+ channels regulate spontaneous glutamate release through a specific association with Ca^{2+} channels in the hippocampal pyramidal neurons	Won-Kyung Ho (1)
T7-4B	Optogenetic characterization of excitatory inputs at spiny interneurons of the stratum oriens	Joaquin Isaac Hurtado Zavala (1), J. Simon Wiegert(1)
T7-5B	Proteomic alterations of GABAergic Interneurons following traumatic brain injury (TBI) in mouse neocortex.	Natascha Ihbe (1), Florie Le Prieult(1), Qi Wang(1), Ute Distler(2), Malte Sielaff(2), Stefan Tenzer(2), Serge Thal(3), Thomas Mittmann(1)
T7-6B	Freeze frame shots of synapses in action: Correlating presynaptic ultrastructure and function at the nanoscale	Cordelia Imig (1), Sünke L. Mortensen(1), Lydia Maus(1), Nils Brose(1), Benjamin H. Cooper(1)
T7-7B	Ca^{2+}-dependent Calmodulin-Unc13A interaction shapes structure, function, and short-term plasticity	Meida Jusyte (1,2), Mathias A. Boehme(1), Alexander M. Walter(1)
T7-8B	Uncovering the Role of Presynaptic GIT Proteins for Fast Auditory Signaling	Christian Keine (1), Samuel M. Young, Jr.(2)
T7-9B	Minimal input requirement for action potential generation in auditory brainstem nuclei	Nikolaos Kladisios (1), Linda Fischer(1), Felix Felmy(1)
T7-10B	Neuronal profilins as modulators of dendritic complexity and structural plasticity	Maximilian Klasmeier (1), Tania Meßerschmidt(1), Dorothea Hinz(1), Martin Korte(1), Martin Rothkegel(1)
T7-1C	Regulation of exocytosis by amisyn, a PI(4,5)P2 and syntaxin-binding protein	Ilona Kondratiuk (1), Shrutee Jakhanwal(2), Reinhard Jahn(2), Ira Milosevic(1)
T7-2C	Extracellular matrix ensures temporally precise high frequency synaptic transmission at the calyx of Held	Christoph Körber (1), Denise Harrach(1), Thomas Kuner(1)
T7-3C	How do glycinergic synapses transmit in the absence of the glycine transporter GlyT2?	Catharina Kurz (1), Sina Elena Brill(1), Dennis Julian Weingarten(2), Eckhard Friauf(1)
T7-4C	Neuronal calcium homeostasis: variations in an evolutionarily conserved molecular interplay between Neuroplastin/ Basigin and PMCAs.	Xiao Lin (1), Karl-Heinz Smalla(1), Thilo Kähne(2), Lennart Junge(1), Constanze Seidenbecher(1), Dirk Montag(1), Eckart Gundelfinger(1), Rodrigo Herrera-Molina(1), Ulrich Thomas(1)
T7-5C	Examining the role of Complexins in adaptation processes at photoreceptor ribbon synapses	Uwe Thorsten Lux (1), Andreas Gießl(2), Katharina Pieger(1), Karsten Boldt(3), Kerstin Reim(4), Johann Helmut Brandstätter(1)
T7-6C	Resolving the Ultrastructural Organization of Synaptic Vesicle Pools at Hippocampal Mossy Fiber and Schaffer Collateral Synapses	Lydia S. B. Maus (1), Bekir Altas(1,2), Jeong-Seop Rhee(1), Nils Brose(1), Cordelia Imig(1), Benjamin H. Cooper(1)
T7-7C	Nogo-A signaling modulates synaptic transmission at a fast time scale	Kristin Metzdorf (1), Steffen Fricke(1), Stefan Haak(1), Martin Korte(1), Marta Zagrebelsky(1)
T7-8C	Do different Complexin isoforms act upon different SNARE complex types?	Jutta Meyer (1,2), Olaf Jahn(3), Nils Brose(1), Johann Helmut Brandstätter(4), Kerstin Reim(1)
T7-9C	Synaptic elimination and strengthening uncoupled: the impact of central L-type voltage-gated Ca^{2+} channels on circuit refinement of a	Nicolas Müller (1), Eckhard Friauf(1)

	sound source localization pathway	
T7-10C	Rapid modulation of transsynaptically aligned glutamate receptor nanocluster rings during homeostatic plasticity	Paola Muttathukunnel (1,2), Martin Müller(1,2)
T7-11C	Presynaptic $GABA_A$ Receptors Modulate Glutamatergic Transmission at the Endbulb of Held	Jana Nerlich (1), Stefan Hallermann (1), Ivan Milenkovic(1)
T7-1D	Developmental easing of short-term depression in 'winner' climbing fibers	Christina Paetz (1), Simone Brachtendorf(1), Jens Eilers(1)
T7-2D	Phosphoinoside-dependent regulation of GABAergic Neurotransmission at inhibitory Postsynapses	Theofilos Papadopoulos (1)
T7-3D	SynTagMA: a new optogenetic tool to map active synapses	Alberto Perez-Alvarez (1), Brenna C Fearey(1), Ryan O'Toole(2), Ignacio Arganda-Carreras(3), Eric R Schreiter(4), J Simon Wiegert(1), Christian Schulze(1), Michael B Hoppa(2), Christine E Gee(1), Thomas G Oertner(1)
T7-4D	Synaptogenesis depends on axonal transport via lysosome-related vesicles	Astrid G. Petzoldt (1,3), Anela Vukoja(1,2), Ulises Rey(1,3), Christoph Ott(1,2), Dymtro Puchkov(1,2), Eric Reynolds(1,3), Martin Lehmann(1,2), Stephan J. Sigrist(1,3), Volker Haucke(1,2)
T7-5D	A role for Piccolo in the regulation of neurotransmitter release and presynaptic plasticity.	Eneko Pina (1,2), Carolina Montenegro-Venegas(1), Yulia Klyueva(2), Daria Davydova(1), Claudia Marini(1), Eckart D. Gundelfinger(1), Anna Fejtova(2,3)
T7-6D	Myosin XVI is a regulator of actin cytoskeleton dynamics in dendritic spines of Purkinje cells	Mona Katrin Roesler (1), Franco Lombino(1), Michaela Schweizer(2), Irm Hermans-Borgmeyer(3), Matthias Kneussel(1), Wolfgang Wagner(1)
T7-7D	Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice	Claudia Schob (1), Fabio Morellini(2), Ora Ohana(2), Lidia Bakota(3), Mariya V. Hrynchak(3), Michaela Schweizer(2), Markus Wöhr(4), Karl J. Vörckel(4), Craig C. Garner(5), Hans-Jürgen Kreienkamp(1), Stefan Kindler(1)
T7-8D	Building fast and resilient inhibitory synapses with Ca2+ nanodomains and microdomains	Henrique von Gersdorff (1), Dennis J. Weingarten(2), Nicolas Muller(2), Eckhard Friauf(2)
T7-9D	The Presynaptic Protein Mover is Heterogeneously Expressed across Brain Areas and Synapse Types	Rebecca Wallrafen (1), Thomas Dresbach(1)
T7-10D	A sequence of molecular events mediates the rapid addition of release site modules during presynaptic potentiation	Alexander Matthias Walter (1), Mathias Böhme(1), Anthony McCarthy(1), Christine Beuschel(2), Andrease Grasskamp(1), Desiree Laber(3), Meida Jusyte(1), Fabian Göttfert(4), David Owald(3), Stefan Hell(4), Stephan Sigrist(2)
T8-1A	Understanding the relationship between long-term synaptic dynamics and neuronal activity in hippocampal CA1	Tim Phillip Castello-Waldow (1,2), Ghabiba Weston(1,2,3), Alon Chen(1,4), Alessio Attardo(1)
T8-2A	Superresolution of PSD95 Remodeling after Induction of Long-term Potentiation	Valérie Clavet Fournier (1,2,3), Waja Wegner(2,3), Katrin Willig(2,3)
T8-3A	TGF-β family member activin modulates hippocampal CA1 synaptic plasticity in a frequency-dependent fashion.	Marc Dahlmanns (1), Fang Zheng(1), Christian Alzheimer(1)
T8-4A	Characteristics of low repeat spike timing-dependent LTP at Schaffer collateral-CA1	Elke Edelmann (1,2), Efrain Cepeda-Prado(1), Gloria Quiceno(1), Babak Khodaie(1), Swantje

	synapses of the hippocampus	Beythien(1), Volkmar Lessmann(1,2)
T8-5A	Human Autoantibodies against the AMPA Receptor Subunit GluA2 Induce Receptor Reorganization and Memory Dysfunction	Holger Haselmann (1,2), Francesco Mannara(3), Christian Werner(4), Jesus Planagumà(3), Lars Schmidl(1), Federico Miguez-Cabello(3,5), Mar Petit-Pedrol(3), David Soto(3,5), Sören Doose(4), Josep Dalmau(3,6), Stefan Hallermann(7), Christian Geis(1,2)
T8-6A	Mechanisms of spike timing-dependent LTP along the longitudinal axis of Schaffer collateral -CA1 synapses in the mouse hippocampus	Babak Khodaie (1,3), Elke Edelmann(1,2,3), Volkmar Leßmann(1,2,3)
T8-1B	Investigation of synaptic mechanisms underlying behavioral tagging	Monique Klausch (1), Volkmar Leßmann(1,2), Elke Edelmann(1,2)
T8-2B	Tumor necrosis factor modulates hippocampal synaptic plasticity through intracellular calcium stores	Dimitrios Kleidonas (1), Maximilian Lenz(1), Nicola Maggio(2,3,4,5), Andreas Vlachos(1)
T8-3B	Intracellular Zn^{2+} signaling facilitates mossy fiber input-induced heterosynaptic potentiation of direct cortical inputs in hippocampal CA3 pyramidal cells	SUK HO LEE (1), Kisang Eom(1), Won Kyung Ho(1)
T8-4B	Denervated neurons compensate for a defect in excitatory synaptic scaling by adjusting their intrinsic excitability	Maximilian Lenz (1), Christos Galanis(1), Dimitrios Kleidonas(1), Andreas Vlachos(1)
T8-5B	Learning-induced transformation of spiking pattern through nonlinear dendritic processing in vivo	Xiang Liao (1), Meng Wang(1), Ruijie Li(1), Ran Ding(1), Xiaowei Chen(1)
T8-6B	Neuroplastin-plasma membrane Ca^{2+} ATPases complexes: Are they new players in Ca^{2+} signaling and synaptic plasticity?	Ayse Malci (1,2), Michael Naumann(3), Eckart D. Gundelfinger(2,4), Constanze I. Seidenbecher(2,4), Rodrigo Herrera-Molina(2)
T8-7B	Bassoon is required for normal presynaptic homeostatic scaling and ocular dominance plasticity	Carolina Montenegro Venegas (1,5), Bianka Goetze(2,5), Santosh Pothula(3), Franziska Greifzu(2), Eneko Pina(3), Anil Annamneedi(1), Karl-Friedrich Schmidt(2), Eckart D. Gundelfinger(1), Siegrid Löwel(2), Anna Fejtova(3,4)
T8-1C	Microtubule-dependent control of synaptic maintenance at the Drosophila NMJ	Zeeshan Mushtaq (1), Raiko Stephan(2), Jan Pielage(1)
T8-2C	Probing the dynamics of presynaptic homeostatic potentiation at the *Drosophila* neuromuscular junction	Anu G. Nair (1), Martin Müller(1)
T8-3C	The role of Dopamine in different types of hippocampal spike timing-dependent plasticity	Gloria Quiceno (1), Elke Edelmann(1,2), Volkmar Leßmann(1,2)
T8-4C	Mechanisms of protein trafficking in dendritic synapse-to-nucleus communication	Sebastian Samer (1), Rajeev Raman(1), Katarzyna Grochowska(1,2), Anna Karpova(1), Michael R. Kreutz(1,2)
T8-5C	Role of a novel TrkB agonist antibody in modulating the structure and function of murine hippocampal neurons	Charlotte Tacke (1), Jia Xie (2), Peter S. DiStefano(3), Marta Zagrebelsky (1), Martin Korte(1)
T8-6C	Increased spine dynamics in the visual cortex of PSD-95 knockout mice: Chronic two-photon imaging of neuronal morphology in the awake brain	Anja Tippmann (1), Bettina Joachimsthaler(2), Cornelius Schwarz(2), Oliver Schlüter(3,4,5), Siegrid Löwel(1,5)
T8-1D	Acute stress promotes metaplasticity in the ventral subiculum in rats by NMDA receptor- and	Monique von Cramon (1,2), Julia C. Bartsch(2,3,4), David Gruber(2), Uwe Heinemann(2), Joachim

	β-adrenergic receptor-mediated mechanisms	Behr(1,2,3)
T8-2D	*Sox11* - a novel activity-dependent gene with dentate gyrus-specific expression	Julia von Wittgenstein (1), Fang Zheng(3), Marie-Theres Wittmann(4), Elli-Anna Balta(2), Fulvia Ferrazzi(4), Maria J. Valero-Aracama(3), Arif B. Ekici(4), Andrè Reis(4), Christian Alzheimer(3), D. Chichung Lie(2)
T8-3D	Long-term potentiation in an innexin-based electrical synapse	Georg Welzel (1), Stefan Schuster(1)
T8-4D	Stress affects the dynamics of hippocampal CA1 synapses and CA1-dependent learning and memory	Ghabiba Weston (1,2,3), Tommaso Carlo Caudullo(1,2), Tim Phillip Castello-Waldow(1,2), Alon Chen(1,2,3,4), Alessio Attardo(1)
T8-5D	The anesthetic state of the hippocampus and its effect on spine dynamics	Wei Yang (1), J.Simon Wiegert(1)
T8-6D	Homeostatic regulation of mossy fiber LTP by TGF-β family member activin	Fang Zheng (1), Christian Alzheimer(1)
T9-1A	AMPA-mediated calcium signalling in olfactory ensheathing cells	Antonia Beiersdorfer (1), Christian Lohr (1)
T9-2A	Critical contribution of astrocytes to motor learning *in vivo*	Chloe Delepine (1), Keji Li(1), Mriganka Sur(1)
T9-3A	Activity-dependent alteration of anisotropic glial coupling in the auditory brainstem	Sara Eitelmann (1), Tatjana TX Schmitt(2), Jan J Hirtz(2), Jonathan Stephan(1)
T9-4A	Development of microglia in fetal cortex of European wild boar, Sus scrofa	Laura Ernst (1), Eric Sobierajski(1), Christa Beemelmans(2), Christoph Beemelmans(2), Gundela Meyer(3), Petra Wahle(1)
T9-5A	Analysis of exosome release from NG2-glial cells.	Dmitry Fedorov (1), Jochen Walter(2), Volkmar Gieselmann(3), Christian Steinhäuser(1), Konstantin Glebov(2), Ronald Jabs(1)
T9-6A	Spontaneous Na^+ Signalling in the Neonatal Hippocampus	Lisa Felix (1), Christine Rose(1)
T9-1B	Dopamine induces calcium signals in olfactory bulb astrocytes	Timo Fischer (1), Christian Lohr(1)
T9-2B	Electrophysiological properties of proliferating astrocytes after traumatic brain injury	Stefanie Götz (1), Benedikt Grothe(1), Lars Kunz(1)
T9-3B	Serotonin regulation of astrocyte cell number and morphology in raphe nuclei	Melin Hasan (1), Mary Newland(1), Natalia Alenina(2), Valentina Mosienko(1)
T9-4B	Gap junction uncoupling and cytoskeletal changes in astrocytes occur independent of neuroinflammation during early epileptogenesis	Lukas Henning (1), Julia Müller(1), Zhou Wu(1), M. T. Heneka(2), Peter Bedner(1), Christian Steinhäuser(1)
T9-5B	Exosomal release of astroglial vimentin: implications on the neuronal growth-promoting properties of clostridial C3 transferase?	Markus Höltje (1), Andrej Adolf(1), Rohrbeck Astrid(2), Agnieszka Münster-Wandowski(1), Malin Johansson(3), Hans-Georg Kuhn(3), Marcel Alexander Kopp(4), Benedikt Brommer(4), Jan Markus Schwab(5), Gudrun Ahnert-Hilger(1)
T9-6B	HIF-1a is stable and active in astrocytes under physioxia	Sherif Idriss (1), Silje Zimek(1), Katia Monsorno(1), Olaf Joehren(1)
T9-1C	Neuroimmunological function of osteopontin in activation of astrocytes in stab wound mouse brain and LPS stimulated primary culture	Hiroko IKESHIMA-KATAOKA (1), Motoko FURUKAWA(2), Sayaka INUI(2), Yutaka MATSUI(3), Toshimitsu UEDE(4), Masato YASUI(2)

T9-2C	Synaptic protein turnover inside and outside the adult *Drosophila* photoreceptors	Eugene (Jennifer) Jin (1), Eugenia Patsouri(1), Sarah Green(1), Friederike Elisabeth Kohrs(1), Peter Robin Hiesinger(1)
T9-3C	Essential contribution of NBCe1 in modulation of astrocytic metabolism by neuronal signals	Susanne Köhler (1), Ulrike Winkler(1), Marit Sicker(1), Johannes Hirrlinger(1,2)
T9-4C	Dendritic ATP release evokes calcium signaling in olfactory bulb astrocytes	Kristina Losse (1), Damian Droste (1), Janina Popp(1), Antonia Beiersdorfer(1), Christian Lohr (1)
T9-5C	Astrocytes and oligodendrocytes in the thalamus jointly maintain synaptic activity by supplying metabolites	Camille Philippot (1), Stephanie Griemsmann(1), Ronald Jabs(1), Helmut Kettenmann(2), Christian Steinhäuser(1)
T9-6C	Immunohistochemical and functional analysis of $P2X_7$ receptors in microglia of the mouse olfactory bulb	Natalie Clara-Maria Rotermund (1), Judith Seliger(1), Niklas Hormanns(1), Annette Nicke(2), Christian Lohr(1)
T9-1D	NG2 glia-specific gene knockout as a tool to understand the impact of neuron-glia synaptic signaling	Aline Timmermann (1), Anne Boehlen(1), Magdalena Skubal(1), Andras Bilkei-Gorzo(2), Andreas Zimmer(2), Ronald Jabs(1), Frank Kirchhoff(3), Gerald Seifert(1), Christian Steinhäuser(1)
T9-2D	Investigating Glia-Neuron Protein Interactions In Purified Neuronal Cultures using BONCAT and SILAC metabolic labelling	Paul Turko (1), Juliane Schiweck(2), Keenan Groberman(1), Cristina Kroon(2), Britta Eickholt(2), Imre Vida(1)
T9-3D	Mapping Glutamate Receptors On NG2 Cells With 2P Glutamate Uncaging	Natascha Vana (1), Wenjing Sun(1), Shane McMahon(1), Susanne Schoch(2), Dirk Dietrich(1)
T9-4D	Metabolic heterogeneity of astrocytes: insights from nanosensor imaging in the brain	Ulrike Winkler (1), Susanne Köhler(1), Johannes Hirrlinger(1,2)
T9-5D	Characterization of astrocytic calcium signals from intensity based fluorescence indicators	Andre Zeug (1), Volodymyr Cherkas(1), Gebhard Stopper(2), Franziska E. Müller(1), Evgeni Ponimaskin(1)
T9-6D	Mechanisms and consequences of sodium signals in astrocytes of the mouse neocortex	Daniel Ziemens (1), Franziska Oschmann(2), Niklas J. Gerkau(1), Christine R. Rose(1)
T10-1A	**retracted** Creatine transporter disorder: new insights into epileptic phenotype and diagnostic biomarkers	Laura Baroncelli (1), Francesco Cacciante(2), Leonardo Lupori(2), Raffaele Mazziotti(3), Elena Putignano(1), Tommaso Pizzorusso(1,3)
T10-2A	Excessive generation of NMDA receptor-dependent early network oscillations in a human stem cell-derived model of autism	Katharina Behr (1), Philippe Valmaggia(1), Ravi Jagasia(2), Josef Bischofberger(1)
T10-3A	Modulation of the Hyaluronan-Based Extracellular Matrix in Mouse Models of Epilepsy	Armand Blondiaux (1), Shaobo Jia(2), Renato Frischknecht(1,3,4), Alexander Dityatev(2,3), Eckart D. Gundelfinger(1,3), Constanze I. Seidenbecher(1,3)
T10-4A	Intranasal oxytocin enhances perceptual mechanisms for voice-identity recognition.	Kamila Borowiak (1,2,3), Katharina von Kriegstein(1,2)
T10-1B	Impact of caloric restriction on the *in vivo* cortical function in aged mice	Nicole Fröhlich (1), Nithi Asavapanumas(1), Chommanad Lerdkrai(2), Elizabeta Zirdum(1), Olga Garaschuk(1)
T10-2B	Novel mutations in the asparagine synthetase gene (ASNS) associated with microcephaly	Johannes Hirrlinger (1,2), Dorit Schleinitz(3), Ruth Stassart(4), Katrin Hoffmann(5), Peter Kovacs(3)
T10-3B	Long-term studies in mice assessing delayed effects of low and moderate radiation doses	Sabine M. Hölter (1), Marie-Claire Ung(1), Lillian Garrett(1), Claudia Dalke(1), Sarah Kunze(1), Daniel Pawliczek(1), Elizabeth A. Ainsbury(2), Jochen Graw(1)

T10-4B	The role of the metabotropic glutamate receptor 5 in the pathophysiology and therapy of generalized dystonia in the dtsz model	Stefanie Perl (1), Franziska Richter(2), Angelika Richter(3)
T10-5B	The role of cholinergic interneurons in dystonia: optogenetic stimulations in DYT1 knock-in mice reveal an endophenotype but no overt dystonic symptoms	Franziska Richter (1), Anne Bauer(1), Stefanie Perl(1), Anja Schulz(1), Angelika Richter(1)
T10-1C	The role of CBP in neurodevelopment and mental retardation	Melanie Schoof (1,2), Michael Launspach(1,2), Dörthe Holdhof(1,2), Malte Hellwig(1,2), Lynhda Nguyen(1,2), Beat Lutz(4), Ulrich Schüller(1,2,3)
T10-2C	Genetic variation of IL-6 expression modulates age-related memory decline	Björn Hendrik Schott (1,2), Lea Knopf(1,3), Hartmut Schütze(3,4), Constanze I. Seidenbecher(1), Emrah Düzel(3,4), Anni Richter(1)
T10-3C	**retracted** NEUROPATHOLOGICAL FINDINGS IN CATTLE WITH HISTOLOGICALLY SUSPECTED BOVINE SPONGIFORM ENCEPHALOPATHY IN NIGERIA	James Clinton Shawulu (1), Joseph Olajide Hambolu(2), Samuel Adeniyi Ojo(2), James Olukayode Olopade(3), Anne Balkema-Buschmann(4), Reiner Ulrich(5), Martin Hermann Groschup(4)
T10-4C	Modeling channelopathies: From ion currents to firing behavior	Lukas Sonnenberg (1,2), Yuanyuan Liu(2), Holger Lerche(2), Jan Benda(1)
T10-5C	Decreased Auditory Nerve Population Activity in Aged Gerbils	Friederike Steenken (1), Rainer Beutelmann(1), Henning Oetjen(1), Georg M. Klump(1), Christine Köppl(1)
T10-1D	Effects of Amphetamine and Ecstasy in Mice Lacking the Postsynaptic Scaffolding Protein SHANK1: Link to Catecholamine and Indolamine Systems?	Özge Sungur (1,2), Tobias M. Redecker(1), Elena Andres(3), Wiebke Dürichen(1), Rainer K.W. Schwarting(1,2), Adriana del Rey(3), Markus Wöhr(1,2)
T10-2D	Cellular and molecular causes of normal motor aging in *Drosophila*	Jessica Thiem (1), Jean-Yves Roignant(2), Susanne Gerber(3), Christos Consoulas(4), Carsten Duch(1)
T10-3D	Neural and Heart Rate Variability and their Relation to Cognitive Performance in Young and Old Adults	Diana Toscano Tejeida (1,5), Kristina Miloserdov(1,2,3), Iris Steinmann(1), Carsten Schmidt-Samoa(1), Annekathrin Schacht(4), Melanie Wilke(1,2,3)
T10-4D	Understanding noise-induced hearing loss using the ear of the desert locust.	Ben Warren (1)
T10-5D	The use of biosensors in studying ageing	Alexander Wirth (1), Andre Zeug(1), Franziska Müller(1), Evgeni Ponimaskin(1)
T11-1A	miRNA-expression profiling in midbrains of Parkinson's Disease patients	Lucas A. Caldi Gomes (1,2,3), Anna-Elisa Roser(1,3,4), Gaurav Jain(5), André Fischer(5), Paul Lingor(1,3,4)
T11-2A	Quantitative imaging of spreading-depression associated ROS production	Marc Ackermann (1), Katharina Dietrich(1), Michael Müller(1)
T11-3A	Intracerebroventricular administration of histidine reduces kainic acid induced convulsive seizures in mice.	Serdar Alpdogan (1), Felix Neumaier(1), Jürgen Hescheler(1), Toni Schneider(1)
T11-4A	Abnormal Amyloid beta accumulation leads to neuronal loss and alterations in the process of adult hippocampal neurogenesis	Sanila Amber (1), Fatima Javed Mirza(1), Deeba Hassan(1), Saadia Zahid(1)
T11-5A	Pharmacological and genetic inhibition of ADAM10 reduce brain damage after experimental traumatic brain injury	Dominik Appel (1), Regina Hummel(1), Larissa Dangel(1), Maryam Treiber(1), Johanna Merz(1), Martin Weidemeier(1), Christina Gölz(1), Mirko H.H. Schmidt(2), Kristina Endres(3), Michael K.E.

		Schäfer(1)
T11-6A	Complexome profiling of the mitochondrial respiratory chain – Mechanistic insights into the regulation of energy metabolism in neurodegenerative diseases	Susanne Arnold (1)
T11-7A	Copper, zinc and HSPGs influence trans-dimerization of the amyloid precursor protein family members	Alexander August (1), Nadine Schmidt(1), Johannes Klingler(2), Frederik Baumkötter(1), Jessica Klement(2), Carolyn Vargas(2), Klemens Wild(3), Sandro Keller(2), Stefan Kins(1)
T11-8A	Fe65 and Fe65L1 have distinct functions in synaptic plasticity	Vanessa Augustin (1), Paul Strecker(1), Susann Ludewig(2), Elisa Kraechan(3), Marcel Daas(1), Martin Korte(2), Jonathan Stephan(3), Stefan Kins(1)
T11-9A	AP-2 prevents amyloidogenic processing of APP via endocytosis-independent regulation of BACE1 trafficking in neurons	Sujoy Bera (1), Elena Calleja Barca(1), Albert Negrete(1), Julia Racho(1), Christoph Wittich(1), Nina Ellrich(1), Soraia Martins(2), James Adjaye(2), Natalia L. Kononenko(1)
T11-10A	Nanoscale analysis of cytoskeletal alterations during acute axonal degeneration in primary neuron cultures	Arndt Lucas Biller (1), Elisabeth Barski(2), Elisa D´Este(3), Mathias Bähr(4), Paul Lingor(5), Jan-Christoph Koch(6)
T11-11A	In vivo Imaging and Transcriptome Analysis of Astrocytes in an Alzheimer's Disease Mouse Model	Nelli Blank (1), Lech Kaczmarczyk(1), Stefanie Herresthal(2), Walker S. Jackson(1), Joachim L. Schultze(1,2), Gabor C. Petzold(1,3)
T11-12A	Tau blocks amyloid-β dependent neuronal hyperactivity in vivo	Marc Aurel Busche (1), Susanne Wegmann(2), Simon Dujardin(3), Caitlin Commins(4), Julia Schiantarelli(5), Tarun V. Kamath(6), Naomi Klickstein(7), George Carlson(8), Israel Nelken(9), Bradley T. Hyman(10)
T11-13A	THE NMDA ANTAGONIST MEMANTINE ATTENUATES THE OKADAIC ACID INDUCED SHORT-TERM SPATIAL MEMORY IMPAIRMENT AND HIPPOCAMPAL CELL LOSS IN RATS	Mariam Chighladze (1), Manana Dashniani(1), Khatuna Rusadze(2)
T11-14A	Neddylation-dependent protein degradation as a nexus between neuronal insulin signaling, amyloidosis and metabolic syndrome	Alessandro Dario Confettura (1), Guilherme Monteiro Gomes(1), PingAn Yuanxiang(1), Andreas Hentschel(2), Robert Ahrends(2), Michael Kreutz(1,3)
T11-15A	Identification of signaling mechanisms regulating mitochondria-endoplasmic reticulum contact sites	Renata Couto (1,2), Ira Milosevic(3), Nuno Raimundo(1)
T11-16A	Small conductance calcium-activated (SK3) potassium channel overexpression in nigrostriatal system of mice	Elaine Del Bel (4), Sabine Martin(1), Marcio Lazzarini(1), Miso Mitkovski(1), Luis Pardo(1), Walter Stuhmer(1,2,3)
T11-1B	Microstructural analysis of endo- and perineurial cells in human neuroma	Patrick Dömer (1,2), Bettina Kewitz(1), Christian Heinen(1), Thomas Kretschmer(3,5), Ulrike Janssen-Bienhold(2,4,5)
T11-2B	Trimethyltin-induced neurodegeneration is associated with gradual up-regulation of ecto-5' nucleotidase on activated microglia	Milorad Dragic (1,2), Nataša Mitrovic(2), Nadežda Nedeljkovic(1), Ivana Grkovic(2)
T11-3B	Arbutin promotes functional recovery following lysolecithin-induced demyelination in rat optic chiasm	Forough Ebrahimtabar (1), Fatemeh Ebrahimtabar(2), Atena Nazari(3), Mahdi Pouramir(4), Manuchehr Ashrafpour(5), Fereshteh Pourabdolhossein(6)

T11-4B	APP gene family members as synaptic adhesion molecules	Simone Eggert (1), Sandra Schilling(1), Jonathan Stephan(2), Mathieu Meleux(1), Marius Zimmermann(1), Alexander August(1), Martin Korte(3), Edward H. Koo(4), Ulrike C. Müller(5), Stefan Kins(1)
T11-5B	Impact of voluntary running and environmental enrichment on learning and memory performance in APP/PS1 mice	Thomas Endres (1), Monique Klausch(1), Georgia-Ioanna Kartalou(1,2), Elke Edelmann(1), Kurt Gottmann(2), Volkmar Lessmann(1)
T11-6B	Stimulation of mGluR1/5 improves the defective internalization of AMPA receptors in NPC1 mutant mouse	Xiao Feng (1)
T11-7B	Redox homeostasis modulates axonal microtubule dynamics: Effects on microtubule-dependent transport and tau-microtubule interaction	Chrsitian Gach (1), Benedikt Niewidok(1), Nancy Monteiro Abreu (1), Daniel Villar Romero (1), Lena Schünemann(1), Jacqueline Becker(1), Maike Schober(1), Anna-Sophie Schwarze(1), Roland Brandt(1)
T11-8B	Nanobody-based Sensor for Detecting α-Synuclein-Transmission in Parkinson's Disease Models	Christoph Gerdes (1,2), Natalia Waal(1,2), Hannes Verbarg(1), Nora Wender(1), Buket Basmanav(1), Stefan Becker(3), Silvio Rizzoli(1,2), Sebastian Kügler(4), Felipe Opazo(1,2)
T11-9B	Hereditary spastic paraplegia in *Danio rerio*	Bart Geurten (1), Gudrun Kracht(2), Wiebke Möbius(3), Torben Ruhwedel(3), Hauke Werner(3), Ralf Heinrich(1), Roland Dosch1(2)
T11-10B	Combination of different approaches for the characterization of a Rodent Alzheimer's Disease Model	Barbara Hinteregger (1,2), Tobias Madl(1), Joerg Neddens(2), Birgit Hutter-Paier(2), Robert Wronski(2)
T11-11B	Deep brain stimulation in the inferior colliculus induces anxiolytic effect and improves haloperidol-induced catalepsy in rats	Hannah Ihme (1), Rainer K. W. Schwarting(1,2), Liana Melo-Thomas(1,2,3)
T11-12B	The role of 5-HT_7-receptor signalling in neurodegenerative diseases	Kathrin Jahreis (1), Josephine Labus(1), Evgeni Ponimaskin(1)
T11-13B	Modification of the spreading of α-synuclein pathology in vivo	Karina Joppe (1,3), Lars Tatenhorst(1,3), Anna-Elisa Roser(1,2,3), Stefan Becker(4), Mathias Bähr(1,2), Paul Lingor(1,2,3)
T11-14B	Rescue of dendritic spine pathology in the hippocampus of APP/PS1 mice	Georgia-Ioanna Kartalou (1,2), Thomas Endres(2), Volkmar Lessmann(2), Kurt Gottmann(1)
T11-15B	Early changes in hippocampal network oscillations and parvalbumin protein expression in a mouse model of Alzheimer's disease	Jochen Kuhse (1), Jan-Oliver Hollnagel(2), Oliver Kann(2), Joachim Kirsch(1), Eva Kiss(3)
T11-16B	Disruption in the hippocampal network function in inducible *FMR1* premutation mice	Ufuk Emre Kul (1,2), Guersel Caliskan(1,3), Renate Hukema(4), Rob Willemsen(4), Monica Santos Santos(1), Oliver Stork(1,3)
T11-1C	Cortical and subcortical volumetry in patients with Parkinson's disease and cognitive impairment	Martin Kunz (1), Martin Gorges(1), Hans-Jürgen Huppertz(2), Inga Liepelt-Scarfone(3), Alexander Storch(4,5,6), Richard Dodel(7,8), Rüdiger Hilker-Roggendorf(9), Daniela Berg(3,10), Elke Kalbe(11), Hans-Peter Müller(1), Simon Baudrexel(12), Jan Kassubek(1)
T11-2C	Impaired organelle transport in a neuronal cell model derived from Niemann-Pick type C1 patient-specific induced pluripotent stem cells	Maik Liedtke (1), Franziska Peter(1), Christin Völkner(1), Michael Rabenstein(1), Moritz J. Frech(1)
T11-3C	The NMDA receptor antagonist ketamine transiently reduces thalamocortical spindle and	Ali MAHDAVI (1,2), Didier Pinault(1), Stefan Rotter(2), Yi Qin(1,3,4), Marine Bertschy(1), Damaris

	slow oscillations in a rodent model of non-REM sleep	Cornec(1)
T11-4C	Misperceptions and performance fluctuations and their relation to resting state functional connectivity in Parkinson patients	Kristina Miloserdov (1,3,4,8), Carsten Schmidt-Samoa(1), Kathleen Williams(1), Christiane Anne Weinrich(2), Kathrin Bürk(5,6), Claudia Trenkwalder(5,7), Mathias Bähr(2,4), Melanie Wilke(1,3,4,8)
T11-5C	Optogenetic stimulation inhibits seizure generation in a mouse model of mesial temporal lobe epilepsy	Enya Paschen (1,2), Philipp Janz(1,2), Katharina Heining(3,4), Diego Vieira(3,4), Dr. Ute Häussler(1), Antje Kilias(2,3,4), Prof. Dr. Ulrich Egert(2,4,5), Prof. Dr. Carola Haas(1,4,5)
T11-6C	Apolipoprotein D-mediated regulation of lysosomal membrane integrity preserve lysosomal function and promotes cell survival in Niemann-Pick Type A disease.	Raquel Pascua-Maestro (1), María D. Ganfornina(1), María D. Ledesma(2), Diego Sanchez(1)
T11-7C	Replicative reprogramming in the context of physiological CNS aging and age-related neurodegeneration	Diane Penndorf (1), Alessandro Ori(2), Ivonne Heinze(2), Joanna Kirkpatrick(2), Otto W Witte(1), Alexandra Kretz(1)
T11-8C	scRNAseq analysis of brain organoids to study molecular mechanism of Leigh syndrome	Tancredi Massimo Pentimalli (1), Agnieszka Rybak-Wolf(1), Nikos Karaiskos(1), Gizem Inak(1), Alessandro Prigione(1), Nikolaus Rajewsky(1)
T11-9C	Mitochondrial and lysosomal dysfunction have opposite effects on lipid biosynthesis	Leonardo Gabriel Pereyra (1), Nuno Raimundo(1)
T11-10C	Axonal changes upon toxin-induced myelin remodeling	Friederike Pfeiffer (1), Petra Fallier-Becker(2)
T11-11C	GABAergic Synaptic Input to Cerebellar Purkinje Cells is Affected in a Niemann-Pick Type C1 Mouse Model	Michael Rabenstein (1), Christin Völkner(1), Maik Liedtke(1), Arndt Rolfs(1), Moritz J. Frech(1)
T11-12C	Specific Mutations in Presenilin 1 have a Differential Role on Mitochondrial Phenotype and Function	Liliana Rojas-Charry (1), Laura Heikaus(2), Harmut Schlueter(2), Christian Hagel(1), Markus Glatzel(1), Diego Sepulveda-Falla(1)
T11-13C	Combination of sesamin and alpha-mangostin attenuates hydrogen peroxide-induced neurodegeneration	Waralee Ruankham (2), Wilasinee Suwanjang(1), Virapong Prachayasittikul(2), Supaluk Prachayasittikul(3), Kamonrat Phopin(1,2)
T11-14C	Alterations of neurogenesis in dentate gyrus precede development of Alzheimer's disease-like pathology in OXYS rats	Ekaterina Rudnitskaya (1), Tatiana Kozlova(1), Alena Burnyasheva(1), Nataliya Kolosova(1), Natalya Stefanova(1)
T11-15C	Epigenetic profiling in experimental models entailing mitochondrial and non-mitochondrial toxins - implications for movement disorders	Ranganayaki Sathyanarayanan (1), Srinivas Bharath MM(1)
T11-16C	Astrocyte – T-lymphocyte communication under neuroinflammatory conditions	Samantha Schmaul (1), Julian Loeffel(1), Dirk Luchtman(1), Stefan Bittner(1)
T11-1D	Linking cognition to amyloid-β burden in the brain of a non-human primate (*Microcebus murinus*)	Daniel Schmidtke (1,2), Elke Zimmermann(1,2), Stéphanie G. Trouche(3), Pascaline Fontès(3), Jean- Michel Verdier(3), Nadine Mestre-Francés(3)
T11-2D	Effect of novel acetylcholinesterase inhibitors 3-nitro-6-amino-substituted imidazo[1,2-b] pyridazine derivative compounds on mitochondrial physiology	Rakesh Kumar Sharma (1), Manisha Singh(1), Sridhar Pulavarthi(2), Sabbasani Rajasekhara(2), Ravi Shankar Akundi(1)
T11-3D	Baseline neuronal-activity dependence of Aβ-induced dysfunction	Manuel Simon (1), Benedikt Zott(1), Arthur Konnerth(1)

T11-4D	Increase of neuronal activity by 4-Aminopyridine in vivo, improves sensory-motor dysfunction in a mouse model of SMA	Christian Marc Simon (1), John G. Pagiazitis (2), Emily V. Fletcher(3), Beatriz Blanco-Redondo(4), George Z. Mentis(2)
T11-5D	Aberrant nitric oxide and redox signalling induces glycation activity resulting in enhanced neuronal dysfunction in neurodegeneration	Joern Steinert (1), Julie Bourgognon (1), Jereme Spiers (1)
T11-6D	The neurovascular unit in Alzheimer's disease	Stephanie Lauren Taylor (1), Gabor Petzold(1)
T11-7D	Two-photon glutamate imaging suggests mechanism for amyloid-β-dependent neuronal dysfunction	Felix Gabriel Unger (1), Benedikt Zott(1), Hsing-Jung Chen(1), Arthur Konnerth(1)
T11-8D	Evaluation of potential pharmacological chaperones in a neuronal cell model derived from Niemann-Pick type C1 patient-specific induced pluripotent stem cells	Christin Völkner (1), Franziska Peter(1), Maik Liedtke(1), Michael Rabenstein(1), Moritz J. Frech(1)
T11-9D	Cytoskeletal alterations contributing to synapto-axonal dysfunction in Parkinson´s disease.	Carmina Carelia Warth Perez Arias (1), Lucas Caldi Gomes(1), Kim-Ann Saal(2), Christof Lenz(3), Henning Urlaub(3), Silvio Rizzoli(2), Paul Lingor(1)
T11-10D	Effects of cannabidiol on diabetes outcomes and chronic cerebral hypoperfusion comorbidities in middle-aged rats	Rúbia Maria Weffort de Oliveira (1), Amanda Santiago(1), Marco Aurelio Mori(1), Humberto Milani(1), Francisco Silveira Guimarães(2)
T11-11D	Endocytic defects impair lysosomal and mitochondrial function	Katarzyna Wieciorek (1,2), King Faisal Yambire(1), Lorena Fernández Mosquera(1), Ángela Sánchez Guerrero(1), Ira Milosevic(1,2), Nuno Raimundo(1)
T11-12D	Role of the subthalamic nucleus in impulse control	Zifeng Xia (1), Franziska Richter(2), Frank W Ohl(1), Kentaroh Takagaki(1)
T11-13D	Lysosomal and mitochondrial crosstalk: a case for neurodegeneration in LSDs?	King Faisal Yambire (1,2), Ira Milosevic(2), Nuno Raimundo(1)
T11-14D	Vulnerability of highly active brain regions in Alzheimer's disease	Benedikt Zott (1), Arthur Konnerth(1)
T11-15D	Neuroinflammation in a mouse model of amyotrophic lateral sclerosis with FUS gene mutation and effects of standard and new therapies	Diana Ivanovna Babaevskaia (1), Johannes de Munter(2,3), Alexander Trofimov(1,2), João Costa-Nunes(1), Dmitry Pavlov(1,2), Ekaterina Veniaminova(1,2), Margarita Oplatchikova(1), Anna Gorlova(1,2), Klaus-Peter Lesch(1,2,4), Erik Wolters(3), Daniel Anthony(5), Tatyana Strekalova(1,2,4)
T11-16D	α-Synuclein Aggregation Mechanisms & the Role of Lysosomal Cathepsins in Parkinson's Disease	Josina Bunk, Alice Drobny, Susy Prieto Huarcaya, Friederike Zunke
T12-1A	Distinct carbohydrate content is responsible for differences in enzymatic and adhesive properties of eN/CD73 in rat cortical astrocyte cultures when exposed to factors commonly up-regulated in states of brain injury, inflammation or degeneration	Marija Adzic (1), Nadezda Nedeljkovic(2)
T12-2A	Pituicyte Cues Regulate the Development of Permeable Neuro-Vascular Interfaces.	Savani Anbalagan (1), Ludmila Gordon(1), Janna Blechman(1), Ryota L. Matsuoka(2,3), Preethi Rajamannar(1), Einav Wircer(1,4), Jakob Biran(1,5), Adrianna Reuveny(1), Dena Leshkowitz(6), Didier Y.R. Stainier(2), Gil Levkowitz(1)
T12-3A	*In-vivo* electrocorticography recordings in awake mice after stroke as a tool for assessing early	Jonatan Mathis Biskamp (1,2), Tobias Ewert(1),

	disruption of cortical connectivity	Christian Gerloff(1,3), Tim Magnus(1,2)
T12-4A	Intranasal administration of mesenchymal stem cell-derived exosomes loaded with phosphatase and tensin homolog small interfering RNA enables functional recovery in rats after complete spinal cord injury	Shaowei Guo (1), Nisim Perets(2), Oshra Betzer(3), Shahar Ben-Shaul(1), Anton Sheinin(4), Izhak Michaelevski(5), Rachela Popovtzer(3), Daniel Offen(2), Shulamit Levenberg(1)
T12-1B	Epo-Induced Neuroprotection: Crucial Role for Orthologues of the Orphan Cytokine Receptor CRLF3	Nina Hahn (1)
T12-2B	Manipulating microglia to enhance anti-viral activity in the CNS – implications for multiple sclerosis and viral encephalitis	Lorna Hayden (1), Tiia Semenoff(1), Julia Edgar(1), Marieke Pingen(1), Xiaohong Shi(2), Christopher Linington(1)
T12-3B	NMDAR dependent and independent plasticity in a model of anti-NMDAR encephalitis	Timo Kirschstein (1), Roman Blome(1), Willi Bach(1), Xiati Guli(1), Christian Bien(2), Rüdiger Köhling(1)
T12-4B	Ancient functions of "erythropoietin-like" neuroprotective signaling in insects: receptors, transduction pathways and anti-apoptotic effects	Debbra Yasemin Knorr (1), Nina Hahn(1), Bita Massih(1), Franziska Schmitt(1), Nicola Schwedhelm-Domeyer(1), Stephanie Pauls(1), Ralf Heinrich(1)
T12-5B	Microglia-related increase in NTPDase1 expression during EAE	Danijela Laketa (1), Marija Jakovljevic(2), Iva Bozic(2), Ivana Bjelobaba(2), Danijela Savic(2), Sanja Pekovic(2), Nadezda Nedeljkovic(1), Irena Lavrnja(2)
T12-1C	Identification and characterization of novel autoantigens of autoimmune neuropathies	Christian P. Moritz (1,5), Oda Stoevesandt(2), Yannick Tholance(1,3), Evelyne Federspiel(1,3), Karine Ferraud(1,3), Martin Jung(4), Carole Rosier(3), Mike Taussig(2), Jean-Philippe Camdessanché(1,3,5), Jean-Christophe Antoine(1,3,5)
T12-2C	Anti-FGFR3 antibody: a biomarker of sensory neuronopathies or an active player of neuron degeneration?	YARA NASSER (1,2,3), CHRISTIAN MORITZ(1,3), EVELYNE REYNAUD-FEDERSPIEL(1,3), JEAN PHILIPPE CAMDESSANCHE(1,2,3), JEAN CHRISTOPHE ANTOINE(1,2,3), NADIA BOUTAHAR(1,2,3)
T12-3C	COMPLEX REGULATION OF ECTO-5'-NUCLEOTIDASE/CD73 DURING NEUROINFLAMMATION: UNDERLYING MECHANISM LEADING TO ALTERED ADENOSINE GENERATION	Nadezda Nedeljkovic (1), Danijela Laketa(1), Irena Lavrnja(2), Marija Adzic(3)
T12-4C	Ceftriaxone pretreatment modulates brain energy metabolism after focal permanent ischemia	Yasmine Nonose (1), Andressa Wigner Brochier(1), Jussemara Souza da Silva(1), Rodrigo Vieira Apel(1), Roberto Farina Almeida(1), Fernanda Urruth Fontella(1), Diogo Onofre Gomes Souza(1,2), Adriano Martimbianco de Assis(1)
T12-5C	Effect of Fingolimod on neuronal architecture and activity	Abhisarika Patnaik (1), Maria Fezzari(2), Eleonora Spiombi(2), Nicoletta Landsberger(2), Martin Korte(1), Marta Zagrebelsky(1)
T12-1D	Differential interaction patterns of antisera to the oral cavity bacteria *Porphyromonas gingivalis* and *Streptococcus mutans* on a human first trimester fetal brain multiprotein array	Bernhard Reuss (1)
T12-2D	HERV-K is a ligand for TLR8 and mediates glioblastoma invasiveness	Christine Römer (1), Manvendra Singh(1), Alice Buonfiglioli(1), Omar Dzaye(1), Seija Lehnardt(2), Zsuzsanna Izsvák(1)
T12-3D	Ferritin in primary murine Microglia	Melanie Schürz (1), Karin Oberascher(1), Nikolaus Bresgen(1), Hubert H. Kerschbaum(1)

T12-4D	LGI1 antibodies from patients with autoimmune encephalitis alter $K_V1.1$ and AMPA receptors changing synaptic excitability, plasticity and memory	Josefine Sell (1), Mar Petit-Pedrol(2), Holger Haselmann(1), Mihai Ceanga(1), Jesús Planagumà(2), Francesco Mannara(2), Marija Radosevic(2), Marianna Spatola(2,3), Josep Dalmau(2,4,5,6), Christian Geis(1)
T13-1A	Persistent increase in ventral hippocampal long-term potentiation by juvenile stress: A role for astrocytic glutamine synthetase	Anne Albrecht (1,2,3), Sebastian Ivens(4,5), Gürsel Caliskan(1,2,4), Uwe Heinemann(4), Oliver Stork(1,2)
T13-2A	Neuropeptide S receptor polymorphism (I107N) facilitates fear extinction in sex- and salience-dependent manner	Xabier Bengoetxea (1), Jasmin Remmes(1), Lena Goedecke(1), Peter Blaesse(1), Hans-Christian Pape(1), Kay Jüngling(1)
T13-3A	Pharmacological and non-invasive electrostimulation approaches to enhance learning in rats overexpressing the dopamine transporter	Nadine Bernhardt (1), Maike Kristin Lieser(1), Bettina Habelt(1), Henriette Edemann-Callesen(1,2,3), Christine Winter(1,2)
T13-4A	Functional analysis of a triplet deletion in the gene encoding the sodium glucose transporter 3, a potential risk factor for ADHD	Frank Döring (1,5), Nadine Schäfer(2), Maximilian Friedrich(3), Morten Egevang Jørgensen(2), Sina Kollert(1,4), Hermann Koepsell(2), Erhard Wischmeyer(1,5), Klaus-Peter Lesch(3,4,6), Dietmar Geiger(2)
T13-5A	Evaluation of the therapeutic effect of tween 80 modified Chitosan nanocapsules loaded with thymoquinone in a reserpine-induced model of depression in Wistar rats	Amena Sayed El-Feky (1), Heba Mohamed Fahmy(1), Taiseer Mohamed Abd El-Daim(1), Amera Abdelkrem Abd Rabo(1), Amira Bahaa El-Din Mostafa(1), Eslam Tarek Mostafa(1), Yasser Ashry Khadrawy(2)
T13-6A	FMRP modulates activity-dependent spine plasticity by binding cofilin1 mRNA and regulating localization and local translation	Jonas Feuge (1), Franziska Scharkowski(1), Martin Korte(1), Kristin Michaelsen-Preusse(1)
T13-1B	The effect of deep-brain stimulation of the medial forebrain bundle on sleep in the FSL rat model of depression	Wilf John Jago Gardner (1,2,3), Laura Durieux(3), Fanny Fuchs(4), Chantal Mathis(3), Volker A Coenen(2), Máté Döbrössy(2), Lucas Lecourtier(3)
T13-2B	A functional role for the Neuropeptide-S receptor polymorphism NPSR1 I107N in fear and anxiety	Lena Goedecke (1), Jasmin Remmes(1), Xabier Bengoetxea(1), Sion Park(1), Hans-Christian Pape(1), Kay Jüngling(1)
T13-3B	Blockade of endogenous opioids enhances threat learning by social observation	Jan Haaker (1,2), Jonatan Yi(2), Predrag Petrovic(2), Andreas Olsson(2)
T13-4B	5-HTT deficient mice after experiencing prenatal stress: Gene expression study focusing on genes related to the vasopressin and oxytocin brain systems	Catharina Sophia Hamann (1), Karla-Gerlinde Schraut(2,3), Gabriela Ortega(3), Lisa Seeberger(1), Klaus-Peter Lesch(3), Angelika Schmitt-Böhrer(1)
T13-5B	Contribution of CRF and 5-HT in the anterodorsal BNST to phasic and sustained fear in freely behaving mice	Margarita Hessel (1), Thomas Seidenbecher(1)
T13-6B	Methylphenidate (MPH) produces conditioned place preference (CPP) in marmoset monkeys and cannabidiol exposure during extinction do not inhibit the reinstatement of MPH-induced CPP	Adel Kashefi (1), Renata B Duarte(1), Fernando M Jesus(1), Abbas Haghparast(2), Carlos Tomaz(1)
T13-7B	Proteasomal degradation of KCa2.2 channels is involved in emergence of acute epileptiform activity	Rüdiger Köhling (1), Steffen Müller(1), Xiati Guli(1), Victor Sudmann(1), Timo Kirschstein(1)
T13-1C	Spatial memory Impairments Following Imunotoxic Lesion of GABAergic Neurons of The basal Forebrain*A*	Lali Kruashvili (1)

T13-2C	The recognition memory in mice: standardization of behavioural tests and application of the method to study effects of a mycotherapy substance.	Veralice Lanaia (1), Paola Rossi(2)
T13-3C	Impact of the ASM/ceramide system on hippocampal neuronal excitability	Chih-hung Lin (1,2), Fang Zheng(1), Maria J. Valero(1), Johannes Kornhuber(2), Christian Alzheimer(1)
T13-4C	Immediate and persisting effect of toluene chronic exposure in adult and adolescent rats: the structure of the hippocampus and learning and memory	Nino Pochkhidze (1,2), Mzia Zhania(1,2), Manana Dashniani(2), Nadezhda Japaridze(2), Nino Chkhikvishvili(2), Lia Gelazonia(2)
T13-5C	The characterisation of ultrasonic communication in rats lacking brain serotonin.	Agnieszka Potasiewicz (1), Agnieszka Nikiforuk(1), Joanna Golebiowska(1), Malgorzata Holuj(1), Natalia Alenina(2), Michael Bader(2), Piotr Popik(1)
T13-6C	Effects of an acute decrease of central serotonin on decision making, impulsivity and social abilities of a novel line of rats with inducible serotonin depletion in the brain.	Marion Rivalan (1), Natalia Alenina(2), Michael Bader(2), York Winter(1), Lucille Alonso(1)
T13-7C	Sign- versus Goal-Tracking Behavior in Haploinsufficient Cacna1c Rats	Nivethini Sangarapillai (123), Markus Woehr(123), Rainer K. W. Schwarting(123)
T13-1D	Resting state fMRI based target selection for personalized brain stimulation temporarily alters the default mode network in healthy subjects	Aditya Singh (1), Tracy Erwin-Grabner(1), Grant Sutcliffe(1), Andrea Antal(2), Walter Paulus(2), Roberto Goya-Maldonado(1)
T13-2D	Cocaine preference in *Drosophila melanogaster.*	Raquel Suárez-Grimalt (1), David Owald(1)
T13-3D	Psychophysiological and Epigenetic Markers of Fear Generalization in Anxious and Non-Anxious Depression	Catherina Wurst (1), Carolin Leistner(1), Felix Nitzschke(1), Saskia Stonawski(1), Martin Herrmann(1), Paul Pauli(2), Jürgen Deckert(1), Andreas Menke(1)
T13-4D	Involvement of D1/D2 dopamine receptors within the nucleus accumbens and ventral tegmental area in the development of sensitization to antinociceptive effect of morphine [A]	Leila Zarepour (1)
T13-5D	Human stem cell-based model of alcohol use disorders	Annika Zink (1,2), Gizem Inak(2), Pawel Lisowski(2,3), Erich Wanker(2), Josef Priller(1), Alessandro Prigione(2)
T13-6D	Brain-computer interface (BCI) based communication with the completely paralysed	Niels Birbaumer (1,2), Andres Jaramillo Gonzalez(1), Ujwal Chaudhary(1,2)
T14-1A	Feature detection and action selection in neuronal circuits for escape and landing in *Drosophila*	Jan Marek Ache (1), Shigehiro Namiki(1,2), Catherine R. von Reyn(3), Gwyneth M Card(1)
T14-2A	Neuronal processing of polarized light presented from ventral direction in the brain of the desert locust	Marius Johannes Beck (1), Vanessa Althaus(1), Uwe Homberg(1), Uta Pegel(2)
T14-3A	Tetrode recordings from visual neurons in flying monarch butterflies	M. Jerome Beetz (1), Martin Strube-Bloss(2), Basil el Jundi(1)
T14-4A	Courting and Walking in the dark - Sensory depression shapes behaviour	Kristina Corthals (1), Miriam Berger(1), Bart R.H. Geurten(1)
T14-5A	The use of spectral cues for orientation in the monarch butterfly *Danaus plexippus*	Myriam Franzke (1), David Dreyer(2), Eric Warrant(2), Basil el Jundi(1)
T14-1B	Calcium imaging in tethered behaving	Martina Held (1), Hannah Haberkern(2), Claire Deo(2), Luke Lavis(2), Vivek Jayaraman(2), Keram

	honeybees	Pfeiffer(1)
T14-2B	GABAergic and glutamatergic inhibition shape visual motion processing in *Drosophila*	Miriam Henning (1), Prof. Dr. Marion Silies(1)
T14-3B	Organization of the lateral complex in the brain of the desert locust *Schistocerca gregaria* – single-cell analyses and neuropil structure	Ronja Hensgen (1), Stefanie Jahn(1), Kim Schneider(1), Uwe Homberg(1)
T14-4B	Intracellular recordings from a time-compensated sun-compass in monarch butterflies *(Danaus plexippus)*	Tu Anh Nguyen Thi (1), Basil el Jundi(1)
T14-1C	Optic flow supports the representation of heading direction in the desert locust central complex	Uta Pegel (1), Ronny Rosner(2), Keram Pfeiffer(3), Uwe Homberg(4)
T14-2C	Dynamic properties of central complex neurons in the bumblebee	Keram Pfeiffer (1), Lisa Rother(1)
T14-3C	Natural stimuli for mice	Yongrong Qiu (1,2), Zhijian Zhao(1,2), Magdalena Kautzky(3), Frank Schaeffel(2), Katharina Rifai(2,4), Siegfried Wahl(2,4), Laura Busse(3), Thomas Euler(1,2)
T14-4C	A neuron type with variable receptive field properties is required for robust motion processing	Luis Giordano Ramos Traslosheros Lopez (1,2,3), Marion Silies(2,3)
T14-1D	Modality-specific circuits in the fly visual system	Gizem Sancer (1), Emil Kind(1), Juliane Uhlhorn(1), Thomas Mathejczyk(1), Mathias F Wernet(1)
T14-2D	Parallel spatial channels in hawkmoth vision?	Anna Stöckl (1), Keram Pfeiffer(1)
T14-3D	Preferred polarization angle of neurons at the input stage of the locust central complex	Naomi Takahashi (1), Frederick Zittrell(1), Uwe Homberg(1)
T14-4D	Receptive-Field Tuning to Celestial Polarization Patterns is Topographically Organized in the Locust Central Complex	Frederick Zittrell (1), Keram Pfeiffer(2), Uwe Homberg(1)
T15-1A	A NOVEL TYPE OF VISUAL RESPONSES IN THE RAT SUPERIOR COLLICULUS NEURONS IS ABLE TO TRACK SLOW CHANGES IN THE ILLUMINATION LEVELS	Gytis Baranauskas (1)
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T15-3A	Visual response properties of mouse TRN are consistent with its potential role for feedback-mediated surround suppression	Gregory Born (1,2), Martin A. Spacek(1), Chu Lan Lao(3), Laura Busse(1,4)
T15-4A	Expression of Sox2 in the Visual System of Fish	Laura deOliveira-Mello (1), Juan Manuel Lara Pradas(1), Almudena Velasco Arranz(1), Rosário Arévalo Arévalo(1), Andreas F. Mack(2)
T15-1B	Signal transmission at invaginating cone photoreceptor synaptic contacts following deletion of the presynaptic cytomatrix protein bassoon in mouse retina	Andreas Feigenspan (1), Norbert Babai(1), Kaspar Gierke(1), Hanna Regus-Leidig(1), Johann Helmut Brandstätter(1)
T15-2B	Functional Binocular Convergence in the Retinogeniculate Pathway	Martin Hans Peter Fernholz (1), Simon Weiler(1), Joel Bauer(1), Juliane Jäpel(1,2), Volker Scheuss(1,3), Mark Hübener(1), Tobias Bonhoeffer(1), Tobias Rose(1)

T15-3B	Adaptation in Mouse Rods and Cones *In Vivo*: An Electroretinographic Study Using Silent Substitution Stimuli	Anneka Joachimsthaler (1,2), Jan Kremers(1)
T15-4B	Combining two photon microscopy and CMOS MEA to uncover the mechanism of aberrant activity in blind retina	Meng-Jung Lee (1,2,3), Prerna Srivastava(3,4,5), Luke Rogerson(3,4,5), Philipp Berens(4,5,6), Thomas Euler(4,5,6), Timm Schubert(4,5), Günther Zeck(1)
T15-5B	Chromatic Processing at the Mouse Photoreceptor Synapse	Maria Magdalini Korympidou (1,2,4), Deniz Dalkara(5), Thomas Euler(1,2,3), Timm Schubert(1,2), Katrin Franke(1,2,3)
T15-1C	Natural stimuli reveal a spectrum of spatial encoding across the output channels of the retina	Dimokratis Karamanlis (1,2,3), Tim Gollisch(1,2)
T15-2C	Spherical stimulus arena reveals precise dependence of optokinetic response gain on stimulus location across entire visual field of larval zebrafish	Rebecca Meier (1), Florian A. Dehmelt(1), Julian Hinz(1,2), Clara A. Simacek(1), Takeshi Yoshimatsu(4), Kun Wang(1,2), Väinö Haikala(3), Dierk Reiff(3), Tom Baden(4), Aristides B. Arrenberg(1)
T15-3C	Towards spatio-temporal optogenetic threshold maps in blind retinas	Miriam Reh (1), Meng-Jung Lee(1), Martin Kriebel(1), Günther Zeck(1)
T15-4C	*In vivo* excitotoxic insult to the mouse retina causes retinal ganglion cell degeneration, optic nerve injury and vascular damage.	Annabelle Schlüter (1), Bahar Aksan(1), Eva Bindewald(1), Daniela Mauceri(1)
T15-5C	Binocular processing and receptive fields of motion-sensitive neurons in the zebrafish pretectum and tectum	Kun Wang (1,2), Julian Hinz(1,2,3), Väinö Haikala(4), Dierk F Reiff(4), Aristides B Arrenberg(1)
T15-1D	Chromatic processing in mouse retinal ganglion cells	Klaudia Szatko (1,2,4), Thomas Euler(1,2,3), Katrin Franke(1,2)
T15-2D	An intrinsic electroretinogram response in isolated mouse retina	Motoharu Takao (1), Yumi Fukuda(2), Takeshi Morita(2)
T15-3D	Spontaneous oscillatory networks in the outer and inner *rd10* retina	Prerna Srivastava (1,2,3), Luke E. Rogerson(1,2,3,4), Meng-Jung Lee(3,5,6), Deniz Dalkara(7), Günther Zeck(5), Philipp Berens(1,2,4), Thomas Euler(1,2,4), Timm Schubert(1,2)
T15-4D	Fast Axial Imaging of Glutamate Dynamics in The Mouse Inner Plexiform Layer	Zhijian Zhao (1,2), Dario Protti(3), Katrin Franke(2,4), Luke Rogerson(1,2,4), Deniz Dalkara(5), Timm Schubert(1,2), Thomas Euler(1,2,4)
T15-5D	A Retinal Origin of nystagmus in nyx-/- mice	Maj-Britt Hölzel (1), Beerend H.J. Winkelman(1,2), Marcus H. Howlett(1), Coen Joling(1), Gobinda Pangeni(3), Hiraki Sakuta(4), Masaharu Noda(4), Huib J. Simonsz(5), Maureen A. McCall(3), Chris de Zeeuw(1,2), Maarten Kamermans(1,6)
T16-1A	Space Oddity: Observation of visual MMN in mice via in vivo 2-P Ca imaging	Elisabeta Balla (1,2), Ivo Vanzetta(1), Bjoern M. Kampa(2,3)
T16-2A	From Structure to Function: Stability and Plasticity in Mouse Visual Cortex	Joel Bauer (1), Simon Weiler(1), Mark Hübener(1), Tobias Bonhoeffer(1), Tobias Rose(1)
T16-3A	A virtual spatial navigation task for multisensory discrimination	Alexander Bexter (1), Christina Nothbaum(1), Florent Haiss(2), Bjoern M Kampa(1,3)
T16-4A	Postnatal development of electrophysiological properties in Layer 2/3 and Layer 5 pyramidal neurons in the primary visual cortex	Natalja Ciganok (1), Claas Halfmann(1), Thomas Rüland(1,2), Björn Kampa(1,3)

T16-5A	Binocular integration and matching of neuronal responses in the primary visual cortex of PSD-95 knockout and wildtype mice	Susanne Dehmel (1), Kanishka Waghmare(2), Michael Weick(3), Kalina Makowiecki(1), Christina Stoldt(1), Lisa Stamme(1), Xiaojie Huang(4), Man Ho Wong(5), Oliver M. Schlüter(4,6,7), Siegrid Löwel(1,7)
T16-1B	Evoking and tracking zebrafish eye movement in multiple larvae with *ZebEyeTrack*, an open-source application	Florian Alexander Dehmelt (1), Adam von Daranyi(2), Claire Leyden(1,3), Aristides B. Arrenberg(1)
T16-2B	Orientation selectivity in cortical neurons ex-vivo from acute, tangential slices of mouse primary visual cortex	Jonas Franz (1,2,3,4), Ricarco M. Merino(3,4,5), Manuel Schottdorf(3,4,5), Julian Vogel(1,3,4,5), Andreas Neef(1,3,4,5), Walter Stühmer(3,4), Fred Wolf(1,3,4,5)
T16-3B	Phase-coupling in the superior colliculus of the feline brain	Zsófia Giricz (1), András Puszta(1), Diána Nyujtó(1), Ákos Pertich(1), Viktória Balikó(1), Nándor Görög(1), Balázs Bodosi(1), Attila Nagy(1)
T16-4B	Mapping overhead binocular field on identified visual cortical neurons in rats	Takashi Handa (1), Kay-Michael Voit(1), Alexandr Klioutchnikov(1), Verena Pawlak(1), Damian J Wallace(1), Jason ND Kerr(1)
T16-5B	Pathway-specific optogenetic inhibition reveals that prefrontal area FEF has a direct influence on the attentional modulation of firing rates in visual area MT in the non-human primate	J. Hüer (1), P. Saxena(1), M. G. Fortuna(1), H. Guo(1), L. T. Schiller(1), A. Gail(1,3,4,5), J. Gruber(1), E. Gruber-Dujardin(1), H. Scherberger(1,3,4,5), J. Staiger(2,6), S. Treue(1,3,4,5)
T16-1C	Recruitment orders underlying binocular coordination of eye position and velocity in the larval zebrafish hindbrain	Claire Leyden (1,2), Christian Brysch(1,2), Konstantin Willeke(1,2), Aristides B. Arrenberg(1)
T16-2C	Electrophysiological properties of superior colliculus neurons: high resolution recordings	Diána Nyujtó (1), Zsófia Giricz(1), András Puszta(1), Ákos Pertich(1), Nándor Görög(1), Viktória Balikó(1), Balázs Bodosi(1), Attila nagy(1)
T16-3C	Active navigation increases reliability of neuronal responses in primary visual cortex	Magdalena Robacha (1,2), Thomas Rüland(1,3), Gerion Nabbefeld(1), Alexander Bexter(1), Lyuba Zehl(1), Björn M. Kampa(1,3)
T16-4C	Eye movements minimize overhead blind area in freely moving rats during both exploratory and stimulus-triggered behavior	Federica Bianca Rosselli (1), Kay M. Voit(1), Damian J. Wallace(1), Jürgen Sawinski(1), David S. Greenberg(1), Jason N. D. Kerr(1)
T16-5C	A unifying model explaining perceptual stability and motion illusions under to fixational eye movements	Felix Schrader (1), Thomas Wachtler(1)
T16-1D	Integrated circuit analysis of layer 2/3 principal cells in mouse visual cortex	Simon Weiler (1), Drago Guggiana Nilo(1), Mark Hübener(1), Tobias Bonhoeffer(1), Tobias Rose(1), Volker Scheuss(2)
T16-2D	Orientation discrimination in mice examined with a novel flexible touchscreen chamber reveals cardinal preference over oblique orientations	Christopher Wiesbrock (1), Stephanie Eichhorn(1), Jenice R. M. Linde(1), Björn M. Kampa(1,2)
T16-3D	Characterization of receptive fields in primate extra-striate area MSTd	Benedict Wild (1), Amr Maamoun(1), Stefan Treue(1,2,3)
T16-4D	Projections of the hyperpallium in the barn owl (*Tyto alba pratincola*)	Marcus Joseph Wirth (1,2), Hermann Wagner(2)
T16-5D	Ocular dominance plasticity and visual properties of PSD-93/-95 double-knockout mice	Rashad Yusifov (1,2), Leon Hosang(1,2), Hendrik Heiser(1,2), Oliver Schlüter(3,4,5), Siegrid Löwel(1,4)
T17-1A	Physiological characterization of two fast red-shifted channelrhodopsin variants in the mouse auditory system	Burak Bali (1,2,3), David Lopez de la Morena(1,2,3), Antoine Huet(1,3), Vladan Rankovic(1,3), Tobias Moser(1,3)

T17-2A	Unraveling potential role of the visual scaffolding protein INAD in hearing	Narges Bodaghabadi (1), Martin C. Göpfert(1)
T17-3A	Loss of inner hair cell ribbon synapses and auditory nerve fiber regression in *Cldn14*$^{-/-}$ mice	Maike Claußen (1), Hans Gerd Nothwang(1)
T17-4A	**retracted** Cochlea-specific deletion of $Ca_v1.3$ calcium channels before birth excludes causative role of the efferent feedback system for IHC immaturity in systemic $Ca_v1.3^{-/-}$ mice and unravels pitfalls of conditional mouse models	Stephanie Eckrich (1), Dietmar Hecker(2), Katharina Sorg(2), Kerstin Blum(1), Kerstin Fischer(1), Stefan Münkner(1), Gentiana Wenzel(2), Bernhard Schick(2), Jutta Engel(1)
T17-1B	Characterization of sensory heterogeneity among P-type electroreceptors in the weakly-electric fish *A. leptorhynchus*	Tim Hladnik (1), Jan Benda(1), Jan Grewe(1)
T17-2B	Ultrafast Optogenetic Stimulation of the Auditory Pathway by Targeting-optimized Chronos	Antoine Huet (1), Daniel Keppeler(1), David Lopez de la Morena(1,3), Vladan Rankovic(1,2), Tobias Moser(1,4,5,6,7,8)
T17-3B	Towards optogenetic cochlea implants in a non-human primate, the common marmoset	Marcus Jeschke (1,3,4), Antoine Huet(1), Burak Bali(1,2,3,4), Alexander Meyer(1), Amirouche Sadoun(3,4), Lukasz Jablonski(1,3), Vladan Rankovic(1,5), Tobias Moser(1,3,6,7)
T17-4B	*Drosophila* thermosensation is modulated by a mechano-TRP-channel	Robert Kossen (1), Andrea Adden(1,2), Diego Giraldo(1), Martin C. Göpfert(1), Bart R. H. Geurten(1)
T17-1C	**retracted** Noise-Induced damage of inner hair cell synapses	Mattia Nova (1), Ursula Stalmann (2), Philippe Jean(1), Tobias Moser(1), Nicola Strenzke(2), Tina Pangrsic(1)
T17-2C	The complexity of electric social flows of freely behaving weakly electric fish tracked in their natural neotropical habitats	Till Raab (1), Juan Felipe Sehuanes(1), Jan Benda(1)
T17-3C	Interaural time difference sensitivity at higher pulse rates in an early deafened auditory system	Nicole Rosskothen-Kuhl (12), Alexa N Buck(2), Jan W Schnupp(2)
T17-1D	Sensory Flow in Electrolocation: Characterizing the Responses of Electroreceptors to Moving Gratings	Carolin Sachgau (1), Jan Benda(1), Jan Grewe(1)
T17-2D	Retreat site quality outweighs compromised sensory perception in the weakly electric fish *Apteronotus leptorhynchus*.	Juan Felipe Sehuanes (1), Till Raab(1), Jorge A. Molina(2), Jan Benda(1)
T17-3D	Exploring the neural basis of pattern recognition in the cricket brain	Xinyang Zhang (1), Berthold Hedwig(1)
T18-1A	Complex Sound Processing by Multi-peaked Neurons in Mouse Auditory Brain Centers	Alexander Grigorievich Akimov (1), Marina Alexandrovna Egorova(1), Guenter Ehret(2)
T18-2A	Optogenetic stimulation of the ventral tegmental area affects early intracolumnar and late cortico-cortical tone-evoked processing in gerbil primary auditory cortex	Michael GK Brunk (1), Katrina E Deane(1), Martin Kisse(1), Mathias Deliano(1), Michael T Lippert(1,2), Frank W Ohl(1,2,3), Max FK Happel(1,3)
T18-3A	EEG neurofeedback: Emphasis on source activity from auditory cortex in patients with chronic tinnitus	Manuel Czornik (1), Azim Malekshahi(1), Herbert Bauer(5), Jürgen Dax(2), Christoph Braun(2,3,4), Niels Birbaumer(1,6)
T18-4A	Tone-evoked current source density patterns between the awake and anesthetized auditory cortex of Mongolian gerbils indicates differential recruitment of inhibitory microcircuitry	Katrina E Deane (1), Michael GK Brunk(1), Marina M Zempeltzi(1), Frank W Ohl(1,2,3), Max FK Happel(1,2)

T18-5A	Improved spectral resolution of optogenetic vs electric stimulation of the auditory nerve	Alexander Dieter (1,2), Marcus Jeschke (1,3,4), Tobias Moser (1,2,3)
T18-6A	Compensatory Activity in the Auditory Midbrain after Acoustic Trauma Indicates Hidden Hearing Loss	Eva B.S. Dunkel (1), Natascha Hofmann(1), Manuela Nowotny(1), Bernhard H. Gaese(1)
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T18-8A	Assembly of auditory circuits in the absence of neurotransmission	Lena Ebbers (1), Christoph Körber(2), Hannes Maier(3), Marc August Willaredt(1), Heiner Hartwich(1), Hans Gerd Nothwang(1)
T18-9A	Recovery from Adaptation in Mouse Auditory Midbrain Neurons: Frequency Effects of Deviant Tones in Tone Sequences	Marina Alexandrovna Egorova (1), Alexander Grigorievich Akimov(1), Gleb Dmitrievich Khorunzii(1), Guenter Ehret(2)
T18-10A	Population Responses to Single and Competing Stimuli in the Barn Owl's Auditory Space Map	Roland Ferger (1), Michael V Beckert(1), Keanu Shadron(1), Brian J Fischer(2), José L Peña(1)
T18-11A	Processing of fast temporal modulations in bat auditory cortex matches communication call specific sound features.	Uwe Firzlaff (1), Stephen Hörpel(1)
T18-12A	The modulatory effect of pentobarbital in the auditory brainstem: evidence against GABAergic synapses in the lateral superior olive	Jonas Martin Fisch (1), Ayse Maraslioglu(1), Eckhard Friauf(1)
T18-13A	Neuronal coding of natural distress sequences in the inferior colliculus	Eugenia González Palomares (1), Francisco García-Rosales(1), Manfred Kössl(1), Julio C Hechavarría(1)
T18-1B	Effects of low-level activation of parvalbumin-positive interneurons on cortical processing in mouse A1	Tina Gothner (1), Pedro J. Gonçalves(2), Maneesh Sahani(3), Jennifer F. Linden(4), K. Jannis Hildebrandt(1,5)
T18-2B	Event-related EEG correlates of the processing of a metrical beat: in search for components of entrainment and prediction.	Manon Grube (1,2,3), Tamer Ajaj(3), Benjamin Blankertz(3), Kai Alter(4)
T18-3B	Localization of sound source approaching and receding in case of high-frequency hearing loss modeling in humans	Alisa Petrovna Gvozdeva (1), Elena Alexandrovna Ogorodnikova(2), Irina Germanovna Andreeva(1)
T18-4B	Reduced sound-evoked and resting-state BOLD fMRI connectivity in tinnitus	Benedikt Hofmeier (1), Stephan Wolpert(1), Ebrahim Saad Aldamer(1), Moritz Walter(1), John Thiericke(1), Christoph Braun(2), Dennis Zelle(3), Lukas Rüttiger(1), Uwe Klose(4), Marlies Knipper(1)
T18-5B	Auditory illusion in owls predicted by a probabilistic model of rival neuron populations	Lutz Kettler (1)
T18-6B	Role of of peripheral BDNF for auditory perceptional learning?	Marlies Knipper (1), Philipp Eckert(1), Marie Manthey(1), Lucas Matt(3), Philine Marchetta(1), Wibke Singer(1), Michael Walter(2), Peter Ruth(3), Thomas Schimmang(4), Peter Pilz(2), Lukas Rüttiger(1)
T18-7B	Strain as a Risk Factor for Tinnitus and Noise-Induced Hearing Loss in Rats	Lisa Koch (1), Bernhard H. Gaese(1), Manuela Nowotny(1)
T18-8B	Cellular neuroenergetics in the lateral superior olive	Lars Kunz (1), Sonja Brosel(1), Rebecca Hessmer(1), Benedikt Grothe(1)
T18-9B	Properties of Endbulb of Held Synaptic Transmission in the Mongolian Gerbil	Thomas Künzel (1), Kerstin Doerenkamp(1,2), Stefanie Kurth(1,3), Charlene Gillet(1)
T18-10B	Auditory Brainstem Responses Originating from Axonal Terminal Zones in the Auditory Brainstem	Paula T. Kuokkanen (1,2), Anna Kraemer(2), Nadine Thiele(3), Richard Kempter(1), Christine Köppl(3),

	of the Barn Owl	Catherine E. Carr(2)
T18-11B	Neuronal Encoding of Behaviorally Relevant Sound Source Locations in Primary Auditory Cortex	Diana Inês Lopes Amaro (1), Michael Pecka(1)
T18-12B	Localization of AP-2δ Expression in the Chicken Embryo	Harald Luksch (1), Carina Schaub(1,2), Markus Moser(3), Benjamin Schusser(2)
T18-1C	State dependence of stimulus adaptation in the auditory cortex of Mongolian gerbils	Jing Ma (1,2), Michael GK Brunk(1), Marina Zempeltzi(1), Katrina E Deane(1), Max FK Happel(1), Reinhard König(2), Matthias Deliano(1)
T18-2C	A real-time EEG source activity from auditory cortex in patients with chronic tinnitus	Azim Malekshahi (1), Manuel Czornik(1), Herbert Bauer(5), Jürgen Dax(2), Christoph Braun(2,3,4), Niels Birbaumer(1,6)
T18-3C	Basic response properties in the auditory cortex and the frontal auditory field of the fruit-eating bat *Carollia perspicillata*	Adrian Mannel (1), Francisco Garcia-Rosales(1), Julio Hechavarria(1)
T18-4C	Transcriptional profiling of auditory brainstem nuclei in developing mice	Ayse Maraslioglu (1), Kathrin Kattler(2), Domenico Del Turco(3), Eckhard Friauf(1)
T18-5C	Comparison of Single Cell Spike Rate and Timing in the Brainstem in Response to Cochlear Implant and Acoustic Stimulation	Michaela Alisa Müller (1), Barbara Beiderbeck(1), Benedikt Grothe(1,2), Michael Pecka(2)
T18-6C	Development of specific functional axon and myelin morphology in auditory brainstem circuits	Alisha L. Nabel (1,2), Hilde Wohlfrom(1), Olga Alexandrova(1), Michael Pecka(1), Benedikt Grothe(1)
T18-7C	Accelerated recovery of ABR hearing thresholds after mild acoustic trauma in $Ca_V1.3$-DCRD$^{HA/HA}$ mice	Fahmi Nasri Abuqutheileh (1), Kerstin Blum(1), Jutta Engel(1), Simone Kurt(1)
T18-8C	Urocortin 3 at the Calyx of Held Increases Excitatory Postsynaptic Currents in the lateral MNTB	Sara Pagella (1), Conny Kopp-Scheinpflug(1)
T18-9C	Neural correlates of visuo-auditory sensory recalibration.	Hame Park (1,2,3), Christoph Kayser(1,2,3)
T18-10C	Cortical Activation Patterns in Electric Auditory Midbrain Stimulation	Gunnar Lennart Quass (1,2), Andrej Kral(1,2)
T18-11C	Laminar activity in the auditory cortex of vocalizing bats	Dennis Röhrig (1), Francisco García-Rosales(1), Manfred Kössl(1), Julio C. Hechavarría(1)
T18-12C	The influence of hearing impairment on the McGurk illusion	Stephanie Rosemann (1,2), Marie Dewenter(1), Dakota Smith(1), Christiane M Thiel(1,2)
T18-1D	Central gain is reduced with Tinnitus but remains unaltered with Hyperacusis in noise-exposed rats	Lukas Rüttiger (1), Dorit Möhrle(1), Benedikt Hofmeier(1), Marlies Knipper(1)
T18-2D	Two-Pore Potassium channels in auditory processing	Mahshid Helia Saber (1), Christoph Körber(1)
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T18-4D	Electrophysiological correlates of selective auditory spatial attention: effects of sex and menstrual cycle	Michael-Christian Schlüter (1), Stephan Getzmann(2), Jörg Lewald(1)
T18-5D	Auditory adaptation to high-frequency mating calls in eneopterine crickets	Stefan Schöneich (1), Tony Robillard(2), Hannah M. ter Hofstede(3)

T18-6D	Rolr of Insular Cortex in Hyperacusis in Rat	Ali Shahbazi (1), Minoo Karimi(2), Farinaz Nasirinejad(3), Shohreh Jalaei(4), Helnaz Mokrian(2), Saeid Farahani(2)
T18-7D	Mice lacking the extracellular matrix protein brevican show impaired temporal processing in the inferior colliculus	Mira Türknetz (1), Jutta Engel(1), Simone Kurt(1)
T18-8D	Neurophysiological evidence for the stochastic resonance model of tinnitus development	Konstantin Tziridis (1), Evelyn Hammele(1), Patrick Krauss(1), Achim Schilling(1), Sönke Ahlf(1), Holger Schulze(1)
T18-9D	A model system to investigate sensory gating during sleep	Philipp van Kronenberg (1,2), Linus Milinski(2), Livia de Hoz(1,2)
T18-10D	Cathodic-leading and anodic-leading intracortical microstimulation differentially activates the auditory cortex	Mathias B. Voigt (1), Andrej Kral(1)
T18-11D	**retracted** Detection Learning of Optogenetic and Electrical Stimulation in the Auditory Cortex of Mongolian Gerbils	Theresa Christiane Sofia Weidner (1,2), Nabila Alam(1), Martin Deckert(2,4), Gonzalo Arias Gil(1), Armin Dadgar(2,5), Frank W Ohl(1,2,3), Kentaroh Takagaki(1,2), Michael T Lippert(1,2)
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T19-1A	Perception and representation of temporally structured odor stimuli in the mouse olfactory bulb	Tobias Ackels (1,2), Andrew Erskine(1,2), Debanjan Dasgupta(1,2), Izumi Fukunaga(1,2,3), Alina Christina Marin(1,2), Andreas T Schaefer(1,2)
T19-2A	Broadly overlapping, but distinctly different expression domains for V1R-related zebrafish ora genes	Shahrzad Bozorg Nia (1,2), Daniel Kowatschew(1,2), Sigrun I. Korsching(1)
T19-3A	The expression pattern of two “Sensory neuron membrane proteins” emphasizes different roles of the CD36-related proteins in the olfactory system of moths	Sina Cassau (1), Stefanie Blankenburg(1), Jürgen Krieger(1)
T19-4A	Long-term dietary experience of *Drosophila* results in structural modification in mushroom body-related dopaminergic neurons	Büsra Coban (1), Haiko Poppinga(1), Thomas D. Riemensperger(1), Andre Fiala(1)
T19-5A	Functional and morphological diversity of projection neurons in the olfactory bulb of larval *Xenopus laevis*	Daniela Daume (1), Thomas Offner(2), Thomas Hassenklöver(1), Sara J. Hawkins(1), Lukas Weiss(1), Ivan Manzini(1,2)
T19-6A	Investigation of calcium-mediated signaling in different compartments of mouse vomeronasal sensory neurons	Rudolf Degen (1), Marc Spehr(1)
T19-7A	Experience-dependent plasticity of an aversive olfactory circuit in *Drosophila melanogaster*	Benjamin Fabian (1,2), Veit Grabe(1), Rolf Beutel(2), Bill Hansson(1), Silke Sachse(1)
T19-8A	In search for pheromone receptors in the desert locust *Schistocerca gregaria*	Joerg Fleischer (1), Pablo Pregitzer(2), René-Sebastian Lemke(1), Xingcong Jiang(2), Ewald Grosse-Wilde(3), Heinz Breer(2), Jürgen Krieger(1)
T19-1B	Is the olfactory code combinatorial or multidimensional?	C Giovanni Galizia (1)
T19-2B	Dose-dependent modulation of olfactory transduction in mice	Kira Gerhold (1), Marc Spehr(1)
T19-3B	Alarm pheromone modulates odor responses in the antennal lobe of the European honeybee	R. Keating Godfrey (1,3), Jean-Marc Devaud(2), Martin Strube-Bloss(3)

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T19-1C	Dual-color imaging for isolating olfactory bulb output streams in mice	Kim Chi Le (1), Daniela Brunert(2), Markus Rothermel(3)
T19-2C	Expression of SNMP1 and candidate pheromone receptors in palps of the mouthparts from the desert locust *Schistocerca gregaria*	René-Sebastian Lemke (1), Pablo Pregitzer(2), Xingcong Jiang(2), Heinz Breer(2), Jürgen Krieger(1), Jörg Fleischer(1)
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T19-4C	Calcium in Kenyon Cell Somata as a Plausible Substrate for an Olfactory Sensory Memory in *Drosophila*	Alja Lüdke (1), Georg Raiser(1), Johannes Nehrkorn(2), Andreas V.M. Herz(2), C. Giovanni Galizia(1), Paul Szyszka(1)
T19-5C	Beetles possess three primary olfactory processing centers	Laura Mähn (1), Florian Matyschik(1), Björn Trebels(1), Martin Kollmann(1), Stefan Dippel(1), Joachim Schachtner(1)
T19-6C	Physiological analysis of oscillatory microcircuits in the mouse accessory olfactory bulb	Sebastian Tobias Malinowski (1), Julia Mohrhardt(1), Chryssanthi Tsitoura(1,2), Yoram Ben-Shaul(3), Marc Spehr(1)
T19-7C	AON top-down projections modulate olfactory bulb output activity in the mouse	Renata Medinaceli Quintela (1), Lutz Wallhorn(1), Jennifer Bauer(1), Markus Rothermel(1)
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T19-1D	Volumetric calcium imaging of taste processing in the *Drosophila* brain	Daniel Münch (1), Carlos Ribeiro(1)
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T19-3D	Fuzzy topology for zebrafish V2R-like olfactory receptors: distinctly different, if broadly overlapping spatial expression zones	Adnan Shahzad Syed (1), Gaurav Ahuja(1,2), Vera Reichel(1), Daniel Kowatschew(1), Sigrun Korsching(1)
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T19-7D	The "hangry" fly larva: Internal state modulates network processing and switches olfactory preference in *Drosophila* larvae	Katrin Vogt (1), Matthew Berck(1,2), Luis Hernandez-Nunez(1), Guangwei Si(1), Aravinthan D.T. Samuel(1)
T19-8D	The sense of smell on the transition from water to land: odor processing in the developing amphibian	Lukas Weiss (1), Paola Segoviano Arias(1), Sara Joy Hawkins(1), Katarina Dittrich(1), Thomas Offner(1,2), Thomas Hassenklöver(1), Ivan Manzini(1,2)
T20-1A	Abdominal sensing of substrate vibrations in locusts (*Schistocerca gregaria*)	Joscha Arne Alt (1), Reinhard Lakes-Harlan(1)
T20-2A	Neuronal mechanisms underlying sparse coding of passive touch – A combined *in vivo* and *in vitro* study	Claudia Barz (1,2,3,4,5,6), Pierre-Marie Garderes(3,4,5,7), Dan Ganea(3,4,5), Sven Reischauer(8), Dirk Feldmeyer(1,2,6), Florent Haiss(3,4,5,7)
T20-3A	Sensory profiles, pain characteristics and micro-RNAs as distinguishing factors in complex regional pain syndrome (CPRS) and fracture control patients	Christopher Dietz (1), Maike Müller(1), Lisa Karch(1), Ann-Kristin Reinhold(1), Bernhard Schwab(1), Claudia Sommer(3), Violeta Dimova(2), Frank Birklein(2), Heike L Rittner(1)
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T20-1B	Characterization of campaniform sensilla on the legs of *Drosophila melanogaster*	Gesa F. Dinges (1), Alexander Blanke(1), Sasha N. Zill(2), Ansgar Büschges(1), Till Bockemühl(1)
T20-2B	Touch-induced affordances, spatial coordination of limbs and the definition of peripersonal space in insects	Volker Dürr (1), Malte Schilling(2)
T20-3B	Correlative light and electron microscopy (CLEM) for investigating keratinocyte-nerve fiber contact zones in human skin	Christoph Erbacher (1), Philine Dinkel(1), Alexandra Gentschev(1), Sebastian Britz(2), Christian Stigloher(2), Nurcan Üçeyler(1)
T20-1C	Wisdom of the crowd vs. power of the few An electrophysiological assessment of the impact of individual neurons on local networks	Beate Knauer (1), Maik C. Stüttgen(1,2)
T20-2C	Cross-modal adaptation in a descending interneuron of the indian stick insect *Carausius morosus*	Gaetan Lepreux (1,2), Stephan Suichi Haupt(1), Volker Dürr(1,2)
T20-3C	Repeated stimulation causes hyperpolarization and increased spike counts in leech touch cells	Sonja Meiser (1), Go Ashida(1,2), Birte Groos(1), Jutta Kretzberg(1,2)
T20-1D	Influence of cooling on C-fibres activation to rectangular and sinusoidal electrical stimulation	Julius Pakalniskis (1), Martin Schmelz(1), Richard W. Carr(1)
T20-2D	Central amygdala modulates nociception: optogenetic manipulation of network dynamics	Pinelopi Pliota (1), Isabel Wank(2), Sylvia Badurek(3), Klaus Kraitsy(3), Joanna Kaczanowska(1), Silke Kreitz(2), Andreas Hess(2), Wulf Haubensak(1)
T20-3D	The cortical signature of acute pain in rodent thalamus and somatosensory system	Jiaojiao Zhang (1), Simon Ponsel(1), Evgueni Ianovskii(1), Jurij Brankack(1), Andreas Draguhn(1)
T21-1A	Studying Changes of Walking Direction and Kinematic Parameters in Response to Unilateral Tactile Stimuli in the Stick Insect *Carausius morosus*	Volker Berendes (1), Florian Paul Schmidt(1), Florian Hofmann(1), Volker Dürr(1)
T21-2A	Functional heterogeneity of neurons within a midbrain nucleus driving locomotion in adult	Eva M. Berg (1), Abdeljabbar El Manira(1)

	zebrafish	
T21-3A	Static stability is a good predictor of interleg coordination during walking in *Drosophila*	Till Bockemühl (1), Nicholas S. Szczecinski(2), Alexander S. Chockley(1), Ansgar Büschges(1)
T21-4A	Multimodal object recognition in the primate brain during a delayed-grasp task	Daniela Buchwald (1,2), Hans Scherberger(1,2)
T21-5A	Load feedback in the stick insect is channeled towards leg motor neuron specificity by means of synaptic inhibition	Ansgar Büschges (1), Victoria Schuckel(1), Stephan Dodt(1), Nicole Jüngermann(1), Jacqueline Kasemir(1), Angelina Ruthe(1), Matthias Gruhn(1), Joachim Schmidt(1)
T21-6A	Characterization of resting state activity in macaque motor cortex	Paulina Anna Dabrowska (1), Nicole Voges(1), Michael von Papen(1), Alexa Riehle(2,1), Thomas Brochier(2), Sonja Grün(1,3)
T21-7A	Orthogonal population dynamics and functional connectivity in the macaque fronto-parietal grasping network	Benjamin Dann (1), Hans Scherberger(1,2)
T21-8A	Tyramine action on motoneuron excitability and adaptable tyramine/octopamine ratios adjust Drosophila locomotion to nutritional state	Carsten Duch (1), Natalie Schuetzler(1), Chantal Girwert(1), Isabell Huegli(1), Stefanie Ryglewski(1)
T21-9A	A cell-type specific driver line library targeting motoneurons and interneurons in the wing neuropil of the ventral nerve cord of *Drosophila melanogaster*	Erica Ehrhardt (1,2), Sam Whitehead(3), Shigehiro Namiki(2), Igor Siwanowicz(2), Hideo Otsuna(2), David Stern(2), Michael Dickinson(4), Kei Ito(1), Jim Truman(2), Itai Cohen(3), Wyatt Korff(2), Gwyneth M Card(2)
T21-10A	Enriched environment accelerates action potentials	Abdelmoneim Eshra (1), Petra Hirrlinger(2), Stefan Hallermann(1)
T21-1B	Posterior parietal cortex reflects a forward model driving sensorimotor control in a motor reference frame during BCI learning	Enrico Ferrea (1), Pierre Morel(1), Alexander Gail(1,2,3,4)
T21-2B	Object location and size influence parietal and premotor reference frames during object-oriented reach planning	Ole Fortmann (1), Bahareh Taghizadeh(2), Alexander Gail(1,3,4,5)
T21-3B	Processing of Load Signals in the Leg Muscle Control System of Insects	Corinna Gebehart (1), Joachim Schmidt(1), Ansgar Büschges(1)
T21-4B	Slope-dependent modulation of muscle co-contraction in freely walking stick insects (*Carausius morosus*)	Yannick Günzel (1), Chris J. Dallmann(1,2), Josef Schmitz(1,2), Volker Dürr(1,2)
T21-5B	Optogenetic inhibition of premotor cortex projections to parietal reach region modifies rule-based sensorimotor transformation in non-human primates	Hao Guo (1,3), Michal Fortuna(1), Janina Hueer(1), Jens Gruber(1), Stefan Treue(1,3,4), Hansjoerg Scherberger(1,3,4), Alexander Gail(1,2,3,4)
T21-6B	Parallel cortico-cerebellar pathways through a pretectal cerebellar relay nucleus in birds.	Cristian Gutierrez-Ibanez (1), Douglas R Wylie(1)
T21-7B	The role of chordotonal organs for local pattern-generating activity of a leg stump during walking in *Drosophila*	Moritz Haustein (1), Ansgar Büschges(1), Till Bockemühl(1)
T21-8B	Survival of the anucleated giant Mauthner axon is required for high-performance escape responses	Alexander Hecker (1), Wolfram Schulze(1), Jakob Oster(1), Stefan Schuster(1)
T21-9B	Comprehensive disynaptic mossy fibre pathways from sensory and motor-related regions of the cerebral cortex to the cerebellum	Julia Henschke (1), Janelle M.P. Pakan(1,2)

T21-1C	Duets in the wild: Inter-individually coordinated motor control enables cooperative behavior	Susanne Hoffmann (1), Lisa Trost(1), Cornelia Voigt(1,2), Stefan Leitner(1), Alena Lemazina(1,3), Hannes Sagunsky(1), Markus Abels(1), Sandra Kollmansperger(1,4), Andries Ter Maat(1), Manfred Gahr(1)
T21-2C	Glycine transporter 2-deficient mice show an altered development of the ultrasonic vocalization-associated breathing	Swen Hülsmann (1,2), Yoshihiko Oke(3), Guillaume Mesuret(1,2), A. Tobias Latal(1,2), Michal G. Fortuna(1,2), Marcus Niebet(2), Johannes Hirrlinger(4,5), Julia Fischer(6), Kurt Hammerschmidt(6)
T21-3C	Construction principles of miniaturized neural circuits on the example of the flight motor network for asynchronous flight	Silvan Hürkey (1), Carsten Duch(1)
T21-4C	Anatomical and physiological specializations for high spike time precision in *Drosophila* flight steering motoneurons	Nina Kramer (1), Dario Music(1), Carsten Duch(1)
T21-5C	Platform-induced vertical vestibular ocular reflex in humans	Dieter F. Kutz (1), Florian P. Kolb(2), Stefan Glasauer(3), Hans Straka(4)
T21-6C	The neural basis of amplitude adjustments during vocal interactions	Alena Lemazina (1,2), Susanne Hoffmann(1), Lisa Trost(1), Manfred Gahr(1)
T21-7C	Is Common Inhibitor Action Mediated by a Dual Control via Fast Synaptic Transmission and Neuromodulation?	Sander Liessem (1), Reinhard Predel(1), Ansgar Büschges(1)
T21-8C	The temporal dynamics of action-effect prediction: An EEG study	Elisabeth Lindner (1,2,3), Álvaro Darriba(1,2), Qing Yang(1,2), Alexander Jones(4), Florian Waszak(1,2), Andrea Desantis(1,2,5)
T21-9C	The aimed limb movements of a hemimetabolous insect are compensated for allometric wing growth	Tom Matheson (1), Alexandra J. Patel(2)
T21-10C	Motor phenotype and Cognitive testing of PCLO Knockout (Pclogt/gt) rats measured in an operator-independent motor analysis system (OptiMan) connected with an Operant Touchscreen Chamber	Humaira Munawar (1), Marion Rivalan(2), Katharina Stumpenhorst(3), Christian Jung(4), Claus Reimertz(5), Craig Garner(6), York Winter(7)
T21-1D	**retracted** Changes in M1 GABA during motor adaptation and its relationship to individual adaptation and retention behaviour – a Magnetic Resonance Spectroscopy (MRS) study.	Caroline Ruth Nettekoven (1), Sinead Brady(1,2), Jacob M Levenstein(1,2,4), Usay E Emir(5), Charlotte J Stagg(1,2)
T21-2D	Encoding of movement force in the fronto-parietal reach network in primates	Julia Wanda Nowak (1), Pierre Morel(1), Alexander Gail(1,2,3,4)
T21-3D	Inhibition of HSP90 increases individual variability of behaviour in the desert locust	Swidbert Roger Ott (1), Tom Matheson(1), Ben Cooper(1)
T21-4D	Motion Hacking: A Method for Interference with Neural Control of Walking, Based on External Muscle Stimulation in Stick Insects	Dai Owaki (1), Volker Dürr(2), Josef Schmitz(2)
T21-5D	Optical Inactivation of Leg Proprioceptors in the Stick Insect *Carausius morosus*	Burak Özbagci (1), Anna Haberkorn(1), Ansgar Büschges(1), Matthias Gruhn(1)
T21-6D	Female zebra finches use their song control system for call-based communication	Lisa Trost (1), Andries Ter Maat(1), Manfred Gahr(1)
T21-7D	Spatial averaging and inference of decision time in go-before-you-know tasks depends on motor	Philipp Ulbrich (1,2), Alexander Gail(1,2,3,4)

	control demands and movement time constraints	
T21-8D	Leg coordination and gait choice in poly-pedal locomotion – numerical models and experiments	Tom Weihmann (1)
T21-9D	Motor skill learning and execution in a distributed brain network	Steffen Benjamin Eggert Wolff (1), Ashesh Dhawale(1), Raymond Ko(1), Bence Ölveczky(1)
T22-1A	Energy metabolism in honey bees is affected by the neonicotinoid thiamethoxam	Sonja Dähn (1), Prof. Dr. Uli Müller(1)
T22-2A	Inflammatory Stress-Induced c-Fos Expression in the Nesfatin-1 Neurons in the Supraoptic Nucleus	Gulcin Ekizceli (1), Kiymet Zulal Halk(1), Ilker M. Kafa(2), Zehra Minbay(3), Ozhan Eyigor(3)
T22-3A	Nesfatin-1 Neurons Express Glucocorticoid Receptors in the Paraventricular and Arcuate Nuclei of the Hypothalamus	Ozhan Eyigor (1), Gulcin Ekizceli(2), Zehra Minbay(1)
T22-1B	Electrophysiological and morphological characterization of PVN neurons in mice	Debora Fuscà (1), Andreas Klein(1), Peter Kloppenburg(1)
T22-2B	Neuroanatomical mapping of hypothalamic core areas involved in the regulation of spontaneous daily torpor in the Djungarian hamster *(Phodopus sungorus)*	Elena Haugg (1), Dr. Victoria Diedrich(1), Prof. Dr. Annika Herwig(1)
T22-3B	Do central stress responses contribute to inner hair cell synaptopathy?	Philine Marchetta (1), Philipp Exert(1), Marie Manthey(1), Lukas Rüttiger(1), Wibke Singer(1), Marlies Knipper(1)
T22-1C	The impact of lipid homeostasis on glucose transport in neuroblastoma cells	Janine Mett (1), Uli Müller(1)
T22-2C	Nesfatin-1 Neurons Express c-Fos Following Restraint or Forced Swimming Stress	Zehra Minbay (1), Gulcin Ekizceli(2), Kiymet Zulal Halk(2), Ozhan Eyigor(1)
T22-1D	Amino acid dependent regulation of neuronal energy metabolism	Sandra Muehlenbacher (1), Uli Müller(2)
T22-2D	Early life growth retardation in *Tph2*$^{-/-}$ deficient rats	Polina Peeva (1), Daniel Beis(1), Mihail Todiras(1), Elena Popova(1), Michael Bader(1), Natalia Alenina(1)
T22-3D	Immune Response and Behavior modulation in *Drosophila melanogaster*	Thomas Dieter Riemensperger (1), Fabienne Reh(1), Kei Ito(1)
T23-1A	Computational modelling of the firing properties of morphologically distinct types of hippocampal pyramidal neurons	Matthias Klumpp (1), Beate Throm(1), Andreas Draguhn(1), Martin Both(1)
T23-2A	Non-canonical axon morphologies gate information flow in neuronal ensembles	Christian Thome (1), Martin Kaiser(1), Matthias Klumpp(1), Paul Pfeiffer(2), Andreas Draguhn(1), Maren Engelhardt*(3), Martin Both*(1)
T23-3A	Age- and NMDAR-dependent effects of hypoxia-ischemia on hippocampal function *in vitro*	Dimitri Hefter (1,2), Paul Grube(1), Alycia Lee(1), Dragos Inta(2,3), Peter Gass(2), Andreas Draguhn(1), Martin Both(1)
T23-4A	Glutamate attenuates and NMDA enhances synchronization of spontaneous locus coeruleus network bursting in newborn rat brain slices	Klaus Ballanyi (1), Vladimir Rancic(1), Bijal Rawal(1)
T23-5A	**retracted** Light and temperature integration in the *Drosophila* clock	Edgar Buhl (1), Ralf Stanewsky(2), James JL Hodge(1)
T23-6A	A genetically encoded system for modification of neuronal network activity patterns in vivo at	Sidney Cambridge (1), Firat Terzi(1), Johannes Knabbe(1)

	cellular resolution	
T23-7A	Impact of physical activity on BDNF-signaling in the brain	Ina Eiffler (1), Jens Schepers(1), Matthias Voigt(1), Oliver von Bohlen und Halbach(1)
T23-8A	Effects of mild metabolic stress on ensemble formation of pyramidal cells during hippocampal gamma oscillations	Shehabeldin Elzoheiry (1), Jan-Oliver Hollnagel(1), Andrea Lewen(1), Oliver Kann(1)
T23-9A	Intersectional subpopulations of the dorsal raphe nucleus modulate sleep-wake behavior.	Mary Gazea (1,2), Lukas Oesch(1,2), Carolina Gutierrez Herrera(1,2), Antoine R. Adamantidis(1,2)
T23-10A	Laminar-restricted optogenetic manipulation in the mouse motor cortex for decomposition of the local field potentials.	Andreas J. Genewsky (1), Anton Sirota(1)
T23-11A	The singing-CPG in crickets shows a modular organisation along the abdominal ganglia	Berthold Hedwig (1), Pedro Jacob(2), Chu-Cheng Lin(1)
T23-1B	Abnormal entorhinal control of developing prefrontal-hippocampal circuits in a mouse model of mental illness	Marilena Hnida (1,2), Xiaxia Xu(1,2), Ileana Hanganu-Opatz(1)
T23-2B	Midbrain dopaminergic neurons' response to electrical stimulation of the LDTg across alternating brain states of urethane anaesthetised rat	Gabriela Izowit (1), Tomasz Blasiak(1), Magdalena Walczak(1)
T23-3B	Phase dependent afferent influence on a simple rhythmic behaviour	Reinhard Lakes-Harlan (1), Alberto Licona-Backenköhler(1), Ann-Sophie Sturzbecher(1)
T23-4B	Co-modulation effect of two antagonistic neuromodulators on rhythmic motor activity	Nils Laudenberg (1), Felix Clotten(1), Carmen Smarandache-Wellmann(1)
T23-5B	The distribution of inputs from several brain areas into the teleost Mauthner cell	Kathrin Leupolz (1), Peter Machnik(1), Wolfram Schulze(1), Stefan Schuster(1)
T23-6B	Electrophysiological characterization of human dopaminergic neurons derived from LUHMES cells	Dominik Loser (1,2,3), Timm Danker(2), Clemens Möller(1), Marcel Leist(4), Udo Kraushaar(3)
T23-7B	Recordings in an integrating central neuron provide a quick way for achieving appropriate anaesthetic use in fish	Peter Machnik (1), Elisabeth Schirmer(1), Laura Glück(1), Stefan Schuster(1)
T23-8B	Intersegmental CPG coupling in the deafferented walking system of the stick insect	Charalampos Mantziaris (1), Till Bockemühl (1), Ansgar Büschges (1)
T23-9B	**retracted** Intracortical compensatory mechanisms for weakened thalamic input in the mislaminated somatosensory cortex of the reeler mutant.	Anouk JM Meeuwissen (1), Julien Guy(1), Martin Möck(1), Jochen F Staiger(1)
T23-10B	Infraslow Oscillations in the Mouse Accessory Olfactory Bulb	Julia Mohrhardt (1,2), Chryssanthi Tsitoura(1,3), Rudolf Degen(1), Minghong Ma(4), Marc Spehr(1)
T23-1C	Eslicarbazepine effects on hippocampal sharp wave-ripples in a mouse model of KCNQ2-related encephalopathy	Laura Monni (1), Pawel Fidzinski(1), Matthias Wawra(1), Martin Holtkamp(1)
T23-2C	A cellular basis for cross-frequency coupling?	Andreas Neef (1,2,3,4), Fred Wolf(1,2,3,4), Ricardo Martins Merino(1,2,3,4)
T23-3C	How versatile behaviors are flexibly supported by local circuits: Dissecting *Drosophila's* wing motor circuit	Nelson Christian Niemeyer (1,2), Jan-Hendrik Schleimer(1,2), Silvan Huerkey(3), Carsten Duch(3), Susanne Schreiber(1,2)
T23-4C	Reward rate during Upper Alpha Neurofeedback affects learning of Upper Alpha modulation	Mareike Nödler (1), Sjoerd Meijer(2), Mücahit Tasci(3), Lena Geiss(4), Marinus Breteler(5)

T23-5C	Searching for neural correlates that control sleep wake-cycles in the circadian clock of the Madeira cockroach	Jenny A. Plath (1), Pablo Rojas(2), Julia Gestrich(1), HongYing Wei(1), Martin E. Garcia(2), Bharath Ananthasubramaniam(3,4), Hanspeter Herzel(4)
T23-6C	Changes in hippocampal network oscillations and single cell properties of GAD65 KO mice-a model of reduced GABAergic synthesis	Evangelia Pollali (1,2,3,4), Gürsel Çaliskan(1,4), Thomas Munsch(2,3,4), Volkmar Lessmann(2,3,4), Oliver Stork(1,3,4)
T23-7C	Network-specific synchronization of delta oscillations gates sleep regulation in Drosophila	Davide Raccuglia (1), Sheng Huang(2), Anatoli Ender(1), Desiree Laber(1), Agustin Liotta(3), Stephan J Sigrist(2,4), Jörg R P Geiger(1,4), David Owald(1,4)
T23-8C	Rapid depth perception in hunting archerfish	Caroline Petra Reinel (1), Stefan Schuster(1)
T23-9C	Multiscale analysis of neuronal activity of the circadian clock of the Madeira cockroach	Pedro Pablo Rojas (1), Julia Gestrich(2), Jenny A. Plath(2), HongYing Wei(2), Martin E. Garcia(1), Bharath Anasthasubramaniam(3), Monika Stengl(2), Hanspeter Herzel(3)
T23-10C	Learning Central Pattern Generator models for the generation of rhythmic activity	Alessandro Salatiello (1), Martin A. Giese(1)
T23-11C	Connectomics of the rat brainstem	Oliver Schmitt (1), Peter Eipert(1), Sebastian Schwanke(1), Julia Beier(1)
T23-1D	Neuromodulation of circuit output variability and component variability	Anna C. Schneider (1), Dirk Bucher(1), Farzan Nadim(1)
T23-2D	The time dependence of firing behavior and its relation to cholesterol metabolism in disassociated hippocampal neurons	Sinem Meleknur Sertel (1), Silvio O. Rizzoli(1)
T23-3D	Abnormal hippocampal innervation of developing prefrontal cortex in a genetic-environmental mouse model of mental illness	Lingzhen Song (1), Xiaxia Xu(1), Peggy Putthoff(1), Ileana L. Hanganu-Opatz(1)
T23-4D	Gradients in the cerebellar cortex enable Fourier-like transformation and improve storing capacity	Isabelle Straub (1), Laurens Witter(1,4), Miriam Hoidis(1), Abdelmoneim Eshra(1), Niklas Byczkowicz(1), Sebastian Maaß(1), Igor Delvendahl(1,5), Kevin Drogans(3), Elise Savier(3,6), Ingo Bechmann(2), Jens Eilers(1), Martin Krüger(2), Philippe Isope(3), Stefan Hallermann(1)
T23-5D	Circadian clock connections to specific layers of lamina and medulla in the cockroach *Rhyparobia maderae*	Thordis Arnold (1), Sebastian Korek(1), Azar Massah(1), David Eschstruth(1), Monika Stengl(1)
T23-6D	Nucleus incertus is a pontine theta oscillator – electrophysiological *in vivo* studies on urethane anaesthetised rat	Aleksandra Trenk (1), Magdalena Walczak(1), Tomasz Blasiak(1)
T23-7D	Impact of network architecture on stimulus representations in vitro	Szabina Tudja (1,2,3), Samora Okujeni(1,2), Ulrich Egert(1,2)
T23-8D	Complex bursts of action potentials in dopaminergic neurons in response to cholinergic agonists administration - – in vivo electrophysiological and pharmacological studies on NR1DATCreERT2 mice	Magdalena Walczak (1), Lukasz Szumiec(2), Jan Rodriguez Parkitna(2), Tomasz Blasiak(1)
T23-9D	E/I ratio is maintained constant in neocortical cultured networks despite variation of the GABAergic neurons proportion	Wenxi Xing (1), Ana D. de Lima(1), Thomas Voigt(1)
T23-10D	Abnormal CA1 activity causes decreased neonatal prefrontal-hippocampal coupling in a gene-environment model of neuropsychiatric	Xiaxia Xu (1), Lingzhen Song(1), Ileana L Hanganu-Opatz(1)

	disorders	
T24-1A	Aggression forges inter-individual behavioural differences in crickets	Julia Sophie Balsam (1), Paul Anthony Stevenson(1)
T24-2A	Habituation to appetitive 50-kHz USVs in the playback paradigm in rats	Annuska Berz (1,2,3), Chi-Hsin Chen(1), Markus Wöhr(1,2,3), Rainer K.W. Schwarting(1,2,3)
T24-3A	How humans select and use reliable landmarks for navigation	Norbert Boeddeker (1), Luisa Beckmann(1), Simon Jetzschke(1), Christoph Kayser(1)
T24-4A	Traces of negatively valenced objects in a lateral entorhinal cortex - amygdala microcircuit	Vincent Boehm (1), Pinelopi Pliota(1), Klaus Kraitsy(2), Joanna Kaczanowska(1), Wulf Haubensak(1)
T24-5A	Influences of aggression on learning in crickets	Kim Julia Borstel (1), Paul Anthony Stevenson(1)
T24-6A	Attributing success to oneself versus another: dissociating neural correlates of pride and gratitude	Ke Ding (1), Dian Anggraini(2), Klaus Wunderlich(3)
T24-7A	Developmental peculiarities of perception of speech emotional prosody in schoolchildren with high math abilities.	Elena Dmitrieva (1), Victor Gelman(2)
T24-8A	Low frequency oscillatory bursts in the macaque prefrontal cortex predict spontaneous transitions in the content of consciousness	Abhilash Dwarakanath (1), Vishal Kapoor(1), Leonid Fedorov(1), Shervin Safavi(1), Joachim Werner(1), Nicho Hatsopoulos(2), Nikos Logothetis(1), Theofanis Panagiotaropoulos(3)
T24-9A	Visualizing BDNF Transcript Usage During Sound-Induced Memory Linked Plasticity	Philipp Eckert (1), Lucas Matt(2), Rama Panford-Walsh(1), Hyun-Soon Geisler(1), Anne E. Bausch(2), Marie Manthey(1), Nicolas I.C. Müller(3), Csaba Harasztosi (4), Karin Rohbock(1), Peter Ruth(2), Eckhard Friauf(3), Thomas Ott(5), Ulrike Zimmermann(1), Lukas Rüttiger(1), Thomas Schimmang(6), Marlies Knipper(1), Wibke Singer(1)
T24-1B	Characterization of C57BL/6J and two transgenic mouse lines in a novel behavioral paradigm for social fear conditioning	Nadine Faesel (1,2), Malgorzata Kolodziejczyk(1), Suemeyra Aksit(3), Michael Koch(2), Markus Fendt(1,4)
T24-2B	Enriched environment restores behavioral deficits induced by BDNF haploinsuffiency	Markus Fendt (1,2), Mahmoud Harb(1), Justina Jagusch(1), Thomas Endres(3), Volkmar Lessmann(2,3)
T24-3B	Spontaneous alpha oscillations reflect the effort to compensate an individual bias in temporal perception	Laetitia Grabot (1), Christoph Kayser(1)
T24-4B	Differential control of fear and reward behavior in BNST circuits	Wulf Haubensak (1), Nadia Kaouane(1), Sibel Ada(1), Marlene Hausleitner(1)
T24-5B	Antidepressant Action of Sugar Treatment is Dependent on Octopaminergic Signalling to the Serotonergic System in Drosophila melanogaster	Tim Hermanns (1), Burkhard Poeck (1), Roland Strauss(1)
T24-6B	Cortico-limbic interactions in emotional behavior	Dominic Kargl (1), Joanna Kaczanowska(1), Jelena Zinnanti(2), Peter Opriessnig(2), Wulf Haubensak(1)
T24-7B	Expectation and multisensory integration during perceptual decisions	Stephanie, J Kayser (1), Christoph Kayser(1)
T24-8B	Investigation and modelling of monkey and human choice behavior in a transparent coordination game	Sebastian Moeller (1,2,3), Anton M. Unakafov(1,2,3,4), Alexander Gail(1,2,3,5), Stefan Treue(1,2,3,5), Fred Wolf(3,4,5), Igor Kagan(2,3)

T24-9B	Disconnection of prefrontal cortex and ventral tegmental area alters effort-related responding in rats	Alexandra Münster (1), Wolfgang Hauber(1)
T24-1C	**retracted** Sensitivity to performance feedback determines the effects of escitalopram on behavioural correlates of depressive symptoms in rats	Karolina Anna Noworyta-Sokolowska (1), Anna Kozub(1), Robert Drozd(1), Rafal Rygula(1)
T24-2C	Specificity of pain and fear encoding in neuronal ensembles of the prelimbic mPFC	Manfred Josef Oswald (), Sebastian Quiroga(1), Rohini Kuner(1)
T24-3C	Neural correlates of mushroom body output neurons measured during flight of a harnessed honey bee on a quad copter	Benjamin Hans Paffhausen (1), Julian Petrasch(2), Tim Landgraf(2), Randolf Menzel(1)
T24-4C	Dynamics of prefrontal cortical neural ensembles during feeding behaviours in freely behaving mice	Anne Petzold (1), Tatiana Korotkova(1)
T24-5C	Neuroarchitecture of peptidergic systems and dopaminergic afferents in the mouse central amygdala	Mirjam Richard (1), Angelika Schmitt-Böhrer(2), Philip Tovote(3), Esther Asan(1)
T24-6C	Social defeat stress kills insects via a nitric-oxide/serotonin-dependent mechanism	Jan Rillich (1), Paul A. Stevenson(1)
T24-7C	How multiple motives affect the computation of social decisions in the human brain	Anne Christin Saulin (1), Ulrike Horn(2), Martin Lotze(2), Jochen Kaiser(3), Grit Hein(1)
T24-8C	Mice don't tune in: surprise determines auditory saliency, not selective attention	Karsten Schulze (1), Inga Rauser(1), K. Jannis Hildebrandt (1,2)
T24-9C	Lateral prefrontal region 8Av/45 encodes the behavioral relevance of stimulus colors	Philipp Schwedhelm (1,2), Stefan Treue(1,3,4,5)
T24-10C	Role of cortical areas during pre-stimulus time window in presence of emotional faces and words as distractors: A quantitative EEG study	Tanaya Batabyal (1), Suriya Prakash Muthukrishnan(1), Ratna Sharma(1), Prashant Tayade(1), Simran Kaur(1)
T24-1D	Fruit flies integrate reward history into foraging decisions	Sophie Elisabeth Seidenbecher (1), Duda Kvitsiani(1)
T24-2D	A comprehensive anatomical map of the peripheral octopaminergic/tyraminergic system of *Drosophila melanogaster*	Mareike Selcho (1), Dennis Pauls(1), Felix Frantzmann(1), Christine Blechschmidt(1), Basil el Jundi(2)
T24-3D	Behavioral and autonomic defensive responses mediated by periaqueductal gray circuits.	Jérémy Signoret-Genest (1), Nina Scheffler(1), Yavé Lozano(1), Philip Tovote(1)
T24-4D	Involvement of rat medial prefrontal cortex in reward and punishment trade-off during perceptual choice	Vanya Valkanova Stoilova (1), Maik Stüttgen(1)
T24-5D	Single neuron and population dynamics in rodent prefrontal cortex during time reproduction	Kay Thurley (1,2), David Bunk(1), Josephine Henke(1)
T24-6D	Exogenous attention improves temporal resolution in the auditory systems of humans and mice: perceptual effects and underlying neural mechanisms	Simge Türe (1)
T24-7D	Applying unsupervised machine learning to study the lateral hypothalamic circuitry underlying motivated behaviour in freely moving mice	Hanna Elin van den Munkhof (1), Tatiana Korotkova(1)
T24-8D	A rat model of reward conditioning using optogenetic VTA stimulation	Vivekanandhan Viswanathan (1), Frank W Ohl(2), Markus Fendt(3), Michael Thomas Lippert(4)

T24-9D	Characterization of a mouse model with a central knockout of BDNF	Matthias Wilhelm Voigt (1), Ina Eiffler(1), Oliver von Bohlen und Halbach(1)
T25-1A	Differential functional innervation and corelease from midbrain dopaminergic neurons in amygdala subregions	Ayla Aksoy-Aksel (1,2), Anna Seewald(3), Andrea Gall(1,2), Johannes Ungermann(1,2), Francesco Ferraguti(3), Ingrid Ehrlich(1,2)
T25-2A	Behavioral analysis of conditional knockout mice for a presynaptic active zone protein Bassoon in excitatory, inhibitory and dopaminergic nerve terminals	Anil Annamneedi (1), Gürsel Caliskan(2,4), Eike Budinger(1,4), Anna Fejtova(1,3,4), Wolfgang Tischmeyer(1,4), Oliver Stork(2,4), Eckart D. Gundelfinger(1,4)
T25-3A	Learning and memory capacities in classical and operant conditioning tasks underlies individuality in the cockroach *Periplaneta americana*	Cansu Arican (1), Janice Bulk(1), Nina Deisig(1), Martin Paul Nawrot(1)
T25-4A	An automated touch screen test battery measuring cognitive decline in mice: minimal experimenter intervention and no food restriction	Dalia Morsi Attalla (1), Katharina Stumpenhorst(2), York Winter(3)
T25-5A	Concept neurons in the human medial temporal lobe reflect relational processing	Marcel Bausch (1), Johannes Niediek(1), Thomas P. Reber(1,3), Sina Mackay(1), Jan Boström(2), Christian E. Elger(1), Florian Mormann(1)
T25-6A	Fear generalization in a differential mouse fear conditioning paradigm: Role of gender, shock intensity and neuropeptide S (NPS) receptor deficiency.	Jorge R. Bergado-Acosta (1,3), Virginia Prameswari(1,2), Markus Fendt(1,3)
T25-7A	Augmented ventral hippocampal network oscillations in mouse strains with elevated anxiety and impaired fear extinction	Gürsel Caliskan (1), Oliver Stork(1)
T25-8A	Time to learn: changing the valence of an odor with experience.	Florencia Campetella (1), Roman Huber(1), Martin Klappenbach(2), Fernando Locatelli(2), Bill Hansson(1), Markus Knaden(1), Silke Sachse(1)
T25-9A	Life history of navigational exploration and social communication in honeybees	Xiuxian CHEN (1), Ryuichi Okada(2), Stefan Walter(1), Midori Sakura(3), Yuan Xing(4), Randolf Menzel(1)
T25-10A	Calcium Imaging of Putative Engram Cells in *Drosophila*	Benjamin Escribano (1), Dominique Siegenthaler(1), Jan Pielage(1)
T25-11A	Circuit Rules of Compulsive Behaviour in *Drosophila*	Johannes Felsenberg (1), Paola Cognigni(1), Sai Parepalli(1), Scott Waddell(1)
T25-12A	Spatial and image selectivity of hippocampal neurons in virtual reality mazes.	Dustin Fetterhoff (1), Christian Leibold(1)
T25-13A	*In Vivo* Recordings Reveal the Encoding of a Conditioned Behavioural Choice in an Identified Neuron	Sabine Feyl (1), Wolfram Schulze(1), Stefan Schuster(1)
T25-14A	Associative olfactory learning in *Drosophila* induces de-correlation of calcium activity in axonal γ-lobe Kenyon cell boutons	André Fiala (1), Florian Bilz(1), Bart Geurten(2)
T25-1B	Individual consistency in the learning performance of honeybees	Valerie Finke (1,2), David Baracchi(2), Martin Giurfa(2), Ricarda Scheiner(1), Aurore Avarguès-Weber(2)
T25-2B	Compass systems during ant learning walks: The earth's magnetic field is the geostable reference system for taking snapshots in *Cataglyphis*	Pauline Nikola Fleischmann (1), Robin Grob(1), Valentin Leander Müller(1), Rüdiger Wehner(2), Wolfgang Rössler(1)
T25-3B	Associative remapping of odor representations by inhibitory network plasticity	Thomas Frank (1), Nila Moenig(1), Chie Satou(1), Shin-ichi Higashijima(2), Rainer Friedrich(1)

T25-4B	To be in the right place at the right time: *Drosophila* learning in the heat maze	Felix Frantzmann (1), Dennis Pauls(1)
T25-5B	Neural correlates of decision making in bumble bees in a laboratory environment	Inga Fuchs (1), Benjamin H. Paffhausen(1), Randolf Menzel(1)
T25-6B	The synapto-nuclear messenger Jacob alters nucleolar dynamics to facilitate protein synthesis in plasticity	Camilla Fusi (1), Anna Karpova(1), Christina Spilker(1), Daniela C. Dieterich(2), Michael R. Kreutz(1,3)
T25-7B	Local amygdala network competition and cooperation in long-term memory	Ki Ann Goosens (1), Yee Fun Lee(2), Seh Hong Lim(1,2), Samiksha Shah(2), Abby Rudolph(2)
T25-8B	Characterization of connectivity in synaptic complexes of the mushroom-body calyx in the honeybee *Apis mellifera*	Claudia Groh (1), Annekathrin Lindenberg(1), Christian Stigloher(2), Wolfgang Rössler(1)
T25-9B	Neuropeptides in *Cataglyphis* desert ants and their role as potential modulators of behavior	Jens Habenstein (1), Franziska Schmitt(1), Emad Amini(2), Markus Thamm(1), Reinhard Predel(3), Christian Wegener(2), Susanne Neupert(3), Wolfgang Rössler(1)
T25-10B	Imaging Odour Representations and Learning-Induced Plasticity at Mushroom Body Output Neuron Postsynapses	Clare Hancock (1), André Fiala(1)
T25-11B	Pavlovian-instrumental transfer is sensitive to outcome devaluation and motivational shifts	Wolfgang Hauber (1), Susanne Sommer(1), Alexandra Münster(1)
T25-12B	Signal integration of dopaminergic neurons in *D. melanogaster*	Michael-Marcel Heim (1), Davide Raccuglia(1), David Owald(1)
T25-13B	Functional connectivity analysis of the nucleus reuniens of the thalamus upon remote fear memory attenuation	Hendrik Heiser (1,2), Bianca A. Silva(1), Nana Sato(1), Johannes Gräff(1)
T25-14B	Genetically-encoded differences in cortical dopamine affect phasic dopamine release in nucleus accumbens and modulate the effect of cue salience on associative learning	Anna Huber (1,2), Nebojsa Jovanovic(1), Lydia Oikonomidis(1), Elizabeth M Tunbridge(1), Mark E Walton(2)
T25-1C	Olfactory Learning in Drosophila Larva can be accounted for by Plasticity of the Synapses between Kenyon Cells and Mushroom Body Output Neurons.	Anna-Maria Jürgensen (1), Michael Schleyer(2), Bertram Gerber(2,3,4), Martin Paul Nawrot(1)
T25-2C	Learning of novel semantic relationships by sudden comprehension is associated with a hippocampus-independent network	Jasmin M. Kizilirmak (1), Björn H. Schott(2,3), Hannes Thuerich(2), Kristian Folta-Schoofs(1), Alan Richardson-Klavehn(4)
T25-3C	Long-term memory improvement by novelty exposure	Jana C. Köhler (1,3), Markus Fendt(2,3), Volkmar Lessmann(1,3), Thomas Endres(1)
T25-4C	Plasticity of the start decisions of hunting archerfish	Martin Krause (1), Wolfram Schulze(1), Stefan Schuster(1)
T25-5C	Role of the parietal cortex on the of retrieval of auditory fear memory at ambiguous environment	Sukwon Lee (1), Bitna Joo(1), Ja Wook Koo(1)
T25-6C	Synaptic $GABA_A$ Receptor Composition in Young Adult-Born Granule Cells Differs from Mature Hippocampal Granule Cells	Meredith E Lodge (1), Jan M Schulz(1), Josef Bischofberger(1)
T25-7C	Sleep improves predictive processing of spatio-temporal sequences	Nicolas D. Lutz (1,2), Ines Wolf(1), Stefanie Hübner(1), Jan Born(1,3), Karsten Rauss(1)
T25-8C	Reward signaling in a recurrent circuit of dopaminergic neurons and Kenyon cells in the	Radostina Lyutova (1), Maximilian Pfeuffer (1), Dennis Segebarth (1,3), Jens Habenstein (1,4), Astrid Rohwedder (2), Felix Frantzmann (1),

	Drosophila larva	Mareike Selcho (1), Christian Wegener (1), Andreas S. Thum (2) und Dennis Pauls (1)
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T25-11C	Performance-dependent regulation of the extracellular matrix in auditory cortex and hippocampus during learning and long-term memory formation	Hartmut Niekisch (1), Julia Steinhardt(1,2), Julia Berghäuser(1,3), Jana Kasper(1), Erika Kaschinski(1), Sara Bertazzoni(1), Judith Weber(1), Jeet Singh(4,5), Jessica Mitlöhner(4), Renato Frischknecht(4,6), Max F.K. Happel(1)
T25-12C	Behavioural characteristics of aversive colour learning in honeybees	Morgane Nouvian (1), C. Giovanni Galizia(1)
T25-13C	Learning relative value in Drosophila.	Emmanuel Perisse (1,2), Pedro F. Jacob(2), Luis D. Suarez(2), Scott Waddell(2)
T25-14C	A depletion of dietary phytoestrogen in the adult C57BL/6 mice affects contextual fear and hippocampal plasticity	Syed Ahsan Raza (1), Gürsel Çaliskan(1), Oliver Stork(1,2)
T25-1D	Characterization of an optogenetically activated dopaminergic reward signal	Michael Schleyer (1), Alice Weiglein(1), Juliane Thöner(1), Anne Voigt(1), Timo Saumweber(1), Bertram Gerber(1)
T25-2D	Neuronal processing of multimodal reward associations in the honeybee	Fabian Schmalz (1), Wolfgang Rössler(1), Martin Strube-Bloss(1)
T25-3D	Enhanced feedforward inhibition in the hippocampus of a Down Syndrome mouse model	Jan Michael Schulz (1), Josef Bischofberger(1)
T25-4D	A deep learning strategy for automatic segmentation of fluorescent labels in brain sections	Dennis Segebarth (1,6), Matthias Griebel(2,6), Alexander Dürr(2), Cora Rüdt von Collenberg(1), Corinna Martin(1), Lucas B. Comeras(3), Dominik Fiedler(4), Anupam Sah(5), Nikolai Stein(2), Rohini Gupta(1), Manju Sasi(1), Ramon O. Tasan(3), Maren Lange(4), Nicolas Singewald(5), Hans-Christian Pape(4), Michael Sendtner(1), Christoph Flath(2,7), Robert Blum(1,7)
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T25-6D	Protein expression and phosphorylation during consolidation of relief learning in rats	Elaheh Soleimanpour (1), Jorge R. Bergado Acosta(1,2), Peter Landgraf(1), Dana Mayer(1), Evelyn Dankert(1), Daniela C. Dieterich(1,2), Markus Fendt(1,2)
T25-7D	Appetitive and aversive learning of amino acids in larval *Drosophila*	Naoko Toshima (1,2), Michael Schleyer(1), Bertram Gerber(1,3,4)
T25-8D	Later than expected: Theta-Alpha-Gamma coupling and phase-amplitude shift in memory-based temporal expectation	Vincent van de Ven (1), Oana Iosif(2), Fren Smulders(1), Peter de Weerd(1)
T25-9D	Learning processes and brain connectivity in a cognitive-motor task in neurodegeneration: evidence from EEG network analysis	Fabrizio Vecchio (1), Francesca Miraglia(1), Davide Quaranta(2), Giordano Lacidogna(2), Camillo Marra(2), Paolo Maria Rossini(2)

T25-10D	Distracting a *Drosophila* — How do Fruit Flies "Remember" to Visually Orient? Anjana Venkataramanan, Burkhard Poeck, Roland Strauss Institute of Developmental Biology and Neurobiology, Johannes Gutenberg-University, 55099 Mainz, Germany	Anjana Venkataramanan (1)
T25-11D	The formation of aversive olfactory memories in *Drosophila* larvae is regulated through insulin signalling in the mushroom bodies.	Annekathrin Widmann (1), Nazli Güllü(2), Melanie Eschment(2), Kathrin Böpple(2)
T25-12D	Auditory fear conditioning in serotonin transporter knockout rats: Differential effects on overt behavior and ultrasonic vocalizations	Maria Willadsen (1,2,3), Tina Meller(1), Maja Paaschburg(1), Rainer Schwarting(1,2,3), Judith R. Homberg(4), Markus Wöhr(1,2,3)
T25-13D	Amygdala intercalated neurons form an interconnected and functionally heterogeneous network	Martin Zeller (1,2), Olena Bukalo(3), Kenta Hagihara(4), Ayla Aksoy-Aksel(1,2), Andrea Gall(1,2), Andrew Holmes(3), Andreas Lüthi(4), Ingrid Ehrlich(1,2)
T25-14D	Representation of stimulus-, task-, and choice-related information in rodent auditory cortex revealed by chronic current-source density recordings	Marina M. Zempeltzi (1), Martin Kisse(1), Shivam Maurya(1), Sümeyra Aksit(1), Lars T. Boenke(1), Michael G.K. Brunk(1), Frank W. Ohl(1,2,3), Matthias Deliano(1), Max F.K. Happel(1,2)
T25-15D	A cellular source of second-order reinforcement in Drosophila	Christian König (1), Afshin Khalili(1), Shiqiang Gao(2), Bertram Gerber(1,3,4), Thomas Niewalda(1)
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T26-2A	Activity-induced changes in ion concentrations switch cellular and network dynamics	Mahraz Behbood (1), Susana Andrea Contreras(1), Jan-Hendrik Schleimer(1), Susanne Schreiber(1)
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T26-4A	Activity patterns in a mathematical model of a gap-junction coupled network of heterogeneous neurons.	Hans Albert Braun (1), Aubin Tchaptchet(1)
T26-5A	Self-organized reactivations maintain and strengthen memories despite synaptic turnover.	Michael Fauth (1), Mark van Rossum(2)
T26-6A	Non-random connectivity of networks subject to homeostatic structural plasticity	Júlia V Gallinaro (1), Stefan Rotter(1)
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T26-2B	Reproducible neural network simulations: model validation on the level of network activity data	Robin Gutzen (1), Michael von Papen(1), Guido Trensch(2), Pietro Quaglio(1), Sonja Grün(1,3), Michael Denker(1)
T26-3B	Mapping cell types in the reptilian brain with single-cell transcriptomics	David Hain (1), Tatiana Gallego-Flores(1), Maria Antonietta Tosches(1), Gilles Laurent(1)
T26-4B	Neural model for the visual recognition of agency and social interaction	Mohammad Hovaidi-Ardestani (1,2), Nitin Saini(2), Martin Giese(1)
T26-5B	BrainTrawler: A Web-based Framework for Iterative Exploration of Big Brain Network Data	Joanna Kaczanowska (1), Florian Ganglberger(2), Wulf Haubensak(1), Katja Bühler(2)
T26-1C	Stabilization of Hebbian cell assemblies by synaptic consolidation	Jannik Luboeinski (1,2), Christian Tetzlaff(1,2)

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T26-3C	A functional network model of the neocortex can reproduce spiking dynamics in monkey motor cortex during delayed reach movements	Martin Paul Nawrot (1), Thomas Rost(1), Alexa Riehle(2), Sacha J van Albada(3), Vahid Rostami(1)
T26-4C	Data driven exploration of mouse behavior in the Go/No-Go task.	Lukasz Piszczek (1), Manuel Pasieka(2,3), Andreea Constantinescu(1,3), Wulf Haubensak(1)
T26-5C	Synaptic contributions to information processing of natural sounds in the VNLL	Michael Rebhan (1), Linda Fischer(3), Felix Felmy(3), Christian Leibold(1,2)
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T27-5A	Knockdown of HCN-channel expression in mouse hippocampal neurons by virus delivered gene-interfering tools	Matthias Deutsch (1), Anne Günther(2), Arnd Baumann(1)
T27-6A	Cryopreservation of Primary Neural Cell Cultures	Annika Haak (1), Irmgard D. Dietzel(1)
T27-1B	Automatic characterization of social communication signals by electrostatic field recordings in honeybee colonies	Karen Haink (1), Benjamin Paffhausen(1), Julian Petrasch(2), Randolf Menzel(1)
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