

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 23, 10:45 -11:30 h and 17:15 -18:00 h in the poster area 21.

Postersessions

Postersessions A: Wednesday, March 22 13.00 - 14.30 and 16.30 - 18.00

Postersessions B: Thursday, March 23 10.00 - 11.30 and 16.30 - 18.00

Postersessions C: Friday, March 24 10.00 - 11.30 and 16.30 - 18.00

Postersessions D: Saturday, March 25 10.30 - 12.00 and 13.30 - 15.00

Poster Topics

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

Poster Contributions: 12th Göttingen Meeting, 22-25 March 2017

	Title of the Poster	Author(s)
T1-1A	A CXCL12 feedback signal from mature granule neurons to neuronal progenitors anchors neuroblasts in the subgranular zone of the dentate gyrus	Philipp Abe (1), Hannah Wüst(1), Ralf Stumm(1)
T1-2A	Aperiodic light environment suppresses the dendrite maturation and neurogenesis in adult Indian house crows, <i>Corvus splendens</i>	S K TAHAJJUL TAUFIQUE (1), ABHILASH PRABHAT(1), VINOD KUMAR(1)
T1-3A	Cooperative functions of Bcl11a/Ctip1 and Bcl11b/Ctip2 in neocortex development	Christoph Wiegrefe (1), Simeon Gaessler(1), Pentao Liu(2), Nancy A. Jenkins(3), Neal G. Copeland(3), Stefan Britsch(1)
T1-4A	Developmental transcriptomics reveals an unexpected role of Hunchback in retinal glia cell formation in <i>Drosophila melanogaster</i>	Nico Posnien (1), Montserrat Torres-Oliva(1), Julia Schneider(1), Gordon Wiegleb(1)
T1-5A	Activity-dependent changes underlying altered human neural progenitor differentiation in fragile X syndrome, a variant of autism spectrum disorder	Maija L Castrén (1), Venkat Swaroop Achuta(1), Tommi Möykkynen(2), Kari Keinänen(2)
T1-1B	DOT1L and Histone H3 lysine 79 methylation determine cortical and hippocampal development by controlling neural progenitor proliferation and cell fate	Tanja Vogel (1), Henriette Franz(1), Alejandro Villarreal(1), Nicole Hellbach(1)
T1-2B	Fluid mechanical forces induced by Reelin determine the shape and directionality of migrating hippocampal neurons	Shaobo Wang (1,2), Peter Wulf(3), Shanting Zhao(1,4), Xuejun Chai(1), Jiawei Li(1,5), Jeremie Lau(1), Antonio Virgilio Failla(6), Bernd Zobiak(6), Mirjam Sibbe(7), Gary L. Westbrook(8), Michael Frotscher(1), David Lutz(1)
T1-3B	Functional analysis of post-translational modifications of Brn2 relevant for proper cortex formation	Theres Schaub (1), Mateusz Ambrozkiwicz(1), Victor Tarabykin(1)
T1-4B	In vivo cell fate imaging: generating the timeline of neural differentiation	Stefanie Vogel (1), Markus Aswendt(2), Cordula Schäfer(1), Kat Folz-Donahue(3), Christian Kukat(3), Marc Ehrlich(4), Holm Zaehres(4), Mathias Hoehn(1,5)
T1-5B	Loss of entire multi-subunit BAF (mSWI/SNF) complexes impairs global epigenetic programs in forebrain development	Tran Tuoc (1,4), Ramanathan Narayanan(1), Cemil Kerimoglu(3), Mehdi Pirouz(2), Kamila Kiszka(1), Linh Pham(1), Robin Wagener(1), Joachim Rosenbusch(1), Michael Kessel(2), Andre Fischer(3), Anastassia Stoykova(2), Jochen Staiger(1)
T1-1C	Molecular profiling of peripheral glial subtypes	Maria Eleni Kastriti (1), Marketa Kaucka(1), V Dyachuk(1), Alessandro Furlan(2), J Krivanek(3), Tatiana Chontorotzea(1), PV Kharchenko(4), Sten Linnarsson(2), Igor Adameyko(1,2)
T1-2C	Neural stem cells of rat hippocampus lack the expression of KV10.1 channels: implications for a safe neurogenesis.	Cilene Lino de Oliveira (1), Sabine Martin(3), Sunke L Mortensen(3), Fernanda R Gomes(3), Luis Pardo(3), Elaine Del Bel(2), Walter Stuehmer(3)
T1-3C	Patient-derived Pluripotent Stem Cells for the Analysis of Schizophrenia in 3D Cerebral Organoids	Matthias Jung (1), Jovita Schiller(1), Anne Puls(1), Albrecht Klemenz(2), Ina Giegling(1), Dan Rujescu(1)

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T1-4C	Regulation of Aberrant Adult Hippocampal Neurogenesis by microRNAs After Mild Kainic Acid-Induced Status Epilepticus: Effect on Gliogenesis and Reactive Neural Stem Cells.	Carlos P. Fitzsimons (1), Pascal Bielefeld(1), Sedef Karayel(1), Alisa Alisa Tiaglik(1), Marijn Schouten(1), Paul J. Lucassen(1), Juan M. Encinas(2)
T1-5C	Spontaneous calcium oscillations modulated by P2Y2 receptor and L type calcium voltage gated channel activity in neurogenesis: a novel approach for studying cell fate determination	Henning Ulrich (), Talita Glaser(1), Àgatha Oliveira(1), Hiromi Shimojo(2), Juliana Corrêa-Velloso(1), Claudiana Lameu(1), Ryoichiro Kageyama(2)
T1-1D	The abnormal communication between neuron and oligodendrocyte disrupts myelination in NPC1 deficient mice	Fan Yang (1), Xiao Feng(1), Arndt Rolfs(1), Jiankai Luo(1)
T1-2D	The Chondroitin Sulfate Code Hypothesis and FGF Signaling in the Neural Stem Cell Niche of the Developing Mouse Forebrain	Alexander von Holst (1), Denise Harrach(2)
T1-3D	The contribution of Dgcr8 to mouse corticogenesis and neocortex expansion	Davide De Pietri Tonelli (1), Nadin Hoffmann (presenting author)(1), Federica Marinaro(1)
T1-4D	The role of foxQ2 in insect central complex development	Gregor Bucher (1), Bicheng He(1), Marita Büscher(1)
T1-5D	The serine protease inhibitor neuroserpin regulates developmental neurogenesis, synaptic plasticity, learning and social behaviour	Giovanna Galliciotti (1), Melanie Neumann (1), Rebecca Reumann (1), Ricardo Vierk (2), Lepu Zhou (2), Frederice Gries (1), Diego Sepulveda-Falla (1), Michaela Schweizer (3), Fabio Morellini (4), Chiara Nicolini (5), Margaret Fahnestock (5), Gabriele Rune (2), Markus Glatzel (1)
T1-6D	Functional analysis of Lin41 in the adult stem cell niche: repurposing of a pluripotency factor in ependymal cells?	Claudia Marini (1), Elisa Cuevas(2), F. Gregory Wulczyn(1)
T2-1A	Abnormal spine morphology in Niemann-Pick Type C 1 mutant mouse	Xiao Feng (1)
T2-2A	An intact insect embryo as assay for developmental neurotoxicity testing	Michael Stern (1), Sarah Frömbling(1), Gregor Bergmann (1), Gerd Bicker(1)
T2-3A	Assembling a dopaminergic synapse: The role of cell adhesion and scaffolding molecules	Rebecca Wallrafen (1), Thomas Dresbach(1)
T2-4A	Branch-specific microtubule destabilization mediates axon branch loss during neuromuscular synapse elimination	Monika S. Brill (1), Tatjana Kleele(1), Laura Ruschkies(2), Mengzhe Wang(1), Natalia A. Marahori(1), Torben Hausrat(2), Derron L. Bishop(3), Matthias Kneussel(2), Thomas Misgeld(1)
T2-5A	Circuit development and morphological phenotype analysis in primary olfactory cortex	Laura Moreno Velasquez (1), Stephen C. Lenzi(2), Dietmar Schmitz(1), Friedrich W. Jochenning (1)
T2-1B	Promotion of axonal collateral branching and thalamocortical connections as potential mechanism underlying erythropoietin-induced poststroke plasticity.	Eduardo Humberto Sanchez-Mendoza (1), David Oguama(1), Dirk M. Hermann(1)

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T2-2B	β -Aminoisobutyric induces Neurite Outgrowth in Primary Cortical Neurons	Daniel Claude Morris (1), Wing Lee Cheung(1), Talan Zhang(2), Michael Chopp(3), Zheng G Zhang(4)
T2-3B	Dendritic Conservation	Carsten Duch (1), Stefanie Ryglewski(1)
T2-4B	Development of connectivity in a fly motor circuit	Aaron Ostrovsky (1), Tatjana Kovacevic(1), Jan Felix Evers(1)
T2-5B	DUAL EFFECT OF EXOGENOUS GLUCOCORTICOIDS ON DENDRITES AND AXONS DURING HIPPOCAMPAL NEURONS MORPHOGENESIS	Helena Alexandra Ribeiro de Carvalho Pinheiro (), Filipa I. Baptista(1), António F. Ambrósio(1,2), Catarina A. Gomes(1,2)
T2-1C	Jelly Belly – Anaplastic lymphoma kinase signaling is an activity independent regulator of dendritic growth	Phil-Alan Gärtig (1), Aaron Ostrovsky(1), Steffen Schmelzeisen(1), Barbara Chwalla(2), Michael Landgraf(2), Jan Felix Evers(1)
T2-2C	Neuroligins and BDNF: Trassynaptic Teamwork	Andoniya Petkova (1), Nina Gödecke(2), Martin Korte(2), Thomas Dresbach(1)
T2-3C	Oxytocin induces neurite outgrowth through calcium pathways	Zuzana Bacova (1), Martina Zatkova(1,2), Alexandra Reichova(1), Jan Bakos(1,2)
T2-4C	Oxytocin modulates neurite length and levels of cytoskeletal proteins associated with neuronal growth	Jan Bakos (1,2), Zuzana Lestanova(1), Martina Zatkova(1,2), Alexander Kiss(1), Tomas Havranek(1), Vladimir Strbak(1,3), Zuzana Bacova(1)
T2-5C	RNA binding proteins in neuronal stress granules studied by single-molecule tracking	Benedikt Niewidok (1), Maxim Igaev(2), Abel Pereira da Graca(1), Michael Peters(1), André Strassner(1), Christian Richter(3), Jacob Piehler(3), Roland Brandt(1)
T2-6C	TrkB-dependent EphrinA reverse signaling guides callosal axon growth downstream of Neurod2/6	Kuo Yan (1)
T2-1D	Role of Dscam1 in dendritic branch growth of central neurons	Shikha Kumari (1), Carsten Duch(1)
T2-2D	Serum Response Factor (SRF) regulates dendritic spines' maturation	Katarzyna Kalita-Bykowska (1), Anna Krysiak(1), Anna Suska(1), Szymon Leski(1), Leszek Kaczmarek(1)
T2-3D	The role of glia in the development of GABAergic and glutamatergic neuronal networks in vitro in a novel culture system	Paul Turko (1), Jie Song(1), Ferdinand Browa(1), Keenan Groberman(1), Imre Vida(1)
T2-4D	VEGFR2-ephrinB2 cooperative signaling controls dendritic arborization and synapse formation	LaShae K. Nicholson (1,2), Eva Harde(1,2), Luisa Henkel(1,2), Amparo Acker-Palmer(1,2,3)
T2-5D	Visualisation of endogenous protein expression, localisation and turnover in single neurons	Linda-Joel Manhart (1), Aaron Ostrovsky(1), Astrid Petzold(2), Sebastian Cachero(3), Stephan Sigrist(2), Jan Felix Evers(1)
T2-6D	Role of PTEN phosphorylation in brain development	Julia Ledderose (), Stefanie Gögel(1), Willem Bintig(1), Frank Furnari(2), Britta J Eickholt(1)
T3-1A	Absolute reduction of olfactory bulb layer volume during absolute growth of the olfactory bulb – a sign for developmental changes of information processing ?	Elke Weiler (1), Willi Bennegger(2,3)

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T3-2A	Analysis of regeneration and myelination associated proteins in human neuroma	Patrick Dömer (1), Bettina Kewitz(1), Christian Heinen(1), Ulrike Janssen-Bienhold(2), Thomas Kretschmer(1)
T3-1B	Cell-free artificial implants of electrospun fibers in a three-dimensional gelatin matrix support sciatic nerve regeneration in vivo	Jörg Mey (1,2), Andreas Kriebel(2), Dorothee Hodde(3), Thomas Kuenzel(2), Gary Brook(3)
T3-2B	Extensive elongation and branching characterize repair Schwann cells that form post injury and support efficient nerve regeneration	Kjara Sophia Pilch (1), Jose Gomez Sanchez(2), Kristjan Jessen(2), Rhona Mirsky(2)
T3-3B	Human Spinal Cord Neural Progenitors and neurotrophic factor mimetic-loaded mesoporous silica particles Assist Regeneration of Sensory Fibers into the Spinal Cord after Dorsal Root Avulsion	Jan Hoeber (1), Niclas König(1), Carl Trolle(1), Alessandro Gallo(2), Vladimir Berezin(3), Elisabet Åkesson(4), Alfonso Garcia-Bennett(5), Emmanuel Hermans(2), Ronald Deumens(2), Elena Kozlova(1)
T3-1C	Localization of reelin signaling pathway components in murine midbrain and striatum	Belal Mahmoud Rahhal (1), Björn Björn Spittau(2), Ahmad Sharaf(2), Kerstin kreiglstein(2)
T3-2C	Long-term cultivation of organotypic nigrostriatal slice cultures	Sarah Maria Elisabeth Joost (1), Andreas Wree(1), Stefan Jean-Pierre Haas(1)
T3-1D	MicroRNA-132 improves regeneration in primary dopaminergic midbrain neurons	Lucas A. Caldi Gomes (1,2), Anna-Elisa Roser(1,3), Mathias Bähr(1,3), Paul Lingor(1,3)
T3-2D	Walking of the stick insect Sipyloidea sipyulus with a regenerated leg	Reinhard Lakes-Harlan (1)
T4-1A	Autocrine endocannabinoid signaling in cortical neurons	Alexander Stumpf (1), Joerg Breustedt(1), Benjamin R. Rost(1,2), Dietmar Schmitz(1,2,3)
T4-2A	Distribution of cholinergic fibers in the visual cortex in p75NTR knockout mice	Oliver von Bohlen und Halbach (1), Viola von Bohlen und Halbach(1)
T4-3A	Elucidating the mode of action of the neonicotinoid imidacloprid on honey bee kenyon cells using Ca ²⁺ - imaging	Christian Lux (1), Uli Müller(1)
T4-1B	H ₂ S evoked NMDA-dependent inhibition network activity of neonatal rat hippocampal slices	Aleksey Yakovlev (1), Evgenia Kurmasheva(1), Guzel Sitdikova(1)
T4-2B	Homocysteine and its derivatives increase the activity of maxi calcium-activated potassium (BK) channel and decrease exocytosis of secretory granules in rat GH3 cells	Aisylu Gaifullina (1), Anton Hermann(2), Guzel Sitdikova(1)
T4-1C	Hydrogen sulfide activates TRPV1 receptors in rat trigeminal neurons and increases the activity of trigeminal nerve	Guzel Sitdikova (1), Alsu Mustafina(1), Ksenia Koroleva(1), Aleksey Yakovlev(1), Rashid Giniatullin(2)
T4-2C	Modulation of Locus Coeruleus Neurons by 5-Hydroxytryptamine	Stephan Bremser (1), Lars Paeger(1), Peter Kloppenburg(1)
T4-1D	Spatial analysis of putative peptide release sites in the ventral lateral neurons of the fruit fly <i>Drosophila melanogaster</i>	Benedikt Robin Hofbauer (1), Christian Wegener(1)
T4-2D	Tyramine functions as a neuromodulator of <i>Drosophila</i> larval motoneurons	Natalie Schuetzler (1), Stefanie Ryglewski(1), Carsten Duch(1)
T5-1A	Activin A reduces GIRK current to excite dentate gyrus granule cells	Fang Zheng (1), Christian Alzheimer(1)
T5-1B	Crosstalk between metabotropic receptors and Cav1.2 channels in somatostatin-expressing hippocampal interneurons	Desiree Loreth (1), Àkos Kulik(1,2)
T5-2B	Serotonin-mediated function of cell adhesion molecule L1 in neuronal morphology	Daria Guseva (1), Christoph Göhr(1), Yvonne Schill(1), Monika Bijata(1,2), Melitta Schachner(3,4,5), Jakub Wlodarczyk(2), Evgeni Ponimaskin(1)

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T5-1C	Modulation of medial prefrontal cortex (mPFC) pyramidal neurons by noradrenaline.	Katarzyna Ewa Grzelka (1), Pawel Jerzy Szulczyk(1)
T5-2C	Palmitoylation of hyaluronan receptor CD44 influences its function in hippocampal neurons	Josephine Labus (1), Alexander Wirth(1), Yvonne Schill(1), Evgeni Ponimaskin(1)
T5-1D	The Adhesion GPCR Latrophilin/CIRL acts as a putative metabotropic mechanosensor	Nicole Scholz (1), Matthias Nieberler(2), Alexander Grottemeyer(2), Chonglin Guan(7), Matthias Pawlak(2), Shiqiang Gao(3), Sebastian Beck(3), Isabella Maiellaro(4), Markus Sauer(5), Esther Asan(6), Georg Nagel(3), Robert J. Kittel(2), Tobias Langenhan(1)
T5-2D	Tonic inhibition in the basal amygdala is under control of modulatory transmitter systems	Susanne Meis (1,2), Thomas Endres(1), Thomas Munsch(1,2), Volkmar Lessmann(1,2)
T6-1A	retracted A unified kinetic model for voltage-gated ionic channels	Pietro Balbi (1), Paolo Massobrio(2), Jeanette Hellgren-Kotaleski(3,4)
T6-2A	Activation of renal ClC-K chloride channels is dependent on an intact N-terminus of their accessory subunit barttin	Martin Fischer (1), Stefan Thiemann(1), Christina Schaal(1), Alina Rahtz(1), Jeanne de la Roche(1), Daniel Wojciechowski(1)
T6-3A	Alternative splicing as a mechanism to increase ion channel diversity	Lukas Kilo (1), Stefanie Ryglewski(1)
T6-4A	Assessing the role of HCN channels in mouse hippocampal neurons using virus delivered gene-interfering tools	Matthias Deutsch (1), Anne Günther(1), Arnd Baumann(1)
T6-5A	Chloroform is a potent activator of cardiac and neuronal Kir3 channels	Sina Kollert (1), Frank Döring(1), Erhard Wischmeyer(1)
T6-6A	Closing in on bimodal action of the anticonvulsant Topiramate by employing the honeybee (<i>Apis mellifera</i>)	Marie-Luise Kümmel (1), Uli Müller(2)
T6-7A	Deletion of auxiliary Ca ²⁺ channel subunit $\alpha 2\delta$ -3 specifically reduces P/Q (Cav2.1) but not L-type Ca ²⁺ currents of spiral ganglion neurons	Friederike Stephani (1), Stefan Münkner(2), Jutta Engel(3)
T6-1B	Enigma of rebound depolarization (RD) in the medial prefrontal cortex (mPFC) pyramidal neurons	Przemyslaw Norbert Kurowski (1), Pawel Szulczyk (1)
T6-2B	Insertion of a glutamate (V166E) at the pore entrance provides an additional gating process for human hClC-Ka chloride channels	Daniel Wojciechowski (1), Kira Stecher(1), Martin Fischer(1)
T6-3B	Lactate is a potent inhibitor of the capsaicin receptor TRPV1	Jeanne de la Roche (1,2), Isabella Walther(1), Waleria Leonow(1), Axel Hage(1), Mirjam Eberhardt(1), Peter W. Reeh(3), Susanne Sauer(3), Martin Fischer(2), Andreas Leffler(1)
T6-4B	Na-K-ATPase mediated neuronal adaption	Susana Andrea Contreras (1,2), Jan-Hendrik Schleimer (1), Susanne Schreiber(1,2)
T6-5B	Novel chemical and molecular tools for the identification of RNA editing-competent neurons and RNA-edited glycine receptor (GlyR) proteins	Florian Hetsch (1), Svenja Kankowski(1), Nicolai Dorka(1), Nicole Horn(1), Larissa Kraus(2), Jochen Meier(1)
T6-6B	Novel forced intercalation probes for the detection of glycine receptor (GlyR) RNA editing at the single cell level	Svenja Kankowski (1), Andrea Knoll(2), Felix Hövelmann(2), Oliver Seitz(2), Jochen Meier(1)
T6-1C	Potassium chloride co-transporter 2 expression is upregulated by potassium chloride and ampakine in chicken auditory brainstem in vitro	Marcus Joseph Wirth (1), Soeren Damgaard(1), Lars Roentgen(1), Hermann Wagner(1)
T6-2C	Probing the channel gating of a glutamate receptor with photoactive unnatural amino acids	Anahita Poshtiban (1), Mette H. Poulsen(2), Viktoria Klippenstein(3), Valentina Guise(1), Andrew Plested(1)
T6-3C	Probing the function of $\alpha 2\delta$ calcium channel subunits in the genetic model system <i>Drosophila melanogaster</i>	Laurin Heinrich (1), Stefanie Ryglewski(1), Carsten Duch(1)

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T6-4C	Proton-dependent modulation of mouse HCN channels	Daniela Ricarda Drose (1), Simone Weyand(2), Alejandro Giorgetti(3,4), Paolo Carloni(3), Marc Spehr(1)
T6-5C	Role of the presynaptic scaffolding proteins Bassoon and Piccolo in the regulation of voltage-gated calcium channels at the release sites and of synaptic vesicles cycling within the presynapse	Eneko Pina (1), Carolina Montenegro-Venegas(2), Maria Andres-Alonso(3), Claudia Marini(4), Eckart D. Gundelfinger(5), Anna Fejtova(6)
T6-6C	Strategies to Stably Record Calcium Currents in Substantia nigra Dopaminergic Neurons	Ursel Collienne (1), Andreas C. Klein(1), Simon Heß(1), Stephan Bremser(1), Peter Kloppenburg(1)
T6-7C	The contribution of the two binding sites to the opening of the adult nicotinic acetylcholine receptor	Dmitrij Ljaschenko (1), Manfred Heckmann(4), Josef Dudel(2), Remigijus Lape(3)
T6-1D	Subcellular organization of presynaptic Ca ²⁺ channels at hippocampal mossy fiber synapses	Julia Bank (1,2), Johannes Jordan(1), Àkos Kulik(1,2)
T6-2D	TGF- β regulates NBCe1 expression and activity in mouse cortical astrocytes.	Shokoufeh Khakipoor (1), Christian Ophoven(1), Eleni Roussa(1)
T6-3D	The Alzheimer's protease BACE1 as a subunit and non-enzymatic regulator of neuronal and cardiac KCNQ channels	Sandra Lehnert (1), Maren Schülke(1), Vanessa Linke(1), Stephanie Hartmann(1), Christian Alzheimer(1), Tobias Huth(1)
T6-4D	Trpc5 cation channels contribute to hormone regulation in the hypothalamus	Thomas Blum (1), Ana Moreno-Perez(1), Anela Arifovic(1), Petra Weissgerber(2), Veit Flockerzi(2), Marc Freichel(3), Frank Zufall(1), Trese Leinders-Zufall(1)
T6-5D	Variable ion channel expression in identified single neurons - homeostatic plasticity or genetic variation?	Carola Staedele (1,2), Andrés Gabriel Vidal-Gadea(1), Wolfgang Stein(1)
T6-6D	Vasoactivity of heme degradation products (HDPs) on cerebral arterioles in vivo and in vitro	Alexander Jörk (1), Milena Günther(1), Nicolas Witsch(1), Marcel Ritter(2,3), Raphael Andreas Seidel(2,3), Georg Pohnert(2), Matthias Westerhausen(2), Otto Wilhelm Witte(1), Knut Holthoff(1)
T7-1A	Characterizing synaptic sound encoding in near physiological conditions	Lina Jaime (1,2,3,4), Chao-Hua Huang(1,2,3), Tobias Moser(1,2,3)
T7-2A	Complexin 1 regulates synaptic vesicle release at glycinergic synapses in the mammalian auditory brainstem	Francisco José López-Murcia (1), Kerstin Reim(1), Nils Brose(1), Holger Taschenberger(1)
T7-3A	Contribution of somatostatin interneurons to network activity in the developing hippocampus in vitro	Tom Floßmann (1), Knut Kirmse(1), Otto W Witte(1), Knut Holthoff(1)
T7-4A	Developmental changes in the vesicular content at an inhibitory synapse in the cochlear nucleus	Jana Nerlich (1), Rudolf Rübsamen(2), Ivan Milenkovic(1)
T7-5A	Differential distribution of synaptosomal associated protein 47 kDa isoform (SNAP47) in the mouse and rat hippocampus.	Agnieszka Muenster-Wandowski (1), Jie Song(1), Heike Heilmann(1), Imre Vida(1,2)
T7-6A	Distinct functions of Piccolo and Bassoon at the calyx of Held	Christoph Koerber (1), Thomas Kuner(1), Daniel Parthier(1)
T7-7A	Distinct roles of auxiliary $\alpha 2\delta$ subunits of voltage-gated calcium channels in excitatory/inhibitory neurotransmission and network activity.	Anna Maria Ciuraszkiewicz (1), Arthur Bikbaev(1), Jennifer Heck(1), Romy Schneider(1), Martin Heine(1)
T7-8A	Foundations of high-fidelity synaptic transmission at intra-cortical synapses between layer 5 pyramidal neurons	Hartmut Schmidt (1), Grit Bornschein(1), Jens Eilers(1), Hartmut Schmidt(1)
T7-9A	Functional role of Bassoon at mouse cone photoreceptor ribbon synapses	Norbert Babai (1), Johann Helmut Brandstätter(1), Andreas Feigenspan(1)
T7-10A	retracted Functional spine analysis with Activity-based Automatic Region of interest Generation (AARG)	Charlie Jonathan Gilbride (1), Camin Dean(1)

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T7-11A	Glutamate dynamics in the cleft of Schaffer collateral synapses	Christian Schulze (1), Céline D. Düst(1), J. Simon Wiegert(1), Thomas G. Oertner(1)
T7-1B	Hippocampal output to the medial entorhinal cortex: functional monosynaptic projections to layer Va neurons	Franziska S. Lorenz (1), Andreas Draguhn(1), Alexei V. Egorov(1)
T7-2B	Imaging glutamate release at individual Schaffer collateral synapses	Céline D. Düst (1), Christian Schulze(1), J. Simon Wiegert(1), Thomas G. Oertner(1)
T7-3B	Impaired sound encoding in PSD-95 knockout mice	Gulnara Yamanbaeva (1), Sang Yong Jung(2), Man Ho Wong(3), Nicola Strenzke(4)
T7-4B	In vivo STED imaging of PDS-95 and Gephyrin in the visual cortex of the living mouse	Waja Wegner (12), Heinz Steffens(123), Katrin I. Willig(12)
T7-5B	In vivo time lapse imaging of axonal dense core vesicle trafficking in anaesthetized and awake mice	Johannes Knabbe (1), Joris Nassal(1), Heinz Horstmann(1), Matthijs Verhage(2), Thomas Kuner(1)
T7-6B	Interaction of Piccolino and RIBEYE at the photoreceptor ribbon synapse	Tanja Müller (1), Kaspar Gierke(1), Johann Helmut Brandstätter(1), Hanna Regus-Leidig(1)
T7-7B	Intracellular sodium loading under ischemic conditions in situ and in vivo	Niklas Jonny Gerkau (1), Cordula Rakers(2), Gabor C. Petzold(2), Christine Rosemarie Rose(1)
T7-8B	Multivariate Analysis of Synaptic Parameters at the Drosophila Neuromuscular Junction	Sebastian Sydlik (1), Martin Müller(1)
T7-9B	Nanoscopic Organization of Bassoon and Piccolo at the Active Zone of the Calyx of Held	Maja Klevanski (1), Frank Herrmannsdörfer(1), Thomas Kuner(1)
T7-10B	Nrg3 is a major Bace1 substrate and controls synaptogenesis.	Thomas Müller (1), Maria Sheean(1), Birgit Voigt(2), Stephanie Braud(3), Rene Jüttner(4), James Poulet(2), Jörg Geiger(3), Carmen Birchmeier(1)
T7-11B	Orientation and organization of Bassoon: from the Golgi to the synapse	Tina Ghelani (1), Fabian Göttfert(2), Rene Ebrecht(3), Fred Wouters(3), Thomas Dresbach(1)
T7-12B	Tight distribution of synaptic vesicle release sites generated by Unc13A limits and synchronizes neurotransmission	Alexander Matthias Walter (1), Suneel Reddy-Alla(2), Mathias Böhme(1,2), Eric Reynolds(2), Christina Beis(2), Malou Mampell(2), Ulises Rey(2), Tanja Matkovic(2), Meida Jusyte(1), Husam Babikir(2), Fabian Göttfert(3), Stephan Hell(3), Stephan Sigrist(2)
T7-1C	Periodic F-actin structures shape the neck of dendritic spines	Julia Bär (1), Oliver Kobler(2), Bas van Bommel(1), Anja Konietzny(1), Marina Mikhaylova(1)
T7-2C	Persistent sodium current modulates distal axonal excitability in CA1 neurons	Peter Müller (1), Andreas Draguhn(1), Alexei V. Egorov(1)
T7-3C	Presynaptic mitochondrial calcium release enhances short-term facilitation during brief high-frequency stimulation	Che Ho Yang (1), Won-Kyoung Ho(1), Suk-Ho Lee(1)
T7-4C	Regulation of activity-dependent compensatory endocytosis at central synapses by N-cadherin	Sushma Dagar (1), Bernd Van Stegen(1), Rebekka Ochs(2), Hermann Aberle(2), Kurt Gottmann(1)
T7-5C	Role of Bassoon in the regulation of synaptic vesicle pool size	Carolina Aida Montenegro Venegas (1), Eneko Pina(2), Maria Andres-Alonso(2), Eckart Gundelfinger(1), Anna Fejtova(2,3)
T7-6C	Role of the TrkB receptor kinase domain in ligand-independent TrkB transactivation	Rohini Gupta (1)
T7-7C	Separate pathways for high and low frequency signals in the cerebellar cortex	Isabelle Straub (1), Laurens Witter(1,2), Miriam Hoidis(1), Abdelmoneim Eshra(1), Niklas Byczkowicz(1), Igor Delvendahl(1,3), Kevin Dorgnas(4), Elise Savier(4), Ingo Bechmann(5),

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		Martin Krüger(5), Philippe Isope(4), Stefan Hallermann(1)
T7-8C	Single action potential evoked disynaptic inhibition in vivo	Jean-Sebastien Jouhanneau (1,2,4), Jens Kremkow(1,2,3,4), James F. A. Poulet(1,2)
T7-9C	Synaptic performance of lemniscal input fibers onto inferior colliculus neurons	Sina Brill (1), Eckhard Friauf(1)
T7-10C	Synaptic translation of neuroligin 1, 2 and 3	Bozena Kuzniewska (1), Joanna Podsiadlowska(1), Jacek Milek(1), Magdalena Dziembowska(1)
T7-11C	Systematic investigation of the roles of proteins with calcium-binding domains in synaptic transmission and presynaptic calcium buffering	Vanessa Maria Hoop (1), Martin Müller(1)
T7-1D	The discrepancy between the presynaptic vesicle fusion rate and the postsynaptic spike rate at the first auditory synapse	Ellen Reisinger (1), Rituparna Chakrabarti(2), Carolin Wichmann(2), Nicola Strenzke(3)
T7-2D	The impact of NKCC1-mediated GABAergic depolarization on the development of hippocampal network activity in mice	Jürgen Graf (1), Chuanqiang Zhang(1), Knut Kirmse(1), Otto W. Witte(1), Knut Holthoff(1)
T7-3D	The instantaneous time constant as a measure of conductance changes of neurons during excitatory synaptic inputs	Antonio Yanez (1), Timm Hondrich(1), Andreas Draguhn(1,2), Martin Both(1)
T7-4D	The presynaptic scaffold-Bassoon-acts as a master regulator of the ubiquitin-proteasome system	Sandra Kamila Fienko (1), Carolina Montenegro(2), Anna Fejtova(1,3)
T7-5D	The role of the Alanine-Serine-Cysteine-1 transporter in glycinergic transmission	Guillaume Mesuret (1,2), Sepideh Khabbazzadeh(1,2), Anne M. Bischoff(1,2), Herman Wolosker(3), Swen Hülsmann(1,2)
T7-6D	The SNAP-25 linker is an integral regulator of SNARE-mediated exocytosis.	Ahmed Shaaban (1)
T7-7D	moved to T7-12B Tight distribution of synaptic vesicle release sites generated by Unc13A limits and synchronizes neurotransmission	Alexander Matthias Walter (1), Suneel Reddy-Alla(2), Mathias Böhme(1,2), Eric Reynolds(2), Christina Beis(2), Malou Mampell(2), Ulises Rey(2), Tanja Matkovic(2), Meida Jusyte(1), Husam Babikir(2), Fabian Göttfert(3), Stephan Hell(3), Stephan Sigrist(2)
T7-8D	Ultrastructural analysis of rod photoreceptor ribbon synapses in a Piccolino KO rat	Kaspar Gierke (1), Tanja Müller(1), Craig Garner(2), Johann Helmut Brandstätter(1), Hanna Regus-Leidig(1)
T7-9D	VISUAL PROCESSING AND NETWORK REMODELLING WITHIN AN EPILEPTIC FOCUS IN MOUSE VISUAL CORTEX	Laura Restani (1), Eleonora Vannini(1), Alessandro Panarese(1,2), Alberto Mazzoni(2), Matteo Spinelli(1), Marco Milanese(3), Stefano Lai(2), Silvestro Micera(2,4), Matteo Caleo(1)
T7-10D	What guides Bruchpilot and RIM-binding protein into the active zone? A domain analysis of two presynaptic core components.	Astrid G. Petzoldt (1,2), Janine Lützkendorf(1), Suneel Reedy(1), Torsten Götz(1), Stephan Sigrist(1,2)
T7-11D	μ -opioid receptor-mediated attenuation of midline thalamic inputs to the amygdala	Lena Goedecke (1), Peter Blaesse(1), Hans-Christian Pape(1), Kay Jüngling(1)
T8-1A	Activity-dependent spatially-localized miRNA maturation in neuronal dendrites	Sivakumar Sambandan (1), Gueney Akbalik(1), Jennifer Rinne(2), Lisa Kochen(1), Josefine Kahlstatt(2), Georgi Tushev(1), Caspar Glock(1), Alexander Heckel(2,3), Erin Schuman(1,3)
T8-2A	Age-Dependent Effect of TH-9 on Synaptic Plasticity in the Rat Hippocampus in vitro	Samuel B. Kombian (1), Houda Nashawi(1), Tomas Bartl(2), Ladislav Novotny(3), Mabayoje Oriowo(4)
T8-3A	Array tomography – high-resolution localization of synaptic proteins in the honeybee brain	Thomas S. Muenz (1), Vivien Bauer(1,2), Christian Stigloher(3), Wolfgang Rössler(1)

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T8-4A	BDNF-dependent regulation of hippocampal neuron architecture, activity and plasticity upon Fingolimod treatment	Abhisarika Patnaik (1), Marta Zagrebelsky(1), Martin Korte(1)
T8-5A	Blockade of brain angiotensin II AT1 receptors abolishes capsaicin-mediated deficits in synaptic plasticity in mouse lateral amygdala	Christine Gebhardt (1), Doris Albrecht(1)
T8-6A	Chronic manipulation of activity at identified synapses	Mauro Pulin (1), Thomas G. Oertner(1), J. Simon Wiegert(1)
T8-7A	Contribution of single and multiple postsynaptic action potentials to dopamine signaling	Efrain Cepeda-Prado (1), Elke Edelmann(1), Volkmar Leßmann (1,2)
T8-8A	D1-like dopamine receptor activation affects the perisynaptic extracellular matrix in a protein kinase A - dependent manner	Jessica Mitlöhner (1), Alexander Dityatev(2,3), Constanze Seidenbecher(1,3), Renato Frischknecht(1,3)
T8-1B	Enhanced neuronal excitability and increased number of glutamatergic synapses promote network oscillations in a human stem cell-derived model of autism	Katharina Behr (1), Philippe Valmaggia(1), Ravi Jagasia(2), Josef Bischofberger(1)
T8-2B	Fast dynamics of endoplasmic reticulum in relation to spine plasticity	Alberto Perez Alvarez (1), Shuting Yin(1), Christian Schulze(1), John A Hammer III(2), Wolfgang Wagner(3), Thomas G. Oertner(1)
T8-3B	Ghrelin Stimulates Fyn-mediated Phosphorylation of GluN2B Subunit at Tyr-1336 through the activation of GHSR1a in the Rat Hippocampus	Masako Isokawa (1)
T8-4B	Hippocampal mossy fiber synapses represent individual computational units	Alexander Drakew (), Urban Maier(1), Michael Frotscher(1)
T8-5B	Homeostatic plasticity in the brain is facilitated by proteolysis of the extracellular matrix	Armand Blondiaux (1), Alessandra Pellerito(1), Eckart D. Gundelfinger(1), Constanze Seidenbecher(1), Renato Frischknecht(1)
T8-6B	Investigating Interactions of MicroRNAs and their Targets in Learning and Memory in the Honeybee (<i>Apis mellifera</i>)	Susanne Kraft (1), Julia Michely(1), Fabian Kobel(1), Uli Müller(1)
T8-7B	Local translation of actin-binding proteins in the central nervous system	Jonas Feuge (1), Martin Korte(1), Kristin Michaelsen-Preusse(1)
T8-1C	Long-term depression (LTD) at hippocampal mossy fiber-CA3 synapses in rodents is independent of BDNF signaling unlike Schaffer collateral-CA1 synapses	Machhindra Chandrakant Garad (1), Elke Edelmann(1,2), Volkmar Lessmann(1,2)
T8-2C	Madm controls synapse development and maintenance	Kumar Aavula (1,2), Ingrid Kieweg(2), Victoria Bulat(2), Jan Pielage(1,2)
T8-3C	Modulation of dendritic GABAA receptors rescues impaired NMDA receptor activation in a mouse model of Down Syndrome	Jan Michael Schulz (1), Frederic Knoflach(2), Maria-Clemencia Hernandez(2), Josef Bischofberger(1)
T8-4C	retracted Molecules of the excitatory postsynapse govern the duration of plastic phases during brain development	Oliver Marcus Schlüter (1)
T8-5C	Mover: A novel vertebrate-specific modulator of transmission at specialized synapses	Julio Viotti (1), Hermes Pofantis(1), Thomas Dresbach(1)
T8-6C	Novel mechanism for studying LTM formation: Behavioral Tagging	shruti vishnoi (1), Suhel Parvez(1)
T8-7C	Optogenetic manipulation of cyclic nucleotides and hippocampal synaptic plasticity	Oana Constantin (1), Ulrike Scheib(2), Daniel Udvari(1), Peter Hegemann(2), Thomas G. Oertner(1), Christine E. Gee(1)
T8-8C	Palmitoylation of Cdc42 maintains its neuronal functions	Alexander Wirth (1), Norihiko Yokoi(2), Masaki Fukata(2), Evgeni Ponimaskin(1)

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T8-1D	Tuning Synaptic Plasticity via Neurogranin-dependent Regulation of Neuronal Phosphoproteome and PP2B Activity	Weifeng Xu (1,2), Hongik Hwang (1,3,6), Mathew J. Szucs (5), Lei J. Ding (1,4), Fan Gao (1), Steven A. Carr (5), Rushdy Amhad (5)
T8-2D	Potential of input-output relationships during mGluR-dependent LTD at Schaffer collateral-CA1 synapses is mediated by endocannabinoid-dependent LTD of inhibitory synapses	Hye-Hyun Kim (1), Suk-Ho Lee(1), Won-Kyung Ho(1)
T8-3D	Priming of hippocampal synapses by dopamine	Annika Briese (1), Volkmar Leßmann(1,2), Elke Edelmann(1,2)
T8-4D	Repetitive magnetic stimulation modulates inhibitory neurotransmission	Maximilian Lenz (1,2), Christos Galanis(1,2,3), Florian Müller-Dahlhaus(4), Alexander Opitz(5), Corette J. Wierenga(6), Gábor Szabó(7), Ulf Ziemann(4), Thomas Deller(2), Klaus Funke(3), Andreas Vlachos(1)
T8-5D	Ultrastructural reorganization of recycling vesicle pools mediated by long-term plasticity in hippocampus	Stephanie Rey (1), Catherine Smith(1), Kevin Staras(1)
T8-6D	Unaltered hippocampal synaptic transmission and plasticity in mice deficient in the actin-binding protein Drebrin	Claudia Gisela Willmes (1,2,3), Till G. A. Mack(1), Julia Ledderose(1), Dietmar Schmitz(2,3), Christian Wozny(4), Britta J. Eickholt(1,2)
T8-7D	Within-gap recovery and rebound effects of LSO inputs	Elisa Krächan (1), Tatjana Schmitt(1), Martin Fuhr(1), Alexander Mehring(1), Isabelle Römer(1), Eckhard Friauf(1)
T9-1A	Absence of the astrocytic AP-2 disrupts intracellular calcium and sodium homeostasis and dysregulates glutamate uptake and lysosomal function.	Tania Lopez-Hernandez (1), Dmytro Puchkov (2), Eberhard Krause(3), Tanja Maritzen(1), Volker Haucke(1)
T9-2A	Analysis of microglial synaptic surveying territory in the stratum radiatum of CA1 of sedentary and exercised Wistar rats.	LANE VIANA KREJCOVA (1), JOAO BENTO TORRES(1), RUBEM CARLOS DE ARAUJO GUEDES(2), MARCUS AUGUSTO OLIVEIRA(1), VICTOR HUGH PERRY(3), CRISTOVAM PICANÇO DINIZ(1)
T9-3A	Ca ²⁺ -permeable AMPA receptors in periglomerular astrocytes of the mouse olfactory bulb	Damian Droste (1), Laura Seddar(1), Gerald Seifert(2), Christian Steinhäuser(2), Christian Lohr(1)
T9-4A	Carbachol-evoked astrocytic calcium signals in hippocampal slices	Tamar Smit (1), Wytse Wadman(1), Elly Hol(1,2)
T9-5A	Characterization of ion channels in astrocytes proliferating in response to acute brain injury	Stefanie Götz (1), Magdalena Götz(2), Benedikt Grothe(1), Lars Kunz(1)
T9-6A	Differences in the molecular structure of the blood-brain barrier in the cerebral cortex and white matter	Imola Wilhelm (1), Ádám Nyúl-Tóth(1), Maria Suci(2), Csilla Fazakas(1), János Haskó(1), Hildegard Herman(2), Attila E. Farkas(1), Mihály Kozma(1), Kinga Molnár(1), Anca Hermenean(2), István A. Krizbai(1)
T9-7A	Visualization of tetrapartite synapse: Towards understanding the logic of structural synaptic plasticity	Rahul Kaushik (1), Alexander Dityatev(1)
T9-1B	Expression of functional inhibitory neurotransmitter transporters and receptors in astrocytes of the inferior colliculus and the hippocampus	Julia Hammerich (1), Elsa Ghirardini(1,2,3), Vanessa Augustin(1), Jasmin Becker(1), Sina Brill(1), Jonathan Stephan(1)
T9-2B	Functional anisotropic panglial networks in the lateral superior olive	Vanessa Augustin (1), Charlotte Bold(1), Simon L. Wadle(1), Julia Langer(2), Ronald Jabs(3), Camille Philippot(3), Dennis J. Weingarten(1), Christine R. Rose(2), Christian Steinhäuser(3), Jonathan Stephan(1)
T9-3B	Glial activity patterns in memory-related networks of mice	Hannah Jakobi (1), Rolf Sprengel(1)
T9-4B	Intracellular ion signaling influences myelin basic protein synthesis in oligodendrocyte precursor cells	Jens Peter Hammann (1), Maike Friess(1), Petr Unichenko(1), Heiko J. Luhmann(1), Robin White(1), Sergei Kirischuk(1)

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T9-5B	Investigating the phenotype of microglia in an animal model of Autism Spectrum Disorder using Neuroligin-4 Knockout mice	Dilansu Güneykaya (1), Cagla Comert(1), Hannelore Ehrenreich(2), Nils Brose(3), Helmut Kettenmann(1), Susanne A. Wolf(1)
T9-6B	Noradrenaline suppresses a chloride current as well as phagocytosis in murine microglia	Michael Kittl (1,2), Martin Jakab(2), Tanja S. Steininger(1), Markus Ritter(2,3), Hubert H. Kerschbaum(1)
T9-1C	Oligodendrocyte-Specific Deletion of HIF1 α Leads to Dysfunctional Axonal Mitochondria	Iva D. Tzvetanova (1), Wiebke Moebius(1), Torben Ruhwedel(1), Andrea Trevisiol(1), Sharlen Moore(1,2), Klaus-Armin Nave(1)
T9-2C	Panglial gap-junctional coupling mediates calcium signaling between olfactory bulb glial cells	Antonia Beiersdorfer (1), Christian Lohr(1)
T9-3C	Phosphorylation of Focal Adhesion Kinase at Y925: Role in Radial Neuronal Migration	Lingzhen Song (1), Xuejun Chai(1), Shanting Zhao(2), Michael Frotscher(1)
T9-4C	Reelin from interneurons influences glial cell morphology and adult neurogenesis in the dentate gyrus	Jasmine Pahle (1), Anja Tippmann(2), Mary Muhia(1), Matthias Kneussel(1), Michael Frotscher(1), Bianka Brunne(1)
T9-5C	Regional heterogeneity in astrocyte sodium signaling	Daniel Ziemens (1), Christine R. Rose(1)
T9-6C	Septin filaments scaffold CNS myelin to accelerate nerve conduction	Hauke B. Werner (1), Stefan Tenzer(2), Michelle Erwig(1), Kathrin Kusch(1), Payam Dibaj(1), Wiebke Möbius(1), Sandra Goebbels(1), Nicole Schaeren-Wiemers(3), Klaus-Armin Nave(1), Julia Patzig(1)
T9-1D	Simultaneous activation of interferon-gamma and Toll-like receptors severely impairs neuronal network activity	Simone Daniela Schilling (1), Jan-Oliver Hollnagel(1), Andrea Lewen(1), Oliver Kann(1)
T9-2D	Small molecule mediated differentiation of hiPSCs derived NSCs towards astrocytes	Pretty Garg (1), Katja Nieweg(1)
T9-3D	Sodium signaling in white matter glial cells	Behrouz Moshrefi-Ravasdjani (1), Gerald Seifert(2), Christian Steinhäuser(2), Christine R. Rose(1)
T9-4D	The growth/differentiation factor GDF15 signals the sprouting of new astrocyte processes upon fluoxetine treatment	Barbara Di Benedetto (1), Victoria A Malik(1), Laura A Mittmann(1), Rainer Rupprecht(1), Inga D Neumann(2)
T9-5D	The impact of astrocytes morphology on their Ca ²⁺ characteristics	Andre Zeug (1), Franziska E. Müller(1), Volodymyr Cherkas(1), Evgeni Ponimaskin(1)
T9-6D	The role of PMP22 in CMT disease type 1A	Friederike Arlt (1,5), Robert Fledrich(1,5), Ruth M. Stassart(1,2), Olaf Jahn(3), Klaus Armin Nave(1), Michael W. Sereda(1,4)
T10-1A	A deepening of actigraphic sleep quality and 24-h activity rhythm in adults with attention-deficit/hyperactivity disorder	Chiara Colombo (1), Lorenzo Tonetti(2), Andreas Conca(1), Giancarlo Giupponi(1), Vincenzo Natale(2)
T10-2A	Age-related hearing loss: Auditory plasticity gone too far? Understanding the relationship between the perineuronal net and glia within the auditory pathway in a mouse model of age-related hearing loss.	Shmma Quraishe (1), Genevieve Brixton(1), Bethan Impey(1), Edward T F Rogers(2), Carl Verschuur(3), Tracey A Newman(1)
T10-3A	Analysis of transcriptomic changes induced by mitochondrial complex II inhibitor in a neuronal cell line: focus on mitochondrial function with implications for neurodegenerative disorders	Ranganayaki Sathyanarayanan (1), Santosh Narwade(2), Deepthi Deobagkar(2), Gayathri Narayanappa(1), Srinivas Bharath(1)
T10-4A	Comparison of percentages of neurons immunoreactive for NMDA receptor subunit 2A/B in the fusiform gyrus in people with autism spectrum disorder and a control group	Juliane T. Zimmermann (1), Steven A. Chance(2)
T10-5A	Deficiency of Latrophilin-3, a risk factor for Attention Deficit Hyperactivity Disorder, increases locomotor activity and alters learning and memory in mice	Olga Rivero (1), Niall Mortimer(1), Sandy Popp(1), Florian Freudenberg(2), Klaus Peter Lesch(1)

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T10-1B	Knock-out of Pthr2 causes abnormalities in cerebellar development and morphology	Sylvie Picker-Minh (), Magdalena John(1), Jessica Fassbender(1), Sami Zaqout(1), Angela Kaindl(1,3)
T10-2B	GABAergic substrate of abnormal prefrontal-hippocampal communication during development in a gene-environmental model of mental illness.	Mattia Chini (1), Christoph Lindemann(1), Henrike Hartung(1,2), Sebastian H. Bitzenhofer(1), Ileana L. Hanganu-Opatz(1)
T10-3B	Golgi-associated Cohen syndrome protein COH1 regulates neurite outgrowth in vitro	Stefanie Lommatzsch (1), Jirko Kühnisch(2), Tanja Maritzen(3), Denise Horn(4), Sebastian Bachmann(1), Volker Haucke(3), Wenke Seifert(1)
T10-4B	Identify dysregulated autophagy as cause for changes in synaptic functioning in Koolen de Vries syndrome	Katrin Linda (1)
T10-1C	Lack of Shank1 Leads to Cognitive Deficits, Reductions in Cortical Parvalbumin Expression, and Altered Hippocampal BDNF Levels Related to Epigenetic Modifications in Mice	Ayse Özge Sungur (1), Federica Filice(2), Magdalena CE Jochner(1), Karl Jakob Vörckel(1), Hani Harb(3), Ayse Kilic(3), Holger Garn(3), Rainer KW Schwarting(1), Beat Schwaller(2), Markus Wöhr(1)
T10-2C	Neuronal networks on Micro-Electrode Arrays: a model to study Neurodevelopmental Disorders	Monica Frega (1,2), Katrin Linda(2,3), Britt Mossink(3), Jason Keller(1,2), Dirk Schubert(1,2), Nael Nadif Kasri(1,2,3)
T10-3C	Neuronal redox imbalance in Rett syndrome: a key player in neuronal network dysfunction and altered neurotransmitter responsiveness?	Karolina Can (1,2), Karina Festerling(2), Johan Tolö(1,3), Sebastian Kügler(1,3), Michael Müller(1,2)
T10-4C	Optogenetic studies on dysfunctions of striatal cholinergic interneurons in dystonia	Anne Bauer (1), Julia Gerstenberger(1), Franziska Richter(1), Angelika Richter(1)
T10-5C	Homozygous YME1L1 Mutation Causes Mitochondriopathy with Optic Atrophy and Mitochondrial Network Fragmentation	Bianca Hartmann (), Timothy Wai(4), Hao Hu(5,6), Thomas MacVicar(4), Luciana Musante(5), Björn Fischer-Zirnsak(7), Werner Stenzel(8), Ralph Gräf(9), Lambert van den Heuvel(10), Hans-Hilger Ropers(5), Thomas F. Wienker(5), Christoph Hübner(2), Thomas Langer(4), Angela M. Kaindl(1,2,3)
T10-6C	Loss of MeCP2 disrupts cell autonomous and autocrine BDNF signaling in mouse glutamatergic neurons	Charanya Sampathkumar (1), Yuan-Ju Wu(1), Mayur Vadhvani(1), Thorsten Trimbuch(1), Britta Eickholt(1), Christian Rosenmund(1)
T10-1D	Respiratory acidosis induces migration defects of neurons in cerebral cortex and hippocampus	Xuejun Chai (1), Lingzhen Song(1), Michael Frotscher(1)
T10-2D	Sex and Violence – Social phenotypes in Dnlg2 and 4 deficient Drosophila	Robert Kossen (1), Kristina Corthals(1), Alina S. Heukamp(1), Isabel Großhennig(1), Nina Hahn(1), Heribert Gras(1), Ralf Heinrich(1), Bart R.H. Geurten(1)
T10-3D	SOMATOSTATIN DISTRIBUTION IN THE ENTORHINAL CORTEX OF DELAYED AND SENESCENCE ACCELERATED MOUSE MODELS	NOEMI VILLASECA GONZÁLEZ (1), JOAQUIN GONZALEZ-FUENTES(1), CARMEN MOYA(1), LUCIA CASTRO-VAZQUEZ(1), M. VICTORIA LOZANO(1), VIRGINIA RODRIGUEZ-ROBLEDO(1), MANUEL J. SANTANDER-ORTEGA(1), PILAR MARCOS(1), M. MAR ARROYO-JIMENEZ(1)
T10-4D	Studying the long term neuropathological consequences of encephalopathy of prematurity in a small animal model	Bobbi Fleiss (1,2), Stephanie Sigaut(1), Luisa-Sophie Klein(3), Leslie Schwendimann(1), Juliette Van Steenwinkel(1), Dulcie Voesden(4), Jason P Perch(4), Anthony C Vernon(5), Thomas Schmitz(3), Pierre Gressens(1,2)
T10-5D	The hypoxia sensing pVHL-EGLN1-Hif1a pathway is critical for cerebellar granule cell migration	Jan A Kullmann (1), Niraj Trivedi(1), Danielle Howell (1), David J Solecki(1)
T10-6D	Homozygous ARHGEF2 gene mutation causes intellectual disability and midbrain-hindbrain malformation	ETHIRAJ RAVINDRAN
T11-1A	Acid sphingomyelinase inhibitor amitriptyline induces angiogenesis of cerebral microvascular cells by mechanisms involving the Notch pathway	Tanja Bergmann (1), Ayan Yusuf(1), Nina Hagemann(1), Dirk M. Hermann(1)

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T11-2A	alpha-Synuclein aggregation and spreading in mouse models of Parkinson's disease	Karina Joppe (1), Lars Tatenhorst(1), Karin Giller(2), Stefan Becker(2), Markus Zweckstetter(2), Mathias Bähr(1), Paul Lingor(1)
T11-3A	Altered autophagic pathway in TBK1-mutant Motor Neurons derived from human induced pluripotent stem cells	Alberto Catanese (1), Alena Ehrmann(1), Maria Demestre(1), Axel Freischmidt(2), Jochen Weishaupt(2), Francesco Roselli(1,2), Tobias Boeckers(1)
T11-4A	Altered hippocampal and cortical EEG frequency characteristics in the APPswePS1dE9 model of Alzheimer's disease	Marco Weiergräber (1), Julien Soos(1), Andreas Lundt(1), Carola Wormuth(1), Ralf Müller(2), Christina Henseler(1), Karl Broich(1), Dan Ehninger(3), Britta Haenisch(3), Anna Papazoglou(1)
T11-5A	Altered long-term potentiation in the hippocampus of PS19-P301S transgenic mice	Michael Bahr (1), Eva Harde(1), Ana Relo(1), Berthold Behl(1), Karsten Wicke(1), Maria Vasileva(1)
T11-6A	Assessment of The Neuroprotective Effects of Ezetimibe versus Simvastatin in Animal Model of Alzheimer's Induced Dementia	Mohamed Elgamal (1), Mohamed Salama(1), Mahmoud KhalafAllah(2), Mohamed Zalabia(2), Esraa Elsayed(1), Wael Mohamed (2), Mohamed Sobh(1)
T11-7A	BACE1 modulates synaptic transmission at the hippocampal mossy fiber synapse by regulating KV3.4 channels.	Stephanie Hartmann (1), Fang Zheng(1), Michele Constanze Kyncl(1), Sandra Lehnert(1), Carla D'Avanzo(2), Kerstin Völkl(1), Christian Alzheimer(1), Doo Yeon Kim(2), Tobias Huth(1)
T11-8A	Characterization of epileptiform activity in hippocampal slices	Maria Vasileva (1), Tanja Georgi(1), Karsten Wicke(1), Eva Harde(1)
T11-9A	Contextual fear learning and hippocampal plasticity in APP/PS1 mice	Georgia - Ioanna Kartalou (1,3), Thomas Endres(1), Gloria Hözl(1), Elke Edelmann(1,2), Kurt Gottmann(3), Volkmar Leßmann(1,2)
T11-10A	Contralateral BoNT-A injection in the striatum of 6-OHDA hemilesioned rats give evidence for long lasting effects on basal ganglia circuitry	Alexander Hawlitschka (1), Andreas Wree(1)
T11-11A	Could hyperhomocysteinemia affects neurodegeneration after ischemia/reperfusion injury of rat brain?: An experimental model of a possible development of Alzheimer's disease	Maria Kovalska (1), Barbara Tothova(2), Dagmar Kalenska(2), Marian Adamkov(1), Jan Lehotsky(2,3)
T11-12A	Cuprizone induced de- and remyelination in the spinal cord of transgenic mice	Phillip Rieder (1), Andreea Pantiru(1,2), Babette Fuss(3), Anja Scheller(1), Frank Kirchhoff(1)
T11-13A	Detailed classification of epileptiform activity reveals anti-correlation between severe and mild epileptic bursts.	Katharina Heining (1,2), Janz Philipp(3), Antje Kiliass(1,2), Carola Haas(2,3), Ulrich Eger(1,2)
T11-14A	Developing an isogenic neuron-astrocyte model to study the isoform-specific effect of APOE in late-onset Alzheimer's Disease	Shadaan Zulfiqar (1), Katja Nieweg(1)
T11-15A	Poly(Propylene Imine)dendrimers inhibit RT-QuIC based in vitro amplification of prion protein	Niccoló Candelise (1), Susana Margarida da Silva Correia(1), Dietmar Appelhans(2), Matthias Schmitz(1), Inga Zerr(1)
T11-1B	Development of Parkinsonian pathophysiology on the single unit level: a rat 6-OHDA study	Zifeng Xia (1,2), Frank W Ohl(1,2), Michael Lippert(1), Kentaroh Takagaki(1)
T11-2B	'Disease Modeling in a dish' for sporadic Amyotrophic Lateral Sclerosis using Human Embryonic Stem Cells derived Motor Neurons.	Sumitha Rajendrarao (1), Sabitha K.R(1), Laxmi. T. Rao(1), Phalguni. A. Alladi(1), Nalini. A(2), Boris .W Kramer(3), Sathyaprabha T.N.(1), Raju T.R(1)
T11-3B	Disturbed GABAergic transmission in the cln3-/- mouse model of Batten disease	Benedikt Grünewald (1,2,3), Maren D. Lange(4), Christian Werner(1,3), Aet O`Leary(5), Andreas Weishaupt(3), Sandy Popp(6), David A. Pearce(7), Andreas Reif(5), Hans C. Pape(4), Klaus V. Toyka(3), Claudia Sommer(3), Christian Geis(1,2,3)
T11-4B	Early EEG abnormalities in a model of tauopathy	Peter Veselcic (1), Maria Vasileva(1), Eva Harde(1), Karsten Wicke(1)
T11-5B	Effect of caffeine and MDMA or methamphetamine combination on DA and 5-HT release and DNA damage in the mouse brain	Krystyna Golembiowska (1), Anna Gorska(1), Katarzyna Kaminska(1), Grzegorz Kreiner(2)

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T11-6B	Effect of galactose-rich diet on neurodegeneration in an animal model of multiple sclerosis	Kristina Kuhbandner (1), Sarah Hirschberg(2), Stefanie Jörg(1), Ralf Gold(2), Aiden Haghikia(2), Ralf A. Linker(1)
T11-7B	Effects of RGFP109, a specific Histone Deacetylase (HDAC) inhibitor, on neuronal health and rescue of transcription in neuronal culture model of Huntington's disease.	Ashraf Nabel Abdo (1,3,4), Miguel Angelo Lopes(1,3), Foteini Paraskevopoulou(2,3,4), Christian Rosenmund(2,3), Ferah Yildirim(1,3), ()
T11-8B	Evaluation of chronic nicotine treatment on hippocampal oscillatory activity and sleep pattern analysis of a G72 transgenic mouse model for schizophrenia	Anna Papazoglou (1), Andreas Lund(1), Julian Soós(1), Boris Hamsch(2), Andreas Zimmer(2), Karl Broich(1), Marco Weiergäber(1)
T11-9B	EXPERIMENTAL PACLITAXEL-INDUCED PERIPHERAL NEUROPATHY	Olga Gevka (1), Nataliia Luchkiv(1), Olena Deltsova(1), Sergii Gerashchenko(1), Mykola Ostrovskiy(1)
T11-10B	Functional impairment of cortical astrocytes in ALS-transgenic mice	Maximilian Bauer (1), Melisa Suljkanovic(1), Sabine Liebscher(1)
T11-11B	Inhibition of GABA A Receptor Improved Spatial Memory Impairment in the Local Model of Demyelination in Rat Hippocampus	Forough Ebrahim Tabar (1,2), Alireza Mousavi1 Mousavi(1,2), Arghavan Afghani1 Afghani(1,2), Sahand Ashraf Pour(1,2), Mohammad Gol(2), Fereshteh Pourabdolhossein1 Pourabdolhossein(1)
T11-12B	Graph properties of the functional connected brain under the influence of Alzheimer's disease	Claudia Bachmann (1), Heidi Jacobs(2,3,4), Kim Dillen(5), Simone Buttler(1), Gereon R Fink(5,6), Juraj Kukulja(5,6), Abigail Morrison(7,8)
T11-13B	Impaired synaptic plasticity and increased hyperexcitability in a mouse model of Alzheimer's disease	Eva Harde (1), Karsten Wicke(1), Maria Vasileva(1)
T11-14B	Intracellular Ca ²⁺ stores affect cortical visual processing in a mouse model of Alzheimer's disease	Nithi Asavapanumas (1), Bianca Brawek(1), Olga Garaschuk(1)
T11-15B	Intracellular transport steps involved in degradation of α -synuclein aggregates	Anna Maria Hilverling (1), Björn Falkenburger(1)
T11-16B	The role of cellular prion protein in Alzheimer's disease	Ângela Patricia Silva Correia (1), Tobias Thom(1), Matthias Schmitz(1), Inga Zerr(1)
T11-1C	Investigation of sleep architecture of G72/G30 Transgenic Mouse Model of Schizophrenia	Julien Soós (1), Anna Papazoglou(1), Andreas Lundt(1), Maheshwar Bakki(1), Andreas Zimmer(2), Karl Broich(1), Marco Weiergräber(1)
T11-2C	iPSC derived neurons as a human model to study altered AMPA receptor function in Niemann-Pick Type C1	Michael Rabenstein (1), Franziska Peter(1), Arndt Rolfs(1), Moritz J. Frech(1)
T11-3C	Lipid microdomain modification sustains neuronal viability in models of Alzheimer's disease	Silke Herzer (12), Sascha Meldner(1), Hermann-Josef Groene(1), Viola Nordstroem(12)
T11-4C	Live-Imaging of calcium-induced axonal degeneration in transgenic mouse models of Parkinson's Disease	Julius Christian Steenzen (1), Alexander Böcker(1), Mathias Bähr(1), Paul Lingor(1), Jan Koch(1)
T11-5C	Loss of tubulin- α -4a polyglutamylation in mice	Torben Johann Hausrat (1), Petra Breiden(1), Sabine Hoffmeister-Ullerich(2), Louisa Rathgeber(1), Irm Hermans-Borgmeyer(3), Matthias Kneussel(1)
T11-6C	Lower affinity of isradipine for L-type Ca ²⁺ channels during Substantia nigra dopamine neuron-like activity: implications for neuroprotection in Parkinson's disease	Nadine Jasmin Ortner (1), Gabriella Bock(1), Antonios Dougalis(2), Maria Kharitonova(1), Johanna Duda(2), Petronel Tuluc(1), Thomas Pomberger(1), Nadia Stefanova(3), Florian Pitterl(4), Thomas Ciossek(5), Herbert Oberacher(4), Henning J. Draheim(5), Birgit Liss(2), Jörg Striessnig(1)
T11-7C	Modeling of EEG time-series by Conditional Probability Echo State Networks.	Hannes Rapp (1), Martin Paul Nawrot(1), Moritz Deger(1)
T11-8C	Morphological alterations of cerebellar cells in Engrailed-2 transgenic mice: A Quick Golgi study	Nicoletta Czechowska (1), Jakob Jankowski(1), Christian Liebig(1), Michael Hofmann(2), Stephan L. Baader(1)

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T11-9C	Morphological and molecular changes in mossy fiber – CA2 connectivity in epilepsy	Midori Johnston (1,3), Philipp Janz(1,3), Carola A. Haas(1,2), Ute Häussler(1)
T11-10C	Neurochemical effect of vitamins C, E and DMSO combinations on the oxidative stress biomarkers and severity of ischemic stroke in albino rats	Nasiru Suleiman (1), Lawal Suleman Bilbis(2), Yusuf Saidu(3), Abdullahi Yahaya Abbas(3), Salisu Abdullahi Balarabe(4), Abdullahi Abubakar Ngaski(5), Salisu Buhari(6), Bulama Ibrahim(7), Aishat Ibrahim Danmalle(3)
T11-11C	Neuroethological and histological evidence for hereditary spastic paraplegia in zebrafish	Selina André (1), Ralf Heinrich(1), Roland Dosch(2), Bart R. H. Geurten(1)
T11-12C	Non-canonical role of autophagy in neurotrophin signalling and axonal homeostasis	Natalia L. Kononenko (1), Albert Negrete(1), Sujoy Bera(1)
T11-13C	Non-invasive imaging of early tissue damage and subsequent microstructural reorganization predicts the severity of hippocampal sclerosis in mesial temporal lobe epilepsy	Philipp Janz (1,4), Niels Schwaderlapp(2), Katharina Heining(3,4), Ute Häussler(1), Jan Korvink(5), Dominik von Elverfeldt(2), Jürgen Hennig(2,7), Ulrich Egert(3,6,7), Pierre LeVan(2,7), Carola A. Haas(1,6,7)
T11-14C	Overexpression of rAAV-mediated human alpha synuclein in the locus coeruleus (LC) leads to a neuronal loss in the nucleus ambiguus: A novel focal mouse model for prodromal Parkinson's disease?	Bolam Lee (1), Martin Henrich(1), Wei-Hua Chiu(1), Lina A. Matschke(1), Wolfgang H. Oertel(1)
T11-15C	retracted Quantification of intracellular protein levels in cationic lipid-mediated siRNA transfected primary neurons	Lenka Hromadkova (1,2), Birgitta Wiehager(3), Susanne Frykman(3), Lars Tjernberg(3), Sophia Schedin-Weiss(3)
T11-1D	Rescue of Gliosis in Niemann-Pick Type C1 Patient-Specific iPSC Derived Glia Cells	Franziska Peter (1), Michael Rabenstein(1), Arndt Rolfs(1), Moritz J Frech(1)
T11-2D	Reversal of pathologic lipid accumulation in NPC1-deficient neurons by drug-promoted exocytotic release of LAMP1-coated lamellar inclusions	Frank W. Pfrieder (1), Valerie Demais(2), Amelie Barthelemy(1), Martine Perraut(1), Nicole Ungerer(1), Celine Keime(3), Sophie Reibel(4)
T11-3D	Role of ULK1 in axonal degeneration and regeneration in cortical neurons in vitro	Björn Friedhelm Vahsen (1), Vinicius de Toledo Ribas(2), Christof Lenz(1,3), Uwe Michel(1), Henning Urlaub(1,3), Mathias Bähr(1,4), Paul Lingor(1,4)
T11-4D	PERFORMING DEEP BRAIN STIMULATION AND NEURAL RECORDINGS AT THE SAME TARGET FROM AWAKE ANIMALS: A NEW BIDIRECTIONAL WIRELESS DEVICE	Liana Melo-Thomas (1), Alexander Engelhardt(1), Uwe Thomas(2), Dirk Hoehl(2), Frank Bremmer(3), Rainer Schwarting(1)
T11-5D	SK channels protect locus coeruleus neurons from rotenone induced toxicity: A new target to treat premotor Parkinson's disease	Lina Anita Matschke (1,2), Susanne Rinné(1), Wei-Hua Chiu(3), Martin Henrich(2), Carsten Culmsee (4), Wolfgang H. Oertel (2), Amalia M. Dolga(5), Niels Decher(1)
T11-6D	Source localization based on multi-electrode local field potentials	Robin Pauli (1,2), Abigail Morrison(1,2,3), Tom Tetzleff(1,2)
T11-7D	Spatial memory impairment and hippocampal cell loss induced by okadaic acid	Mariam Chighladze (1), Khatuna Rusadze(001)
T11-8D	retracted Structural alterations of layer V pyramidal neurons in motor cortex of awake, behaving ALS-transgenic mice	Melisa Suljkanovic (1), Tamara Kiwitt(1), Sabine Liebscher(1)
T11-9D	Targeted overexpression of A53T- α -synuclein induces progressive neurodegeneration and electrophysiological changes of noradrenergic locus coeruleus neurons – a preclinical model of Parkinson's disease	Martin Timo Henrich (1,5), Lina Anita Matschke(1,2,5), Annette Stoehr(2), Wei-Hua Chiu(3), Bolam Lee(1), Fanni Fruzsina Geibl(1), James Koprach(4), Niels Decher(2,6), Wolfgang Hermann Oertel(1,6)
T11-10D	The effect of cerebral ischemia-reperfusion injury to the methylation of DNA in homocysteine-treated rats	Barbara Tóthová (1), Mária Kovalská(2), Dagmar Kalenská(1), Ján Lehotský(1,3)

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T11-11D	THE INFERIOR COLLICULUS: AN ALTERNATIVE STRUCTURE FOR DEEP BRAIN STIMULATION IN PARKINSON'S DISEASE?	Karl-Alexander Engelhardt (1), Rainer K. W. Schwarting(1), Liana Melo-Thomas(1)
T11-12D	Impaired glucose metabolism in the brain depends on the nature of the activation and damage of astroglial cells and dysregulated neurogenesis	Yulia Komleva (1), Yana Gorina(1), Olga Lopatina(1), Anatoly Chernykh(1), Alla Salmina(1)
T11-13D	Treatment with probiotics, thiamine and melatonin ameliorates aluminum-induced neurotoxicity in rats	Dmitrii Pavlov (1), Anna Gorlova(1), Eugenu Zubkov(2), Anna Morozova(2), Tatyana Cherdyntseva(1), Olga Karpuchina(1), Anatoly Inozemtsev(1), Tatyana Strekalova(3), Vladimir Chekhonin(2)
T11-14D	Trial-by-trial variability: a new marker for visual hallucinations in Parkinson's disease?	Kristina Miloserdov (1,4), Carsten Schmidt-Samoa(1), Holger Sennhenn-Reulen(8,9), Christiane Weinrich(2), Claudia Trenkwalder(5,7), Kathrin Bürk(5,6), Mathias Bähr(2,4), Melanie Wilke(1,3,4)
T11-15D	X- ray diffraction and X-ray fluorescence on Parkinson's disease substantia nigra	Eleonora Carboni (1), Jan-David Nicolas(2), Tim Salditt(2), Paul Lingor(1)
T12-1A	Adolescent mouse offspring show microglial changes after prenatal immune activation in an animal model of schizophrenia	Manuela Eßlinger (1), Marie-Piere Manitz(1), Simone Wachholz(1), Jennifer Plümper(1), Georg Juckel(1,2), Astrid Friebe(1,2)
T12-2A	Altered ion currents in cerebellar granule cells in an in vitro model of neuronal injury.	Lubica Lacinova (1), Katarina Ondacova(1), Dana Jurkovicova(2)
T12-3A	Biomarker screening by an improved immunoblotting technique: Targeting autoantibodies of a peripheral neuropathy	Christian Peter Moritz (1), Juliette Svahn(2), Evelyne Federspiel(2), Jean-Philippe Camdessanché(2), Jean-Christophe Antoine(2)
T12-4A	Chronic neuroinflammation induced by influenza A virus infection and the role for hippocampal neuron morphology and function	Shirin Hosseini (1,2), Kristin Michaelsen-Preusse (1), Esther Wilk(3), Klaus Schughart(3), Martin Korte(1,2)
T12-5A	Differential interaction patterns of antisera to Neisseria gonorrhoeae and meningitidis and Chlamydia trachomatis with a human first trimester fetal brain multiprotein array	Abdullah Almamy (1), Christian Schwerk(2), Horst Schroten(2), Hiroshi Ishikawa(3), Abdul Rahman Asif(1), Bernhard Reuss(1)
T12-6A	ECTO-5'-NUCLEOTIDASE MEDIATES MIGRATION OF RAT CORTICAL ASTROCYTES IN SCRATCH WOUND ASSAY IN VITRO	Marija Adzic (1), Nadezda Nedeljkovic(1)
T12-7A	Effect of microglia depletion on neuronal survival and axon regeneration	Alexander Hilla (1), Dietmar Fischer(1)
T12-8A	Cross-talk between mitochondrial permeability transition and KATP ion channels in mediating neuroprotection	Suhel Parvez (1), Mohd. Waseem(1), Heena Tabassum(2)
T12-9A	Spinal versus brain microglial and macrophage activation traits determine the differential neuroinflammatory responses and analgesic effect of minocycline in chronic neuropathic pain	Li Tian (1), Zhilin Li(1), Hong Wei(2), Sami Piirainen(1), Antti Pertovaara(2)
T12-1B	Effects of Nymphaea lotus Linn on Structure of Hippocampal Neurons of Rats in Chronic Stress	Kameni Poumeni Mireille (1), Dzeufiet Djomeni Paul Désiré(1), Bilanda Claude Danielle(1), Mengue Ngadena Yolande Sandrine(1), Ngoungoure Madeleine Chantal(1), Mbolang Nguegan Lohik(1), Tchoupou Tchinda Huguette(1), Femoe Membe Ulrich(1), Kamtchouing Pierre(1)
T12-2B	Engineered hNCs for Targeting Spinal Cord Gliomas: A Neurobiology-based Therapeutic Approach	Yang D. Teng ()
T12-3B	ErbB2 inhibition as a novel treatment option for Traumatic Brain Injury	Akila Chandrasekar (1), Florian olde Heuvel(1), Komali Valishetti(1), Albert C Ludolph(1), Tobias M Böckers(2), Markus Huber-Lang(3), Francesco Roselli(1)
T12-4B	Erythropoietin dampens injury-induced microglial activity	Liane Wüstefeld (1), Hana Janova(1), Miso Mitkovski(2), Hong Pan(1), Umer Javed Butt(1), Debia Wakhloo(1), Klaus-Armin Nave(3,4), Hannelore Ehrenreich(1,4)

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T12-5B	EXPRESSION OF CD73, CD39 AND CD39L1 IN THE LUMBAR SPINAL CORD DURING THE COURSE OF EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS	Nadezda Nedeljkovic (1), Danijela Laketa(1), Marija Jovanovic(2), Ivana Bjelobaba(2), Irena Lavrnja(2)
T12-6B	Expression of NKG2D ligands in glioma stem cells in situ and in vitro	Charlotte Flüh (1), Vivian Adamski(1), Kirsten Hattermann(2), Guranda Chitadze(3), Michael Synowitz(1), Dieter Kabelitz(3), Janka Held-Feindt(1)
T12-7B	Ferritin in Microglia	Melanie Schürz (1), Nikolaus Bresgen(1), Clara Lipfert(1), Karin Oberascher(1), Hubert Kerschbaum(1)
T12-8B	Genetic ablation of CB2 receptors enhances neuropathic pain development via boosted leptin signaling in peripheral nerves	Chihiro Nozaki (1), Elisa Nent(1), Astrid Markert(1), Andreas Zimmer(1)
T12-1C	Immunization with S100 leads to increased complement activation in an experimental autoimmune glaucoma model	Sabrina Reinehr (1), Marcel Gandej(1), Jacqueline Reinhard(2), Gesa Stute(1), H Burkhard Dick(1), Andreas Faissner(2), Stephanie C Joachim(1)
T12-2C	Influence of acid sphingomyelinase deficiency on brain damage after mild focal ischemia in mice	Ayan Mohamud Yusuf (1), Nina Hagemann(1), Carlotta Martiny(1), Erich Gulbins(2), Richard Kolesnick(3), Dirk M. Hermann(1)
T12-3C	Microglia activation in the Interferon- α mouse model of depression	Alexandra Knorr (1,2), Simone Wachholz(2), Georg Juckel(2), Astrid Friebe(1,2)
T12-4C	Molecular pathophysiology of human anti-glutamate receptor 2 autoantibodies on AMPA-receptor mediated synaptic transmission	Christian Geis (1), Holger Haselmann(1), Christian Werner(1), Benedikt Grünwald(1), Sören Doose(2), Stefan Haller(3)
T12-5C	NO/cGMP signaling via Guanylyl Cyclase isoform 1 (NO-GC1) affects neuronal networks and blood-brain barrier integrity after traumatic brain injury in somatosensory cortex of mice	Qi Wang (1), Evanthia Mergia(2), Doris Koesling(2), Thomas Mittmann(1)
T12-6C	Occurrence of tau-reactive antibodies in plasma of cognitively normal individuals	Michala Kolarova (1), Lenka Hromadkova(1), Zuzana Bilkova(2), Ales Bartos(1), Urmi Sengupta(3), Rakez Kayed(3), Jan Ríchný(1)
T12-7C	Progranulin protects against exaggerated secondary consequences of experimental traumatic brain injury in mice	Regina Hummel (1), Lutz Menzel(1), Lisa Kleber(1), Carina Friedrich(1), Larissa Dangel(1), Katja Schmitz(4), Irmgard Tegeder(4), Michael K.E. Schaefer(1,3)
T12-8C	Atorvastatin mitigates neuroinflammation through downregulating cytokine and NF- κ B activity in PTZ-kindled mice	Nouroz Sehar (1), Sheikh Raisuddin(2), Nidhi B Agarwal(3)
T12-1D	Proteome profile of IL-17 and IL-18 in blood serum, cerebrospinal fluid and conditioned media of BM-MSC culture of ALS patients A	Joanna Magdalena Czarzasta (1), Mariusz Dziekonski(1,2), Anna Tutas(2,3), Joanna Wojtkiewicz(1,4), Wojciech Maksymowicz(3)
T12-2D	REGULATION OF NOD-LIKE RECEPTORS AND INFLAMMASOME ACTIVATION IN CEREBRAL ENDOTHELIAL CELLS	István A. Krizbai (1), Mihály Kozma(1), Kinga Molnár(1), Csilla Fazakas(1), Attila E. Farkas(1), János Haskó(1), Imola Wilhelm(1), Péter Nagyoszi(1), Ádám Nyúl-Tóth(1)
T12-3D	Removed perineuronal nets and damaged, but persisting GABAergic neurons in the ischaemia-affected nucleus reticularis thalami of wildtype and 3xTg mice	Wolfgang Härtig (1), Simon Appel(1), Anne Suttkus(1), Jens Grosche(2), Dominik Michalski(3)
T12-4D	Role of dopamine agonists in mitochondrial dysfunction mediated focal cerebral ischemia in rodents	Heena Tabassum (1), Syed Suhail Andrabi(2), Suhel Parvez(2)
T12-5D	Role of glial NF- κ B signalling in IL-1 β mediated central effects	Mareike Bernau (1), Helge Müller-Fielitz(1), Markus Schwaninger(1)
T12-6D	Role of the anti-inflammatory cytokine IL-37 in the brain	Niklas Lonnemann (1), Gayane Grigoryan(1), Charles A Dinarello(2), Martin Korte(1), Andreas Holz(1)
T12-7D	The comparison of glucose, lipid and nitric oxide metabolism parameters between schizophrenic patients with metabolic syndrome and internal medicine patients with metabolic syndrome	Nikolai Fattakhov (1,2,3), Ludmila Smirnova(1), Daria Parshukova(1), Daria Skuratovskaia(3), Larisa Litvinova(3), Arkadiy Semke(1), Svetlana Ivanova(1)

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T12-8D	The orphan cytokine receptor CRLF3 is involved in erythropoietin induced neuroprotection in <i>Tribolium castaneum</i>	Nina Hahn (1), Debbra Y. Knorr(1), Johannes Liebig(1), Liane Wüstefeld(2,3), Marita Büscher(4), Gregor Bucher(4), Hannelore Ehrenreich(2,3), Ralf Heinrich(1)
T13-1A	Anxiety-related behavior in Cre-mediated inducible Tph2 knockout (icko) mice	Benjamin Aboagye (1), Tillmann Weber (2,3), Dusan Bartsch(3), Klaus-Peter Lesch(1,4), Jonas Waider(1)
T13-2A	Behavior of dominant and submissive rats in the chronic informational stress and depression model	Tamar Matitaishvili (1), Tamar Domianidze(1), George Burdjanadze(1,2)
T13-3A	Behavioural, molecular and metabolic consequences of cholesterol-enriched diet and ameliorating effect of dicholine succinate	Ekaterina Veniaminova (1,2), Elena Shevtsova(3), Nataliia Markova(1,2,3), Anna Gorlova(4), Dmitrii Pavlov(4), Anna Morozova(5), Vladimir Chekhonin(5), Klaus-Peter Lesch(1,6), Daniel Anthony(7), Tatyana Strelakova(1)
T13-4A	Bipolar disorder: Neurobiological mechanisms in a virus-induced animal model	Dominik K. E. Beyer (1), Nadja Freund(1,2)
T13-5A	Both, early phase and later phase of life affect neuronal morphology in serotonin transporter deficient mice	Angelika G. Schmitt-Boehrer (1), Anna Kreis(1), Jann F. Kolter(1), Sandy Popp(1), Carina Bodden(2), Norbert Sachser(2), Esther Asan(3), Klaus-Peter Lesch(1)
T13-6A	Cacna1c haploinsufficiency leads to a developmental delay in the emission of isolation-induced ultrasonic vocalizations in rat pups	Rukhshona Kayumova (1), Theresa M. Kisko(1), Moria D. Braun(1), Christine Hohmeyer(2), Marcella Rietschel(2), Stephanie H. Witt(2), Rainer K.W. Schwarting(1), Markus Wöhr(1)
T13-7A	Effect of Lithium in the Glutamine synthetase (GS)- reporter mouse	Charlotte Mezö (1), Dominik K.E. Beyer(1), Andreas Fallgatter(1), Michael Schwarz(2), Nadja Freund(1,3)
T13-8A	Emotional regulation and social behavior: effects of oxytocin	Olga Lopatina (1), Yulia K. Komleva(1), Yana V. Gorina(1), Anna A. Shabalova(1), Alla B. Salmina(1)
T13-9A	EFFECTS OF SHORT-TERM NEONATAL HYPERTHERMIA IN KRUSHINSKY-MOLODKINA AUDIOGENIC SEIZURE PRONE RAT STRAIN.	Irina Fedotova (1), Natalya Surina(1), Georgy Nikolaev(1), Zoya Kostina(1), Inga Poletaeva(1)
T13-1B	Effects of CB1 receptors in the ventral tegmental area on the potentiation of morphine rewarding propertiesA	leila zarepour (1)
T13-2B	Effects of selective deletion of the gamma 2 subunit of GABAA receptor on the neuronal activity of dopaminergic cells	Aleksandra Trenk (1), Magdalena Walczak(1), David Engblom(2), Tomasz Blasiak(1)
T13-3B	moved to T13-9A EFFECTS OF SHORT-TERM NEONATAL HYPERTHERMIA IN KRUSHINSKY-MOLODKINA AUDIOGENIC SEIZURE PRONE RAT STRAIN.	Irina Fedotova (1), Natalya Surina(1), Georgy Nikolaev(1), Zoya Kostina(1), Inga Poletaeva(1)
T13-4B	Functional Network Differences between the ADHD and Normal Groups	Reza Khanbabaie (1), Masood Nemati Andavari(1), Ali Asgharnia(1), Mina Asadifar(1), Amirhossein Ghaderi(2), Mohamadali Nazari(2)
T13-5B	Haploinsufficient Cacna1c rats display increased anxiety-related behavior, impaired sensorimotor gating, and alterations in inflammatory markers	Moria Dening Braun (1), Theresa M. Kisko(1), Clara Raithel(1), Tobias M. Redecker(1), Christine Hohmeyer(2), Marcella Rietschel(2), Stephanie Witt(2), Rainer K. W. Schwarting(1), Holger Garn(3), Markus Wöhr(1)
T13-6B	Hippocampal disruption of NOS-I PDZ-interaction: Effects on learning and memory	Florian Freudenberg (1), Esin Candemir(1,2), Aet O'Leary(1), Lena Grünewald(1), Miriam Schneider(3), Andreas Reif(1)
T13-7B	Knockdown of the ADHD Candidate Gene Diras2 in murine neuronal primary cells	Lena Grünewald (1), Florian Freudenberg(1), Christoph Schartner(2), Heike Weber(1), Claus-Jürgen Scholz(3), Andreas Reif(1)
T13-8B	MORC1, a gene associated with early life-stress and depression - A study in the rodent brain	Annakarina Mundorf (1,2), Nadja Freund(1,2)
T13-1C	NEUROPEPTIDE S RECEPTOR-DEFICIENT MICE ARE MORE PRONE TO DEVELOP PTSD-LIKE FEAR MEMORY AFTER CORTICOSTERONE INJECTIONS.	Malgorzata Helena Kolodziejczyk (1), Markus Fendt(1,2)

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T13-2C	Periaqueductal gray/ dorsal raphe dopamine neurons control associative learning of fear	Florian Grössl (1), Thomas Munsch(2), Susanne Meis(2), Johannes Griessner(1), Pinelopi Pliota(1), Dominic Kargl(1), Sylvia Badurek(3), Klaus Kraitsy(3), Arash Rassoulpour(4), Volkmar Lessmann(2), Wulf Haubensak(1)
T13-3C	Post-weaning social isolation results in ultrasonic communication deficits, cognitive impairments and alterations in microRNA-dependent Ube3a1 function on neuronal plasticity in rodents: Implications for autism	Dominik Seffer (1), Henrike Rippberger(1), Jeremy Valluy(2), Silvia Bicker(2), Ayla Aksoy-Aksel(2), Martin Lackinger(2), Simon Sumer(2), Roberto Fiore(2), Tatjana Wüst(3), Franziska Mettge(4), Christoph Dieterich(4), Gerhard Schratt(2), Rainer K. W. Schwarting(1), Markus Wöhr(1)
T13-4C	retracted Role of orexin-2 and CB1 receptors within the periaqueductal gray matter in lateral hypothalamic-induced antinociception in rats	Somayeh Ezzatpanah (1), Zahra Reisi(1), Mohammad Hossein Esmaeili(1), Abbas Haghparast(1)
T13-5C	retracted Role of posterior parietal cortex in the recognition of self coordination	Sukwon Lee (1), Jawook Koo(1)
T13-6C	Self-regulatory behavior of rats being on different hierarchical level in chronic psychogenic stress model	Tamar Domianidze (1), Tamar Matitaishvili(1), George Burdjanadze(1,2), Mikheil Khananashvili(1)
T13-7C	Serotonin Transporter Dependent Activation of the Amygdala after Negative Stimuli: A fMRI Study in 5-HTT Knockout Mice	Jann Frederik Kolter (1,2), Markus F. Hildenbrand(3), Stephan Nauroth(2), Julian Bankmann(1), Klaus-Peter Lesch(2), Peter M. Jakob(4), Angelika G. Schmitt_Böhrer(1)
T13-8C	Sex-dependent Effects of Cacna1c Haploinsufficiency on Juvenile Social Play Behavior and 50-kHz Ultrasonic Vocalizations in Rats	Theresa Marie Kisko (1), Moria D Braun(1), M Bartz(1), A Pützer(1), C Hohmeyer(2), M Rietschel(2), SH Witt(2), Rainer KW Schwarting(1), Markus Wöhr(1)
T13-1D	Social impairments, olfactory dysfunction, and inattention in neuronal nitric oxide synthase (Nos1) knockdown mice	Aet O'Leary (1), Florian Freudenberg(1), Esin Candemir(1), Lena Grünewald(1), Andreas Reif(1)
T13-2D	Stress-induced aggression in mice and evidence for preventive effects of drugs with pro-neurogenetic activity	Nataliia Bazhenova (1,2), Jonas Waider(3), Dolores Bonopartes(4), Ekaterina Veniaminova(1,2), Nataliia Markova(1,2,5), João Costa-Nunes(4), Evgeniy Zubkov(6), Anna Gorlova(7), Dmitii Pavlov(7), Anna Morozova(6), Klaus-Peter Lesch(1,3), Tatyana Strekalova(1)
T13-3D	Sustained effect of ketamine is mediated by homeostatic regulation of synaptic function and reconfiguration of gene expression	Debarpan Guhathakurta (1), Santosh Pothula(2), Anna Fejtova(1,2,3)
T13-4D	The effect of arsenic exposure on learning and memory in rats of various age groups	Tamar Bikashvili (1), Tamar Lordkipanidze(1,2), Nana Gogichaishvili(2), Nino Pochkhidze(2)
T13-5D	The regulatory role of trace amine-associated receptor 1 in acute and chronic effects of nicotine	Mariia Dorofeikova (1), Antonina Dolgorukova(1), Artem Dorotenko(1), Raul R. Gainetdinov(1,2), Ilya Sukhanov(1,2)
T13-6D	Time-dependent modulation of visual motion prediction in humans.	Motoharu Takao (1)
T13-7D	Trace Amine-Associated Receptor 1 agonist attenuates adjunctive water drinking in rat model of compulsive behavior	Artem Dorotenko (1), Antonina Dolgorukova(1), Raul R. Gainetdinov(2), Ilya Sukhanov(1,2)
T13-8D	First report of interesting awake craniotomy of a famous musician in history; The suprasellar tumor surgery of Pianist Clara Haskil in 1942 without general anaesthesia	Elena Romana Gasenzer (1), Ayhan Kanat(2), Edmund A. M. Neugebauer(3)
T14-1A	Age-related and light-induced synaptic plasticity in the mushroom-body calyx of the buff-tailed bumblebee <i>Bombus terrestris</i>	Nadine Kraff (1), Johannes Spaethe(1), Wolfgang Rössler(1), Claudia Groh(1)
T14-2A	Colour opponent parallel pathways originate in <i>Drosophila</i> photoreceptor terminals	Christopher Schnaitmann (1), Vainö Haikala(1), Eva Abraham(1), Vitus Oberhauser(1), Thomas Thestrup(2), Oliver Griesbeck(2), Dierk F Reiff(1)

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T14-3A	GABAergic signaling shapes motion detecting circuits in <i>Drosophila</i>	Teresa Magdalena Lueffe (1), Luis Ramos Traslósheros(2), Yvette Fisher(3), Marion Silies(4)
T14-1B	Integration of polarized and chromatic sky-compass cues in the central complex of the desert locust	Uta Pegel (1), Keram Pfeiffer(1), Uwe Homberg(1)
T14-2B	Light intensity can override wavelength as an orientation cue during honeybee waggle dances	Niklas Kühn (1), Keram Pfeiffer(1)
T14-3B	Receptive field organization of neurons required for motion detection in the <i>Drosophila</i> visual system	Luis Giordano Ramos Traslósheros López (1,2), Sebastian Mauricio Molinda Obando(1,2), Marion Silies(1)
T14-4B	Receptive fields of polarization-sensitive neurons of the central complex in the desert locust	Frederick Zittrell (1), Keram Pfeiffer(1), Uwe Homberg(1)
T14-1C	Response properties of first-order interneurons in the fly visual system	Katja Sporar (1), Teresa Magdalena Lueffe(1), Burak Gür(1), Marion Silies(1)
T14-2C	Rhodopsin 7 (Rh7) is crucial for fine-tuning light sensitivity in <i>Drosophila melanogaster</i>	Pingkalai R Senthilan (1), Rudi Grebler(1), Christa Kistenpfennig(1,4), Matthias Schlichting(1,5), Christiane Hermann-Luibl(1), Joachim Bentrop(2), Stephan Schnewly(3), Charlotte Helfrich-Förster(1)
T14-3C	Saccadic strategy in walking <i>Drosophila melanogaster</i>	Kristina Corthals (1), Martin C. Göpfert(1), Bart R.H. Geurten(1)
T14-4C	Studying the Heterochrony of Central Complex Development	Max Stephen Farnworth (1,2), Marita Buescher(1), Nikolaus Dieter Bernhard Koniszewski(1,3), Gregor Bucher(1)
T14-1D	Systematic identification of ocellar ganglion interneurons and their projections in the brain of <i>Drosophila melanogaster</i>	Jens Goldammer (1), Gerald M. Rubin(1), Kei Ito(2)
T14-2D	Temporal dynamics of E-vector responses of CL1 neurons of the desert locust <i>Schistocerca gregaria</i>	Ronja Hensgen (1), Keram Pfeiffer(1), Uwe Homberg(1)
T14-3D	The distance code in honeybee waggle dance	Randolf Menzel (1)
T15-1A	A possible role for ON-bipolar cells in congenital nystagmus	Maj-Britt Hölzel (1), Maarten Kamermans(2)
T15-2A	AAV mediated PTPN11 knockdown stimulates TrkB activity in neuronal cells in culture and in rat retina	Nitin Chitranshi (1), Vivek Gupta(1), Yogita Dheer(1), Stuart Graham(1)
T15-3A	Analysing spatial integration in the mouse retina	Dimokratis Karamanlis (1,2,3), Tim Gollisch(1,2)
T15-4A	Combining In-vivo and Ex-vivo Methods for Studying Blood-Brain Barrier Passage of Nanoparticles	Mohamed Tawfik Mohamed Tawfik (1)
T15-5A	Connectivity map of outer retinal neurons in the mouse	Timm Schubert (1,2), Christian Behrens(1,3), Yue Zhang(4), Silke Haverkamp(5), Thomas Euler(1,2,3), Philipp Berens(1,2,3)
T15-6A	Differential localization of CaMKII- α and - β indicates CaMKII- β as a specific element in connexin36-containing gap junctions	Stephan Tetenborg (1), Bianca Brügggen(2), Ulrike Janssen-Bienhold(3), Karin Derek(4)
T15-7A	Effect of early eye removal on the morphology of a multisensory neuron in the chicken optic tectum	Stefan Weigel (1), Katharina Lischka(1), Jiamin Yan(1), Harald Luksch(1)
T15-8A	Electrophysiological characteristics and background activity of retinal ganglion cells under rat model of artificial hyperglycemia	Nataliia Martyniuk ()

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T15-1B	Expression patterns of NF200, Nav1.6, Ankyrin G and related proteins in a multimodal cell type of the avian optic tectum	Katharina Lischka (1), Simone Ladel(1), Harald Luksch(1), Stefan Weigel(1)
T15-2B	Functional characterization of the signal processing chain in the mouse early visual system	Miroslav Román Rosón (1,2,3,5), Philipp Berens(1,2,3,4), Yannik Bauer(1,5), Thomas Euler(1,2,3), Laura Busse(5)
T15-3B	Functional diversity of mouse retinal ganglion cells in 4096-electrode CMOS array recordings	Fernando Rozenblit (1,2), Vidhyasankar Krishnamoorthy(1,2), Tim Gollisch(1,2)
T15-4B	HDAC6 inhibition by tubastatin A protects retinal cells against oxidative stress and induces autophagic clearance	Janina Leyk (1), Christiane Richter-Landsberg(1)
T15-5B	Linear and nonlinear chromatic integration in the mouse retina.	Mohammad Hossein Khani (1,2,3), Tim Gollisch(1,2)
T15-6B	Local signal processing in horizontal cells	Camille Anastasia Chapot (1,2,3), Christian Behrens(1,2,4), Philipp Berens(1,2,4), Sinziana Pop(5), Tom Baden(6), Thomas Euler(1,2,4), Timm Schubert(1,2)
T15-7B	Localization of the excitatory amino acid transporters EAAT2 and EAAT5 in the neuronal network of the mouse retina	Stefan Esser (1), Anja Mataruga (1), Frank Müller (1)
T15-1C	Morphological and functional implications of the retina in multiple system atrophy	Kathrin Kaehler (1), Hartwig Seitter(1), Bettina Tschugg(1), Adolf M. Sandbichler(2), Edith Sturm(3), Nadia Stefanova(3), Alexandra Koschak(1)
T15-2C	On the role of common age-related beta-synuclein between visual cortex and neuroretina	Karina Hadrian (1,2), Katrin Brockhaus(2), Harutyun Melkonyan(2), Solon Thanos(2), Michael R Böhm(1)
T15-3C	Optimization of electroretinographic recording from the isolated and superfused murine retina.	Toni Schneider (1), Jan Niklas Lüke(1), Jürgen Hescheler(1), Felix Neumaier(1), Walid Albanna(1,2)
T15-4C	Optogenetics in the eye – development of a light-inducible gene therapy for pathological neovascularization	Sidney B. Cambridge (1), Eric Brandhorst(1,2), Hans-Peter Hammes(2)
T15-5C	Pericentrin, identified at the basal-body complex in mammalian photoreceptor cells, interacts with Nesprin protein Syne-2 in the retina	Andreas Gießl (1), Nathalie Falk(1), Kristin Kessler(2), Marlene Lösl(1), Johannes Glöckner(3), Karsten Boldt(3), Marius Ueffing(3), Ronald Roepmen(4), Christian Thiel(2), Angelika A. Noegel(5), Johann Helmut Brandstätter(1)
T15-6C	Response properties in bipolar cells and their impact on ganglion cells in the retina	Helene Marianne Schreyer (1,2), Michael Weick(1,2), Tim Gollisch(1,2)
T15-7C	Retinal ganglion cell activity of Cav1.4 mutant mice	Lucia Zanetti (1), Hartwig Seitter(1), Alexandra Koschak(1)
T15-1D	Rewiring of bipolar cells in a congenital stationary night blindness type 2 mouse model	Irem Kilicarslan (1), Hartwig Seitter(1), Enrica Strettoi(2), Alexandra Koschak(1)
T15-2D	Spike correlations indicate electrical coupling between heterotypic ganglion cells	Christian Puller (1), Matthew I. Grivich(2), Alexander Sher(2), Greg D. Field(3), Jeffrey L. Gauthier(4), Alan M. Litke(2), E.J. Chichilnisky(5), Martin Greschner(1)
T15-3D	Spontaneous emergence of structured responses in a random neural network in-vitro	Manuel Schottdorf (1,2), Julian Vogel(1,2), Hecke Schrobsdorff(1), Walter Stühmer(2), Fred Wolf(1)
T15-4D	Synergy in random motion decoding from a population of direction-selective retinal ganglion cells	Norma Krystyna Kühn (1,2), Tim Gollisch(1,2)
T15-5D	THE DYNAMICS OF ADAPTATION PROCESS TO DIFFERENT LIGHT LEVELS IN THE MOUSE RETINA STUDIED WITH ELECTRORETINOGRAMS	Anneka Joachimsthaler (1,2), Tina Tsai(1,2), Jan Kremers(1)
T15-6D	Two-Photon Calcium Imaging of Dendritic Integration in Mouse Retinal Ganglion Cells	Yanli Ran (2,3), Katrin Franke(2,3), Tom Baden(1,2,3,4), Thomas Euler(1,2,3)

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T15-7D	Visualization of second messengers in the mouse retina using optogenetic sensors	Safaa Belaidi (1), Jana Gehlen(1), Anna Sieben(1), Frank Müller(1)
T15-8D	What can a small fish teach us about visual processing?	Ronen Segev (1)
T16-1A	Behavioural state modulation of inhibition is context-dependent and cell-type specific in mouse primary visual cortex	Janelle M.P. Pakan (1), Scott C. Lowe(2), Evelyn Dylida(1), Sander W. Keemink(2,3), Stephen P. Currie(1), Christopher A. Coutts(1), Nathalie L. Rochefort(1)
T16-2A	Binocular integration and disparity sensitivity in mouse visual cortex	Alessandro La Chioma (1), Tobias Bonhoeffer(1), Mark Hübener(1)
T16-3A	Biologically-inspired neural model for the adaptation of neurons in area IT	Martin A. Giese (1), Pradeep Kuravi(2), Rufin Vogels(2)
T16-4A	Changes in the spine density during the maturation of neural circuits in the visual cortex of wild-type and PSD-95 knockout mice	Rashad Yusifov (1,2), Ekaterina Ryazantseva(1), Man Ho Wong(2,3), Oliver Schlüter(3,4,5), Siegrid Löwel(1,4)
T16-5A	Circuit analysis of layer 2/3 pyramidal cells in mouse visual cortex	Simon Weiler (1), Tobias Rose(1), Mark Hübener(1), Tobias Bonhoeffer(1), Volker Scheuss(1)
T16-6A	Darpp-32 - a marker for principal neurons in teleosts	Lena Mareike Josefine Robra (), Vatsala Thirumalai(1)
T16-1B	Determining complex receptive field motion preferences in primate cortex area MSTd	Amr Maamoun (1), Stefan Treue(1,2,3)
T16-2B	Developmental synapse refinement in mouse visual cortex	Man Ho Wong (1,2,3), Yuzhang Liu(4), Rashad Yusifov(2,5), Siegrid Löwel(3,5), Oliver Schlüter(1,3,4)
T16-3B	Effectiveness of electrically evoked input depends on the gamma-phase of the receiving population in monkey area V4	Eric Drebitz (1), Heiko Stemmann(1), Andreas K. Kreiter(1)
T16-4B	Environmental enrichment accelerates ocular dominance plasticity in mouse visual cortex; putting animals back to a standard cage results in a rapid loss of this plasticity	Evgenia Kalogeraki (1,2), Siegrid Löwel(1)
T16-5B	Imaging of spine dynamics in the visual cortex of awake PSD-95 knockout and wild type mice	Anja Tippmann (1), Bettina Joachimsthaler(2), Cornelius Schwarz(2), Oliver Schlüter(3,4,5), Siegrid Löwel(1,5)
T16-6B	Synaptic correlates of the predictive coding of form and motion in V1	Marc Pananceau (1), Xoana G Troncoso(1), Benoit Le Bec(1), Christophe Desbois(1), Yves Fregnac(1)
T16-1C	Is the contribution of visual feedback on grasping activity similar in the grasping areas of the dorsal visual stream?	Marina De Vitis (1), Rossella Breveglieri(1), Sofia Briganti(1), Annalisa Bosco(1), Claudio Galletti(1), Patrizia Fattori(1)
T16-2C	Multiple thalamocortical axonal architectures converge in mouse visual cortical areas	Marian Evangelio (1), Francisco Clasca(1), Maria Garcia-Amado(1)
T16-3C	Neuronal response properties during the repetitive presentation of a visual stimulus in mouse V1	Evelyn Dylida (1), Janelle M.P. Pakan(1), Scott C. Lowe(2), Sander W. Keemink(2,3), Nathalie L. Rochefort(1)
T16-4C	Neuronal responses in the upper visual field of the rat Rulla S., Ng B., Wallace D.J., Kerr J.N.D.	Stefanie Rulla (1), Benedict Ng(1), Damian Wallace(1), Jason Kerr(1)
T16-5C	Postsynaptic scaffolds and visual stimulation fine-tune the development of glutamatergic synapses in visual cortex.	Plinio D. Favaro (1), Sophia K. Stodieck(2,3), Siegrid Löwel(2,4), Oliver M. Schlüter(1,4,5)
T16-6C	Recovery from vision loss in subacute stroke following tDCS treatment	Younes Adam Tabi (1), Raimund Alber(1,2), Hermann Moser(2), Carolin Gall(1), Moritz Dannheimer(2), Bernhard A. Sabel(2)

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T16-1D	Response modulation by spatial attention in area MT of primate visual cortex is not mediated by the cholinergic system.	Jordi Aguila (1), Vera Veith(1), Clíodhna Quigley(1), Stefan Treue(1,2,3)
T16-2D	Response properties of neurons in the binocular visual cortex of PSD95 knockout mice in vivo	Susanne Dehmel (1), Kanishka Waghmare(1), Michael Weick(2), Xiaojie Huang(3), Man Ho Wong(4,5), Tim Golisch(2,6), Oliver M. Schlüter(3,4,6), Siegrid Löwel(1,6)
T16-3D	The potentials of the methanolic leaves extract of <i>Lannea schimperii</i> (HOSCHST. EX RICH) ENG. Aas a surface anaesthetic agent.	Hudu Mikail Garba (1), Akumka David Dezi(1), Muhammed Adamu(1)
T16-4D	The role of postsynaptic density protein 93 for visual cortical plasticity	Siegrid Löwel (1,5), Sophia S. Stodieck(1,2), Leon Hosang(1), Plinio D. Favaro(3), Oliver M. Schlüter(3,4,5)
T16-5D	Towards no-report readouts of conscious visual perception	Eva Poland (1), Iris Steinmann(1), Albert Lehr(2), Annekathrin Schacht(3,5), Arezoo Pooresmaeili(4,5), Melanie Wilke(1,5)
T16-6D	Visual pop-out in barn owls: From behavior to neural correlate	Julius Orłowski (1), Hermann Wagner(1)
T17-1A	Absence of the NO-sensitive guanylate cyclase isoform NO-GC1 or NO-GC2 protects cochlear inner hair cells and their synapses	Dorit Möhrle (1), Katrin Reimann(1), Nicole Eichert(1), Steffen Wolter(1), Markus Wolters(2), Evanthia Mergia(3), Doris Koesling(3), Andreas Friebe(4), Michaela Kuhn(4), Frank Schweda(5), Robert Feil(2), Marlies Knipper(1), Lukas Rüttiger(1)
T17-2A	Avoidance Behavior triggered by Cochlear Optogenetics	Alexander Dieter (1), Christian Wrobel(123), Gerhard Hoch(1), Marcus Jeschke(14), Tobias Moser(124)
T17-1B	Cochlear BDNF improves hearing acuity with sensory experience. Is this a prerequisite for adaptive homeostatic plasticity?	Marie Manthey (1), Dario Campanelli(1), Wibke Singer(1), Lukas Rüttiger(1), Marlies Knipper(1)
T17-1C	Sexual dimorphism in the auditory fovea of the duetting bushcricket <i>Ancylecha fenestrata</i> : anatomical basis and behavioral relevance	Jan Scherberich (1), Jennifer Hummel(1), Stefan Schöneich(2), Manuela Nowotny(1)
T17-1D	Stochastic resonance in an acoustically communicating insect	Zainab Ali Saad Abdelatti (1,2), Manfred Hartbauer(1)
T17-2D	Unravelling mechanotransduction in the locust ear: Evidence in favour of Inactive-Nanchung as the primary mechanotransduction ion channel.	Ben Warren (1), Tom Matheson(1)
T18-1A	A new model for the development of tinnitus-related hyperactivity based on adaptive stochastic resonance	Konstantin Tziridis (1), Patrick Krauss(1), Achim Schilling(1), Claus Metzner(2), Ulrich Hoppe(3), Holger Schulze(1)
T18-2A	Activation of the deaf auditory system triggers remodeling of the GABAergic but not the glutamatergic network	Nicole Rosskothén-Kuhl (1,2), Heika Hildebrandt(1), Robert-Benjamin Illing(1)
T18-3A	Characteristic molecular and functional biomarkers for tinnitus in humans	Benedikt Hofmeier (1), Ebrahim Saad Aldamer(1), Ulrike Ernemann(2), Florian Henningsdorf(2), Moritz Walter(1), John Thiericke(3), Stephan Wolpert(3), Lukas Rüttiger(1), Uwe Klose(2), Marlies Knipper(1)
T18-4A	Contralateral/ipsilateral postsynaptic potentials and binaural integration in midbrain single neurons	Jun Yan (1), Na He(1)
T18-5A	Distinct frequency-specific myelination patterns in gerbil, but not in mouse, adjust conduction velocity and synaptic transmission delay of action potentials in auditory brainstem neurons as an adaptation for ITD processing	Annette Stange-Marten (1), Alisha Nabel(1), Hilde Wohlfrom(1), Michael Pecka(1), Benedikt Grothe(1)
T18-6A	Echo-acoustic flow determines object representation in complex spatial layouts	Uwe Firzlaff (1), Wolfgang Greiter(1)
T18-7A	Effects of Early Hearing Experience on Functional Connectivity in Primary and Higher-Order Cortical Field	Prasandhya Astagiri Yusuf (1), Peter Hubka(1), Jochen Tillein(2,3), Andrej Kral(1)

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T18-8A	Effects of early sensory deprivation on the development of multisensory thalamocortical and intracortical connections	Julia U. Henschke (1), Anja M. Oelschlegel(2), Frank Angenstein(3), Frank W. Ohl(1), Jürgen Goldschmidt(1), Patrick O. Kanold(4), Eike Budinger(1)
T18-1B	Electrical Stimulation of the Mouse Auditory Midbrain	Gunnar Quass (1), Andrej Kral(1)
T18-2B	Electrophysiological and behavioral characterization of mice missing the auditory midbrain	Simone Kurt (1,2), Tingting Gao(2)
T18-3B	Functional specialization of mouse auditory midbrain neurons with different response patterns in processing of communication calls	Alexander Grigorievich Akimov (1), Marina Alexandrovna Egorova(1), Guenter Ehret(2)
T18-4B	Hearing dysfunction in otoferlin Ile515Thr mutant mice.	Maike Pelgrim (1), Gulnara Yamanbaeva(1), Marcus Jeschke(2), Ellen Reisinger(3), Nicola Strenzke(1)
T18-5B	Impact of optogenetically released dopamine on cortical processing in the Mongolian Gerbil	Michael G. K. Brunk (1), Frank W. Ohl(1,2,3), Michael T. Lippert(1), Max F. K. Happel(1)
T18-6B	Impaired topographic map refinement and synaptic strengthening of an inhibitory auditory microcircuit in deaf mice	Nicolas Müller (1), Mandy Sonntag(2), Eckhard Friauf(1)
T18-7B	Intracortical Microstimulation Modulates Oscillatory Responses to Concurrent Acoustical Stimulation in the Auditory Cortex	Mathias Benjamin Voigt (1), Andrej Kral(1)
T18-8B	Judgments of perceptual distance in the behaving mouse: physical properties versus valence of acoustic stimuli.	Chi Chen (1,2), Livia de Hoz(1)
T18-1C	Long lasting cellular adaptation in the medial superior olive induced by continuous noise exposure	Ida Siveke (1), Christian Leibold(2), Benedikt Grothe(2), Felix Felmy(3)
T18-2C	Long-term dynamics of sensory representations in mouse auditory cortex	Dominik Florian Aschauer (1), Jens-Bastian Eppler(2), Anna Chambers(1), Matthias Kaschube(2), Simon Rumpel(1)
T18-3C	Stability of sensory representations in the presence of synaptic turnover	Bastian Eppler (1,2), Dominik Aschauer(3), Anna Chambers(3), Simon Rumpel(3), Matthias Kaschube(1,2)
T18-4C	Membrane resonance phenomena in neurons of the superior olive complex	Felix Felmy (1), Linda Fischer(1), Christian Leibold(2)
T18-5C	Neurodegeneration and Cell Death Mechanisms in the Mouse Central Auditory System after Single or Repeated Noise Trauma	Ira Margitta Strübing (1), Felix Fröhlich(1), Arne Ernst(1), Dietmar Basta(1), Moritz Gröschel(1)
T18-6C	Neuronal responses to amplitude modulation in the bat auditory cortex	Lisa Martin (1), M. Jerome Beetz(1), Manfred Kössl(1), Julio C. Hechavarría(1)
T18-7C	Pre- and Post-Synaptic Cholinergic Modulation on Endbulbs of Held in the AVCN of Gerbils	Thomas Künzel (1), Charlene Gillet(1), Hannah Griebel(1), David Goyer(2), Stefanie Kurth(1)
T18-8C	Precise inhibition in the auditory brainstem fine tunes and facilitates action potential firing	Barbara Beiderbeck (1,2), Nicolas Müller(3), Michael H. Myoga(1), Eckhard Friauf(3), Benedikt Grothe(1,2), Michael Pecka(1)
T18-1D	retracted Presbycusis related Plasticity changes in the Hippocampus	Marlies Knipper (1), Angelika Kübler(1), Chengfang Chen(1), Hyun-Soon Geisler(1), Lukas Rüttiger(1), Wibke Singer(1)
T18-2D	Pressure Difference Receiving Ears Influence ITD Detection In The Auditory Brainstem Of Alligators. (A. Missispiensis)	Lutz Kettler (1), Catherine E. Carr(1)
T18-3D	Processing spatial depth in the auditory cortex of the fruit-eating bat Carollia perspicillata in the presence of natural acoustic jamming noise	M Jerome Beetz (1), Julio C Hechavarría(1), Manfred Kössl(1)

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T18-4D	Spectrotemporal plasticity of receptive fields by parvalbumin-positive interneurons in auditory cortex	Tina Reuter (1), K. Jannis Hildebrandt(1)
T18-5D	SPON receives excitatory input from Octopus cells and responds better to the onset of broadband sounds in vivo	Marcelo Gomez-Alvarez (1,3), Tobias Nyberg(2), Enrique Saldaña(3), Anna K Magnusson(1)
T18-6D	Temporal sound processing in the auditory cortex depends on both myelin integrity and oligodendrocyte-dependent metabolic support	Sharlen Moore (1,2), Wiebke Möbius(1), Iva Tzvetanova(1), Klaus-Armin Nave(1), Livia de Hoz(1)
T18-7D	The impact of impaired brainstem bifurcation on hearing	Steffen Wolter (1), Dorit Möhrle(1), Dennis Zelle(1), Marlies Knipper(1), Hannes Schmidt(2), Lukas Rüttiger(1)
T18-8D	Time scale of adaptation to tonal sequences in mouse auditory midbrain neurons	Marina Alexandrovna Egorova (1), Eugenia Sergeevna Malinina(1), Gleb Dmitrievich Khorunzhi(1), Guenter Ehret(2)
T19-1A	A calcium signaling 'fingerprint' in vomeronasal sensory neurons	Maximilian Nagel (1), David Fleck(1), Marc Spehr(1)
T19-2A	Activation of the mouse OR37 subsystem coincides with an attenuation of activity in the paraventricular nucleus of the hypothalamus	Jörg Strotmann (1), Bettina Klein(1), Verena Heinzmann(1), Anna-Maria Maier(1), Jan Deussing(2), Heinz Breer(1)
T19-3A	Ancestral amphibian V2R expression during metamorphosis	Adnan S. Syed (1), Alfredo Sansone(2), Thomas Hassenklöver(2), Ivan Manzini(2,3), Sigrun I. Korsching(1)
T19-4A	Automated Operant Olfactory Conditioning of Group-Housed Mice	Janine Reinert (1), Andreas T. Schaefer(2,3), Thomas Kuner(1)
T19-5A	Brush cells at the 'gastric groove' sense constituents of ingested food	Patricia Widmayer (1), Katja Hennemann(1), Lisa Hischer(1), Heinz Breer(1)
T19-6A	Calcium-imaging in the olfactory epithelium of <i>Danio rerio</i> reveals cell type-specific responses to different odorant classes	Milan Dieris (1), Daniel Kowatschew(1), Thomas Hassenklöver(2), Ivan Manzini(2), Sigrun Korsching(1)
T19-7A	CD36 is involved in fatty acid detection by the murine olfactory system.	Eva M. Neuhaus (1)
T19-8A	Chemo- and thermosensory signaling in the Grueneberg ganglion	Rosolino Bumbalo (1), Marilena Lieber(1), Lisa Schroeder(1), Yasemin Polat(1), Heinz Breer(1), Joerg Fleischer(1,2)
T19-9A	Default glomerular activity maps in the olfactory bulb of awake mice	Stefan Fink (1), Natalie Fomin-Thunemann(1), Joseph Brook Sheppard(1), Marie Estelle Schmidt(1), Olga Garaschuk(1)
T19-10A	Glomeruli of the OR37 subsystem possess a more stable interneuronal network than others	Anna-Maria Maier (1), Heinz Breer(1), Jörg Strotmann(1)
T19-11A	Illuminating the function of inhibitory microcircuits in the zebrafish homolog of olfactory cortex	Thomas Frank (1), Koichi Kawakami(2), Shin-ichi Higashijima(3), Rainer W Friedrich(1)
T19-1B	Impact of basal forebrain stimulation on olfactory bulb output in awake mice	Erik Böhm (1), Vanessa Schweda(1), Matt Wachowiak(2), Markus Rothermel(1)
T19-2B	Innate fear responses induced by pyrazine odors originated from wolf urine in deer and rats	Makoto Kashiwayanagi (1), Sadaharu Miyazono(1), Kazumi Osada(2)
T19-3B	Network Formation and Regeneration in the Olfactory System of <i>Xenopus laevis</i>	Lukas Weiss (1), Sara Joy Hawkins(1), Thomas Offner(1,2), Katarina Dittrich(1), Thomas Hassenklöver(1,2), Ivan Manzini(1,2)
T19-4B	P2Y1 receptor-mediated modulation of neuronal activity in the mouse olfactory bulb	Kristina Schulz (1), Christian Lohr(1), Daniela Hirnet(1)
T19-5B	Passive perception of odors modulates functional activity of human brain	Igor Zyma (1), Sergii Tukaiev(1), Mukola Makarchuk(1)

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T19-6B	The rat vomeronasal organ is a vitamin D target	Andrea Rodewald (1), Veronika M. Gebhart(1), Hartmut Oehring (1), Gustav Jirikowski(1)
T19-7B	Readout of electrical activity from calcium signals in vomeronasal sensory neurons of mice	Rudolf Degen (1), Marc Spehr(1)
T19-8B	The v1r-related Ora receptors are expressed in a specific spatial distributon in the major olfactory Organ of Danio rerio	Daniel Kowatschew (1), Dr. Shahrzad Bozorg Nia(1), Prof. Dr. Sigrun Korsching(1)
T19-9B	Wiring and information processing in an amphibian olfactory network	Thomas Offner (1,2), Thomas Hassenklöver(1,2), Sara J. Hawkins(1), Lukas Weiss(1), Katarina Dittrich(1,2), Ivan Manzini(1,2)
T19-10B	A challenge for a male noctuid moth? Discerning the female sex pheromone against the background of plant volatiles.	Elisa Schuh (1), Alexander Haverkamp(1), Bill S. Hansson(1), Silke Sachse(1)
T19-11B	A second insect olfactory center	Yasmin Klaas (1), Stefan Dippel(1,2), Martin Kollmann(1), Ernst A Wimmer(2), Joachim Schachtner(1)
T19-12B	cAMP modulates response sensitivity of Olfactory Receptor Neurons in Drosophila larvae.	Carlotta Martelli (1), Ulrike Pech(2), Atefeh Pooryasin(3), Andre' Fiala(1)
T19-1C	Categorization of olfactory, visual and olfactory-visual compound stimuli in mushroom body output neurons	Martin Fritz Strube-Bloss (1), Wolfgang Rössler(1)
T19-2C	Drosophila Kenyon Cell responses to asynchronous odorant mixtures	Georg Raiser (1,2), C.Giovanni Galizia(1), Paul Szyszka(1)
T19-3C	Functional Analysis of Interneurons and Projection Neurons in the Antennal Lobe Network of the American Cockroach.	Viktor Bardos (1,2), Rinaldo Betkiewicz(1), Moritz Deger(1), Jonas Klußmann(1,2), Jan Radermacher(1,2), Martin Nawrot(1), Peter Kloppenburg(1,2)
T19-4C	In search for candidate pheromone receptors in the desert locust Schistocerca gregaria	Pablo Pregitzer (1), Joerg Fleischer(2), Xingcong Jiang(1), Ewald Grosse-Wilde(3), Jürgen Krieger(2), Heinz Breer(1)
T19-5C	Microcircuits of a specialized olfactory glomerulus in Drosophila melanogaster	Lydia Gruber (1), Bill S. Hansson(1), Jürgen Rybak(1)
T19-6C	Modification of sex pheromone responses by plant volatiles in a male moth	Sylvia Anton (1), Fabienne Dupuy(2), Angela Rouyar(2), Denis Limousin(2), Thomas Bourgeois(2), Michel Renou(2)
T19-7C	Odor evoked calcium signals in functional compartments of olfactory local interneurons	Debora Fuscà (1), Andreas Pippow(1), Peter Kloppenburg(1)
T19-8C	Olfactory sensory neurons use temporal dynamics to encode odor identity	Daniel Münch (1), C. Giovanni Galizia(1)
T19-9C	Postmetamorphic plasticity of the mushroom bodies	Björn Trebels (1), Stefan Dippel(1,2), Ernst A Wimmer(2), Joachim Schachtner(1)
T19-10C	Post-stimulus activity in the olfactory pathway of Drosophila	Alja Lüdke (1), Georg Raiser(1), Johannes Nehr Korn(2), C. Giovanni Galizia(1), Andreas V.M. Herz(2), Paul Szyszka(1)
T19-11C	Putative odorant receptors in the desert locust Schistocerca gregaria	Joerg Fleischer (1), Pablo Pregitzer(2), Xingcong Jiang(2), Ewald Grosse-Wilde(3), Heinz Breer(2), Jürgen Krieger(1)
T19-12C	Role of sensory neuron membrane protein 1 (SNMP1) in pheromone detection of Heliothis virescens	Stefanie Blankenburg (1), Pablo Pregitzer(2), Monika Zielonka(2), Heinz Breer(2), Jürgen Krieger(1)
T19-1D	Sensilla specific and cell type specific expression of odorant binding proteins	Xingcong Jiang (1), Pablo Pregitzer(1), Ewald Grosse-Wilde(3), Jürgen Krieger(2), Heinz Breer(1)

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T19-2D	Separation of different pollen types by chemotactile sensing in <i>Bombus terrestris</i> – A new method for measuring chemotactile electroantennograms	Fabian Rüdener (1), Sara Leonhardt(1), Fabian Schmalz(2), Wolfgang Rössler(2), Martin Strube-Bloss(2)
T19-3D	Spatial and Temporal Aspects of Olfactory Computation in the Cockroach Antennal Lobe Network	Susanne Hindennach (1), Debora Fuscà(2), Deborah Nörling(2), Peter Kloppenburg(2), Martin Paul Nawrot(1)
T19-4D	Spatio-temporal activity patterns in response to colony odors in the antennal lobes of the ant <i>Camponotus floridanus</i>	Stefanie Neupert (1), Christoph J. Kleineidam(1)
T19-5D	Taste Reception in <i>Drosophila</i> Larvae: Cellular Architecture of the Terminal Organ	Anna Rist (1), Andreas Thum(1)
T19-6D	Temporal resolution of olfactory receptor neuron responses in <i>Drosophila</i>	Paul Szyszka (1), Alpha Renner(1), Alexander Egea-Weiss(1), Ole Lessmann(1), Aarti Sehdev(1), Yunusa Garba Mohammed(1), Christoph Johannes Kleineidam(1)
T19-7D	The molecular basis of olfaction in the leaf-cutting ant <i>Atta vollenweideri</i>	Carolina Gomez-Diaz (1), Bonnie Wall(1), Christoph J. Kleineidam(1)
T19-8D	The OIympiad, or: Behavioural faculties of stage 1 <i>Drosophila</i> larvae	Yi-chun Chen (1), Thomas Niewalda(1), Dimitri Berh(2), Pauline M. J. Fritsch(3), Bertram Gerber(1), Nina Hoyer(4), Jörg Kleber(1), Christian Klämbt(2), Christian König(5), Birgit Michels(1), Anton Miroschnikow(6), Kristen Mirth(7), Daisuke Miura(8), Nils Otto(2), Emmanouil Paisios(1), Michael J. Pankratz(6), Meike Petersen(4), Noel Ramsperger(9), Benjamin Risse(2), Timo Saumweber(1), Philipp Schlegel(6), Michael Schleyer(1), Peter Soba(4), Simon G. Sprecher(3), Teiichi Tanimura(8), Andreas S. Thum(9), Naoko Toshima(8), Ayse Yarali(5)
T19-9D	The role of additional chemosensory organs in the terrestrial hermit crab <i>Coenobita clypeatus</i>	Christine Missbach (1), Jakob Krieger(2), Ewald Grosse-Wilde(1), Markus Knaden(1), Steffen Harzsch(2), Bill S. Hansson(1)
T19-10D	There is no evidence for an Orco-based ionotropic pheromone transduction mechanism in the hawkmoth <i>Manduca sexta</i>	Robin Schumann (1), Andreas Nolte(1), Petra Gawalek(1), Sarah Körte(1), Achim Werckenthin(1), Jürgen Krieger(2), Monika Stengl(1)
T19-11D	Towards the deorphanization of candidate pheromone receptors in the desert locust <i>Schistocerca gregaria</i>	René-Sebastian Lemke (1), Pablo Pregitzer(2), Heinz Breer(2), Jürgen Krieger(1), Joerg Fleischer(1)
T19-12D	Revealing the valence of single olfactory sensory channels in <i>Drosophila melanogaster</i>	Tom Retzke (1), Markus Knaden(1), Bill S. Hansson(1)
T20-1A	An fMRI study of central effects of peripheral nerve injury-induced neuropathic pain in mice	Katja Sauer (1), Isabel Wank(1), Karl-Heinz Esser(2), Andreas Hess(1)
T20-2A	Cell-type and connectivity specific sub- and supra-threshold correlations of spontaneous activity in mouse layer 2/3 in vivo	Jens Kremkow (1,2,3,4), Jean-Sebastien Jouhanneau(1,2,4), James F. A. Poulet(1,2)
T20-3A	Cellular basis of motor-sensory modulation	Paul Naser (1), Vijayan Gangadharan(1), Rohini Kuner(1)
T20-4A	Cortical oscillatory patterns during acute and chronic pain in rodents	Céline Heintz (1), Linette Liqi Tan(1), Kiran Kumar Bali(1), Sanjeev Kaushalya(1), Hannah Monyer(2), Rohini Kuner(1)
T20-5A	Effects of optical activation of groups of sensory neurons in the femoral chordotonal organ of <i>D. melanogaster</i>	Alexander S. Chockley (1), Sara Ratican(1), Ansgar Büschges(1), Till Bockemühl(1)
T20-6A	Endoscopic in vivo imaging of thalamic neuronal ensembles mediating cortico-thalamo-cortical communication	Ivo Sonntag (1), Juan Carlos Boffi(1), Thomas Kuner(1)

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T20-7A	Epileptiform activity in the CNS of decapod Crustaceans following treatment with electrical current (electric stunning)	Ulf Bickmeyer (1), Torsten Fregin(1)
T20-8A	Evaluation of the effects of three kynurenic acid analogues on the neuronal nitrogen oxide synthase levels in the nitroglycerin model of migraine	Zsuzsanna Bohár (1,2), Klaudia Flóra Laborc(2), Eleonóra Spekker(2), Gábor Nagy-Grócz(1,3), Annamária Fejes-Szabó(1,2), Ferenc Fülöp(4,5), Árpád Párdutz(2), László Vécsei(1,2)
T20-9A	Excitability of dorsal root ganglia neurons in response to oxidized phospholipids	Julian Hugo (1,2), Corinna Martin(1,2), Beatrice Oehler(1,2), Robert Blum(2), Heike Rittner(1)
T20-1B	Functional magnet resonance tomography in NaV1.8-deficient mice upon cold and heat noxious stimulation: An investigation of activity and connectivity changes in central projection areas driven by the sensory neuron sodium channel NaV1.8.	Cornelia Ulrike Bettina Heindl-Erdmann (1), Katharina Zimmermann(2), Peter Reeh(3), Kay Brune(1), Andreas Hess(1)
T20-2B	Infrared motion detection in the brainstem of rattlesnakes (<i>Crotalus atrox</i>)	Maximilian S. Bothe (1), Harald Luksch(1), Hans Straka(2), Tobias Kohl(1)
T20-3B	Investigating peripheral nervous system interfaces for somatosensory stimulation	Jeroen Martinus Maria Buil (1), Hansjörg Scherberger(1,2)
T20-4B	Longitudinal analysis of structural and functional changes in peripheral circuits of Streptozotocin (STZ)-induced diabetic mice, mimicking the clinical symptoms of painful diabetic neuropathy	Johanna Philippine Helmstädter (1), Hongwei Zheng(2), Thomas Kuner(2), Rohini Kuner(1), Vijayan Gangadharan(1)
T20-5B	Low back pain model in mice and the impact of stress	Carmen La Porta (1), Rohini Kuner(1), Anke Tappe-Theodor(1)
T20-6B	Marker-less motion capture of antennal movement kinematics in honeybees and other Hymenopterans	Volker Dürr (1,2), Florian P. Schmidt(1,2), Tristan Walter(3), Simon M. Würth(1), Mario Botsch(2,3)
T20-7B	Mechanoreceptor arrangement at the antennal base helps crickets to differentiate between active and passive antennal touch	Stefan Schöneich (1)
T20-8B	Moderate anesthesia may promote the study of temporal coding in sensory cortices.	Tobias Bockhorst (1), Maik C. Stüttgen(2), Tobias A.S. Ewert(1), Cornelius Schwarz(2), Andreas K. Engel(1), Christiane Vahle-Hinz(1)
T20-1C	Neuronal Correlates of Social Representations in Freely Interacting Rats	Konstantin Hartmann (1), Michael Brecht(1)
T20-2C	Non-visual Functions of Opsins in <i>Drosophila</i> Larval Mechanosensors	Diego Giraldo (1), Damiano Zanini(1), Marta Andrés(2), Bart R. H. Geurten(1), Martin C. Göpfert(1)
T20-3C	Optogenetic neuromodulation of cortical circuits underlying nociception.	Linette Tan (1), Patric Pelzer(2), Wannan Tang(3), Céline Heintz(1), Vijayan Gangadharan(1), Herta Flor(4), Rolf Sprengel(3,5), Thomas Kuner(2), Rohini Kuner(1)
T20-4C	Order under the guise of chaos: functional neuroanatomy of the somatosensory cortex of the reeler mouse	Julien Guy (1), Alexandra Sachkova(1), Martin Möck(1), Mirko Witte(1), Robin Wagener(2), Jochen Staiger(1)
T20-5C	Organization of the isthmus system in the western-diamondback Rattlesnake (<i>Crotalus atrox</i>)	Michael Josef Stefan Forsthofer (1), Harald Luksch(1), Tobias Kohl(1)
T20-6C	ORTHODROMIC AND ANTIDROMIC SPIKE PROROGATION AND DISSIMILAR EXPRESSION OF ATP-GATED AND CAPSAICIN-SENSITIVE CHANNELS IN TRIGEMINAL SENSORY FIBERS IN MENINGES	Kseniia Koroleva (1,2), Andrey Zakharov(2,3), Erkan Kilinc(1,4), Rashid Giniatullin(1,2)
T20-7C	Oxidized phospholipids acutely increase the firing rate of dorsal root ganglia neurons and induce pain behavior	Corinna Martin (1)
T20-8C	Passive versus active sensing: a giant descending interneuron in a stick insect conveying information about antennal movement.	Gaetan Lepreux (12), Stephan Suichi Haupt(1), Volker Dürr(12)

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T20-1D	Rate code and temporal code: complementing mechanisms in signalling rapidly varying stimuli in the rat's barrel cortex.	Christiane Vahle-Hinz (1), Tobias Bockhorst(1), Maik C. Stüttgen(2), Tobias A.S. Ewert(1), Cornelius Schwarz(2), Andreas K. Engel(1)
T20-2D	Resiniferatoxin administration reveals two distinct brain networks involved in nociceptive processing of the rat	Isabel Stefanie Wank (1), Lisa Kutsche(1), Silke Kreitz(1), Andreas Hess(1)
T20-3D	Responses of the femoral chordotonal organ of adult <i>Drosophila melanogaster</i> to vibrational stimuli	Joscha Arne Alt (1), Annalena Dobbert(1), Reinhard Lakes-Harlan(1)
T20-4D	Thalamocortical innervation of GABAergic interneurons in the mouse barrel cortex	Michael Feyerabend (1), Mirko Witte(1), Martin Möck(1), Jochen Staiger(1)
T20-5D	The role of the leech Anterior-Pagoda cell in tactile information processing	Sonja Meiser (1), Jutta Kretzberg(1)
T20-6D	Title: "Regulatory Mechanisms underlying motor neuron functional diversification"	Mudassar Nazar Khan (1,2), Ashish Rajput(1,3), Pithaiah Cherukuri(1), Piotr Fabrowski(1), Camille Lancelin(1), Stefan Bonn(1,3), Till Marquardt(1,4,5)
T20-7D	Untangling VIP neuron diversity: A quantitative analysis of firing patterns and the influence of neuromodulation	Alvar Prönneke (1), Martin Möck(1), Mirko Witte(1), Jochen F. Staiger(1)
T20-8D	Vibrosensory organs and vibration transmission over the legs of the cave cricket <i>Troglophilus neglectus</i>	Johannes Strauß (1), Reinhard Lakes-Harlan(1), Nataša Stritih(2)
T21-1A	A local, load-based mechanism for inter-leg coordination in insects	Chris J. Dallmann (1,2), Thierry Hoinville(1,2), Volker Dürr(1,2), Josef Schmitz(1,2)
T21-2A	Adaptive Motor Control: Task Specific Processing of Movement Feedback in the Curve Walking Insect.	Joscha Schmitz (1), Matthias Gruhn(1), Ansgar Büschges(1)
T21-3A	Anatomical and physiological specializations for high spike time precision in <i>Drosophila</i> flight steering motoneurons	Nina Eckl (1), Dario Music(1), Carsten Duch(1)
T21-4A	Antidromic action potentials alter information encoding in a sensory neuron	Margaret DeMaegd (1), Carola Städele(1), Wolfgang Stein(1)
T21-5A	Continuity in inter-leg coordination during walking in <i>Drosophila</i>	Till Bockemühl (1), Alexander S. Chockley(1), Ansgar Büschges(1)
T21-6A	Feedback integration on the fly – a numerical model for phase-coded locomotor control in flying insects	Jan Bartussek (1), Fritz-Olaf Lehmann(1)
T21-7A	Hexapedal Inter-Leg Coordination via Physical Coupling Only	Arne Gollin (1,2), Thierry Hoinville(1,2), Volker Duerr(1,2)
T21-1B	How angular velocity signals update a heading representation in the fly brain	Stephanie Wegener (1), Dan B. Turner-Evans(1), Hervé Rouault(1), Romain Franconville(1), Johannes D. Seelig(2), Shaul Druckmann(1), Vivek Jayaraman(1)
T21-2B	Motor control of <i>Drosophila</i> feeding behavior	Olivia Schwarz (1,2,3), Ali Asgar Bohra(4), Xinyu Liu(1,2), Heinrich Reichert(2), Krishnaswamy VijayRaghavan(4), Jan Pielage(1,2,3)
T21-3B	Neural Joint Control is Constrained and Assisted by Passive Dynamic Muscle Properties	Christoph Guschlbauer (1), Arndt von Twickel(1), Scott L. Hooper(2), Ansgar Büschges(1)
T21-4B	Pilocarpine evoked membrane potential and calcium oscillations in stick insect leg motoneurons do not depend on voltage-gated sodium currents	Charalampos Mantziaris (1), Jens Goldammer(2), Joachim Schmidt(1), Ansgar Büschges(1)
T21-5B	Sensory Basis of Force Direction Sensitivity of Motor Neurons in the Stick Insect Leg	Matthias Gruhn (1), Ansgar Büschges(1), Anna Dino(1)

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T21-6B	SOG-related influences on sensory-motor interactions in locust walking circuits	Einat Couzin-Fuchs (1), Johanna Wörner(1), Daniel Knebel(2), Paul Szyszka(1), Amir Ayali(2)
T21-7B	Thorax- and Leg-Segment Specificities in the Motor Output of the Turning Stick Insect <i>Carausius morosus</i>	Elzbieta Hammel (1), Ansgar Büschges(1), Matthias Gruhn(1)
T21-1C	A functional gradient in the rodent prefrontal cortex supports behavioral inhibition	Stefanie Hardung (1), Robert Epple(1,4), Zoe Jäckel(1,2), David Eriksson(1,2), Cem Uran(1,2), Verena Senn(5), Lihi Gibor(6), Ofer Yizhar(6), Ilka Diester(1,2,3)
T21-2C	A neural mechanism underlying swimming termination in lampreys	Swantje Grätsch (1,2,3), Francois Auclair(1), Danielle Veilleux(1), Ansgar Büschges(3), Réjean Dubuc(1,2)
T21-3C	A novel rotating beam test for detection of sensorimotor deficits in a knock-in mouse model of primary torsion dystonia	Julia Gerstenberger (1), Anne Bauer(1), Marieke Gringmuth(1), Franziska Richter(1), Angelika Richter(1)
T21-4C	Adaptation of motor activity in monkey motor, premotor and parietal cortices during BCI control of 3D reaches	Enrico Ferrea (1), Pierre Morel(1), Alexander Gail(1,2,3)
T21-5C	Automated experimenter-free analysis of motoric phenotypes in neurodegenerated knock-out rats	Svenja Nierwetberg (1), Christian Jung(2), York Winter(1)
T21-6C	Electrophysiological Characterization of VTA/SNc Neurons and Their Habenular Inputs in Lamprey	Arndt von Twickel (1,2), Wolfgang Walkowiak(1), Sten Grillner(2)
T21-7C	Encoding of movement force for decision and action in humans and monkeys	Pierre Morel (1), Philipp Ulbrich(1,2), Alexander Gail(1,2,3)
T21-1D	Functional Connectome of the Lateral Habenula-VTA/SNc Circuitry in Anuran Amphibians	Lars Freudenmacher (1), Wolfgang Walkowiak(1)
T21-2D	Interneuron regulation of motor cortical activity during the execution of a goal-directed forelimb push task in mice.	Julian Ammer (1), Julia Schiemann(1), Joshua Dacre(1), Brian Premchand(1), Janelle M Pakan(1), Nathalie L Rochefort(1), Ian Duguid(1)
T21-3D	Less predominant physical goal encoding and larger dynamical changes during movement control in monkey dorsal premotor cortex compared to parietal reach region	Hao Guo (1), Shenbing Kuang(1,2), Alexander Gail(1,3,4)
T21-4D	Limiting parental feedback disrupts vocal development in marmoset monkeys	Yasemin Betul Gultekin (1), Steffen R. Hage(1)
T21-5D	Mapping physical and structural MOp connectivity in ALS mouse model: an innovative approach to unmask the rules of neurodegeneration.	Barbara Commisso (1)
T21-6D	Optogenetic tools to study frontoparietal networks in non-human primates – a histological analysis.	Michal Grzegorz Fortuna (1), Janina Hüer(1), Hao Guo(1), Lara Timantra Schiller(2), Jochen Staiger(3), Jens Gruber(2), Hans Scherberger(4), Stefan Treue(1), Alexander Gail(1)
T21-7D	Task dependent modulations of the fronto-parietal spike-field coherence network of behaving primates	Swathi Sheshadri (1), Benjamin Dann(1), Hansjörg Scherberger(1,2)
T21-8D	Neural adaptations of the spinal cord evoked by constant motor skill experiences	Robin Diedrichs (1), Utku Yavuz(2), Francesco Negro(3), Deborah Falla(4), Arndt F. Schilling(5), Dario Farina(6)
T22-1A	Anatomy of the neuroendocrine system in <i>Euscorpis italicus</i>	Anja Dünnebeil (1), Nikola Giese(1), Andrea Wimer(1)
T22-2A	Behavioural and physiological functions of the brain-gut allatostatin A peptides in the <i>Drosophila</i> larva	Christian Wegener (1), Jiangtian Chen(1), Wencke Reiher(1), Gertrud Gramlich(1)
T22-3A	retracted Estrogen modulation of a sensorimotor circuit.	Luke Remage-Healey (1), Genglin Li(1), Joseph Starrett(1), Garrett Scarpa(1)

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T22-1B	Impact of PACAP/PAC1 signaling in stress and anxiety: Promising novel targets for the treatment of neuropsychiatric diseases	Veronica Fontebasso (1), Karl Ebner(1)
T22-2B	Morphologically different G-cells with neuropod-like processes in the antral region of the stomach	Claudia Frick (1), Amelie Rettenberger(1), Malena Lunz(1), Johanna Bruder(1), Hanna Martin(1), Kerstin Lang(1), Heinz Breer(1)
T22-3B	Noradrenergic modulation of hypothalamic neurons involved in energy homeostasis	Lars Paeger (1,2), Ismene Karakasilioti(2,3), Sophie Steculorum(2,3), Jens C. Brüning(2,3), Peter Kloppenburg(1,2)
T22-4B	Octopamine controls starvation resistance, life span and metabolic traits in Drosophila	Thomas Roeder (1), Yong Li(1), Jakob von Frieling(1), Stella Nolte(1), Hendrik Beck(1), Christine Fink(1)
T22-1C	Oxytocin Neurons Activity in Socially Interacting Rats	Yan Tang (1), Diego Benusiglio(2), Valery Grinevich(3)
T22-2C	Prosencephalic areas associated to the tonic immobility in pigeons (Columba livia): a c-Fos study.	José Marino-Neto (1), Cilene Lino-de-Oliveira(1), Fernando Falkenburger Melleu(1)
T22-3C	PVN Neurons in Mice: Identification, Characterisation, Localisation	Andreas Klein (1), Peter Kloppenburg(1)
T22-1D	Regulation of hypothalamic neuronal function by glucosylceramide synthase (GCS)-derived gangliosides	Viola Nordström (1,2), Silke Herzer(1,2), Sascha Meldner(1), Hermann-Josef Gröne(1)
T22-2D	SIFamide orchestrates orexigenic and anorexigenic peptidergic signals to promote appetitive and feeding behavior in Drosophila	Thomas Riemensperger (1), Ulrike Pech(1), Simon Kobbenbring(1), Dennis Pauls(2), Carlotta Martelli(1), Britta Bahl(1), Mirjam Sommer(1), Atefeh Pooryasin(1), Jonas Barth(1), Carmina WarthPerez Arias (1), Abud Farca Luna(1), Florian Richter(2), Christian Wegener(2), André Fiala(1)
T22-3D	The role of the endothelial cells in leptin transport into the brain	Alessandro Di Spiezio (1), Helge Müller-Fielitz(1), Markus Schwaninger(1)
T22-4D	The TRPM2 channel is a hypothalamic heat sensor that limits fever and can drive hypothermia	Jan Siemens (1), Kun Song(1), Hong Wang(1), Gretel Kamm(1), Jörg Pohle(1), Fernanda de Castro Reis(2), Paul Heppenstall(2), Hagen Wende(1)
T23-1A	Activation and Termination of Rhythmic Activity in a Locomotor Network	Felix Clotten (1), Carmen R. Smarandache-Wellmann(1)
T23-2A	Altered Properties of Sharp-Wave-Ripples in the Subiculum of Mice that Underwent Kainate-induced Status Epilepticus	Kristina Lippmann (1,2,7), Anna Maslarova(2,3,7), Zin-Juan Klaff(2), Seda Salar(2,4), Jan-Oliver Hollnagel(2,5), Anton Rösler(2), Uwe Heinemann(6)
T23-3A	Bistability and Complexity in the Cortical Network in vivo	Julia Franziska Weinert (1), Mattia D'Andola(1), Lorena Perez-Mendez(1), Adenauer Casali(2), Maria V. Sanchez-Vives(1,3)
T23-4A	Central and peripheral clocks are coupled by a neuropeptide pathway in Drosophila.	Mareike Selcho (1), Carola Millán(2), Angelina Palacios-Muñoz(2), Franziska Ruf(1), Lilian Ubillo(2), Jiangtian Chen(1), Gregor Bergmann(1), Chihiro Ito(3), Valeria Silva(2), John Ewer(2), Christian Wegener(1)
T23-5A	Characterization of parvalbumin (PV+) fast-spiking basket cells along the dorso-ventral axis of the medial entorhinal cortex	Sabine Grosse (1), Federico J Barreda (1), Sam Booker(2), Prateep Beed(3), Dietmar Schmitz(3,4,5,6), Imre Vida(1,4)
T23-6A	Characterization of the daily behavior in single hippocampal neurons	Sinem Meleknur Sertel (1,2), Silvio O. Rizzoli(1)
T23-7A	Circadian pacemaker neurons in the Madeira cockroach Rhyarobia maderae in vivo show a prominent evening peak in their electrical activity that is delayed and enhanced via pigment-dispersing factor	Monika Stengl (1), Julia Gestrich(1), HongYing Wei(1)

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T23-8A	Comparative analysis of the circadian clock in selected Diptera species.	Pamela Menegazzi (1), Enrico Bertolini(1), Marta Beauchamp(1), Charlotte Helfrich-Foerster(1)
T23-9A	Components of the molecular circadian clockwork in the cockroach <i>Rhyarobia maderae</i>	Achim Werckenthin (1), Susanne Koziarek(1), Markus Brand(1), Monika Stengl(1)
T23-1B	Consequences of altered dendritic arborization in hippocampal CA1 pyramidal cells—linking molecular signaling, neuronal morphology and electrical signatures	Jana Maurer (1), Daniela Mauceri(2), Antonio Yanez(1), Andreas Draguhn(1), Hilmar Bading(2), Martin Both(1)
T23-2B	Coordinated activity of mitral cells in the olfactory bulb controls the oscillatory entrainment of lateral entorhinal cortex during early development	Johanna Katharina Kostka (1), Sabine Gretenkord(1), Ileana L. Hanganu-Opatz(1)
T23-3B	Coordinated gamma oscillations in the lateral septum and the lateral hypothalamus drive food seeking	Marta Carus-Cadavieco (1), Maria Gorbati(1), Suzanne van der Veldt(1), Franziska Bender(1), Natalia Denisova(1), Franziska Ramm(1), Karl Deisseroth(2,3,4), Alexey Ponomarenko(1), Tatiana Korotkova(1)
T23-4B	Crosstalk between adipokinetic hormone and octopamine to modulate locomotor activity and sleep in <i>Drosophila melanogaster</i>	Dennis Pauls (1), Johanna Räderscheidt(1), Mareike Selcho(1), Christiane Hermann-Luibl(1), Charlotte Förster(1), Markus Krischke(2), Martin J. Müller(2), Christian Wegener(1)
T23-5B	Determination of the spike discharge pattern in interneurons and pyramidal cells: a proposal for a standardized experimental protocol.	Bernd Sutor (1), Therese Riedemann(1)
T23-6B	Differential tuning of neurons coordinating neural oscillators	Anna C. Schneider (1), Felix Blumenthal(1), Carmen R. Smarandache-Wellmann(1)
T23-7B	Electrophysiological and optogenetic methods to trace connections and inputs/outputs of the <i>Drosophila</i> clock	Edgar Buhl (1)
T23-8B	Expression pattern of the neurotransmitter GABA in the circadian clock of the Madeira cockroach <i>Rhyarobia maderae</i> with focus on GABA's role in light entrainment	Azar Massah (1), Monika Stengl(1)
T23-1C	Gamma-rhythmic input from medial prefrontal cortex to the lateral septum regulates performance in a food-rewarded learning task	Maria Gorbati (1), Yubin Hu(1), Marta Carus-Cadavieco(1), Franziska Bender(1), Alexey Ponomarenko(1), Tatiana Korotkova(1)
T23-2C	Gene Expression in the Plastic Brain of the Pygmy Shrew (<i>Sorex minutus</i>)	Moritz Hertel (1), Javier Lazaro(2), Marion Muturi(2), Bernd Timmermann(3), Dina Dechmann(2)
T23-3C	Gradient of Synaptic Strength: A Matter of Synapses?	Felix Blumenthal (1), Carmen R. Smarandache-Wellmann(1)
T23-4C	Homeostatic scaling of H-current in CA1 interneurons	Dmitri Yousef Yengej (1), Arnie Boender(1), Wytse Wadman(1)
T23-5C	Identification of several somatostatin-expressing interneuron subtypes in the anterior cingulate cortex of the mouse using quantitative classification.	Therese Riedemann (1), Bernd Sutor(1)
T23-6C	IH and IL involved in rhythm generation and coordination of neuronal activity	Laura Schläger (1), Carmen R. Smarandache-Wellmann(1)
T23-7C	Inferring Neuronal Couplings from Dynamic Single-Trial Spiking Data	Christian Donner (1,2,3), Klaus Obermayer(1,3), Manfred Opper(1,2)
T23-8C	Influence of carbachol on firing of dopaminergic neurons lacking NR1 subunit of NMDA receptor	Magdalena Walczak (1), Kamila Jastrzebska(2), Jan Rodriguez Parkitna(2), Tomasz Blasiak(1)
T23-1D	Intracellular calcium responses to the neurotransmitter GABA in circadian pacemaker neurons of the Madeira cockroach <i>Rhyarobia maderae</i>	Maria Giese (1), Julia Gestrich(1), HongYing Wei(1), Monika Stengl(1)

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T23-2D	Neuronal correlates of social behavior in mushroom body extrinsic neurons	Inga Fuchs (1), Aron Duer(1), Isabella Hillmer(2), Benjamin H Paffhausen(1), Randolph Menzel(1)
T23-3D	Optogenetic dissection of cellular interactions underlying prefrontal-hippocampal coupling in neonatal mice	Joachim Ahlbeck (1), Ileana L. Hanganu-Opatz(1)
T23-4D	Pigment-dispersing factor-immunoreactive neurons in the Madeira cockroach are differentially modulated via their own peptide	Julia Yvonne Gestrich (1), Wen Shen(2), Maria Giese(3), Monika Stengl(4), HongYing Wei(5)
T23-5D	Ripples in hippocampal inhibitory networks in silico and in vitro: Frequency dynamics and response to GABA modulators	Jose R. Donoso (1,2), Nikolaus Maier(3), Dietmar Schmitz(2,3), Richard Kempfer(1,2)
T23-6D	Slowing of theta band activity in the epileptic hippocampal formation	Antje Kilius (1,2), Ute Häussler(3), Katharina Heining(1,2), Carola A. Haas(2,3), Ulrich Egert(1,2)
T23-7D	The circadian clock of <i>C. floridanus</i> : PER and PDF expression in the brain	Janina Kay (1), Pamela Menegazzi(1), Eva Winnebeck(2), Charlotte Helfrich-Foerster(1)
T23-8D	retracted The EEG pattern in children with attention deficit hyperactivity disorder (ADHD)	Irma Khachidze (1), Victor Maloletnev(1), Manana Gugushvili(1)
T23-9D	Using Metabolic Stress for Characterization of Pyramidal Cell Ensembles during Hippocampal Gamma Oscillations	Shehabeldin Elzoheiry (1), Jan-Oliver Hollnagel(1), Andrea Lewen(1), Oliver Kann(1)
T24-1A	Ambient noise induces rapid changes in several call parameters in vocalizing marmoset monkeys	Thomas Pomberger (1,2), Cordula Gloge(1), Steffen R. Hage(1)
T24-2A	Assessing the role of barrel cortex parvalbumin-positive interneurons in whisker detection and discrimination behavior	Nuria Benito (1,2), Jens Raymond Vandeveld(1,2), Jenq-Wei Yang(1), Maik C. Stüttgen(2), Heiko J. Luhmann(1)
T24-3A	Attention changes firing properties of cells in the Central-complex of freely hunting praying mantises	Anne Wosnitza (1), Joshua P. Martin(2), Alan J. Pollack(1), David J. Bertsch(1), Roy E. Ritzmann(1)
T24-4A	Can DC stimulation enhance selective auditory spatial attention in cocktail-party situations? A combined tDCS, ERP and psychophysics study	Christina Hanenberg (1), Stephan Getzmann(1), Jörg Lewald(2)
T24-5A	Central amygdala circuit mediates observational transfer of fear	Kacper Kondrakiewicz (1), Karolina Rokosz(1), Karolina Ziegart-Sadowska(1), Joanna Sadowska(1), Ewelina Knapska(1)
T24-6A	Cognition, but not personality, is related to faecal stress hormone metabolites in the smallest non-human primate aging model (<i>Microcebus murinus</i>)	Daniel Schmidtke (1,2), Jennifer Wittkowski(1), Sandra Ammersdörfer(1,2), Michael Heistermann(3), Elke Zimmermann(1,2)
T24-7A	Comparative characteristics of auditory and visual emotion perception in the primary school age children and their impact on scholastic performance.	Elena Dmitrieva (1), Victor Gelman(2), Maria Anderson(3)
T24-8A	Changes of the c-fos and p-CREB/CREB ratio in the nucleus accumbens, hippocampus and prefrontal cortex during extinction and reinstatement of morphine-induced conditioned place preference: The role of NMDA receptor	Ali Siahposht-Khachaki
T24-1B	Comparison of Optogenetic and Electrical Intracranial Self-Stimulation of the VTA in Mice	Theresa Christiane Sofia Weidner (1), Daniel Vincenz(1), Marta Brocka(1), Jennifer Tegtmeyer(1), Jürgen Goldschmidt(1,2), Frank W. Ohl(1,2,3), Michael T. Lippert(1)
T24-2B	Effects of Reward-Associated, Task-Irrelevant Unimodal and Bimodal Distractors on Target-Directed Oculomotor Task	Felicia Pei-Hsin Cheng (1), Adem Saglam(1), Arezoo Pooresmaeili(1)
T24-3B	Electrophysiological signatures of negative and positive polarity processing in German sentence comprehension	Mingya Liu (1), Peter König(1), Jutta L. Mueller(1)

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T24-4B	Habenula and interpeduncular nucleus differentially modulate odor-induced innate fear behavior: in vivo SPECT-imaging and lesion studies	Jürgen Goldschmidt (1,2), Daniel Vincenz(1,2), Kerstin Wernecke(2,3), Markus Fendt(2,3)
T24-5B	Imaging the functional networks activated by optogenetic stimulation of the VTA in rats.	Marta Jadwiga Brocka (1), Daniel Vincenz(1), Cornelia Helbing(1), Jürgen Goldschmidt(1,3), Frank Ohl(1,2,3), Frank Angenstein(1,3,4), Michael Lippert(1)
T24-6B	In-hive monitoring of social communication by electrostatic fields in common honeybee colonies	Aron Duer (1), Karén Haink(1), Benjamin Paffhausen(1), Randolph Menzel(1)
T24-7B	Interactive effect of menstrual cycle and dopamine baseline levels on Stroop and N-back tasks.	Esmeralda Hidalgo-Lopez (1), Belinda Pletzer(1,2)
T24-8B	Medial orbitofrontal cortex mediates effort-related responding in rats	Alexandra Münster (1), Wolfgang Hauber(1)
T24-1C	Models of the emotional face perception - reproducibility and generalizability	Roman Kessler (1), Kristin M. Zimmermann(1), Kim C. Wende(1), Verena Schuster(1), Andreas Jansen(1,2)
T24-2C	MODIFIED SWIM TEST AS A MODEL OF ENHANCED CONTEXTUAL CONDITIONING DURING DEPRESSION: EXPRESSION OF GSK3 BETA AND EFFECTS OF ANTIDEPRESSANT TREATMENT	Nataliia Markova (1,2,3,4), Elena Shevtsova(1), Julie Vignisse(4,5), Olga Zubareva(6), Daniel Anthony(7), Lucien Bettendorff(4,5), Klaus-Peter Lesch(3,4,8), Tatyana Strelakova(3,4)
T24-3C	Neural activity underlying interval timing in rodent prefrontal cortex	Kay Thurley (1,2), Josephine Henke(1,2)
T24-4C	Neural integration of appetitive and aversive outcomes in perceptual decision making in the rat	Vanya Valkanova Stoilova (1), Evelyn Rieber(1), Andrea Dietl(1), Maik Christopher Stüttgen(1)
T24-5C	Neural mechanisms of cognitive control: Insights from simultaneous EEG-fMRI recording	Malte Rudo Güth (1), Peer Herholz(2), José Carlos García Alanis(1), Martin Peper(1), Jens Sommer(2)
T24-6C	Neuronal circuits involved in appetitive social interactions	Karolina Ziegart-Sadowska (1), Karolina Rokosz(1), Kacper Kondrakiewicz(1), Joanna Sadowska(1), Ewelina Knapska(1)
T24-7C	retracted Philosophical considerations on differences in prey capture behavioural patterns of adult male cuttlefish (<i>Sepia officinalis</i>)	Laura Desiree Di Paolo (2), Francesca Zoratto(1), Giulia Cordeschi(1), Enrico Alleva(1)
T24-8C	Probing oxytocin neurons activity in socially interacting rats	Diego Benusiglio (1), Yan Tang(1), Valery Grinevich(1,2)
T24-1D	Relief learning in rats is mediated by a pmVTA-NAC projection	Markus Fendt (1,2), Dana Mayer(1), Evelyn Kahl(1)
T24-2D	Selective attention in tone-in-noise detection in mice	Inga Rauser (1), Lasse Osterhagen(1,2), K. Jannis Hildebrandt(1,2)
T24-3D	Serotonin underlies long-term depression of aggression after chronic social defeat in crickets	Paul A. Stevenson (1), Jacqueline Rose(2), Jan Rillich(3)
T24-4D	Sex differences in perspective and strategy during virtual navigation in a new 3D matrix navigation task	TiAnni Harris (1), Belinda Pletzer(1,2)
T24-5D	Sex differences in the Kimchi-Palmer task revisited: A possible role of impulsivity	Andrea Scheuringer (1), Belinda Pletzer(1,2)
T24-6D	The effect of cannabinoid system in the anterior cingulate cortex on effort-based decision making mediates partly via TRPV1 receptors	Zahra Fatahi Vanani (1), Abbas Haghparast(1), Zahra Reisi(1), Abbas Khani(1)
T24-7D	The effect of noradrenaline on the interplay between attention and motivation	Kristin Kaduk (1,2), Tiphaine Henry(1,2), Gislene Gardechaux(1,2), Martine Meunier(1,2), Fadila Hadj-Bouziane(1,2)

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T25-1A	Calcium Imaging of Learning-Induced Plasticity in Single Kenyon Cells in <i>Drosophila melanogaster</i>	Florian Bilz (1), André Fiala(1)
T25-2A	Desert Ants consider landmark ambiguity	Roman Huber (1), Markus Knaden(1), Bill S. Hansson(1)
T25-3A	Discrete gregarising stimuli elicit serotonin release in the metathoracic ganglion of the Desert Locust <i>Schistocerca gregaria</i>	Georgina Fenton (1), Tom Matheson(1), Swidbert R. Ott(1)
T25-4A	Familiarity and age interact to affect locomotory hesitation in solitary Desert Locusts (<i>Schistocerca gregaria</i>)	Rien De Keyser (1), Chanida Fung(1), Tom Matheson(1), Swidbert R. Ott(1)
T25-5A	Genetic Labeling of Memory Engram Cells in Associative Learning	Anne Voigt (1), Yoshinori Aso(1), Gerald M. Rubin(1)
T25-6A	Identification and localization of neuropeptides in the brain of <i>Cataglyphis</i> desert ants using imaging mass spectrometry	Jens Habenstein (1), Franziska Schmitt(1), Reinhard Predel(2), Christian Wegener(3), Wolfgang Rössler(1), Susanne Neupert(2)
T25-7A	Induction of associative odor memories by optogenetic activation of Kenyon cells in <i>Drosophila melanogaster</i> larvae	Radostina Lyutova (1), Dennis Segebarth(1), Jens Habenstein(1), Anthi Apostolopoulou(2), Andreas Thum(2), Christian Wegener(1), Dennis Pauls(1)
T25-8A	Learning and modulation of feeding for amino acids in <i>Drosophila</i>	Naoko Toshima (1,2), Michael Schleyer(1), Daisuke Miura(2), Nana Kudow(3), Teiichi Tanimura(2), Bertram Gerber(1)
T25-9A	Learning the specific quality of taste reinforcement in larval <i>Drosophila</i>	Michael Schleyer (1), Timo Saumweber(1), Melisa Kantar(1), Juliane Thöner(1), Archana Durairaja(1), Marta Zlatic(2), James W. Truman(2), Andreas S. Thum(3)
T25-10A	Locomotor activity and phototaxis are influenced by the neuropeptides allatostatin A and allatotropin and by light exposure in the desert ant <i>Cataglyphis noda</i>	Myriam Franzke (1), Franziska Schmitt(1), Wolfgang Rössler(1)
T25-11A	Memory consolidation at the cost of specificity	Mathangi Ganesan (1), Emmanuel Antwi-Adjei(1), Christian König(1,2), Archana Durairaja(1), Kasyoka Kilonzo(1), Vignesh Viswanathan(1), Anne Voigt(1), Ayse Yarali(1,3)
T25-1B	Neural circuit analyses of relief learning in fruit flies	Christian König (1,2,0), Afshin Khalili(1,0), Mathangi Ganesan(1), Archana Durairaja(1), Rahaf Al Hafez(1), Priya Prabhakar(1), Hatice Basirli(1), Yoshinori Aso(3), Gerald Rubin(3), Ayse Yarali(1,4)
T25-2B	Operant and classical conditioning of the cockroach <i>Periplaneta americana</i> in a forced choice task	Cansu Arican (1), Alice Dahlhoff(1), Martin Nawrot(1)
T25-3B	Principals of olfactory-visual integration to form a common percept	Mira C. Becker (1), Wolfgang Rössler(1), Martin Strube-Bloss(1)
T25-4B	Probing for 'cognitive enhancement' by <i>Rhodiola rosea</i>	Birgit Michels (1), Hanna Zwaka(2), Ruth Bartels(2), Oleh Lushchak(3), Katrin Franke(4), Randolf Menzel(2), Ludger Wessjohann(4), Bertram Gerber(1,5,6)
T25-5B	Re-evaluation of learned information in <i>Drosophila</i>	Johannes Felsenberg (1), Oliver Barnstedt(1), Paola Cognigni(1), Suewei Lin (1), Scott Waddell(1)
T25-6B	Relief Learning Requires a Coincident Activation of Dopamine D1 and NMDA Receptors within the Nucleus Accumbens.	Jorge Ricardo Bergado Acosta (1), Evelyn Kahl(1), Georgios Kogias(1,2,4), Taygun C. Uzuneser(1,2,5), Markus Fendt(1,3)
T25-7B	Role of dorsal hippocampus catecholamine signaling in paired-associates learning and place learning	Wolfgang Hauber (1), Corinna Roschlau(1)
T25-8B	Role of Nogo-A signaling in regulating spatial learning and memory formation by modulating hippocampal parvalbumin (PV)-interneuron networks	Steffen Fricke (1), Niklas Lonnemann(1), Yves Kellner(1), Kristin Metzdorf(1), Martin Korte(1), Marta Zagrebelsky(1)

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T25-9B	retracted Social contact as a reinforcement in olfactory learning in honeybees	Jean-Christophe Sandoz (1), Hanna Cholé(1), Gérard Arnold(1), Julie Carcaud(1)
T25-10B	Somatostatin-expressing interneurons in the dentate gyrus are required for spatial memory precision.	Gilda Baccini (1), Kira Balueva(1), Katherine L. Cole(2), Katharina Bohle(1), Angelica Foggetti(1), Thomas Schiffelholz(3), Peer Wulff(1)
T25-11B	The Role of full-length Amyloid Precursor Protein-Like (APPL) in Drosophila short-term memory formation	Franziska Rieche (1), Katia Carmine-Simmen(2), Burkhard Poeck(1), Doris Kretschmar(2), Roland Strauss(1)
T25-1C	The role of serotonin in behavioural phase transition in the desert locust	Jonathan Mark Smith (1), Rien de Keyser(1), Chanida Fung(1), Swidbert R Ott(1), Tom Matheson(1)
T25-2C	The timing of the interior-exterior transition in Camponotus rufipes ant workers and its underlying neuronal correlates	Annekathrin Lindenberg (1), Stephanie Mildner(1), Flavio Roces(1), Christian Stigloher(2), Wolfgang Rössler(1), Claudia Groh(1)
T25-3C	Time-dependent reinforcement effect of dopaminergic neurons	Archana Durairaja (1), Edanur Shen(1), Anne Voigt(2), Ayse Yarali(1,3), Bertram Gerber(2,3,4), Michael Schleyer(4)
T25-4C	Changes in neuronal plasticity and brain morphology in leptin-deficient (ob/ob) mice	Alexander Bracke (1), Steffen Harzsch(2), Oliver von Bohlen und Halbach(1)
T25-5C	Cholinergic regulation of hippocampal network oscillations	Jan-Oliver Hollnagel (1,2), Rizwan ul Haq(1,3), Sabine Grosse(1,4), Bifeng Wu(1), Agustín Liotta(1), Christoph J. Behrens(1), Dietmar Schmitz(5), Nikolaus Maier(5), Uwe Heinemann(1,5)
T25-6C	Circuit processing in rodent auditory cortex underlying complex auditory learning	Maria- Marina Zempeltzi (1), Michael Brunk(1), Frank Ohl(1,2,3), Matthias Deliano(1), Max Happel(1)
T25-7C	Duets in Africa: Wireless microphones on free living white-browed sparrow weavers	Lisa Trost (1), Cornelia Voigt(2), Stefan Leitner(1), Susanne Hoffmann(1), Andries ter Maat(1)
T25-8C	Dynamic computation of hierarchical prediction errors during sequence learning	Rong Guo (1), Felix Blankenburg(2), Klaus Obermayer(13)
T25-9C	Effects of Anodal tDCS on Auditory Learning	Gonzalo Arias Gil (1), Anja Oelschlegel(1), Michael T. Lippert(1), Jürgen Goldschmidt(1,2,3), Frank W. Ohl(1,2,3), Kentaroh Takagaki(1,2,3)
T25-10C	Effects of c-fos manipulation in the central amygdala on appetitive learning	Tomasz Lebitko (1), Hubert Madej(1), Tomasz Jaworski(1), Anna Suska(1), Kacper Kondrakiewicz(2), Ewelina Knapska(2), Leszek Kaczmarek(1)
T25-11C	Experience induces rapid nucleus-scale movements of chromatin in mouse auditory cortex neurons.	Simon Rumpel (1), Thomas Burkard(2,3), Florian Grössel(2), Wulf Haubensak(2), Dominik Aschauer(1,2), Manuel Peter(2)
T25-1D	Extracellular matrix in auditory cortex: impact on remote memory control and learning flexibility in adult rodents	Hartmut Niekisch (1), Julia Steinhardt(1), Julia Berghäuser(1), Jana Kasper(1), Erika Kaschinski(1), Sara Bertazzoni(1), Judith Weber(1), Renato Frischknecht(2,4), Max Happel(1,3)
T25-2D	Functional and spatial organization of hippocampal assemblies in vivo	Susanne Reichinnek (1), Caroline Haimerl(1), David Angulo(1), Rosa Cossart(1)
T25-3D	Injury of GABAergic interneurons and behavioral deficits in mice after postnatal exposure to high oxygen as a model of neuropsychological symptoms in former preterm infants	Till Scheuer (1,2), Susanne A. Wolf(3), Daniele Mattei(3), Stefanie Endesfelder(1), Christoph Bühner(1), Helmut Kettenmann(3), Thomas Schmitz(1)
T25-4D	Involvement of the prefrontal-thalamic-hippocampal network in a touch screen based working memory task	Johanne Gertrude de Mooij-van Malsen (1), Thomas Schiffelholz(2), Peer Wulff(1)
T25-5D	Learning enables view-invariant prediction errors in monkey face patch ML	Caspar Martin Schwiedrzik (1), Winrich Freiwald(1)
T25-6D	Long-term plasticity and fear learning in adult heterozygous BDNF knockout mice	Thomas Endres (1), Thomas Munsch(1,2), Volkmar Lessmann(1,2), Susanne Meis(1,2)

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T25-7D	Spatial long-term memory and modulation of NMDA receptor subunit expression in medial septal cholinergic and noncholinergic neurons lesioned rats	Lali Kruashvili (1), Maia Burjanadze(1), Mariam Chighladze(1)
T25-8D	The neural basis of sequential behavior in pigeons	Lukas Hahn (1), Jonas Rose(1)
T25-9D	The precuneus is involved in gradual acquisition of non-semantic spatial schemata	Björn Hendrik Schott (1,2), Jasmin M. Kizilirmak(3), Torsten Wüstenberg(2), Alan Richardson-Klavehn(4)
T25-10D	Touched by the Milkshake: A Rodent Operant Touchscreen Approach to Positive Valence, and Cannabinoid and Vanilloid Pharmacology	Paul M. Kaplick (1), Ezgi Bulca(1), Moritz Späth(1,5), Daniel Heinz(1,4), Elmira Anderzhanova(2), Rainer Stoffel(3), Carsten T. Wotjak(1)
T25-11D	A pair of serotonergic neurons controls long-term memory consolidation in drosophila	Lisa Scheunemann (1), Pierre-Yves Plaçais(1), Yann Dromard(1), Thomas Preat(1)
T26-1A	A new automatic multi seed analysis for fMRI resting state data in animal model	Silke Kreitz (1), Benito de Celis Alonso(2), Michael Uder(3), Andreas Hess(1)
T26-2A	An evaluation of two spike sorting algorithms: Heptode Spike Sorter versus WaveClus	Roman Eppinger (1), Thomas Schanze(1)
T26-3A	An open source tool for automatic spatiotemporal assessment of calcium transients and local 'signal-close-to-noise' activity from calcium imaging data	Manju Sasi (1), Juan Pablo Prada Salcedo(2)
T26-4A	Analyzing and comparing high-dimensional spatiotemporal cortical activation patterns	Patrick Krauss (1), Claus Metzner(2), Achim Schilling(1), Achim Schilling(1), Maximilian Traxdorf(3), Volker Eulenburg(4), Holger Schulze(1)
T26-5A	Approaches to inversely estimate a neuronal source's position with multichannel microelectrodes	Martin Nguyen (1), Thomas Schanze(1)
T26-6A	Can the biologically mechanistic model generate pinwheel layouts with common design features ?	Wenqi Wu (1,2,3), Juan Daniel Flórez Weidinger(1,2), Fred Wolf(1,2,3)
T26-7A	Coupling of action potentials in primate visual cortex to low frequency local field potentials	Mohammad Zarei (1), Mohammad Reza Daliri(2), Mehran Jahed(3), Stefan Treue(4), Moein Esghaei(5)
T26-1B	Combinational Intracortical Decoder of Forelimb Force in Freely Moving Rats	Abed Khorasani Sarcheshmehesmaeilabad (), Vahid Shalchyan(2), Mohammad Reza Daliri(3)
T26-2B	Detecting Changes in the Intensity and Regularity of Neuronal Spike Trains	Michael Messer (1), Stefan Albert(1), Julia Schiemann(2,3), Jochen Roeper(2), Gaby Schneider(1)
T26-3B	Detection of spike patterns in massively parallel spike trains	Pietro Quaglio (1), Alper Yegenoglu(1), Emiliano Torre(1), Michael Denker(1), Thomas Brochier(2), Alexa Riehle(2,1,4), Sonja Grün(1,3)
T26-4B	Determinants of spike time precision - differential effects of cell morphology, ion channel voltage dependence and kinetics	Barbara Feulner (1), Chenfei Zhang(1), Lenka Vaculciaková(1), Fred Wolf(1,2), Andreas Neef(1,2)
T26-5B	Distributions of covariances as a window into the operational regime of neuronal networks	David Dahmen (1), Markus Diesmann(1,2,3), Moritz Helias(1,3)
T26-6B	Elimination of a ligand gating site generates a supersensitive olfactory receptor	Kanika Sharma (1), Gaurav Ahuja(2), Ashiq Hussain(2), Sabine Balfanz(3), Arnd Baumann(3), Sigrun I Korsching(1)
T26-7B	Extending integrate-and-fire model neurons to account for the effects of weak electric fields and input filtering mediated by the dendrite	Florian Aspart (1,2), Josef Ladenbauer(1,2), Klaus Obermayer(1,2)
T26-8B	In silico exploration of functional networks underlying behavioral traits	Florian Johann Ganglberger (1), Joanna Kaczanowska(2), Josef M. Penninger(3), Andreas Hess(4), Katja Bühler(5), Wulf Haubensak(6)

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T26-1C	Graded persistent activity mediated by ion channel cooperativity	Paul Pfeiffer (1,2), Jan-Hendrik Schleimer(1,2), Susanne Schreiber(1,2)
T26-2C	Implementation of Neural Diversity for Computer Simulations of Neuronal Excitability and Synchronization	Aubin Tchaptchet (1), Hans Albert Braun(1)
T26-3C	Joint pausiness in parallel spike trains	Matthias Gärtner (1), Sevil Duvarci(2), Jochen Roeper(2), Gaby Schneider(1)
T26-4C	Long-term information storage by the collective dynamics of multi-synaptic connections	Christian Tetzlaff (1,2), Michael Fauth(1,2), Florentin Wörgötter(1,2)
T26-5C	Low-dimensional spike rate models derived from networks of adaptive integrate-and-fire neurons: comparison and implementation	Fabian Baumann (1,2), Moritz Augustin(1,2), Josef Ladenbauer(1,2), Klaus Obermayer(1,2)
T26-6C	Modeling the Effect of Phase-Triggered Transcranial Magnetic Stimulation on Motor Cortex	Jochen Triesch (1), Natalie Schaworonkow(1)
T26-7C	Non-linear computation and establishment of contrast invariance in spatially structured recurrent balanced networks	Laura Bernáez Timón (1), Sara Konrad(1), Tatjana Tchumatchenko(1)
T26-1D	Properties of dendritic trees under different branch ordering schemes	Alexandra Vormberg (1,2), Felix Effenberger(1,2), Julia Muellerleile(3), Hermann Cuntz(1,2)
T26-2D	Simulating large-scale human brain networks with a mean-field model of EIF neurons: exploring resting state FC and stimulation with electric fields	Caglar Cakan (1,2), Josef Ladenbauer(1,2), Florian Aspart(1,2), Michael Schirner(2,3), Simon Rothmeier(2,3), Petra Ritter` (2,3,4), Klaus Obermayer(1,2)
T26-3D	Spike time precision of different neuron classes – influence of morphology and ion channels	Andreas Neef (1,3), Carolina León Pinzón(1,2,3), Ricardo Martins Merino(1,2,3), Walter Stühmer(2,3), Fred Wolf(1,3)
T26-4D	Temperature-robust computation with simple network motifs	Pia Rose (1,2), Jan-Hendrik Schleimer(1,2), Susanne Schreiber(1,2)
T26-5D	The impact of action potential initiation site separation on fast population encoding	Chenfei Zhang (1), David Hofmann(1), Andreas Neef(1), Fred Wolf(1)
T26-6D	Towards reproducible workflows for electrophysiology data using the Elephant analysis framework	Michael Denker (1), Alper Yegenoglu(1), Sonja Grün(1,2)
T26-7D	Transition to chaos in random neural networks in the presence of noise	Sven Goedeke (1), Jannis Schuecker(1), Moritz Helias(1,2)
T27-1A	A genetically encoded system with high spatiotemporal resolution for modification of neuronal network activity patterns in vivo	Firat Terzi (1), Johannes Knabbe(1), Hongwei Zheng(1), Niklas Schneider(1), Sidney Cambridge(1)
T27-2A	A new approach for ratiometric calcium imaging of intact microglia in vivo	Bianca Brawek (1,3), Yajie Liang(1,3), Daria Savitska(1), Kaizhen Li(1), Natalie Fomin-Thunemann(1), Elizabeta Zirdum(1), Johan Jakobsson(2), Olga Garaschuk(1)
T27-3A	A novel high-throughput, low-cost ethological screening device using a visual stimulus system running on a Raspberry Pi	Bart R.H. Geurten (1), Simon P. Schäfer(2), Heribert Gras(1)
T27-4A	Assessing cortical cellular composition and volume changes by longitudinal in vivo imaging of cell nuclei	Livia Asan (1), Fred Hamprecht(2), Thomas Kuner(1), Johannes Knabbe(1)
T27-5A	Coating of fluorescent PLGA-Dil nanoparticles with poloxamer 188 leads to enhanced duration and intensity of the fluorescence signal in rat retinal endothelium	Enqi Zhang (1), Nadya Osipova(2), Olga Maksimenko(2), Bernhard Sabel(1), Svetlana Gelperina(2), Petra Henrich-Noack (1)
T27-6A	Data organization made easy: Safe and efficient data management for neuroscience	Michael Sonntag (1), Achilleas Koutsou(1), Christian Garbers(1), Christian J. Kellner(1), Adrian Stoewer(1), Jan Grewe(2), Thomas Wachtler(1)

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T27-1B	Evaluation of brain pharmacokinetic properties in awake animals: from rodents to non-human primates	Marcel van Gaalen (1), Gunnar Flik(2), Joost Folgering(2), Arash Rassoulpour(2), Minha Choi(3), Robert Stratford(3), Thomas Cremers(4)
T27-2B	Efficient isolation of viable primary neural cells from adult murine brain tissue based on a novel automated tissue dissociation protocol	Hui Zhang ()
T27-3B	Fast Imaging And Probabilistic Reconstruction of Light-Evoked Activity in the Mouse Retina	Luke Edward Rogerson (1,2,3,4), Katrin Franke(1,2,4), André Maia Chagas(1,2), Zhijian Zhao (1,2), Philipp Berens (1,2,3), Thomas Euler(1,2,3)
T27-4B	Functional characterization of new, flexible multi-contact silicon probes for chronic intra-cortical recording and stimulation	Heiko Stemann (1), Andreas Schander(2), Walter Lang(2), Andreas K. Kreiter(1)
T27-5B	Impact of the insertion speed of the recording probe on the quality of neural recordings in acute experiments	Richárd Fiáth (1,2,3), Adrienn Márton(2), Silke Musa(4), Alexandru Andrei(4), Carolina Mora Lopez (4), István Ulbert(1,2)
T27-6B	KCC2 dependent steady state chloride levels in mouse layer 2/3 cortical neurons in vivo.	Juan Carlos Boffi (1,2), Johannes Knabbe(1,2), Michaela Kaiser(1), Thomas Kuner(1)
T27-7B	CRISPR-Cas9 Lipid Nanoparticles as an Efficient Delivery Tool in Primary Neural Cultures_Proof of Concept	Nadia Tagnaouti (1), Anitha Thomas(1), Rebecca De Souza(1), Grace Tharmarajah(1), Oscar Seira(2), Jie Liu(2), Wolfram Tetzlaff(2), Peter Deng(3), Jan A. Nolte(3), Kyle D. Fink(3), David J. Segal(4), R. James Taylor(1), Euan Ramsay(1)
T27-1C	Manipulation of Neurons with Precisely Controlled Illumination in Space and Time Using Two-Photon Lasers and Spatial Light Modulators	Gert Rapp (1), Susanne Holzmeister(2), Manuela Fichte(3), Alexander Heckel(3), Oliver Wendt(1), Stephan Junek(2)
T27-2C	Low cost open source hardware and software in behavioral and electrophysiological experiments: Arduino & Raspberry Pi	Benjamin Hans Paffhausen (1)
T27-3C	Multi-scale detection of rate changes in spike trains with weak dependencies	Gaby Schneider (1), Kaue M. Costa(2), Jochen Roeper(2), Michael Messer(1)
T27-4C	odML-tables Providing a graphical interface for odML based metadata management	Julia Sprenger (1), Lyuba Zehl(1), Jana Pick(1), Carlos Canova(1), Sonja Grün(1,2), Michael Denker(1)
T27-5C	Optical activation of neurons through two-photon excitation of gold nanoparticles	Jan Hirtz (1,2), Wieteke de Boer(2), Mercè Izquierdo-Serra(2,3), Shuting Han(2), Yuri Shymkiv(2), Christophe Dupre(2), Rafael Yuste(2)
T27-6C	Quantitative detection of intracellular sodium using FLIM with CoroNa-Green	Jan Meyer (1), Verena Untiet(2), Christoph Fahlke(2), Thomas Gensch(2), Christine R. Rose(1)
T27-7C	Fast and accurate spike sorting in vitro and in vivo for up to thousands of electrodes	Olivier Marre (1), Pierre Yger (1), Giulia L.B. Spampinato (1), Elric Esposito (1), Baptiste Lefebvre (1), Stephane Deny (1), Christophe Gardella (1), Marcel Stimberg (1), Florian Jetter (2), Guenther Zeck (2), Serge Picaud (1), Jens Duebel (1)
T27-1D	Replication of Riehle et al (1997) by an Open Source Implementation of the Unitary Events Analysis Method	Vahid Rostami (1), Junji Ito(1), Sonja Grün(1,2)
T27-2D	Robust threshold estimation based on without near threshold measurements	Achim Schilling (1), Patrick Krauss(1), Claus Metzner(2), Konstantin Tziridis(1), Holger Schulze(1)
T27-3D	The use of Click chemistry for quantitative analysis of protein palmitoylation	Tatiana Kuznetsova (1,2,3), Alexander Dityatev(2,4,5,6), Patricia M.-J. Lievens(2,7)
T27-4D	Tracer electrophoresis through the nerve sheath for neuroanatomical and functional labeling of neural pathways	Berthold HEDWIG (1), Matthew D. Isaacson(2)
T27-5D	Transcranial functional ultrasound imaging in freely-moving awake mice and anesthetized young rats without contrast agent through the intact skull	Zsolt Lenkei (1), Elodie Tiran(2), Jeremy Ferrier(1), Thomas Deffieux(2), Jean-Luc Gennisson(2), Sophie Pezet(1), Mickael Tanter(2)

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T27-6D	Transcriptome and Neuropeptidome analysis of <i>Carausius morosus</i>	Sander Liessem (1), Susanne Neupert(1), Lapo Ragionieri(1), Ansgar Büschges(1), Reinhard Predel(1)
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