Explanation of Abstract Numbers

There are two poster sessions on each day, i.e. on Wednesday, Thursday, Friday and Saturday. The posters will hang all day long. 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 session posters with *odd* serial numbers will be discussed. In the second 45 min of the session posters with *even* serial numbers will be discussed. During this time slots it is mandatory that the author is present at the poster.

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. 45 min of the second part of the 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 27, 2025, 09:45 -10:30 h and 17:15 -18:00 h in the poster area 21.

Poster sessions

Poster session A:	Wednesday, March 26	13.00 - 14.30 and 16.30 - 18.00
Poster session B:	Thursday, March 27	09.00 - 10.30 and 16.30 - 18.00
Poster session C:	Friday, March 28	10.00 - 11.30 and 16.30 - 18.00
Poster session D:	Saturday, March 29	10.00 - 11.30 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
T28	Late Poster

Poster No.	Title of the Poster	Author(s)
T1 - Stem cells, Neurogenesis and Gliogenesis		
T1-1A	Beneficial effects of voluntary running upon adult neurogenesis depends on the levels of available BDNF in the brain	Monique Klausch, Viola von Bohlen und Halbach, Oliver von Bohlen und Halbach
T1-2A	Elucidating SYNGAP1 Isoform Functions in Human Neurodevelopment Using Cerebral Organoids	Ivanna Kupryianchyk-Schultz, Daniel Bauersachs, Ralf Kühn, Manuel Irimia, Sarah Shoichet, Agnieszka Rybak-Wolf
T1-3A	High-throughput knockdown screening for modifiers of neuronal morphology in patient-derived neurons	Selene Lickfett, Carmen Menacho, Markus Schülke, Andrea Rossi, Sidney Cambridge, Alessandro Prigione
T1-1B	Adult neurogenesis in the mouse vomeronasal organ	Lena Terlau
T1-2B	Systematic analysis of the transcriptome and proteome of human iPSCs during differentiation into cortical neurons	Shreejoy Tripathy
T1-3B	BAF Complex Modulates MGE-Derived GABAergic neuron Development	Xiaoyi Mao, Eman Abbas, M Sadman Sakib, Pauline Antonie Ulmke, Tonatiuh Pena Centeno, Linh Pham, Joachim Rosenbusch, Jochen F. Staiger, Andre Fischer, Huu Phuc Nguyen, Tran Tuoc
T1-1C	Molecular mapping of the neuroectoderm across phyla – conservation and divergence of brain regions between insects and vertebrates	Gregor Bucher, Nico Posnien, Vera Hunnekuhl
T1-2C	Olfactory neuron regeneration in adult *Drosophila*	Ismael Fernández-Hernández, Eric Hu, Michael A. Bonaguidi, André Fiala
T1-3C retracted	The role of epigenetic mechanism in integrating external signals governing cortical interneuron development	Jian Du, Julia Reichard, Philip Wolff, Can Bora Yildiz, Geraldine Zimmer-Bensch
T1-1D	C-terminal binding protein 1 is required for adult hippocampal neurogenesis	Burcu Sucu, Neeraja Suresh, Nader Mounzer, Bartomeu Perelló-Amorós, Renato Frischknecht, Anna Fejtová
T1-2D	The role of MAST3 in neurodevelopment and disease	Carolina Rodrigues Duro, David Keays
T1-3D	*In vitro* models to explore mechanisms of hypoxia resistance in the naked mole-rat	Paraskevi Kakouri
T2 - Axon and Dendrite Development, Synaptogenesis		
T2-1A	Input synapse distribution on the dendrites of an ensemble of five *Drosophila* flight motoneurons	Lion Huthmacher, Carsten Duch
T2-2A	Basal forebrain cholinergic innervation of the visual cortex during postnatal development in ChAT-cre transgenic mice	Jude Ijuo Abeje, David Cabrera-Garcia, Christian Lohmann
T2-3A	A Comparative Study of Neuronal Architecture in the Caudate Nucleus: Insights from Camels and Humans	Sami Zaqout, Juman Almasaad, Ziad Bataineh

T2-1B	3D mapping of parvalbumin interneuron-derived cortico-striatal axonal projections	Hadiseh Hosseinnia, Maria Lehning, Andrew Octavian Sasmita, Clarissa Menschel, Patrick Spisse, Robert Fledrich, Kristina Lippmann, Markus Morawski, Ruth M. Stassart, Markus H. Schwab
T2-2B	Spectraplakin interacts with MTOCs to organize dendritic microtubules	Sebastian Rumpf, Matthew Davies, Neeraja Sanal, Ulrike Gigengack, Ines Hahn
T2-3B	H-Ras induces exuberant *de novo* dendritic protrusion growth in mature neurons regardless of cell type	Sarah Krüssel, Ishana Deb, Seungkyu Son, Gabrielle Ewall, Minhyeok Chang, Hey-Kyoung Lee, Won Do Heo, Hyung-Bae Kwon
T2-4B	Cyclase-associated protein: an actin regulator with multiple neuronal functions	Marco Rust, Sharof Khudayberdiev, Cara Schuldt, Anika Heinze, Felix Schneider
T2-1C	Dynamic structural plasticity determines developmental maturation of the cochlear inner hair cell ribbon synapse	Roos Anouk Voorn, Noboru Komiyama, Vladan Rankovic, Seth Grant, Christian Vogl
T2-2C	The Methylation-Independent Role of the DNA Methyltransferase 1 on Neuronal Development and Intracellular Trafficking	Georg Pitschelatow, Cathrin Bayer, Philip Wolff, Jana Egner-Walter, Claudia Palacios, Christoph Hamacher, Ke Zuo, Mineko Kengaku, Paolo Carloni, Marc Spehr, Geraldine Zimmer-Bensch
T2-3C	Chemogenetic and optogenetic modulation of cortical pyramidal cells influences axonal pattern formation	Ina Köhler, Adriana Rehm, Burak Ceylan, André Haase, Steffen Gonda, Petra Wahle
T2-1D	Interactions of antibodies to *Treponema pallidum* with the collapsin response mediating protein CRMP1 lead to impaired neurite outgrowth in SiMa neuroblastoma cells	Bernhard Reuss
T2-2D	Role of type I interferon receptor in brain development	Luisa Demuth, Shirin Hosseini, Kristin Michaelsen-Preusse, Martin Korte
T2-3D	Expression of synaptic proteins and development of dendritic spines in fetal and postnatal neocortex of the pig, the European wild boar *Sus scrofa*.	Eric Sobierajski, Katrin Czubay, Marc-André Schmidt, Sebastian Wiedenski, Sarah Rettschlag, Christa Beemelmans, Christoph Beemelmans, Petra Wahle
T3 - Developmental Cell Death, Regeneration and Transplantation		
T3-1A	Histone deacetylase 8 (HDAC8) controls hypoxia-induced conversion of sensory Schwann cells into repair cells	Nadège Hertzog, Mert Duman, Maëlle Bochud, Valérie Brügger-Verdon, Maren Gerhards, Félicia Schön, Franka Dorndecker, Robert Fledrich, Ruth Stassart, Devanarayanan Sankar, Joern Dengjel, Sofía Raigón López, Claire Jacob
T3-1B retracted	The effects of prenatal exposure to Bisphenol A on prefrontal cortex gabaergic system and schizophrenia-like behaviors in adult rats	Ali Shahbazi, Abdolhakim Ghanbarzehi, Soraya Mehrabi
T4 - Neurotransmitters, Retrograde messengers and Cytokines		
T4-1A	How organelle communication shapes neuron function: triple organelle contact sites	Margret Bülow, Darla Patricia Dancourt Ramos, Marie König, Eleni Brüggemann, Nicole Kucharowski

T4-2A	Unlocking Sleep: The Adenosine System's Role in Zaleplon's Mechanism	Jelena Martinovic, Marina Zaric Kontic, Ivana Gusevac Stojanovic, Dunja Drakulic, Ivana Grkovic, Natasa Mitrovic
T4-3A	Peroxisome-Golgi Interaction in Neuropeptide Secretion	Nicole Kucharowski, Marie A. König, Margret H. Bülow
T4-1B	Examining Cymbopogon citratus Potential for Synaptic Function Through AMPA Receptor Modulation	Belal Rahhal
T4-2B	Extracellular pH is brain state dependent	Verena Untiet, Zuzanna Bojarowska, Yang Xue, Felix Beinlich, Nicolas Cesar Petersen, Hajime Hirase, Maiken Nedergaard
T4-1C	Cortical serotonin and the role of the 5-HT3 receptor	Patricia Przibylla, Christina Buetfering, Jakob von Engelhardt
T4-2C	Dissecting dopamine deficiency: developmental, physiological and behavioral characterization of catecholamine-free zebrafish larvae	Susana Paredes-Zúñiga, Rebecca Peters, Kristine Østevold, Gerard Arrey, Dennis Frank, Wolfgang Driever
T5 - G Protein-linked and other Receptors		
T5-1B	Investigation of dopamine and serotonin receptors and their heteromers using GPCR-based fluorescent sensors	Ponlawit Wisomka, Nik Meisterernst, Andreas Reiner
T5-2B	Decoding Octopamine's Role in *Drosophila melanogaster*: A Behavioral and Molecular Study of Trojan Exon Mutants	Alexandra Großjohann, Marvin Hahmann, Andreas S. Thum
T5-1C	The optogenetic potential of the anomalous Gi/o-coupled vertebrate ancient opsin from the flashlight fish Anomalops katoptron	Lennard Rohr, Philip Althoff, Ori Berman, Caroline Naber, Caroline Güers, Melanie Mark, Peter Soba, Alexander Gottschalk, Moran Shalev-Benami, Till Rudack, Ida Siveke, Stefan Herlitze
T5-1D	Microglial-Neuronal Interactions in the Recovery Phase of Ischemic Stroke	Charlotte Catharina Oldenburg, Marie-Luise Brehme, Lynn Bitar, Tim Magnus, Thomas Oertner
T5-2D	Expression of Cirl1 and Cirl3 Adhesion GPCRs in the Dorsal Root Ganglia in Different Peripheral Neuropathy Models	Mariam Medhat Sobhy Atalla, Maria Georgalli, Abdulrahman Sawalma, Annemarie Sodmann, Robert Blum, Heike Rittner
T6 - Ligand-gated, Voltage-dependent Ion Channels and Transporters		
T6-1A	Distinct Subcellular Compartmentalization of Kv4.3 Channels in the Hippocampal CA1 Interneurons and its Impact on the Perisomatic Inhibition	Laxmi Kumar Parajuli, Shantanu Durgvanshi, Nithya Sethumadhavan, Marco Ross, Akos Kulik, Claudio Elgueta
T6-2A	TRPV4 channels mediate Na^+ influx and promote cellular ATP loss during energy deprivation in mouse cortex	Nils Pape, Christine R. Rose
T6-3A	Structural and functional insights into GluK2/GluK5 kainate receptor gating	Laura Moreno Wasielewski, Alexa Strauss, Nandish Khanra, Sophie Lenze, Joel Meyerson, Joshua Levitz, Andreas Reiner
T6-4A	Molecular Determinants of Cesium- and Glycine-dependent Glycine Receptor Activation	Steffen Fricke, Magnus Harnau, Elina Zeller, Jochen C. Meier
T6-1B	Probing the role of ion channel degeneracy for robust neuronal excitability	Selina Hilgert, Carsten Duch, Stefanie Ryglewski

T6-2B	Effects of energy deprivation on cellular ATP levels and ion homeostasis in human cortical brain organoid slices (cBOS)	Louis Anton Neu, Laura Petersilie, Sonja Heiduschka, Nils Pape, Alessandro Prigione, Christine R. Rose
T6-3B	Circadian and ultradian rhythms in the spontaneous activity of insect olfactory receptor neurons	Aditi Vijayan, Mauro Forlino, Katrin Schröder, Huleg Zolmon, Martin Garcia, Monika Stengl
T6-4B	Investigation of glutamate accumulation and neuronal depolarization in metabolic stress conditions	German Lauer, Tim Ziebarth, Hanna Praast, Andreas Reiner
T6-1C	Pharmacological inhibition of $Ca_V2.1$-α2δ1 interface suppresses neuronal firing and reduces synaptic density in hippocampal network	Arthur Bikbaev, Corinna Werkmann, Lea Wazulin, Lea Driesang, Abderazzaq El Khallouqi, Ana Carolina Palmeira do Amaral, Martin Heine
T6-2C	Allosteric modulation of $GABA_AR$ by sesquiterpenes representing a distinct fraction in volatile oils and plant extracts	Julian Leopold Nausester, Anna-Lena Wießler, Christian Boehm, Andrea Buettner, Carmen Villmann
T6-3C	A secreted protein controls surface expression of a postsynaptic ion channel	Sven Kuspiel, Dominik Wiemuth, Stefan Gründer
T6-4C	CKAMP59 (aka Shisa7) is probably an auxiliary subunit of the AMPA receptor complex	Benedikt Grünewald, Samy Al-Qut, Alexander Hammen, Jakob von Engelhardt
T6-1D	Transient Neonatal Hyperexcitability Induces Persistent Network Alterations in *Scn2a* p.A263V Mouse Model of Epilepsy	Yana Reva, Katharina Ulrich, Hanna Oelßner, Daniil Kirianov, Mohamad Samehni, Birgit Engeland, Ricardo Melo Neves, Dirk Isbrandt
T6-2D	Decoding reelin's impact on cholinergic signaling: a novel perspective on neural modulation	Marie-Luise Kümmel, Eckart Förster, Max Wulf, Katrin Marcus-Alic
T6-3D	Modulation of Rat and Human Acid-Sensing Ion Channel 3 by the Thyroid Hormone T3	Lu Qin, Dominik Wiemuth, Stafen Gründer
T6-4D	Preliminary study of analgesic effect of bumetanide on neuropathic pain in patients with spinal cord injury*A*	Leila Zarepour
T7 - Synaptic Transmission, Pre- and Postsynaptic organization		
T7-1A	The impact of CAR on glutamatergic synapses	Jacobo Lopez Carballo, René Jüttner, Michael Gotthardt
T7-2A	Presynaptic ATP decreases during physiological-like activity	Stefan Hallermann, Isabelle Straub, Lukas Kunstmann, Felipe Baeza-Lehnert, Gerardo Gonzalez, Karl Schoknecht, Daniel Gitler, Johannes Hirrlinger
T7-3A	Regulation of mitochondrial Ca^{2+} homeostasis and neuronal activity by mitochondrial fission factor in AgRP neurons	Gagik Yeghiazaryan, Almudena del Río-Martín, Marie H. Solheim, Paul Mirabella, Tamara Sotelo-Hitschfeld, Corinna Bauder, Hong Jiang, Weiyi Chen, Paul Klemm, Lukas Steuernagel, Alain J. de Solís, Henning Fenselau, F. Thomas Wunderlich, Jens C. Brüning, Peter Kloppenburg
T7-4A	Adolescent alcohol drinking compromises excitation/Inhibition balance in adult mouse dentate gyrus granule cells	Fang Zheng, Christian Alzheimer
T7-5A	A specific association of presynaptic K^+ channels with Ca^{2+} channels underlies K^+ channel-mediated regulation of glutamate release	Byoung Ju Lee, Won-Kyung Ho, Seungbok Lee

T7-6A	Elucidating the Nano-architecture of the presynaptic proteome	Siqi Sun
T7-7A	Characterisation of Magi-family synaptic scaffolding proteins in human iPSC derived neurons	Doris Lau, Maximilian Borgmeyer, Julia Knocks, Lukas Einhäupl, Tomas Fanuza, Christian Wozny, Nina Wittenmayer
T7-1B	The Role of Stim and Orai variants in neurotransmission	Lukas Jarzembowski, Kathrin Förderer, Priska Degro, Kathrin-Lisa Laius, Jeanette Andres, Dalia Alansary, Barbara A. Niemeyer
T7-2B	The Coxsackievirus and Adenovirus Receptor - A new Target for Improved Synaptic Transmission	Giuliano Andrea Ballacchino, René Jüttner, Michael Gotthardt
T7-3B	Octopamine-induced diacylglycerol signaling rapidly enriches active zone with Unc13 for enhanced presynaptic signaling	Keagan Scott Chronister, Natalie Blaum, Tina Ghelani, Thiago C. Moulin, Livia Ceresnova, Stephan Sigrist, Alexander M. Walter
T7-4B	Characterizing the interface of biomolecular condensates at the synapse	Johannes Vincent Tromm, Christian Hoffmann, Gennadiy Murastov, Takahiro Nagao, Taka Tsunoyama, Chinyere Logan, Aleksandar Matkovic, Akihiro Kusumi, Yusuke Hirabayashi , Dragomir Milovanovic
T7-5B	The SNARE protein SNAP25a is intrinsically disordered and highly dynamic in its pre-fusion conformation	Nils-Alexander Lakomek, Tobias Stief, Katharina Vormann, Sophia Werner
T7-6B	Role of Synaptotagmin 7 in regulating presynaptic function at the *Drosophila* neuromuscular junction	Jashar Arian, Selina Hilgert
T7-7B	Alternative *Cacophony* splice isoforms mediate fast versus graded synaptic transmission in *Drosophila*	Tobias Rinas, Veronica Pampanin, Stefanie Ryglewski
T7-1C	Neuronal membrane shape regulation through interplay of the cytoskeleton and BAR-domain proteins	Agata Witkowska, Clara Grosse, Cicek Kanar, Milena Roth, Leonie Rommel, Agata Witkowska
T7-2C	Controlling the Formation of Molecular Nanoclusters in the Postsynapse	Nahid Safari Lemjiri, Christian Tetzlaff
T7-3C	Neuromodulation of the endbulb of Held to Bushy Cell synapse in the cochlear nucleus by serotonin and norepinephrine	Maria Boykova Groshkova, Theocharis Alvanos, Yumeng Qi, Yunfeng Hua, Tobias Moser
T7-4C	Analysis of the function of Nlgn2 at different GABAergic synapse subtypes in the mPFC	Tamara Ritter, Holger Taschenberger, Dilja Krüger-Burg
T7-5C	Dynamic interactions between presynaptic calcium channel subunits	Corinna Werkmann, Artur Bikbaev, Hanna Kern, Markus Missler, Stefanie Ryglewski, Martin Heine
T7-6C	Functional and Morphological Characterization of VIP+/ChAT+ Neurons may act as “disinhibitors” in L2/3 of mouse barrel cortex	Hala Nam, Martin Möck, Mirko Witte, Jochen Staiger
T7-7C	Cellular calcium loading in human cortical brain organoid slices (cBOS) exposed to ischemic conditions	Laura Petersilie, Karl W. Kafitz, Sonja Heiduschka, Joel S. E. Nelson, Louis A. Neu, Stephanie Le, Alessandro Prigione, Christine R. Rose
T7-8C	3D MINFLUX combined with DNA-PAINT reveals the orientation and arrangement of Bassoon at the active zone of hippocampal neurons	Florelle Domart, Evelyn Garlick, Isabelle Jansen, Ulf Matti, Thomas Dresbach

T7-1D	Spatio-temporal dynamics of lateral Na+ diffusion in apical dendrites of mouse CA1 pyramidal neurons	Joel S. E. Nelson, Jan Meyer, Niklas J. Gerkau, Karl W. Kafitz, Fidel Santamaria, Ghanim Ullah and Christine R. Rose
T7-2D	A model investigation of synaptic transmission tuned via the Unc13 protein	Magdalena Springer, Stephan Sigrist, Martin Paul Nawrot
T7-3D	Synapsin condensates are molecular beacons for actin organization at the synaptic bouton	Christian Hoffmann, Akshita Chhabra, Aleksandr A. Korobeinikov, Jakob Rentsch, Linda Kokwaro, Gerard Aguilar Perez, Luka Gnidovec, Johannes V. Tromm, Jaqulin N. Wallace, Cristina Román-Vendrell, Emma C. Johnson, Branislava Rankovic, Eleonora Perego, Sarah Köster, Silvio O. Rizzoli, Helge Ewers, Jennifer R. Morgan, Dragomir Milovanovic
T7-4D	Estimates of quantal synaptic parameters in light of more complex vesicle pool models	Grit Bornschein, Simone Brachtendorf, Hartmut Schmidt
T7-5D	Munc13-3 tightens vesicle docking at a central synapse	Robert Jacobi, Maximilian Zettner, Martin Pauli, Christian Stigloher, Anna-Leena Sirén, Manfred Heckmann, Kristina Lippmann
T7-6D	Defining the electrochemical properties of synaptic condensates	Agustin Mangiarotti, Elias Sabri, Johannes Vincent Tromm, Christian Hoffmann, Aleksandar Matkovic, Rumiana Dimova, Dragomir Milovanovic
T7-7D	Comparing the Ca^{2+}-binding kinetics of Synaptotagmin 1 and 2 at cortical synapses	Simone Brachtendorf, Grit Bornschein, Abdelmoneim Eshra, Jens Eilers, Stefan Hallermann, Hartmut Schmidt
T8 - Synaptic Plasticity, LTP, LTD		
T8-1A	Altered Inhibitory Circuits: The Effects of iTBS900 on GABAergic Synapses in CA1 Pyramidal Neurons	Ramya Rama, Martin Mittag, Peter Jedlicka, Andreas Vlachos
T8-2A	Experience-dependent modulation of oxytocin neurons during postpartum	Kaya Melissa Baumert, Charlotte Marry Burns, Amelie Kühler, Silvana Valtcheva
T8-3A	Calcium mediated presynaptic homeostatic plasticity at the *Drosophila* NMJ	Lea Marie Deneke, Carsten Duch
T8-4A	Postsynaptic cAMP signaling does not induce LTP at hippocampal synapses	Oana M. Constantin, Christine E. Gee, Thomas G. Oertner
T8-5A	An iPSC derived human neuronal 3D model system for studying dendritic spine pathology in psychiatric disease	Elisanna Theodosia Menachili, Valeria Almeida, Marierose Mina, Sabrina Galinski, Moritz Rossner, Volker Scheuss
T8-1B	All-optical investigation of the role of CaMKII on long-term plasticity in the hippocampus	Rui Wang, Michaela Schweizer, Julia Kaiser, Christian Schulze, Christine E. Gee , Thomas G. Oertner
T8-2B	Plasticity of Electrical Synapses between L1 Interneurons in the medial Prefrontal Cortex	Elizaveta Vylekzhanina, Luca Habelt, Christian Cameron de Abos y Padilla, Ilka Diester, Philippe Coulon
T8-3B	The Role of Mechanics for Neuronal Plasticity	Ezgi Erterek, Jana Bachir Salvador, Stephanie Möllmert, Renato Frischknecht
T8-4B	Marking active neurons using immediate early genes: FOS vs NPAS4	Marie E. Wiesenhavern, Andreas Franzelin, Christine E. Gee, Thomas G. Oertner

T8-5B	The role of the endoplasmic reticulum in synaptic plasticity	Kelsey G. Zingg, Christine E. Gee, Thomas G. Oertner
T8-6B	Role of neuronal activity on microglia-mediated synapse refinement and circuit stabilization following incomplete spinal cord injury	Fritz Kagerer, Nina Heinrichs, Almir Aljovic, Florence Bareyre
T8-1C	Casein kinase 2 controls functional and structural synaptic plasticity at the Drosophila NMJ	Lena Maria Lion, Zeeshan Mushtaq, Jan Pielage
T8-2C	Mapping Multisite Network-wide Synaptic Transmission and LTP in the Hippocampal Network	Shahrukh Khanzada, Xin Hu, Brett Addison Emery, Hayder Amin
T8-3C	Diurnal varations in the contribution of mGlu5 receptors to hippocampal synaptic plasticity	Janna Maria Aarse, Denise Manahan-Vaughan
T8-4C	Mechanisms for activity dependent adjustments of quantal size at the *Drosophila* NMJ	Kristina Vanessa Kolb, Carsten Duch
T8-5C	Frequency-dependent synaptic plasticity and NMDAR subunit content are distinct in supra- and infrapyramidal blade of the dentate gyrus in freely behaving animals	Christina Strauch, Juliane Böge, Olena Shchyglo, Valentyna Dubovyk, Denise Manahan-Vaughan
T8-1D	Repetitive magnetic stimulation induced synaptic plasticity relies on cooperative pre- and postsynaptic activation.	Christos Galanis, Maximilian Lenz, Mohammadreza Vasheghani Farahani, Andreas Vlachos
T8-2D	“Functional and molecular mechanisms underlying plasticity-mediated CNS recovery after spinal cord injury in adulthood and aging”	Adna Smajkan, Julie Fourneau, Hannah Peedle, Florence M. Bareyre
T8-3D	Modulation of activity-dependent synaptic plasticity by the AMPAR interacting-protein PRRT2	Eric Jacobi, Muhammad Aslam, Jakob von Engelhardt
T8-4D	Interaction of actin dynamics and spine geometry as a synaptic tag	Mitha Thomas, Michael Fauth
T8-5D	Effects of adolescent stress on synaptic transmission and plasticity in the adult mouse dentate gyrus	Nadja Treiber, Fang Zheng, Christian Alzheimer
T8-6D	Dendrodendritic inhibition of mitral cells	Joel Kappen, Daniela Hirnet, Christian Lohr
T9 - Glia, Glia-Neuron Interactions		
T9-1A	Dendritic ATP release mediates cell type-specific neuron-to-astrocyte communication	Jennifer Bostel, Antonia Beiersdorfer, Kristina Losse, Natalie Rotermund, Kristina Schulz, Janina Sophie Popp, Christine Gee, Daniela Hirnet, Christian Lohr
T9-2A	Chemogenetic activation of Gq in microglia leads to deficits in synaptic plasticity and neuronal communication	Marie-Luise Brehme, Oana Constantin, Zhen Yuan, Paul J. Lamothe-Molina, Laura Laprell, Fabio Morellini, Thomas G. Oertner
T9-3A retracted	Hyperleptinemia as a driver of obesity-induced neuropathy.	Eva Ernst Sánchez, Venkat Krishnan Sundaram, Vlad Schütza, Nele H. Schröter, Nancy Schwagarus, Robert Fledrich, Ruth Stassart
T9-4A	Sex and size specific differences in the extracellular vesicle cargo of oligodendrocyte progenitor cells in response to hyperoxic stress	Donna Elizabeth Sunny, Elke Hammer, Rabea Schlüter, Stephan Michalik, Uwe Völker, Matthias Heckmann

T9-5A	Activation of primary somatosensory cortex astrocytes triggers long-term mechanical hyperalgesia	Rangel Leal Silva, Antonio Gonzalez, Ilknur Çoban, Abhirup Dutta, Khaleel Alhalaseh, Alexander Groh, Amit Agarwal
T9-6A	The role of N-acetyl aspartate in axo-glial signaling for metabolic support	Lina Sophie Komarek, Julia Edgar, Klaus-Armin Nave
T9-7A	Mechanism of impaired cognitive function focusing oligodendrocyte activity	Shiho Kunishima, Daisuke Kato, Bai Xianshu, Jinglei Cheng, Frank Kirchhoff, Hiroaki Wake
T9-8A	Life-long myelination can be described by rates of myelin addition and removal	Sebastian Timmler, Claudia Pama, Cagla Kaya, Hendrik Miessner, Rana Eser, Yuting Li, Benjamin Simons, Ragnhildur Thora Karadottir
T9-1B	Deletion of Thy-1 induces a distinct partially activated astrocyte phenotype in mice	Juliane Loui, Ute Krügel, Ulrike Winkler, Anja Reinert, Dorit John, Johannes Hirrlinger, Anja Saalbach
T9-2B	Interactions of Oligodendrocyte Precursor Cells and Dopaminergic Neurons in the Mouse Substantia Nigra	Ying Sun, Julia C. Fitzgerald, Frederek Reinecke, Elisabeth Bauer, Friederike Pfeiffer
T9-3B	Role of BDNF/TrkB and pro-BDNF/p75^{NTR} signaling in modulating the microglia functional state in the aging brain	Yesheng Sun, Alexandra Theurer, Marta Zagrebelsky, Martin Korte
T9-4B	Purinergic calcium signaling in astrocytes of the mouse medial prefrontal cortex	Victoria Camel, Jennifer Bostel, Christian Lohr, Antonia Beiersdorfer
T9-5B	Impact of two-week repetitive magnetic stimulation on microglia activity and neuronal plasticity	Paolo d'Errico, Christos Galanis, Claudio Elgueta, Dimitrios Kleidonas, Andreas Vlachos
T9-6B	Sex-specific molecular and cellular phenotypes of pain resolution in a rat model for neuropathic pain	Felicitas Schlott, Annemarie Sodmann, Beate Hartmannsberger, Alexander Brack, Heike Rittner, Robert Blum
T9-7B	Developmental and Neuroinflammatory Changes in Glutamate and Adenosine Receptor-Mediated Ca2+ Signaling in Astrocytes of the Olfactory Bulb	Fatemeh Mohammadpour, Kiana Samad-Yazdtchi, Antonia Beiersdorfer, Charlotte Schubert, Daniela Hirnet, Manuel Friese, Christian Lohr
T9-1C	Nav1.2 Expression in Oligodendroglial Cells	Constanza Bravo Rossainz Baez, Mariapia Grassia, Dirk Isbrandt, Friederike Pfeiffer
T9-2C	Pharmacological targeting of Smoothened receptor as a promising approach to enhance oligodendrocyte differentiation	Antonella Damiana Recchia, Alessandra Dominicis, Vincenzo Maria D'amore, Tommaso Fabiano, Luciana Marinelli, Francesco Saverio Di Leva, Antonella Ragnini-Wilson
T9-3C	The Impact of Serotonergic Signaling on Astrocyte Function and Morphology	Andre Zeug, Markus P. Schirmer, Evgeni G. Ponimaskin, Franziska E. Müller
T9-4C	A role of NAD in glial support for axonal integrity	Shuying Mao, Klaus Armin Nave
T9-5C	Effects of LPS-Induced Inflammatory signaling on Intrinsic Calcium Activity of Mouse and Human Astrocytes	Franziska E. Müller, Evgeni Ponimaskin, Andre Zeug
T9-6C	Cell-cell and cell-matrix interaction of breast tumor cells with brain cells in a 3D hydrogel-based matrix	Esra Türker, Jessica Faber, Mateo S. Andrade Mier, Nicoletta Murenu, Gregor Lang, Silvia Budday, Natascha Schaeffer, Reiner Strick, Pamela Strissel, Carmen Villmann

T9-7C	Myelination generates aberrant ultrastructure that is resolved by microglia	Minou Djannatian, Swathi Radha, Ulrich Weikert, Shima Safaiyan, Christoph Wrede, Cassandra Deichsel, Georg Kislinger, Agata Rhomberg, Thorben Ruhwedel, Douglas Campbell, Tjakko van Ham, Bettina Schmid, Jan Hegermann, Wiebke Möbius, Martina Schifferer, Mikael Simons
T9-1D	Crosstalk of α_1-noradrenergic Ca^{2+} and cAMP signaling in astrocytes of the murine olfactory bulb	Jessica Sauer, Franz Lennart Schmidt, Antonia Beiersdorfer, Daniela Hirnet, Christine E. Gee, Christian Lohr
T9-2D	Developmental profile of oligodendrocyte arrangement, identification and morphology in nuclei of the superior olivary complex	Christina Pätz-Warncke, Alina C. Zacher, Melissa Grabinski, Laura Console-Meyer, Felix Felmy
T9-3D	Astrocytic cAMP increases ATP release frequency in hippocampal slices	M. Carolina Pinto, Oana M. Constantin, Thomas G. Oertner, Christine E. Gee
T9-4D	Dynamic transcellular molecular exchange: a novel view on extracellular matrix remodeling	Svilen Veselinov Georgiev, Silvio O. Rizzoli
T9-5D	Synaptic reorganization and perisynaptic astrocyte plasticity at spines of pyramidal neurons in the motor cortex during a simple motor task	Yoshiyuki Kubota, Mohammed Youssef, Yuri Yanagawa, Shobha Upreti, Jearin Sohn, Estilla Toth, Chris Salmon, Yasuo Kawaguchi
T9-6D	Local differences in baseline Na^+ shape astrocytic K^+ uptake by the NKA	Jan Meyer, Sara Eitelmann, Karl W. Kafitz, Christine R. Rose
T9-7D	Development of Myelination in Globular Bushy Cells	Laurin Teich, Lars Kunz, Benedikt Grothe
T10 - Aging and Developmental Disorders		
T10-1A	Mechanisms of the Mast1-associated Mega-Corpus Callosum Syndrome	Patrick Heisterkamp, Maria-Fernanda Martinez-Reza, Alexandra Vilceanu, Heidemarie Genßler, Martin Heß, David Anthony Keays
T10-2A	The role of MAST2 in neurodevelopment and disease	Alexandra Catalina Vilceanu, Tabea Sophie Wabnitz, David Anthony Keays
T10-3A	Exploring Cognitive-Motor Dual-Tasking: Neuroimaging Insights into Behavioral Variability Between Young and Older Adults	Yan Deng, Amir Hussein Abdolalizadeh, Tina Schmitt, Christiane Thiel
T10-4A	Can early postnatal environment rescue impaired auditory processing and sensorimotor gating in a genetic rat model for autism spectrum disorder?	Susanne Schmid, Ella Doornaert, Brian Allman
T10-5A	Oligodendrocyte mechanotransduction channel Tmem63a fine-tunes myelin sheath thickness in the central nervous system	Ram Dereddi, Frederic Fiore, Darshana Kalita, Clement Verkest, Felipe Bodaleo Torres, Torben Ruhwedel, Angela Wirth, Anthony Hill, Annarita Patrizi, Wiebke Möbius, Stefan G Lechner, Marc Freichel, Amit Agarwal
T10-1B	Altered topography and ensemble activity in auditory cortex of *FMR1* knockout mice	Jan J. Hirtz, Simon L. Wadle, Tamara C. Ritter, Tatjana T. X. Wadle
T10-2B	Investigating Mitochondrial Abnormalities in a Mouse Model of Rett Syndrome	Laura van Agen, Michael Müller
T10-3B	DNMT1-Mediated Regulation of Inhibitory Interneuron Migration Affects Cortical Architecture and Function	Philip Wolff, Julia Reichard, Jian Du, Can Yildiz, Jenice Linde, Severin Graff, Simon Musall, Geraldine Zimmer-Bensch

T10-4B	Investigating TGFβ signalling in choroidal endothelial cells using immortalized primary cell cultures	Bianka Brunne, Luca Rüter, Wolfgang Lezou, Jakob Sebastian Bernhard, Barbara Braunger
T10-1C	Extraembryonic source of Serotonin involved in Neurodevelopment	Niccolò Milani, Laura Boreggio, Alexander Mordhorst, Sthepanie Gonçalves, Raisa Brito Santos, Fatimunnisa Qadri, Natalia Alenina, Michael Bader
T10-2C	Impaired auditory maturation and its involvement in audiogenic seizure susceptibility in a mouse model of Fragile X Syndrome	Dorit Möhrle, Wenyue Xue, Jun Yan, Ning Cheng
T10-3C	Therapeutic efficacy is significantly improved with bilateral vs. unilateral intracerebroventricular drug application in a rodent model of absence epilepsy	Rosa Beatriz Rojas, Anna-Sophia Buschhoff, Elke Edelmann, Peer Wulff
T10-4C	Novel therapeutic options for *KCNA2*-related epilepsy	Elisabeth Marianne Mechtild Brand, Peter Müller-Wöhrstein, Thomas Ott, Holger Lerche, Ulrike B. S. Hedrich
T10-1D	Pathophysiological mechanisms of epileptogenesis in a mouse model of Dravet syndrome.	Albina Farkhutdinova, Nikolas Layer, Edueni Erharhaghen, Peter Müller-Wöhrstein, Friederike Pfeiffer, Ulrike Hedrich-Klimosch, Holger Lerche, Thomas V. Wuttke
T10-2D	Fragile X mice show context-dependent deficits in vocal behaviour during opposite sex interaction	Ursula Koch, Julia Freitag, Thorsten Michael Becker, Virginia Baatz, Daniel Breslav, Leon Marquardt
T10-3D	A sandwich of glioblastoma cells and a brain tissue slice: an in vitro model to explore interactions of tumour cells with neural tissue	Maurice Meseke, Benjamin Schwindenhammer , Igor Jakovzwski, Ramon Rebstock , Firat Acur, Marie Luise Kümmel, Eckart Förster
T10-4D	Transcriptomic insights into epileptogenesis in a *Kcna2* loss-of-function mouse	Peter Müller-Wöhrstein, Hayri Calap, Elisabeth Brand, Nikolas Layer, Thomas Ott, Holger Lerche, Thomas Wuttke, Ulrike B. S. Hedrich
T11 - Alzheimer's, Parkinson's and other neurodegenerative Diseases		
T11-1A	Constitutive activity of serotonin receptor 5-HT4R in the context of neurodegenerative diseases	Lukas Eilers, Alina Brüge, Cara Grün, Frauke Bahr, Saskia Borsdorf, Josephine Labus, Andre Zeug, Evgeni Ponimaskin
T11-2A	Examining Accumulation Rate of Neuromelanin in the Locus Coeruleus as a Critical Factor for Neurodegeneration	Csilla Novák, Andrés Jaramillo Flautero, Cristian González Cabrera, Ernesto Durán, Miquel Vila, Matthias Prigge
T11-3A	Common cellular responses to rotenone and Helicobacter pylori affecting alpha-synuclein	Marzieh Ehsani
T11-4A	Glutamatergic Neurotoxicity in MCOPS12: A Disease Caused by Mutations in Vitamin A Receptor	Hanna Semaan, Jean-Marc Strub, Christine Schaeffer-Reiss, Wojciech Krezel
T11-5A	Suppressing of large-vessel signal to improve voxel-wise analysis of Quantitative Susceptibility Mapping (QSM) MR images	Björn Hendrik Schott, Renat Yakupov, Joram Soch, Anni Richter

T11-6A	NI^{2}N - Network for Interdisciplinarity and Innovation in Neurodegeneration Research: A Networking Project to Promote Progressive Multidimensional Research Concepts	Fazilet Bekbulat, Timo Löser, Christian Behl
T11-7A	Network mechanisms of epileptogenesis in a mouse model of HCN1 developmental and epileptic encephalopathies	Viktoriia Shumkova, Jacquelin Kasemir, Dirk Isbrandt
T11-8A	Memory processing in the mammillary body in a mouse model of Alzheimer's disease	Melika Kashizenuzi, Marla Witt, Lara Chirich Barrerira, Gina Krause, Anja M. Oelschlegel, Katarzyna M. Grochowska, Michael R. Kreutz, Anne Albrecht, Anne Petzold, Oliver Barnstedt
T11-9A	Assessing gastrointestinal alterations in Parkinson`s disease through stool analysis: Indications of increased inflammation	Martin Weidenfeller, Verena Schmitt, Sophie Korkisch, Alexandra Cosma-Grigorov, Franz Marxreiter, Mario Zeiss, Patrick Süß, Martin Regensburger, Stefan Wirtz, Wei Xiang, Jürgen Winkler
T11-10A	Predicting Future Cognitive Decline Using Novel fMRI-Based Biomarkers in Preclinical Alzheimer's Disease	Laura Bertram, Joram Soch, Anni Richter, Jasmin Kizilirmak, Hartmut Schütze, Frederic Brosseron, Luca Kleineidam, Christoph Laske, Oliver Peters, Josef Priller, Anja Schneider, Alfredo Ramirez, Stefan Teipel, Jens Wiltfang, Frank Jessen, Miranka Wirth, Michael Wagner, Emrah Düzel, Björn Hendrik Schott
T11-1B	CA3 hippocampal region drives epileptogenesis in an SCN2A (p.A263V) mouse model	Daniil Kirianov, Yana Reva, Birgint Engeland, Michela Barboni, Tony Kelly, Heinz Beck, Stephan Marguet, Dirk Isbrandt
T11-2B	The network-wide impact of pallidal deep brain stimulation in generalized dystonia	Denise Franz, Fabiana Santana Kragelund, Stefanie Perl, Malin Kotyra, Henning Bathel, Marco Heerdegen, Angelika Richter, Jens Starke, Konstantinos Spiliotis, Rüdiger Köhling
T11-3B	Spreading depolarizations exhaust neuronal ATP in a model of cerebral ischemia	Karl Schoknecht, Felipe Baeza-Lehnert, Johannes Hirrlinger, Jens P. Dreier, Jens Eilers
T11-4B	*Synaptic dysfunction and p53 activation cause cerebellar circuit pathology in spinal muscular atrophy*	Florian Gerstner, Sandra Wittig, Christian Menedo, Sayan Ruwald, Leonie Sowoidnich, Gerardo Martin Lopez, Chloe Grzyb, Livio Pellizzoni, Charlotte Jane Sumner, Christian Marc Simon
T11-5B	Presynaptic APP proteolysis: A Double-Edged Sword of Excitotoxicity and Compensatory Responses	Akshay Bhupendra Kapadia, Ezgi Daskin, Anne-Sophie Hafner
T11-6B	Analysis of presynaptic active zone disassembly in different models of neurodegeneration	Maximilian Goy, Marlene Barth, Jan Pielage
T11-7B	*In vivo* imaging of mitochondrial transport across neuronal cell types reveals tau-mediated dysfunction in the locus coeruleus	Theresa Niedermeier, Paul Feyen, Lars Paeger, Jochen Herms

T11-8B	Dysfunction of proprioceptive sensory synapses is a pathogenic event and therapeutic target in mice and humans with spinal muscular atrophy	Leonie Sowoidnich, CM Simon, N Delestree, J Montes, F Gerstner, E Carranza, JM Buettner, JG Pagiazitis, G Prat-Ortega, S Ensel, S Donadio, JL Garcia, P Kratimenos, WK Chung, CJ Sumner, LH Weimer, E Pirondini, M Capogrosso, L Pellizzoni, DC De Vivo, GZ Mentis
T11-9B	Transcutaneous Vagus Nerve Stimulation (tVNS) as a therapeutic approach towards the functional deterioration of the Locus Coeruleus – noradrenergic system	Aleksandra Gritskova, Kaushik More, Cristian Ariel González-Cabrera, Andres Jaramillo Flautero, Matthew Betts, Matthias Prigge
T11-10B	Effects of optogenetic inhibition of parvalbuminergic striatal interneurons on extracellular levels of neurotransmitters in DYT1 knock-in mice	Jakob Marx, Susen Becker, Lisa Höfert, Angelika Richter, Anja Schulz
T11-1C	Resident macrophage-like cells are activated in brain barrier structures of APP/PS1 male mice.	Annarita Patrizi, Valentina Scarpetta, Marco Sassoè-Pognetto , Elena Marcello
T11-2C	Hippocampal low frequency stimulation alleviates focal seizures, memory impairments and synaptic pathology in epileptic mice	Piret Kleis, Enya Paschen, Andrea Djie-Maletz, Andreas Vlachos, Carola A. Haas, Ute Häussler
T11-3C	Comparative Analysis of Navigation Ability and Short-Term Memory Binding as Potential Early Diagnostic Markers for Alzheimer's Disease: An Evolutionary Perspective	Eva Christine Gellert, Younes Adam Tabi, Katharina Helzel, Dorothee Neufeldt, Thorsten Bartsch
T11-4C	How does autophagy cope with specific synaptic needs? Consequences in brain health and disease	Sandra Fausia Soukup
T11-5C	The Role of TDP-43 as a Co-Proteinopathy in Alzheimer's Disease: Associations with Tau Pathology and Disease Progression	Amrei Purwien, Nike von Borcke, Yvonne Bouter
T11-6C	Cellular mechanisms underlying progressive neurodegeneration: Insights from the Drosophila neuromuscular junction.	Marlene Barth, Maximilian Goy, Jan Pielage
T11-7C	Expression of endocannabinoid receptor 1 is reduced in the brain of Alzheimer’s disease patients	Nike von Borcke, Amrei Purwien, Henrike Hasecke, Yvonne Bouter
T11-8C	Evaluation of CA3 place cell remapping in the APP/PS1 model mouse of Alzheimer’s Disease	Eva Maria Robles Hernandez, Solene Escoffier, Maxi Blei, Jill Dorozalla, Rina Patel, Matthias Haberl*, Silvia Viana da Silva*
T11-9C	Measuring and manipulating neuron excitability in a TDP-43 based model of Amyotrophic Lateral Sclerosis	Freya Thurn, Jonas Peper, Silvan Hürkey, Lena Lörsch, Axel Methner, Marion Silies
T11-10C	Motor neuron pathology drives spinal circuit defects and phenotype of a mouse model for spinal muscular atrophy with respiratory distress type 1	Christian Marc Simon, Katharina Sophie Apel, Margarita Koehler-Sanchez, Florian Gerstner, Aaron Lorenzo Norman, Leonie Sowoidnich, Nathanael Otte, Marie Luise Stephan, Sibylle Jablonka
T11-11C	Breaking Social Bonds: How LC Degeneration could impact Social Behavior in Parkinson's Progression	Anbarasi Pugazandhi, Diana Municchi, Cristian Gonzalez-Cabrera, Matthias Prigge
T11-1D	Effects of long-term thiethylperazine treatment on Alzheimer's pathology in Tg4-42 mice	Lisa Katharina Ruoff, Irina Wanda Helene Bänfer, Thomas Bayer, Jens Wiltfang, Yvonne Bouter

T11-2D	Effects of Low Dose Δ9-tetrahydrocannabinol (THC) on Alzheimer's Disease Pathology in 5XFAD Mice	Marzieh Enayati, Jannek Moritz Wagner, Yvonne Bouter
T11-3D	Neuronal excitability in entorhinal cortex layer II pyramidal neurons regulates tau propagation in early stage of Alzheimer's disease	Seiko Ikezu, Arun Reddy Ravula, Stephanie Radhakishun, Justice Ellison, Nibedita Basu Ray, Brendan Gibbs, Tsuneya Ikezu
T11-4D	Early disease-modifying treatment in a mouse model of Parkinson's disease: Exercise demonstrates its potential	Leonie Susan Baldauf, Malte Feja, Milos Stanojlovic, Julia Hankel, Christian Visscher, Eva Schäffer, Daniela Berg, Franziska Richter
T11-5D	Neuroprotective Effects of Lycopene: Modulation of Oxidative Stress, Neuroinflammation, and Tryptophan Pathway Metabolites in In Vitro and In Vivo Models	Shital Panchal, Pallav Gandhi
T11-6D	Molecular imaging of alpha-synuclein as a path towards Parkinson's disease diagnosis	Donatus Krah
T11-7D	Vascular pathology induced by alpha-synuclein overexpression renders the brain tissue more vulnerable to bacterial endotoxins	Kristina Lau, Anna-Sophia Hartke, Christopher Käufer, Franziska Richter
T11-8D	Investigations on proteinopathies along the gut-brain axis in dogs	Diana Voitsekhovych, Kristina Lau, Ivo Wiesweg, Nina Meyerhoff, Georg Byethien, Andreas Beineke, Holger Volk, Franziska Richter
T11-9D	Brain region-specific and systemic transcriptomic dysregulation in a human alpha-synuclein overexpressing rat model	Vivien Hoof, Olaf Riess, Nicolas Casadei, Julia Schulze-Hentrich, Thomas Hentrich
T11-10D	Electrophysiological and Neurochemical Effects of the Kynurenic Acid Analogue SZR104 in Physiological Conditions and Cerebral Ischaemia: Insights from In vitro Models	Evelin Fehér, Nóra Gödör, Tamás Farkas
T12 - Neuroimmunology, Inflammation, and Neuroprotection		
T12-1A retracted	GlyT1 inhibition promotes neuroprotection in the MCAO model through the activation of GluN2A-containing NMDAR	Mauro Cunha Xavier Pinto, Daniel Pereira Cavalcante, Antônio Ítalo Santos Nunes, Eduardo Rosa Silva, Gustavo Almeida de Carvalho, Raphaela Almeida Chiarelli, Onésia Cristina Oliveira-Lima, Giovanni Ortiz Leoncini, Henning Ulrich, Renato Santiago Gomez
T12-2A	Sepsis Induces Oligodendrocyte Dysfunction, Changes in Neural Pathways and Brain Barrier Alterations	Nina Hahn, Martin Bens, Christian Geis
T12-3A	Sex-Specific Neuronal Autophagy Disruption and Hyperphosphorylation after Neurotropic IAV Infection	Lea Gabele, Shirin Hosseini, Kristin Michaelsen-Preusse, Nele Rieke, Christian Sieben, Martin Korte
T12-1B	From autoantibodies to neuropathic pain: a cascade caused by anti-CASPR2 autoantibodies	Margarita Habib, Anna-Lena Wießler, Patrik Fischer, Maximilian Koch, Annemarie Sodmann, Felicitas Schlott, Kathrin Doppler, Carmen Villmann
T12-2B	Experimental SAH reveals differences in CBF and CBO in distinct vascular compartments for varying injection velocities and fluids	Katrin Becker, Ute Lindauer, Catharina Conzen-Dilger

T12-3B	Circular RNA circKlhl2 modulates TBI response influencing the BDNF pathway	Francesco Roselli, Marica Pagliarini, Zhenghui Li, Florian olde Heuvel
T12-1C	Blood-brain barrier integrity and sexual dimorphisms during macrophage invasion of the Drosophila nervous system	Dominik Funke, Bente Winkler, Simone Rey, Christian Klämbt
T12-2C	Immunohistochemical investigation of the components of the blood-brain barrier in a mouse model for multiple sclerosis	Hannah Gäb, Greta Hartmann, Hanna Hartwig, Anne-Wienke Nissen, Charlotte Schubert, Manuel Friese, Daniela Hirnet, Christian Lohr
T12-3C	Microglial Activation and Complement Dysregulation in Sepsis-Associated Encephalopathy (SAE)	Özge Candemir, Nina Hahn, Ha-Yeun Chung, Jonathan Wickel, Stephan Steinke, Michael Hust, Christine Skerka, Christian Geis
T12-4C	Macrophage invasion into the Drosophila brain requires JAK/STAT dependent MMP activation in the blood-brain barrier	Bente Winkler, Dominik Funke, Christian Klämbt
T12-1D	C3 and CD14 modulate diffuse but not focal neuroinflammation in TBI associated with polytrauma	Marica Pagliarini, Fan Sun, Zongren Zhao, Markus Huber-Lang, Francesco Roselli
T12-2D	Effects of the cannabinoids 2-Arachidonylglycerol and WIN 55,212-2 on primary isolated astrocytic cultures and astrocytic-microglial co-cultures	Franziska Vieregge, Tim Hohmann, Chalid Ghadban, Candy Rothgänger-Strube, Urszula Hohmann and Faramarz Dehghani
T12-3D	Modulation of glial inflammatory reactions by GPR55	Annika Hensel, Chalid Ghadban, Candy Rothgänger-Strube, Urszula Hohmann, Tim Hohmann, Faramarz Dehghani
T13 - Cognitive, Emotional, Behavioral State Disorders and Addiction		
T13-1A	Investigating Behavioural Outcomes of Early Life Stress: Insights from a rodent model	Luna Strauch, Pinja Hillman, Claudia Böhm
T13-2A	Adolescent-specific acceleration of social sear extinction through social reward system	Sukwon Lee
T13-3A	High Consumption of L-Proline Induces Depression-like-Behavior in *Drosophila melanogaster*	Josefine Hoffmann, Burkhard Poeck, Roland Strauss
T13-1B	Oxidative and Chronic Mild Stress Induce Depression-Like Behavior in *Drosophila melanogaster*.	Helen Marie-Antoinette Holvoet, Burkhard Poeck, Roland Strauss
T13-2B	Consequences of adolescent social trauma on social behaviour and neuronal circuitries	Melanie Kabas, Leopold Kinzel, Anna Bludau, Inga D. Neumann
T13-1C	Impact of stress and depression on the regulation of actin-binding proteins in the murine hippocampus	Constanze Wenzel, Jonas Cornelius, Kristin Michaelsen-Preusse, Martin Korte
T13-2C	The Impact of Social Buffering on Modulating Social Fear: Behavioral and Sex-Specific Insights in Mice	Elif Salur, Iulia Zoicas, Angelika Schmitt-Böhrer
T13-1D	Variable light exposure differentially alters midbrain dopamine expression and behaviors in a rodent model of depression	Xiongpeng Weng, Volker Arnd Coenen, Máté Daniel Döbrössy
T13-2D	Acute modulation of neuronal networks by medial forebrain bundle DBS in an animal model of depression: Focus on gamma oscillations	Artur Fornol, Lisa Ratz, Yixin Tong, Joana Pereira, Lidia Miguel Telega, Volker Arnd Coenen, Máté Daniel Döbrössy

T14 - Vision: Invertebrates		
T14-1A	Multi-scale analysis of swarm initiation and collective behavior in locusts.	Daniele Carlesso, Sercan Sayin, Vishwanath Varma, Iain Couzin, Einat Couzin-Fuchs
T14-2A	Sensory and Cognitive Rules of Locust Collective Motion	Sercan Sayin, Einat Couzin-Fuchs, Inga Petelski, Mohammad Salahshour, Chi-Yu Lee, Jacob M. Graving, Liang Li, Oliver Deussen, Gregory A. Sword, Iain D. Couzin
T14-3A	Differential feature extraction in first order visual interneurons is achieved via distinct cellular and circuit properties	Neel Wagh, Katja Sporar, Junaid Akhtar, Marion Silies
T14-4A	Influence of temperature on motion processing in the central brain of bumblebees	Bianca Jaske, Keram Pfeiffer
T14-1B	Degenerate connectivity explains functional properties of visual circuitry.	Juan Felipe Vargas Fique, Sebastian Molina-Obando, Marion Silies
T14-2B	Characterizing Navigational Strategies in *Drosophila* in Response to Varying Visual Stimuli	Romita Trehan, Hannah Haberkern
T14-3B	Neural pathways and computations that achieve stable contrast processing tuned to natural scenes.	Burak Gür, Luisa Ramirez, Jacqueline Cornean, Freya Thurn, Sebastian Molina-Obando, Marion Silies
T14-4B	Heterogeneity of synaptic connectivity in the fly visual system – causes and consequences	Jacqueline Cornean, Lena Lörsch, Sebastian Molina-Obando, Marion Silies
T14-1C	Linking visual system anatomy to neuronal function in the *Drosophila* motion-detection system	Pradeepkumar Trimbake, Camille Guillermin, Miriam Henning, Marion Silies
T14-2C	Emergence of functional diversity in the peripheral visual pathway for the encoding of naturalistic stimuli	Luisa Ramirez, Marion Silies, Julijana Gjorgjieva
T14-3C	Neural mechanisms for a stable head direction estimate in dynamic, naturalistic visual environments	Hannah Julia Martina Haberkern, Shivam Chitnis, Marcella Noorman, Philip Hubbard, Tobias Goulet, Ann Hermundstad, Vivek Jayaraman
T14-1D	Linking environmental structure and social behavior: a case study on the development of social phenotypes in the desert locust	Madhansai Narisetty, Sercan Sayin, Yvonne Hertenberger, Ahmed El Hady, Einat Couzin-Fuchs
T14-2D	Spatio-chromatic visual processing in *Drosophila*	Roshni Pillai, Julia Maria Strauß, Marion Silies, Christopher Schnaitmann
T14-3D	The Desert Locust Startle Response: Linking Descending Neurons and Behavioral Dynamics	Hannes Kübler, Yannick Günzel, Einat Couzin-Fuchs
T15 - Vision: Retina and Subcortical Pathways		
T15-1A	Behavioural studies of vision degeneration in the RD10 mice model	Anna-Lena Linke
T15-2A	Visual encoding by retinal ganglion cells in optogenetic models for vision restoration	Varsha Ramakrishna, Tim Gollisch
T15-1B	Short-term plasticity of retinal ganglion cell inputs to the dLGN depends on retinogeniculate synapse strength	Irene Santini, Florian Hetsch, Sonia Ruggieri, Eric Jacobi, Christina Buetfering, Jakob von Engelhardt
T15-2B	Modeling spatial contrast sensitivity in responses of primate retinal ganglion cells to natural movies	Shashwat Sridhar, Michaela Vystrcilová, Alexander Ecker, Tim Gollisch

T15-1C	Cortical feedback alters population activity to improve sensory coding during behavior	Augustine (Xiaoran) Yuan, Wiktor Mlynarski, Laura Busse
T15-2C	Protein-lipid binding properties implicate Piccolino in synaptic vesicle tethering at photoreceptor ribbon synapses	Michalina Gadomska, Julia Breuer, Hanna Ehnis, Sina Zobel, Renato Frischknecht, Anna Fejtová, Hanna Regus-Leidig, Johann Helmut Brandstätter, Kaspar Gierke
T15-3C	AMPA receptor desensitization decreases input and response gain in the lateral geniculate nucleus	Sonia Ruggieri, Tim Gollisch, Jakob von Engelhardt
T15-1D	Knocking out the tectofugal pathway in a bird – the role of AP-2δ in development	Stefan Weigel, Falk Brönnle, Yujunyu Zhang, Hicham Sid, Benjamin Schusser, Harald Luksch
T15-2D	Neural basis of visual information integration and decision-making in larval zebrafish	Katja Slangewal, Max Capelle, Florian Kämpf, Armin Bahl
T15-3D	Contrast Adaptation in Stimulus Encoding by Retinal Ganglion Cells	Robert Haret, Tim Gollisch
T16 - Vision: Striate and Extrastriate Cortex, Eye Movement and Visuomotor Processing		
T16-1A	Reoccurring on-going activation states in local field potentials from human visual cortex	Udo Ernst, David Rotermund, Fabrizio Grani, Eduardo Fernández Jover
T16-1B	Neural representation of color in the pigeon visual Wulst	Simon Nimpf, Ann Kotkat, Andreas Genewsky, Laura Busse, David A. Keays
T16-2B	To follow or not to follow: State-dependent modulation and inversion of the optomotor response in larval zebrafish	Sydney A. Hunt, Ashrit Mangalwedhekar, Armin Bahl
T16-1C	SynGAP1 knock down leads to precocious closure of the critical period for ocular dominance plasticity in the mouse visual cortex	Siegrid Löwel, Ariadna Sunyer, Paloma Huguet, Subhodeep Bhattacharya, Oliver M. Schlüter
T16-2C	The role of orexin/hypocretin neuropeptides for vision and visual plasticity in mice	Cornelia Schöne, Jaya Sowkyadha Sathiyamani, Paloma Huguet, Tejas Shaji Nair, Oliver Schlüter, Siegrid Löwel
T16-1D	Topographic projections from pulvinar to dorsal and ventral subdivisions of area LIP in the macaque	Sascha A. L. Ziegler, Bashir Ahmed, Andrew J. Parker, Kristine Krug
T16-2D **retracted**	A brain-wide screen reveals a preference for visual objects in the spatial navigation system that refines head direction coding	Dominique Siegenthaler, Henry Denny, Johanna Luise Mayer, Sofia Skromne Carrasco, Adrien Peyrache, Stuart Trenholm, Emilie Macé
T17 - Auditory Mechanoreceptors, Vestibular, Cochlea, Lateral Line and Active Sensing		
T17-1A	Dopaminergic modulation of habituation in the mechano-sensory system in larval zebrafish	Nils Lukas Brehm, Wolfgang Driever, Johann H. Bollmann
T17-2A	Probing the impact of the transcription factor Runx1, involved in spiral ganglion neuron subtype specification, on afferent synaptic transmission and neural firing properties	Leon Bösche, Lejla Soše, Nare Karagulyan, Nicola Strenzke, Brikha Shrestha, Tobias Moser
T17-3A	Paralemmin-3 – an essential constituent of the submembrane cytoskeleton of auditory hair cells	Christian Vogl, Victoria Christine Halim, Christina Ullrich, Iman Bahader, Makoto F. Kuwabara, Dennis Derstroff, Kathrin Kusch, Nicola Strenzke, Dominik Oliver, Carolin Wichmann, Manfred W. Kilimann

T17-1B	Evaluating the Spread of Excitation with Red Light Optogenetic Stimulation of the Auditory Nerve Through Computer Simulations and *In-Vivo* Electrophysiology	Elisabeth Koert, Jonathan Götz, Anna Vavakou, Niels Albrecht, Bettina Wolf, Tobias Moser
T17-2B	In-Silico Framework for Benchmarking Optogenetic Hearing Restoration	Lakshay Khurana, Petr Nejedly, Daniel J. Jagger, Lukasz Jablonski, Tobias Moser
T17-3B	Evaluating the utility of virtual-channel-based sound-to-neuron stimulation strategy for future optogenetic cochlear implants	Lukasz Jablonski, Antonia Klobe, Lakshay Khurana, Tobias Moser, Gerwald Lichtenberg, Lukasz Jablonski
T17-1C	Evaluation of optogenetic therapy for hearing restoration in rodent models of sensorineural hearing loss	Victoria Hunniford, Maria Zerche, Bettina Wolf, Kathrin Kusch, Thomas Mager, Tobias Moser
T17-2C	From Sound to Movement: The Neural Backbone of the Acoustic Startle Reflex	Jan Frederik Ahrend, Jana Erlmoser, Christian Vogl
T17-3C **retracted**	A minimal magnetosensory circuit in the pigeon brain	Spencer Balay, Gregory Nordmann, Simon Nimpf, Lukas Landler, E. Pascal Malkemper, David Keays
T17-1D	Assessment of Glutamatergic quantal transmission insufficiency in sensory vestibular functioning.	Ruchi Rajesh Modgekar, Mohona Mukhopadhyay, Aizhen Yang-Hood, Kevin K. Ohlemiller, Maolei Xiao, Mark Warchol, Suh Jin Lee, Rebecca Seal, Susan Maloney, Carla Yuede, Mark Rutherford, Tina Pangrsic
T17-2D	Investigating the neural correlates of the magnetic sense in the pigeon	Marco Numi, Simon Nimpf, David Keays
T18 - Auditory System: Subcortical and Cortical Processing		
T18-1A	Hearing more than Sound – Shining a light on somatosensory brainstem projections to the auditory midbrain	Falk Brönnle, Aaron Benson Wong
T18-2A	Improved temporal processing in the inferior colliculus of mice lacking the extracellular matrix protein brevican	Simone Kurt, Gerhard Bracic, Mira Türknetz, Jutta Engel
T18-3A	Auditory Competition or Binaural Decorrelation? A Comparison Between Midbrain Space Maps in the Barn Owl	Roland Ferger, Andrea J. Bae, José L. Peña
T18-4A	Origins of the Auditory Brainstem Response (ABR) in Mice: Source Localization with Multichannel Topographic EEG	Xue Wang, Andrej Kral, Rüdiger Land
T18-5A	The function of frontal subcortical projections during multisensory task learning	Nilufar Nojavan Lahiji, Irene Lenzi, Björn Kampa, Simon Musall
T18-6A	Impact of sub-lethal dosages of the insecticide flupyradifurone on the ascending auditory interneurons in the cricket brain	Marcelo Christian, Manuela Nowotny, Stefan Schöneich
T18-1B	Central compensation of neural responses to cochlear synaptopathy can be supported by dendritic spine remodeling through elevated cGMP levels	Joana Ibrahim-Bacha, Dila Calis, Morgan Hess, Csaba Harasztosi, Stefan Fink, Michele Jacob, Peter Ruth, Lukas Rüttiger, Marlies Knipper, Wibke Singer
T18-2B	Investigation of the interaction of stress hormone receptors and BDNF for hearing function in the animal model mouse	Leonas Adam, Joana Ibrahim-Bacha, Wibke Singer, Marlies Knipper, Lukas Rüttiger

T18-3B	Impact of Otoferlin Mutation on Spontaneous and Sound evoked SGN Activity	Abigail Trebilcock, Han Chen, Fritz Benseler, Nils Brose, Tobias Moser
T18-4B	Auditory cortex extracellular matrix density is increased in Mongolian gerbils with tinnitus	Konstantin Tziridis, Holger Schulze
T18-5B	Stimulus Onset contributions to Speech Comprehension	Lukas Rüttiger, Jakob Schirmer, Konrad Dapper, Stephan Wolpert, Marjoleen Wouters, Katharina Bader, Wibke Singer, Etienne Gaudrain, Deniz Baskent, Sarah Verhulst, Christoph Braun, Matthias Munk, Ernst Dalhoff, Marlies Knipper
T18-6B	Use of OPM-MEG for auditory research	Rodrigo Andrés Donoso-San Martín, Stephan Wolpert, Stefan Fink, Markus Siegel, Paul H. Delano, Christoph Braun, Lukas Rüttiger, Marlies Knipper
T18-7B	Characterization of sound evoked responses in neurons of the INLL	Nikolaos Kladisios, Felix Felmy
T18-1C	Multifunctional Organization of The Computational Map of Target Distance in Bats	Ali Roustazadeh , Uwe Firzlaff
T18-2C	Sound Processing in Insects - Temporal Coding and Forward Masking in Spiking Responses	Moritz Zenker, Manuela Nowotny, Annette Stange-Marten
T18-3C	Cerebellar activity predicts vocalization in fruit bats	Shivani Hariharan, Eugenia González Palomares, Susanne S. Babl, Luciana López-Jury, Julio C. Hechavarria
T18-4C	Central Processing of Optical Hearing in the Anteroventral Cochlear Nucleus.	Sabina Nowakowska, Antoine Huet
T18-5C	Developmental refinement of biophysical properties of neurons in the INLL	Kathrin Deborah Wicke, Felix Felmy
T18-6C	Comparative physiology of action potential generation in neurons of the MNTB	Laura Console-Meyer, Felix Felmy
T18-7C	Neuronal activity patterns in auditory cortex underlying echolocation and communication calls in bats	Susanne Stefanie Babl, Julio Cesar Hechavarría
T18-1D	Neuronal representation of vocalisations in the frontal auditory field and the dorsal auditory cortex of the bat Phyllostomus discolor	Uwe Firzlaff, Sonja C. Vernes, Stephen G. Hörpel
T18-2D	Evaluation of LED-based multichannel optical cochlear implants for refined bionic stimulation of the auditory system	Niels Albrecht, Fadhel El May, Elisabeth Koert, Dr. Anna Vavakou, Dr. Bettina Wolf, Dr. Patrick Ruther, Prof. Dr. Tobias Moser
T18-3D retracted	Rare Tone Suppression in Inferior Colliculus that depends on the relative predictability of sounds	Zhengjie Yang, Vishal Kannan, Alexandra Ertman, Poppy Barsby, Gamze Gueney, Anurupa Kamakar, Livia de Hoz
T18-4D	Role of cortical and subcortical regions in learning sound statistics	Irene Onorato, David McAlpine, Livia de Hoz
T18-5D	Statistical learning in auditory cortex and hippocampus	Xing Xiao, Livia de Hoz
T18-6D	Advancing optogenetic hearing restoration through cross-modal optimization	Anna Vavakou, Bettina Wolf, Kathrin Kusch, Thomas Mager, Patrick Ruther, Alexander Ecker, Tobias Moser
T18-7D retracted	A computational framework for unsupervised auditory sequence learning and noise segregation in mouse inferior colliculus	Vishal Kannan, Zhengjie Yang, Alexandra Ertman, Poppy Barsby, Gamze Güney, Livia de Hoz

T19 - Chemical Senses: Olfaction, Taste, Others		
T19-1A	SNMP1 is crucial for the detection of both pheromones and plant odorants in the desert locust *Schistocerca gregaria*	Joris Lehmann, Johanna Libnow, Maryam Khosravian, Jürgen Krieger, Jörg Fleischer
T19-2A	Early development of the primary olfactory centres and their neurochemistry in *Carcinus maenas* and other malacostracan crustaceans	Johanna A. Seegel, Katja Kümmerlen, Lisa Riehemann, Sophie Raspe, Gabriela Torres, Steffen Harzsch
T19-3A	Mechanosensory responses to auditory stimulation recorded at an early processing stage in the stick insect brain	Iob Lambertus Eisele, Volker Dürr, Martin Strube-Bloss
T19-4A	Linking neuronal modulation and behavioural responses during olfactory-visual learning in Honeybees	Athil Althaf Aliyam Veetil Zynudheen, Wolfgang Rössler, Martin Strube-Bloss
T19-5A	Correlating mouse head-motions with odor plume-encounters in an olfactory-guided navigation task	Mohammad F. Tariq, Scott C. Sterrett, Sidney Moore, Veronica Egger, David J. Perkel, David H. Gire
T19-6A	Functional segregation of taste qualities in the zebrafish brainstem vagal lobe is generated and sharpened locally	Sigrun Korsching, Günes Birdal
T19-7A	Characterisation of a Hunger State-Dependent Switch in Olfactory Response Behavior	Hari Pradeep Narayanan, Katrin Vogt
T19-1B	Columnar processing in the rodent olfactory bulb: 3D Characterization of a putative neuroanatomical correlate of glomerular units	Israt Jahan, Veronica Egger
T19-2B	Circuit mechanisms controlling state-dependent food intake in Drosophila	Lara Lederle, Rouven Lukas Ziegler, Janina Brückner, Anna-Lena Eckes, Xinyu Liu, Jan Pielage
T19-3B	Ca^{2+} transients in Basal Dendrites of rat Olfactory Bulb Granule Cells	Manon Leygnier, Max Müller, Veronica Egger
T19-4B	Synergistic olfactory nerve input and cholinergic neuromodulation activate ERK in rat olfactory bulb vasopressin cells	Nicolas Reichardt, Lisa Kindler, Esteban Pino, Michael Lukas, Hajime Suyama, Veronica Egger
T19-5B	AMBROS – Assay for Modular Behavioral Research on Odor and Smell	Fabian Quicken, Simon Hüppelshäuser, Christopher Wiesbrock, Marc Spehr
T19-6B	Dissecting neuronal circuits underlying olfactory sensory preconditioning in *Drosophila*	Yogesh Gadgil, André Fiala
T19-7B	Inflammatory response in olfactory systems with experimental autoimmune encephalomyelitis	Taekyun Shin
T19-8B	Modulation of olfactory bulb LFP activity by HDB cholingergic and GABAergic projections.	Yu Jiang, Daniela Brunert, Erik Böhm, Markus Rothermel
T19-1C	Functional characterization of target-defined MTCs in olfactory information processing	Siran Sireci, Kim Le, Daniela Brunert, Jan Mayland, Franziska Richter, Pablo Chamero-Benito, Markus Rothermel
T19-2C	Evolution of olfactory circuits in the pandan-specialist *D. erecta*	Sinziana Pop, Hui Gong, Zofia Ziolkowska, Lucia L. Prieto-Godino
T19-3C	Social distancing: Group behavior and the underlying neural circuits in Drosophila melanogaster larvae	Akhila Mudunuri, Katrin Vogt

T19-4C	Expression of olfactory proteins in tarsal neurons of the desert locust *Schistocerca gregaria*	Natalie-Danielle Feige, Maryam Gholamhosseinpour, Jörg Fleischer, Jürgen Krieger
T19-5C	Cellular Diversity in the Mouse Accessory Olfactory Bulb: A multidimensional approach to describe single cell types.	Andres Hernandez-Clavijo, Uday Rangaswamy, Remo Sanges, Marc Spehr
T19-6C	Identification of core genes of clock-controlled pheromone transduction in Manduca sexta	Yajun Chang, Huleg Zolmon, Monika Stengl
T19-7C	Processing of behaviorally relevant odors in the posterior tuberculum of zebrafish: bridging olfactory inputs with behavioral outputs	Thomas Offner, Bethan Jenkins, Thomas Frank
T19-8C	State-dependent modulation of odor valence and social behaviour via the main olfactory pathway	Jana Marie Sleeboom, Ilona Grunwald Kadow, Annika Cichy
T19-1D	Stimulus-dependent signal modulation in mouse olfactory signal transduction	Victoria K. Switacz, Daniela R. Drose, Marc Spehr
T19-2D	Conserved molecular signatures in hygro- and thermosensory neurons of the two dipteran species *D. melanogaster* and *Ae. aegypti*	Kristina Corthals, Ganesh Giri, Johan Reimegård, Allison Churcher, Anders Enjin
T19-3D	Analysis of neuronal morphology in the mouse bed nucleus of the accessory olfactory tract and medial amygdala	Leonie Büsching, Moritz M. Nesseler, Marc Spehr
T19-4D	Representation and Transformation of Temporally Complex Odours in the Mouse Olfactory System	Anantu Sunil, Dyutika Banerjee, Anantha Padmanabhan, Shambhavi Phadnis, Tobias Ackels
T19-5D	An olfactory social language in the naked mole-rat?	Mohammed A. Khallaf
T19-6D	Impact of Developmental Temperature on *D. melanogaster's* Olfactory Circuit Assembly and Behavior	Leticia Leandro Batista, Pascal Züfle, Ana Sofia de Castro Brandao, Giovanni D'Uva, Christian Daniel, Carlotta Martelli
T19-7D	A Functional and Molecular Atlas of the Zebrafish Olfactory Bulb: Connecting Transcriptional Diversity to Behavioral response	Oded Mayseless
T19-8D	Anterior olfactory nucleus: an intrinsically mechanosensitive relay for olfaction?	Athanasios Balomenos, Sampurna Chakrabarti, Wenhan Luo, Rosalba Olga Proce, Giovanna Ielacqua, Valérie Bégay, Mireia Pampols Perez, Annette Hammes-Lewin, Hanna Hörnberg, Gary R. Lewin
T20 - Somatosensation: Touch, Temperature, Proprioception, Nociception		
T20-1A	Navigation with touch	Wenhan Luo, Sampurna Chakrabarti, Lin Wang, Mohammed Ali, Gary R. Lewin
T20-2A	Nociception in sharks – an analysis of peripheral sensory nerves.	Sampurna Chakrabarti, Athanasios Balomenos, Jasmin Klich, Severine Kunz, Vera Schlüssel, Andrew Gillis, Gary Lewin
T20-1B	Role of leg-campaniform sensilla in Drosophila melanogaster adaptive walking	Ricardo Custódio, Anna Pierzchlinska, E. Axel Gorostiza, Till Bockemühl, Gesa Dinges, Kai Feng, Ansgar Büschges
T20-2B	Thermal encoding by GABAergic interneurons in the posterior insular cortex	Gamze Güney, Mikkel Vestergaard, Mario Carta, James Poulet

T20-1C	Advanced behavioral phenotyping in *Drosophila melanogaster* to establish a model for inhalation toxicology for volatile organic compounds	Vincent Richter, David Leuthold, Lara Weber, Nils Klüver, Andreas S. Thum
T20-2C	Load sensors in the fruit fly: detailed analysis of arborisation patterns	Anna Pierzchlinska, Gesa F. Dinges, Erica Ehrhardt, Till Bockemühl, Kai Feng, Julija Semionova, Sweta Agrawal, Tomke Stürner, Greg Jefferis, Kei Ito, Ansgar Büschges
T20-1D	Whisker-Mediated Categorization of External Space in Head-Fixed Mice	Shubhi Pal, Camille Mazo, Naoya Takahashi
T20-2D	Establishment of a human induced pluripotent stem cell-based in vitro model for the investigation of sex-specific differences in migraine pathophysiology	Oliver Dräger, Wilfried Witte, Angelique Grell, Melanie Kuhlmann, Susanna Alexandrow, Erhard Wischmeyer, Beatrice A. Nossek
T21 - Motor Systems		
T21-1A	Unravelling the neural control of forward and backward stepping of an insect leg	Angelina Ruthe, Philipp Rosenbaum, Silvia Daun, Ansgar Büschges
T21-2A	Role of pretectal dopaminergic neurons during spontaneous locomotion in zebrafish	Shagnik Chakraborty, Wolfgang Driever, Johann H. Bollmann
T21-3A	Pharmacological analysis unveils similarities in load processing between two joints in two stick insect species	Matthias Gruhn, Mascha Driesch*, Anna Haberkorn, Christopher Körsgen, Ansgar Büschges
T21-4A	Cholinergic modulation of striatal synaptic transmission after short- and long-term deep brain stimulation of the entopeduncular nucleus in an animal model of paroxysmal dystonia	Marco Heerdegen, Fabiana Santana-Kragelund, Denise Franz, Stefanie Perl, Anika Lüttig, Henning Bathel, Angelika Richter, Rüdiger Köhling
T21-5A	Prediction of Dystonic Attacks in a Hamster Model of Dystonia via Single-Channel EEG	Valentin Neubert, Rahul Bordoloi, Monique Zwar, Olaf Wolkenhauer, Rüdiger Köhling
T21-1B	Carrion crows learn to use stick-tools with high efficiency and skill	Felix W. Moll, Julius Würzler, Andreas Nieder
T21-2B	Brain-wide latent population activity integrates action and goal expectation	Yangfan Peng, Carl Lindersson, Sasha Tinelli, Jeffrey Stedehouder, Rahul S. Shah, Armin Lak, Charlotte J. Stagg, Andrew Sharott
T21-3B	Descending control of walking direction in Drosophila	Jan M Ache, Sander Liessem, Fathima Iqbal, Aleyna Meric, E. Axel Gorostiza, Federico Cascino-Milani, Till Bockemühl, Ansgar Büschges, Stefan Dahlhoff
T21-4B	Analyzing individual locomotion behavior in Drosophila larvae	Marit Praetz, Luis Garcia-Rodriguez, Christian Klämbt
T21-5B	Sleep Disruption Improves Performance in Simple Olfactory and Visual Decision-Making Tasks	Paula Pflitsch, Nadine Oury, Kumaresh Krishnan, William Joo, Declan G. Lyons, Maxim Capelle, Kristian Herrera, Armin Bahl, Jason Rihel, Florian Engert, Hanna Zwaka
T21-1C	Muscle control of multi-modal courtship signals in *Drosophila*	Melanie Stenger, Elsa Steinfath, Kimia Alizadeh, Jan Clemens
T21-2C	Vocal Strategies for Territorial Defense and Mate Attraction in Nightingales	Niels Hein, Giacomo Costalunga, Daniela Vallentin

T21-3C	Symmetry break and leg specific roles during curve walking in *Drosophila*	Ezequiel Axel Gorostiza, Divya Sthanu Kumar, Ricardo Custodio, Nino Mancini, Till Bockemühl, Kei Ito, Salil Bidaye, Ansgar Büschges
T21-4C	Auditory feedback influences syllable repetition in birdsong	Jacqueline Laura Göbl, Dmitry Kobak, Lena Veit
T21-5C	Social context affects adaptive song sequence learning in songbirds	Lioba Fortkord, Lena Veit
T21-6C	Parallel sensorimotor pathways control landing in *Drosophila*	Sander Liessem, Samuel Asinof, Aljoscha Nern, Marissa Sumathipala, Han S. J. Cheong, Tess Oram, Mert Erginkaya, Chris J. Dallmann, Gwyneth M. Card, Jan M. Ache
T21-1D	Real-Time Segmentation and Classification of Birdsong Syllables for Learning Experiments	Nils Riekers, Lena Veit
T21-2D	Kinematics of walking initiation in *Drosophila melanogaster*	Fabian Jakobs, Moritz Haustein, Till Bockemühl, Ansgar Büschges
T21-3D	Kinematic synergies of leg stepping in walking fruit flies, *Drosophila melanogaster*	Moritz Haustein, Ansgar Büschges, Till Bockemühl
T21-4D	Speed-related changes in kinematic variability in walking *Drosophila* in the context of stability and interleg coordination	Till Bockemühl, Vincent Godesberg, Ansgar Büschges
T21-5D	Structure-function analysis of cell types mediating corollary discharge signaling in larval zebrafish	Katharina Lischka, Johann H. Bollmann
T21-6D	Analysis of the local search behavior in Drosophila melanogaster larvae	Jessica Kromp, Tilman Triphan, Andreas S. Thum
T22 - Homeostatic and Neuroendocrine Systems, Stress Response		
T22-1A	Neurophysiological mechanisms of bad food decisions.	Samantha Aurich, Ulrike S. Franke, Nikita Komarov, Simon Sprecher, Peter Kovacs, Dennis Pauls
T22-2A	Impaired Satiety Mechanisms in Obesity: Disrupted PVHMC4R Neuron Activity During Feeding and Fasting	Marta Porniece, Jessica Baker, Charlotte Ausfahl, Stephen X. Zhang, Mark L. Andermann
T22-3A	Neural substrates in the postpartum brain for flexible maternal care	Mingyu Yang, Silvana Valtcheva
T22-4A	Impact of thyroid hormone transporters Mct8/Oatp1c1 on hippocampal neurotransmission and seizure susceptibility.	Andrea Alcaide Martin, Steffen Mayerl
T22-5A	A role of prefrontal inputs to lateral hypothalamus and their noradrenergic modulation in coping with stress	Alisa Bakhareva, Anne Petzold, Tatiana Korotkova
T22-1B	Leptin receptor-expressing cells of the lateral hypothalamus regulate adaptive behaviors under anxiogenic conditions	Rebecca Figge-Schlensok, Anne Petzold, Nele Hugger, Alisa Bakhareva, Chantal Wissing, Tatiana Korotkova
T22-2B	Stress, Gender and Prolactin – Immunofluorescence Differences in Rat Lactrotrophs.	Zuraiha Waffa, Abeer El Emmam Dief, Elena V. Sivukhina, Antje Prohaska, Gustav F. Jirikowski, Veronika M. Gebhart

T22-3B	Neuron type specific noradrenergic modulation in the paraventricular nucleus of the hypothalamus	Debora Fusca, Andreas C. Klein, Jon M. Resch, Henning Fenselau, Peter Kloppenburg
T22-4B	The proteomic profile of the midbrain periaqueductal gray: impact of sex and social context	Elena Kutsarova, Kristina Desch, Petros Chalas, Imke Wüllenweber, Jakob Meier-Credo , Eloah de Biasi, Genesis Rosiles, Julian D. Langer, A. Vanessa Stempel
T22-5B	Hypothalamic-thalamic pathways enable leptin-sensitive regulation of social and sexual behaviours	Anne Petzold, Rebecca Figge-Schlensok, Deema Awad, Tatiana Korotkova
T22-1C	Experience- and state-dependent adaptation of eating behavior by BDNF-expressing lateral hypothalamic populations	Carolin Schumacher, Mingyu Yang, Silvana Valtcheva, Tatiana Korotkova, Anne Petzold
T22-2C	New methods to measure risk of perinatal depression	Allison Eriksson, Andreas Frick, Marcus Grueschow, Emma Fransson
T22-3C	Contribution of leptin signaling to the sex- and estrous cycle-dependent regulation of adaptive behaviors	Deema Awad, Rebecca Figge-Schlensok, Tatiana Korotkova, Anne Petzold
T22-4C	Regulation of thyroid hormone gatekeeper genes on tanycytes by modulating hormones of the HPT axis	Akila Chandrasekar, Paula Marie Schmidtlein, Lena Kleindienst, Sebastian Abele, Frauke Spiecker, Markus Schwaninger, Helge Müller-Fielitz
T22-1D	Neuronal circuitries underlying sepsis induced adaptation of feeding behavior and locomotion in *Drosophila melanogaster*	Thomas Dieter Riemensperger, Fabienne Reh, Lennart Baumeister, Torben Gläser, Kei Ito
T22-2D	Coordinated control of feeding and metabolism through reciprocal activity of AgRP and POMC neurons	Jan E. Radermacher, Fynn R. Eggersmann, Alain J. De Solis, Almudena Del Rio-Martin, Weiyi Chen, Lukas Steuernagel, Corinna A. Bauder, Donald A. Morgan, Anna-Lena Cremer, Michael Sué, Maximilian Germer, Christian Kukat, Stefan Vollmar, Heiko Backes, Kamal Rahmouni, Jens C. Brüning, Peter Kloppenburg
T22-3D	Understanding the role of insulin signaling in the choroid plexus	Marleen Trapp, Aurica Ritter, Annarita Patrizi
T22-4D	Investigating Galanin function in Stress and Anxiety regulation	Purba Kashyap, Laura Corradi, Suphansa Sawamiphak, Alessandro Filosa
T23 - Neural Networks and Rhythm Generators		
T23-1A	Interhemispheric synaptic inputs to neocortical pyramidal cells with dendritic versus somatic axon origin	Martin Both, Aline Pannier, Tina Sackmann, Andreas Draguhn
T23-2A	Exploring neuronal organisation in the posterior slope neuropil of the *Drosophila Melanogaster* brain	Hannah Jones, Sandor Kovacs, Kei Ito
T23-3A	Network integration of neurons with different (somatic vs. dendritic) axon origin: a computational modelling approach	Livia Marina Klostermann, Andreas Draguhn, Martin Both

T23-4A	Motor control of multi-modal courtship signals in *Drosophila*	Bjarne Luca Schultze, Melanie Stenger, Kimia Alizadeh, Jan Clemens
T23-5A	A New Approach to Phase-Amplitude Coupling (PAC) Measurement: Distinguishing Phase and Temporal Dispersion	Marjan Nosouhi, Moein Esghaei, Stefan Treue
T23-6A	Identification and characterization of brain and descending neurons controlling adaptive walking in *Drosophila*	Fathima Mukthar Iqbal, Federico Cascino-Milani, Jens Goldammer, Hannah Volk, Chris Dallmann, Kei Ito, Jan M. Ache
T23-7A	Role of the $P2Y_1$ receptor in processing of olfactory signals	Shiva Shahmorad, Christian Lohr, Daniela Hirnet
T23-1B	Sensory filtering during sleep regulation	Davide Raccuglia, Cedric Beat Brodersen, Johannes Wibroe, Raquel Suárez-Grimalt, Jörg Geiger, Lorna May Shakespeare, David Owald
T23-2B	Synchronization between the hippocampus and the thalamic nucleus reuniens accompanies spatial decision making.	Tristan Baumann, Oxana Eschenko
T23-3B **retracted**	Chronic optogenetic stimulation has the potential to shape the collective activity of neuronal cell cultures	Cyprian Sebastian Adler, Friedrich Schwarz, Julian Vogel, Christine Stadelmann, Fred Wolf, Manuel Schottdorf, Andreas Neef
T23-4B	Induced respiratory dysfunction by focal stimulation of specific brain areas - implications for SUDEP	Moritz Jung, Jennifer Bauer, Henner Koch, Yvonne Weber, Markus Rothermel
T23-5B **moved to T23-7C**	Electrophysiological characterization of central brain neurons controlling walking in *Drosophila*	Sirin Liebscher, Fathima Mukthar Iqbal, Hannah Soyka, Chris J. Dallmann, Sophie Dejosez, Sander S. Liessem, Jan M. Ache
T23-6B	Neuronal circuits for flexible visuomotor transformations in the fly brain	Mert Erginkaya, Chris J. Dallmann, Sander Liessem, Jan M. Ache
T23-1C	Lactate utilization alters sharp wave-ripple networks activity in mouse hippocampal slices	Babak Khodaie, Lennart Söder, Andrea Lewen, Amr Elgez, Alexei V. Egorov, Oliver Kann
T23-2C	Transcriptionfactors CLK and CYC differentially participate in the circadian clock of the Madeira cockroach *Rhyparobia maderae*	Huleg Zolmon, Patrick Przybylla, Romy Freund, Monika Stengl
T23-3C	Large scale remodeling of the *Drosophila* nociceptive circuit during metamorphosis	Samuel Matthew Frommeyer, Dominik Nöhring, Sebastian Rumpf
T23-4C	Neonatal prefrontal efferent is behaviorally relevant but show differential developmental trajectories	Guoming Tony Man
T23-5C	Functions of the neuropeptide PDF in the cockroach circadian clock network	Anna C Schneider, Monika Stengl
T23-6C	Brain circuits that control walking speed and halting in *Drosophila*	Chris J. Dallmann, Fathima M. Iqbal, Sirin Liebscher, Hannah Soyka, Hannah Volk, Edda Sauer, Sander Liessem, Mert Erginkaya, Jens Goldammer, Kei Ito, Jan M. Ache
T23-7C	Electrophysiological characterization of central brain neurons controlling walking in *Drosophila*	Sirin Liebscher, Fathima Mukthar Iqbal, Hannah Soyka, Chris J. Dallmann, Sophie Dejosez, Sander S. Liessem, Jan M. Ache

T23-1D	Prefrontal-hippocampal neural dynamics as useful biomarkers of cognitive impairment and rescue in schizophrenia: Role of serotonin receptors	M. Victoria Puig, Thomas Gener, Cristina Lopez-Cabezon, Sara Hidalgo-Nieves
T23-2D	Gamma frequency tunes Na^+ channel availability and thereby increases dendritic excitability in cortical pyramidal neurons	Michael Gutnick, Nadav Astman, Oron Kotler, Yana Khrapunsky, Ilya Fleidervish
T23-3D	De novo assembly of a functional neuronal circuit in embryos of an ancestral metazoan	Christopher Noack, Sebastian Jenderny, Jörg Wittlieb, Lisa-Marie Hofacker, Ornina Merza, Christoph Giez, Marc Bramkamp, Karlheinz Ochs, Thomas C.G. Bosch, Urska Repnik
T23-4D	Distinct connectivity patterns along the anterior-posterior axis of the piriform cortex	Saule Nabiyeva, Sebastian H. Bitzenhofer
T23-5D	A distinct hypothalamus-habenula circuit governs risk preference	Dominik Groos, Anna Maria Reuss, Peter Rupprecht, Tevye Stachniak, Christopher Lewis, Shuting Han, Adrian Roggenbach, Oliver Sturman, Yaroslav Sych, Martin Wieckhorst, Johannes Bohacek, Theofanis Karayannis, Adriano Aguzzi, Fritjof Helmchen
T23-6D	Cell type and Molecular Architecture of the Pigeon Brain	Thamari Neranjana Kapuruge, Gregory C. Nordmann, Spencer Balay, Siebe van Manen, David A. Keays
T23-7D	Interactions of a sleep-control centre with a neural circuit used for navigation in Drosophila	Lea Kristin Ballenberger, Gero Miesenböck
T24 - Attention, Motivation, Emotion and Cognition		
T24-1A	Top-down control of dopamine learning signals in the amygdala	Wulf Haubensak, Lars Kopel, Dominic Kargl, Dow Glikman
T24-2A	Developmental trajectories of prefrontal activity patterns during working-memory performance in mice	Jastyn A. Pöpplau, Johanna Kostka, Ileana L. Hanganu-Opatz
T24-3A	Projection specific information coding in frontal cortical networks.	Irene Lenzi, Alice Despatin, Nilufar Nojavan Lahiji, Moritz Nesseler, Luca Koenig, Marc Spehr, Björn Kampa, Simon Musall
T24-4A	Anatomical organization of genetically-defined prefrontal projections to sensory cortices	Felix Jung, Loran Heymans, Xiao Cao, Marie Carlén
T24-5A	Lateral septal neuronal populations play complementary roles in regulating social and feeding behaviors	David Keller, Francisco J. de los Santos, Robson Scheffer Teixeira, Letizia Moscato, Hanna E. van den Munkhof, Haena Choi, Tatiana Korotkova
T24-6A	Characterization of Oxytocin Receptor-expressing Neurons in the Medial Septum of Mice	Laura Stangl, Inga D. Neumann, Rohit Menon
T24-7A	Number selective sensorimotor neurons in monkey prefrontal and intraparietal cortices	Laura Elisa Seidler, Stephanie Westendorff, Andreas Nieder
T24-1B	Electrophysiological correlates of selective auditory spatial attention: Effects of intranasal oxytocin	Michael-Christian Schlüter, Marlies Pinnow, Martin Brüne, Jörg Lewald
T24-2B	Determinants of the explore-vs-exploit courting strategies of the Drosophila males	Madhura D. Ketkar, Jan Clemens

T24-3B	Encoding of basic visual features across the field of view in the crow nidopallium caudolaterale	Linus Hahner, Lena Hoeppe, Andreas Nieder
T24-4B	Spontaneous and sensory-evoked arousal fluctuations engage a specific brain activity wave	Jose Maria Martinez de Paz, Johanna Mayer, Paulina Wanken, Beatriz Rodrigues Apgaua, Emilie Macé
T24-5B	Cytoarchitectonical mapping and analysis of the human temporal pole	Carla Hogrebe, Sebastian Bludau, Hartmut Mohlberg, Katrin Amunts
T24-6B	Multisensory integration and modality-specific decision-making in frontal cortex and superior colliculus	Alice Despatin, Irene Lenzi, Peter Severin Graff, Gerion Nabbefeld, Kerstin Cohlst, Daniel Gerber, Luca König, María Laura Pérez, Anoushka Jain, Sonja Grün, Björn Kampa, Simon Musall
T24-1C	Cognitive flexibility training facilitates fear extinction in C57BL/6J and 129/S1 mice	Markus Fendt, Mei Ling Iu, Laura de los Ángeles Molano Moreno, Iris Müller, Daniela C. Dieterich
T24-2C	Lateral hypothalamic neuronal dynamics command behavioral transitions and coordinate different stages of feeding	Mahsa Altafi, Changwan Chen, Mihaela-Anca Corbu, Aleksandra Trenk, Hanna van den Munkhof, Kristin Weineck, Franziska Bender, Marta Carus-Cadavieco, Alisa Bakhareva, Tatiana Korotkova, Alexey Ponomarenko
T24-3C	Diverse representation of various rewards in the dopaminergic neurons of the ventral tegmental area	Kamil Pradel, Katharina Wolff, Robson Sheffer-Teixeira, Vasyl Mykytiuk, Tatiana Korotkova
T24-4C	Crows recognize geometric regularity	Philipp Schmidbauer, Madita Hahn, Andreas Nieder
T24-5C	The role of dopamine receptors in semantic associations between signs and quantity categories in primate prefrontal neurons	Saskia Erdle, Laura E. Seidler, Andreas Nieder
T24-6C	Linking Attentional States and Neuronal Dynamics in the Locus Coeruleus During a Decision-Making Task	Ananya Joshi, Csilla Novak, Rafael Parker, Matthias Prigge
T24-7C	Effect of chemogenetic manipulations of the orexin system on cognitive flexibility and working memory in mice	Niki Panagiotou, Markus Fendt
T24-1D	Dissecting the multisensory dimensions of the social brain in mice	Johanna Luise Mayer, Emilie Macé
T24-2D	Opposite coding of competing rewards by VTA dopamine neurons	Hanna Elin van den Munkhof, Vasyl Mykytiuk, Tatiana Korotkova
T24-3D **retracted**	Whole-brain activity patterns underlying uninstructed behavioral switching in mice	Paulina Gabriele Wanken, Bradley Jay Edelman, Leafy Behera, Jose Maria Martinez de Paz, Emilie Mace
T24-4D	Social context shapes behavioral and neural dynamics of foraging and decision-making in freely moving rhesus macaques	Ayuno Nakahashi, Jessica Grunwald, Zurna Ahmed, Irene Lacal, Alexander Gail
T24-5D	Neural Dynamics of Context, Cue and Rule Encoding: The Role of PV- and SOM-Interneurons in the mPFC	Florian Steenbergen, Brice De La Crompe, Julian Ammer, Ilka Diester
T24-6D	Gaze following is not grounded in the perception of implied motion	Masih Shafiei, Marius Görner, Peter Thier
T24-7D	Cognitive biases influence numerosity judgments in macaques and crows	Lena Jannasch, Julia Grub, Andreas Nieder

T25 - Learning and Memory		
T25-1A	Dopamine modulates the excitabilty of dopaminergic neurons involved in feeding in *Drosophila*	Michael-Marcel Heim, David Owald
T25-2A	The role of recurrent long- and short-range connections in experience-dependent modulation in *Drosophila*	Sayantani Biswas, Julio Antonio Otarola-Jimenez, Bill S. Hansson, Markus Knaden, Silke Sachse
T25-3A	Memory induction in drosophila using a virtual olfactory arena	Sridhar Rajan Jagannathan, Tania Fernandez d.V. Alquicira, David Owald
T25-4A	Maturation of decision making across adolescence in mice	Amelie Hagelüken, Anne Günther, Johanna K. Kostka, Ileana L. Hanganu-Opatz
T25-5A	Memory Patterns across Synaptic Boutons: Compartmentalized Dopamine Effects along the Mushroom Body Gamma Lobe	Philip Baxter Aßmann, Ibrahim Tunc, Martin P. Nawrot
T25-6A	Determinants of trace- delay- and relief conditioning in fruit flies	Edanur Sen, Christian König, Thomas Niewalda, Fatima Amin, Sevval Demirci, Melissa Comstock, Bertram Gerber
T25-7A	Open plasticity window during memory consolidation in *Drosophila melanogaster*	Tania Fernandez del Valle Alquicira, Lisa Schuenemann , Desiree Laber, Marine Balcou, David Owald
T25-8A	Cortex and hippocampus differentially contribute to spatial coding in subiculum	Oliver Barnstedt, Dennis Dalügge, Hiroshi Kaneko, Liudmila Sosulina, Silvia Vieweg, Kimia Farghadayn, Stefan Remy
T25-9A	Dissection of neuronal circuits underlying olfactory sensitization – The role of a neuronal circuit in the mushroom body calyx	Lisa Epple, Hannah Mariedele Luksch, André Fiala
T25-1B	Effects of social experience on neural function in *Drosophila*	Frederic Alexander Römschied
T25-2B	Differential effects of starvation on different forms of short-term memory in Drosophila melanogaster	Juliane Thoener, Svea Königsmann, Thomas Niewalda, Sevval Demirci, Latafat Guliyeva, Fatima Amin, Isabel Walther, Mozhdeh Besharatifar, Bertram Gerber, Christian König
T25-3B	Contribution of the neural network to the consolidation of generalized motor content during sleep	Nesa Ahmadi, Farzin Kamari, Olga Garaschuk, Lisa Marshall
T25-4B	Cell-type specific actions of Nogo-A in controlling spatial memory formation by modulating neuronal excitability	Jan Flechtner, Martin Korte, Marta Zagrebelsky
T25-5B	Exploring structural and functional properties of the lizards' cortical regions.	Niels Röhrdanz, Ceylan-Scarlett Steinecke, Anil Menon, Kira Balueva, Elke Edelmann, Peer Wulff
T25-6B	Integration of Information in the Absence of Action in Drosophila	Johanna Aurelia Schweizer, Johannes Felsenberg
T25-7B	Neuronal Modulation by Latent Inhibition in Antennal Lobe and Mushroom Body Output	Cansu Arican, Martin Strube-Bloss, Brian H Smith, Martin P Nawrot
T25-8B	Modulation of contextual fear memory circuits by acute phase delay	Lara Mariel Chirich Barreira, Hannah Gapp, Julia Henschke, Janelle Pakan, Anne Albrecht

T25-9B	Brain-wide networks for category learning in the mouse	Selina Majaj, Sandra Reinert, José-Maria Martinez de Paz, Mark Hübener, Pieter M. Goltstein, Emilie Macé, Tobias Bonhoeffer
T25-1C	The role of epigenetic mechanisms for body size memory in *Drosophila melanogaster*	Natalie von Hattingberg, Burkhard Poeck, Roland Strauss
T25-2C	Unraveling the role of sleep in vocal learning	Artemis Gkinakou, Hamed Yeganegi, Janie M. Ondracek
T25-3C **moved to T25-9B**	Brain-wide networks for category learning in the mouse	Selina Majaj, Sandra Reinert, José-Maria Martinez de Paz, Mark Hübener, Pieter M. Goltstein, Emilie Macé, Tobias Bonhoeffer
T25-4C	Pattern completion of contextual fear memory: Modulation by hippocampal somatostatin-positive interneurons	Gina Marie Krause, Oliver Stork, Anne Albrecht
T25-5C	Behavioral algorithms underlying flexible decision-making	Ashrit Mangalwedhekar, Sydney Hunt, Armin Bahl
T25-6C	Unlocking visual pathways: Enhanced visual learning through olfactory deprivation in *drosophila*	Büsra Çoban, Johannes Felsenberg
T25-7C	Olfactory-visual integration in input and output regions of the mushroom bodies in the honeybee, *Apis mellifera*	Andrea Rafaela Nicolaidou, Claudia Groh, Martin F. Strube-Bloss, Keram Pfeiffer, Wolfgang Rössler
T25-8C	Action, valence, dopamine- Drosophila as a study case	Fatima Amin, Oliver Barnstedt, Salil Bidaye, Ilona C. Grunwald Kadow, Marcel Heim, Christian König, Ashok Litwin-Kumar, Utsab Majumder, Nino Mancini, Kazuma Murakami, David Owald, Anna Pierzchlinska, Jasmine T. Stone, Bertram Gerber
T25-9C	Oppositional and competitive instigation of hippocampal synaptic plasticity by the VTA and locus coeruleus	Hardy Hagena, Denise Manahan-Vaughan
T25-1D	Optogenetic Control of Mitochondria in PV+ Interneurons Alters CA1 Function	Rina Patel, Matthias Haberl, Silvia Viana Da Silva
T25-2D	Nogo-A regulates fear memory processes and memory engram formation by modulating neuronal excitability in a sex-specific manner	Sebastian Stork, Jennifer Just, Kristin Metzdorf, Marta Zagrebelsky, Martin Korte
T25-3D	The role of gamma oscillations in stimulus encoding and memory maintenance during a sequential memory task in the human Medial Temporal Lobe	Muthu Jeyanthi Prakash, Johannes Niedek, Thomas P. Reber, Valerie Borger, Rainer Surges, Florian Mormann, Stefanie Liebe
T25-4D	Neural circuits that regulate exploratory odor-driven behavior	Giovanni D'Uva, Christian Daniel, Leticia Batista, Carlotta Martelli
T25-5D	Towards establishing a cocaine preference model in *Drosophila melanogaster*	Isabella Susanne Balles, Raquel Suárez-Grimalt, David Owald
T25-6D	In vivo imaging and optogenetics reveals a role of the mammillary body in spatial reward memory	Marla Yasmin Witt, Deema Awad, Tatiana Korotkova, Oliver Barnstedt, Anne Petzold
T25-7D	Acute circadian rhythm disturbance impairs contextual-memory engrams in the dentate gyrus	Harini Srinivasan, Anne Albrecht, Oliver Stork
T25-8D	Changes in neural representation of social conspecifics in response to reward learning	Lars-Lennart Oettl, Cristina Mazuski, Chenyue Ren, John O'Keefe

T25-9D **moved to T25-9C**	Oppositional and competitive instigation of hippocampal synaptic plasticity by the VTA and locus coeruleus	Hardy Hagena, Denise Manahan-Vaughan
T26 - Computational Neuroscience		
T26-1A	Adaptive mechanism in clustered spiking attractor model explains Experimental Firing Rates and Variability	Felicitas A-L Bierth, Martin P. Nawrot, Felix J. Schmitt
T26-2A	Distributed reinforcement signals among Drosophila larva dopaminergic neurons guide learning in individual mushroom body compartments	Anna-Maria Jürgensen, Denise Weber, Andreas S. Thum, Martin P. Nawrot
T26-3A	Bridging Tuning and Invariance with Equivariant Neuronal Representations	Judith Hoeller, Lin Zhong, Marius Pachitariu, Sandro Romani
T26-4A	Computing in neuronal networks with plasticity via all-optical bidirectional interfacing	Andrey Formozov, J. Simon Wiegert
T26-1B	DENOISING: Dynamic Enhancement and Noise Overcoming in Multimodal Neural Observations via High-density CMOS-based Biosensors	Xin Hu, Brett Emery, Shahrukh Khanzada, Hayder Amin
T26-2B	The non-human primate connectome	Oliver Schmitt, Marie Bellmann, Stefanie Haase, Prathapan Vishnu, Eipert Peter
T26-3B	Establishing functional ultrasound imaging in crows	Eva Schwarzbach, Diana A. Liao, Andreas Nieder
T26-4B	Data-Driven Pipeline for Characterizing and Simulating Sensory Neurons Using Electrophysiology Recordings	Ibrahim Alperen Tunc, Jan Radermacher, Svenja Corneliussen, Vahid Rostami, Peter Kloppenburg, Martin Paul Nawrot
T26-5B	An automated behavioral setup for multisensory perception and cortical activity in awake mice	Fatemeh Yousefi, Dennis Laufs, Natalia Babushkina, Christopher Wiesbrock, Gerion Nabbefeld, Björn Kampa, Simon Musall
T26-1C	A bio-physically inspired model for synaptic tagging and capture	Michael Fauth, Francesco Negri, Jannik Luboeinski, Christian Tetzlaff
T26-2C	Towards developing a syllable dictionary for characterizing Nightingale songs	Mahalakshmi Ramadas, Jan Clemens, Daniela Vallentin
T26-3C	Spatiotemporal Deep Learning Pipeline for Decoding Stimulus-Driven Whole-Brain Calcium Imaging	Amina Abdelbaki, Paul Bandow, Karen Cheng, Ilona Grunwald-Kadow, Martin Nawrot, Vahid Rostami
T26-4C	Dissociation of multisensory processing in superior colliculus and primary sensory cortex	Daniel Gerber, Peter Severin Graff, Björn Kampa, Simon Musall
T26-5C	How pronounced refractoriness prevents resurgent excitation in bidirectional motor nerve nets of the jellyfish	Peixuan Wu, Jan-Hendrik Schleimer, Susanne Schreiber
T26-1D	Excitatory-Inhibitory Interaction Shapes Activity-Dependent Self-Organization of Neuronal Networks	Richmond L. Crisostomo, Shreya Agarwal, Ulrich Egert, Samora Okujeni
T26-2D	A Novel AI-based Tool for Real-Time USV Detection as Unbiased Markers of Distinct Social Interactions	Ali Mohammadi, Jens F. Tillmann, Martin K. Schwarz
T26-3D	Estimating Latent Variables of Decision-Making Behavior in Zebrafish Larvae	Roberto Garza, Ahmed El Hady, Armin Bahl

T26-4D	Interaction with third parties shapes courtship behavior in groups of fruit flies	Amirmohammad Naderi, Adrián Palacios Muñoz, Sarath Ravindran, Jan Clemens
T26-5D	Beyond firing rate homeostasis: How neurons can tune their excitability class using higher-order statistics of the Calcium signal	Hannah Schultheiss, Nelson Niemeyer, Jan-Hendrik Schleimer, Susanne Schreiber
T27 - Techniques and Demonstrations		
T27-1A	MouseFlow: a Python toolbox for high-resolution behavioral tracking in head-fixed mice using optical flow and kinematic analyses	Lam Q. Bui, Felix Kuhn, Janelle M. P. Pakan, Simon Musall, Anne Petzold, Oliver Barnstedt
T27-2A	A genetic tool for tracing electrical synaptic connectivity	Rachita Taneja, Stefanie Ryglewski, Carsten Duch, Marion Silies, Christopher Schnaitmann
T27-3A	Multiscale light sheet fluorescence expansion microscopy reveals region-specific synaptic innervation of HDB projections within the olfactory bulb	Juan Eduardo Rodriguez Gatica, Ulrich Kubitscheck, Martin K. Schwarz
T27-4A	A stimulus and analysis framework for self-consistent estimations of ionic current dynamics from voltage clamp experiments	Lukas Sonnenberg, Stephan Lauxmann, Jan Benda
T27-5A	Eliminating the Edge Effect in Neuronal Cell Culture	David Daniel Murphy, Piotr Niziolek, Paul Turko
T27-6A **retracted**	Cardiac Dysfunction and Immune Infiltration of Cardiac Tissue in Murine Model of Recurrent Stroke	Laura Kate Ismajli, Polina Bugaeva, Sylwia Piatek, Eduart Temaj, Amido Daugardt, Marco Foddis, Ronja Marion Dörk, Tingting Wang, Amelie Weber, Susanne Mueller, Phillip Boehm-Sturm, Nikolaus Wenger, Christian Hoffman, Linda Hammerich, Christian Oeing, Christoph Harms
T27-6A	Advancements towards high-throughput array tomography for hippocampal circuit analysis	Pelin Ayyildiz, Laura-Jane Neßler, Rina Patel, Silvia Viana da Silva, Matthias Haberl
T27-7A	Minimally invasive holographic microendoscope for subcellular deep brain imaging	Hana Cizmarova, Sergey Turtaev
T27-1B	Limitations of Click Chemistry in Neuroimaging: Non-specific Alkyne Binding in Neurons	Piotr Aleksander Niziolek
T27-2B	The quantification of cellular structures in the intact cochlea by advanced sub-micron light sheet imaging	Lennart Roos, Aleyna M. Diniz, Mostafa Aakhte, Anupriya Thirumalai, Elisabeth Koert, Jakob Neef, Bettina J. Wolf, Constantin Pape, Jan Huisken, Tobias Moser
T27-3B	Implementation of the CRISPR/Cas9 toolbox enables targeted genome editing in the parthenogenetic stick insect *Medauroidea extradentata*	Elina Dirksen, Benjamin Altenhein, Sigrun Korsching, Ansgar Büschges, Giulia Di Cristina
T27-4B	Analysis of Glial Cell Morphology in EAE Mice and Olfactory Stimulation Experiments Using Advanced Imaging and Tissue-Clearing Technologies	Insa Gudrun Kreimer, Hanna Hartwig, Greta Hartmann, Hannah Gäb, Anne-Wienke Nissen, Charlotte Schubert, Manuel Friese, Daniela Hirnet, Christian Lohr

T27-5B	An innovative approach for conducting 3D electrophysiological recordings within intact organoids.	Kerri Kukovetz, Tom Stumpp, Sara Mirsadeghi, Michael Mierzejewski, Angelika Stumpf, Haein Chang, Udo Kraushaar, Ali Hosseini, Michele Giugliano, Jenny Hsieh, Peter Jones
T27-6B	Oxygen imaging of hypoxic pockets in the mouse cerebral cortex	Felix Ralf Michael Beinlich, Antonios Asiminas, Verena Untiet, Zuzanna Bojarowska, Virginia Plá, Björn Sigurdsson, Vincenco Timmel, Lukas Gehrig, Michael H. Graber, Hajime Hirase, Maiken Nedergaard
T27-1C	Inverse BiPOLES: Expanding the Toolkit for Bidirectional Optogenetic Control of Neuronal Activity	Yilmaz Arda Ates, Niklas Meyer, Johannes Vierock, J. Simon Wiegert
T27-2C	Fused Fiber Photometry 2.0: intensiometric and ratiometric monitoring of neuronal activity	Alexander Dieter, Andrey Formozov, Andrei Kalinichenko, Marton Molnar, Lena Eschholz, Simon Wiegert
T27-3C	ChReef – An improved ChR for Future Optogenetic Therapies	Alexey Alekseev, Victoria Hunniford, Maria Zerche, Aida Garrido-Charles, Isabel Witzke, Kathrin Kusch, Tobias Moser, Thomas Mager
T27-4C	Investigating fluorescent neurotransmitter sensor dynamics using fast patch-clamp fluorometry	Latife Sönmez, Tim Ziebarth, Laura Moreno Wasielewski, Stefan Pollok, Andreas Reiner
T27-5C	RNA splicing revisited: New molecular tools for analysis of cryptic splice donors at single cell resolution	Magnus Harnau, Barbara Schweisstahl, Leonie Emde, Steffen Fricke, Jochen Meier
T27-1D **moved to T27-6A**	Advancements towards high-throughput array tomography for hippocampal circuit analysis	Pelin Ayyildiz, Laura-Jane Neßler, Rina Patel, Silvia Viana da Silva, Matthias Haberl
T27-2D	Optimizing Viral Transduction of the Locus Coeruleus: A Comparison of Model Systems and Strategies	Lena Susann Eschholz, Chantal Wissing, Maxime Maheu, Kathrin Sauter, Fabio Morellini, J. Simon Wiegert, Alexander Dieter
T27-3D	Epidural focused ultrasound stimulation in a rodent model of depression	Lisa Ratz, Lidia Miguel Telega, Tiago Costa, Volker Arnd Coenen, Máté Daniel Döbrössy
T27-4D **moved to T27-7A**	Minimally invasive holographic microendoscope for subcellular deep brain imaging	Hana Cizmarova, Sergey Turtaev
T27-5D	Primary Neuronal Cell Culture in Ambient CO_2	John Carl Begley, Yi Lien, Camin Dean, Paul Turko
T27-6D	High Purity Fluorescence-activated Vesicle Sorting for Enrichment of Extracellular Vesicle (Brain) Specific Populations	Isabel Graf, Anne Rissiek, Jochen Behrends, Santra Brenna, Christina Krüger, Christopher Urbschat, Bente Siebels, Franz Ricklefs, Amanda Salviano-Silva, Anke Diemert, Petra Arck, Tim Magnus, Berta Puig