

Explanation of Abstract Numbers

There is one poster session on each day, i.e. on Wednesday, Thursday and Friday. 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 and posters with a poster number ending with a C are displayed on Friday.

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 23, 2023, 10:15 -11:00 h in the poster area for Topic 21.

Poster sessions

Poster session A: Wednesday, March 22 13.00 – 14.30 h

Poster session B: Thursday, March 23 09.30 – 11.00 h

Poster session C: Friday, March 24 10.30 – 12.00 h

Poster Topics

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

Poster No.	Title of the Poster	Author(s)
T1 - Stem cells, Neurogenesis and Gliogenesis		
T1-1A	Analysis of the role of the human-specific gene ZNF492 during neocortex development and evolution by genetic modification of human and chimpanzee cerebral organoids.	Lidiia Tynianskaia (1), Neringa Liutikaite(1), Wieland B. Huttner(2), Michael Heide(1,2)
T1-2A	Assessing the functional role of niche astrocytes in regulation of adult hippocampal neurogenesis	Evangelia Masouti (1), Felix Beyer(1), Ruth Beckervordersandforth(1)
T1-3A	Chromatin remodeling BAF complex dependent mechanisms in development of cortical interneurons	Xiaoyi Mao (1), Pauline Antonie Ulmke(2), Jochen F. Staiger(1), Tran Tuoc(2)
T1-4A	Development of myelin in fetal and postnatal neocortex of the European wild boar, <i>Sus scrofa</i> .	Eric Sobierajski (1), German Lauer(1), Katrin Czubay(1), Hannah Grabetz(1), Christa Beemelmans(2), Christoph Beemelmans(2), Gundela Meyer(3), Petra Wahle(1)
T1-5A	DOT1L confers cell-autonomous effects on developing cortical interneurons.	Marta Garcia Miralles (1), Arquimedes Cheffer(1), Ipek Akol(1,2), Tanja Vogel(1,3)
T1-6A	Dot1l deletion in cortical glutamatergic progenitors impacts the proper development of mouse GABAergic interneurons	Arquimedes Cheffer (1), Marta Garcia-Miralles(1), Camila Fullio(1,2), Tanja Vogel(1,3)
T1-7A	Using stem cells to model human corticogenesis in vivo	Omer Revah (1)
T1-1B	Identification of cancer-associated fibroblast-like cells in a rat model of glioblastoma	Thibault Lootens (1,2), Christophe Mangodt(2), Bart Roman(2), Christian Stevens(2), Robrecht Raedt(1)
T1-2B	Individual and combined functions of the human-specific genes NBPF14 and NOTCH2NLB during neocortical development	Nesil Esiyok (1), Christiane Haffner(2), Wieland B. Huttner(2), Michael Heide(1,2)
T1-3B	Inner-nuclear relocation of gene loci linked to developmental neural stem cell competence of <i>Drosophila</i> is dependent on nuclear β -actin activity	Joachim Urban (1), Prasad Chikte(1)
T1-4B	Investigating the effects of CNVs in the ADHD risk gene PARK2 on transcript and protein expression in iPSC-derived neural cells	Carolin Kurth (1), Rhiannon McNeill(1), Zora Schickardt(1), Sarah Kittel-Schneider(1)
T1-5B	Label-free functional characterization of human brain organoids at single-cell resolution	Wei Gong (1)
T1-6B	Modelling Tubulinopathies with Human Stem Cells	Thomas David Cushion (1), Romina Romaniello(2), David Anthony Keays(3)
T1-1C	Molecular determinants of neocortical development	Elisa Pedersen (1), Ekaterina Epifanova(1), Paul Moritz Willecke(1), Marta Rosário(1)
T1-2C	Novel SHH modulators and candidate modifier genes for congenital brain disorders – functional studies in mouse and human neuronal precursors	Gökce Nihan Yildirim (1), Tamrat Meshka Mamo(1), Izabela Kowalczyk (1), Annette Hammes(1)
T1-3C	Role of DNA Topoisomerase II β in the Differentiation of Neural Stem Cells	Nina Trautwein (1), Melanie Grotz(1), Bodo Laube(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T1-4C	Suggestion of general mechanisms and relationships between brain, pancreas and myocardium by application of different methods for assay in experimental models	Iskra Sainova (1)
T1-5C	Studying the properties of human neural cells and networks using cultured brain organoid slices (cBOS)	Laura Petersilie (1), Stephanie Le(2), Karl W. Kafitz(1), Alessandro Prigione(2), Christine R. Rose(1)
T1-6C	The role of Sox9 in regulating the neuron/glial switch of adult hippocampal neural stem cells	Felix Beyer (1), Anne Peter(1), Michael Wegner(1), Ruth Beckervordersandforth(1)
T2 - Axon and Dendrite Development, Synaptogenesis		
T2-1A	Cytoskeleton based local transport via myosins during synapse formation.	Sophie Marie Walter (1), Astrid Petzoldt(1)
T2-2A	Development of distinct descending cortical pathways	Philipp Abe (1,2), Adrien Lavalley(1), Ilaria Morassut(1), Esther Klingler(1), Antonio Santinha(3), Randall Platt(3), Denis Jabaudon(1)
T2-3A	Development of GABAergic synapses in the sensory cortex of early postnatal mice	Ahd Abusaada (1), Prof. Dr. Werner Kilb(1), Prof. Dr. Heiko Luhmann(1)
T2-4A	Developmental competition ensures correct synapse numbers for motor circuit assembly and function	Lion Huthmacher (1), Selina Hilgert(2), Silvan Hürkey(3), Stefanie Ryglewski(4), Carsten Duch(5)
T2-5A	Emergence of cortex-wide calcium dynamics during postnatal mouse development	Davide Warm (1)
T2-6A	Flies in a centrifuge: Rewiring the brain with hyper-gravity	Felix Graf (1), P. Robin Hiesinger(1)
T2-1B	Influence of developmental temperature on the wiring and variability of the Drosophila olfactory pathway	Pascal Züfle (1), Leticia Batista (1), Carlotta Martelli (1)
T2-2B	Pharmacological modulation of the GluN2C/2D NMDA receptor subunit does not influence interneuron and pyramidal cell maturation in visual cortex OTC's	Lisa Marie Rennau (1), Leon Hoffmann(1), Ina Köhler(1), Petra Wahle(1)
T2-3B	Robustness of Early Pattern Formation in the Drosophila Visual Map	Berna Melinda Nabavi (1), Charlotte B. Wit(1), Egemen Agi(1), P. Robin Hiesinger(1)
T2-4B	Systematic functional analysis of Rab GTPases in neuronal development and maintenance	Ilsa-Maria Daumann (1), Friederike E. Kohrs(1), Hanna Stiedenroth(1), P. Robin Hiesinger(1)
T2-5B	The cell surface protein Roughest mediates neurite branch competition during brain wiring	ABHISHEK JAYANT KULKARNI (1), Thanh Thanh Tu Tran(1)
T2-1C	The development of MC3R neurons, AgRP and POMC neuronal projections and the maintenance of intra-hypothalamic neuronal circuits.	Selma Yagoub (1)
T2-2C	The role of MAST2 in neurodevelopment and disease	Alexandra Catalina Vilceanu (1), Maria Sergaki(2), Fernanda Martinez-Reza(2), Florian Walter(1), David Keays(1,2,3)
T2-3C	Visual map formation without target-dependent guidance in Drosophila	Egemen Agi (1), Eric Reifenstein(2,3), Charlotte Wit(1), Monika Kauer(1), Teresa Schneider(1), Max von Kleist(2,3), Peter Robin Hiesinger(1)
T2-4C	Chrono-Anatomical Description of Dopaminergic Neurons during Metamorphosis in Drosophila melanogaster	Anne Sophie Oepen (1), Jiajun Zhang(1), Oren Schuldiner(2), Thomas Riemensperger(1), Kei Ito(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T3-5C	Cyclase-associated protein 1 (CAP1) inhibits MRTF-SRF-dependent gene expression in the mouse brain	Sharof Khudayberdiev (1), Anika Heinze(1), Uwe Linne(2), Marco B Rust(1)
T3 - Developmental Cell Death, Regeneration and Transplantation		
T3-1A	Activity-dependent regulation of the BAX/BCL-2 pathway protects cortical neurons from apoptotic death during early development	Jonas Schroer (1), Davide Warm(1), Heiko J Luhmann(1), Anne Sinning(1)
T3-2A	An analysis of temperature dependence discloses two distinct processes in axon regeneration	Céline Rehl (1), Alexander Hecker(1), Stefan Schuster(1)
T3-1B	Chromatin compaction precedes apoptosis in developing neurons	Elena Nigi (1), Renata Rose(1), Nicolas Peschke(1), Márton Gelléri(2), Sandra Ritz(2), Christoph Cremer(2,3,4), Heiko J. Luhmann(1), Anne Sinning(1)
T3-2B	Patterned electrical activity regulates neuronal apoptosis in immature cortical neurons and networks	Anne Sinning (1), Davide Warm (1), I. Emeline Wong Fong Sang(1), Jonas Schoer(1), Werner Kilb (1), Heiko J. Luhmann (1)
T3-1C	Restoration of motor function through intraspinal delivery of human IL-10-encoding nucleoside-modified mRNA after spinal cord injury	Antal Nógrádi (1), László Gál(1), Annamária Marton(2), Zoltán Fekécs(1), Drew Weissmann(3), Dénes Török(1), Rachana Biju(1), Csaba Vizler(2), Paolo Lin(4), Ying Tam(4), Norbert Pardi(3), Krisztián Pajér(1)
T4 - Neurotransmitters, Retrograde messengers and Cytokines		
T4-1A	Autophagosome transport in Noradrenergic axons in-vivo	Ahmed A. Aly (1,2), Micheal kreutz (1), Matthias Prigge(2), Anna Karpova(1)
T4-2A	Dissecting functional vesicle pools and serotonin-release kinetics from mouse enterochromaffin cells	Ahmed Shaaban (1), Jaden Quale(1), Benjamin Cooper(2), Cordelia Imig(1)
T4-1B	Histamine in the Drosophila melanogaster larva- a comprehensive overview of its anatomy	Astrid Rohwedder (1), Andreas S. Thum(1)
T4-2B	Hunting of potential coupling factors controlling circadian and ultradian rhythms of feeding by neuropeptidomics and mass spectrometry imaging of neuropeptides from the Drosophila brain	Deepika Bais (1), Susanne Neupert(1)
T4-1C	Nitric oxide synthase in the CNS and immune system of mosquitoes	Stella Bergmann (1), Anne Schmitz(1), Celina Möller(1), Stefanie Becker(2), Michael Stern(1)
T4-2C	Analysis of PARP inhibitors in NMDAR-mediated radio-resistance in breast cancer cells	Jannik Wempe (1), Raffaella van Heeck(1), Bodo Laube(1)
T4-3C	sDarken – Next generation genetically encoded sensors for serotonin	Martin Claus Maria Kubitschke (1), Monika Müller(4), Lutz Wallhorn(1), Mauro Pulin(3), Manuel Mittag(4), Stefan Pollok(2), Tim Ziebarth(2), Svenja Bremshey(1), Jill Gerdey(1), Kristin Carolin Claussen(1), Kim Renken(1), Pascal Gneisse(1), Juliana Groß(1),
T5 - G Protein-linked and other Receptors		
T5-1A	Heterodimerization and interaction of the serotonin-receptors 5-HT1A and 5-HT2C	Imandra Laura Kempe (1), Dr. Michael Koch(2), Dr. Olivia A. Masseck(3)
T5-2A	Love on a cellular level: The "love-hormone" oxytocin accelerates tight junction formation in 3D spheroids	Benjamin Jurek (1,2), Lucia Denk(2), Nicole Schäfer(3), Saied Salehi(4), Sareh Pandamooz(5), Silke Haerteis(2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T5-1B	Modulation of emotional behavior by HCA2 receptor deficiency in chronic skin inflammation	Hagen Lange (1), Evelyn Gaffal(2)
T5-2B	The hyaluronan receptor CD44 modulates serotonin receptor 7 signaling	Saskia Borsdorf (1), Josephine Labus(1), Andre Zeug(1), Evgeni Ponimaskin(1)
T5-1C	The role of brain endothelial Gαq/11 signaling in the cognitive function of mice	Dimitrios Spyropoulos (1), Dorothea Ziemens(1), Anne-Sophie Gutt(1), Sonja Binder(1), Markus Schwaninger(1), Jan Wenzel(1)
T5-2C	Using Pluripotent Stem Cells as a model to determining expression, function and pharmacology of GLP-1 receptor in human hypothalamic POMC neurons	SIMONE MAZZAFERRO (1), Hsiao-jou Cortina Chen(1), Andrian Yang(1,2), Iman Mali(1), Matthew Livesey(3), Peter Kirwan(1), Sanya Aggarwal(1), Venkat Pisupati(1), Matthew Livesey(2), Florian Merkle(1)
T6 - Ligand-gated, Voltage-dependent Ion Channels and Transporters		
T6-1A	Characterization of a Kcna2 loss of function mouse model	Peter Müller (1), Nikolas Layer(1), Ahmed Elthoki(1,2), Thomas Ott(3), Holger Lerche(1), Thomas Wuttke(1), Ulrike B S Hedrich(1)
T6-2A	Characterization of the interaction between gephyrin and the full-length glycine receptor	Nele Marie Burdina (1), Theresa Schneider(1), Elmar Behrmann(1), Günter Schwarz(1,2)
T6-3A	Effects of increased Cav1.3 Ca ²⁺ currents in inner hair cells of Cav1.3-DCRDHA/HA mice on pre- and postsynapses, hearing, and the consequences of an acoustic trauma	Philipp Maximilian Fischer (1), Kerstin Blum(1), Fahmi Nasri(1), Simone Kurt(1), Jutta Engel(1)
T6-4A	Putative roles of NBCe1-KCC2 interaction on KCC2 activity in distinct neuronal maturation stages.	Abhishek Pethe (1), Anna-Maria Hartmann(2), Bernd Heimrich(3), Eleni Roussa(1)
T6-5A	Investigating putative pacemaker currents in the Drosophila melanogaster central nervous system	Anatoli Ender (1,2), Davide Raccuglia(1), David Oswald(1,2)
T6-1B	Leptin deficiency leads to functional dysregulation of pacemaker currents in the somatosensory thalamus of the mouse.	Paula Patricia Perissinotti (1), Florencia Correa(1), Francisco Urbano(1)
T6-2B	Localization and function of mutually exclusive exons of the Cav2 channel cacophony in the Drosophila visual system	Veronica Pampanin (1), Tobias Rinas(1), Lukas Kilo(2), Carsten Duch(1), Stefanie Ryglewski(1)
T6-3B	Probing the role of ion channel degeneracy for robust neuronal excitability	Selina Hilgert (1), Lion Huthmacher(1), Silvan Hürkey(1), Carsten Duch(1), Stefanie Ryglewski(1)
T6-4B	Resurrected from obscurity: the forgotten Goldman-Hodgkin-Katz (GHK) current equation: stable spike firing in ultrathin axons.	Oron David Kotler (1), Michael Gutnick(2), Ilya Fleidervish(1)
T6-1C	Reelin-induced modulation of cholinergic signal transmission and posttranscriptional protein modification	Marie-Luise Kümmel (1), Eckart Förster(1)
T6-2C	Regulation of the electrogenic Na ⁺ /HCO ₃ ⁻ cotransporter 1 (NBCe1) and the vacuolar H ⁺ -ATPase (V-ATPase) by hypoxia and acidosis in glioblastoma	Marina Giannaki (1), Katharina Everaerts(2), Christine R. Rose(2), Eleni Roussa(1)
T6-3C	Simulated ion channel variants explain conflicting effects on firing rates depending on neuron type	Lukas Sonnenberg (1), Jan Benda(1,2)
T6-4C	TGF-β2 regulates expression and thr1007 phosphorylation of the K ⁺ -Cl ⁻ cotransporter 2 in a neuronal maturation-dependent manner	Anastasia Rigkou (1), Eleni Roussa(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T6-5C	Exon specific properties of voltage gated calcium channels	Lukas Kilo (1), Christopher Bell(2), Veronica Pampanin(2), Stefanie Ryglewski(2)
T7 - Synaptic Transmission, Pre- and Postsynaptic organization		
T7-1A	A novel player in shaping synapses, the coxsackievirus and adenovirus receptor	Jacobo López Carballo (1,2,3), Rene Jüttner(1), Michael Götthardt(1,2)
T7-2A	Alternative splicing of a voltage-gated calcium channel increases synaptic function in <i>Drosophila melanogaster</i>	Christopher Bell (1), Lukas Kilo(2), Jashar Arian(1), Carsten Duch(1), Stefanie Ryglewski(1)
T7-3A	Astrocytes regulate network activity in the developing somatosensory cortex of the glutamic acid decarboxylase 67 (GAD67)-GFP mouse	Timo Ueberbach (1), Clara Simacek(1), Sergei Kirischuk(1), Thomas Mittmann(1)
T7-4A	Characterizing the role of the presynaptic protein CAPS in serotonin release from enterochromaffin cells	Sudeeksha Tyagi (1), Ahmed Shaaban(1), Sabine Beuermann(2,3), Frederike Maaß(2,4), Benjamin H. Cooper(2,3), Cordelia Imig(1)
T7-5A	Cooperative presynaptic functions of synaptotagmin 7 and Cav1 channels at the <i>Drosophila</i> neuromuscular junction	Jashar Arian (1), Selina Hilgert(1), Carsten Duch(1)
T7-6A	Determining the number and organization of active zone proteins at the rod ribbon synapse with 3D-MINFLUX	Chad Grabner (1,2,3), Isabella Jansen(4), Christian Wurm(4), Tobias Moser(1,2,3,5)
T7-7A	Developmental Changes in Function of Vasoactive Intestinal Peptide (Vip)- positive GABAergic Interneurons of the Somatosensory Cortex in Mice	Clara Anna Simacek (1), Thomas Mittmann(1)
T7-8A	Differential contribution of mEC and dCA1 to spatial and velocity coding of subicular pyramidal neurons	Hiroshi Kaneko (1), Dennis Dalügge(1), Stefan Remy(1,2,3)
T7-9A	Disease-related variations in the UNC13A gene cause presynaptic dysfunction	Siqi Sun (1), Aisha Ahmad(1), Mareike Lohse(1), Jonas D. Sommer(1), Judith J. Jans(2), Mišo Mitkovski(3), Holger Taschenberger(3), Nils Brose(3), Anita Rauch(4), Reza Asadollahi(4), Jeremy S. Dittman(5), Noa Lipstein(1,3)
T7-10A	Dynamic interplay between Cav2 channels and the presynaptic cytomatrix in mechanisms of neurotransmission	Michela Borghi (1), Stephan Weissbach(1), Anna Fejtova(2), Martin Heine(1)
T7-11A	Effects of activin A and enriched environment on GABAergic inhibition in dorsal vs. ventral hippocampus	Maria Jesus Valero Aracama (1), Fang Zheng(1), Christian Alzheimer(1)
T7-12A	Effects of activin on intrinsic excitability and synaptic plasticity of CA1 pyramidal cells differ between dorsal and ventral hippocampus	Marc Dahlmans (1), Maria Jesus Valero-Aracama(1), Fang Zheng(1), Christian Alzheimer(1)
T7-13A	Exploration of Mechanisms Governing Formation of Postsynaptic Density Using the PyRID Simulator	Nahid Safari (1), Christian Tetzlaff(1)
T7-14A	Gut-to-brain signaling - enterochromaffin cell communication with vagal sensory neurons	Esmira Mamedova (1), Ahmed Shaaban(1), Cordelia Imig(1)
T7-15A	HCN-channel mediated functional changes in Parvalbumin-positive interneurons in the somatosensory cortex of mice following traumatic brain injury	Qiang Wang (1), Thomas Mittmann(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T7-16A	Investigating nanoscale molecular organisation at cerebellar synapses with superresolution microscopy	Maureen McFadden (1), Gael Moneron(2), David DiGregorio(3), David DiGregorio(3)
T7-1B	Investigating presynaptic nanoarchitecture using proximity labeling approaches	Mareike Lohse (1,2), Siqi Sun(2), Sofia Elizarova(2), Olaf Jahn(1), Nils Brose(1), Noa Lipstein(2)
T7-2B	L-type Ca ²⁺ channels mediate regulation of glutamate release by subthreshold potential changes	Byoung Ju Lee (1), Seung Yeon Lee(1), Suk-Ho Lee(1), Won-Kyung Ho(1)
T7-3B	Mapping the orientation of synaptic proteins in mammalian synapses and Drosophila NMJs by two-photon polarization microscopy	Maksim Galkov (1), Komal Patil(2), Gaia Tavasani(2), Martin Fuhrmann(3), Dirk Dietrich(4), Susanne Schoch(1)
T7-4B	Maturation of activity-dependent endocytosis during terminal differentiation of cochlear inner hair cells	Guobin Huang (1), Stefan Münkner(1), Jutta Engel(1), Stephanie Eckrich(1)
T7-5B	Molecular mechanisms of synaptic vesicle release in Dorsal Root Ganglion neurons	Lucia Rojas (1), Chungku Lee(1), JeonSeop Rhee(1)
T7-6B	Molecular subgroups of mouse cortical VIP neurons – laminar distribution, firing pattern and optical stimulation	Mirko Witte (1), Flore Schork(1), Felicita Fischer(1), Philipp Kolligs(1), Jenifer Rachel(1), Felix Preuss(1), Sandra Heinzl(1), Martin Möck(1), Jochen Staiger(1)
T7-7B	Nanoscale architecture of the synaptic release site	Sofia Elizarova (1), Siqi Sun(1), Noa Lipstein(1)
T7-8B	Neuronal alternative splicing of gephyrin C4 cassettes modulates condensate formation in vitro and synaptic scaffolding in cultured neurons	Filip Liebsch (1), Anne Bodenhausen(1), Fynn Eggersmann(2), Anna Lütz(1), Peter Kloppenburg(2), Günter Schwarz(1)
T7-9B	Novel mechanisms underlying SynGAP syndrome and new strategies toward therapeutic intervention	Judith von Sivers (1,2), Benno Kuroepka(3), Dietmar Schmitz (1,2,4), Sarah Shoichet (1,2), Nils Rademacher(4)
T7-10B	N-type calcium channels sustain vesicle recruitment at a mature glutamatergic synapse	Magdalena Wender (1), Grit Bornschein(1), Simone Brachtendorf(1), Stefan Hallermann(1), Jens Eilers(1), Hartmut Schmidt(1)
T7-11B	Pentameric assembly of glycine receptor intracellular domains provides insights into gephyrin clustering	Guenter Schwarz (1)
T7-12B	Presynaptic precursor vesicles originate from the trans-Golgi, promoted by the small GTPase Rab2	Astrid G. Petzoldt (5), Torsten W. B. Götz (1), Dmytro Puchkov (2), Veronika Lysiuk (3), Stephan J. Sigrist (4)
T7-13B	Quantifying the synaptic Ca ²⁺ -binding kinetics of Synaptotagmin-1, the Ca ²⁺ sensor for transmitter release in the forebrain	Grit Bornschein (1), Simone Brachtendorf(1), Abdelmoneim Eshra(1), Jens Eilers(1), Stefan Hallermann(1), Hartmut Schmidt(1)
T7-14B	Receptor diversity in cholinergic and GABAergic synapses in Drosophila	Eleni Samara (1,2), Alexander Borst(1)
T7-15B	Regulation of presynaptic membrane homeostasis by BAR domain proteins	Agata Witkowska (1), Tim Berneiser(1), Volker Haucke(1)
T7-16B	Regulatory Functions of Extracellular-Signal Regulated Kinases (ERK) in the Contralateral Hemisphere of the Mouse Somatosensory Cortex One-Week after Traumatic Brain Injury	Celine Gallagher (1), Natascha Ihbe(1), Thomas Mittmann(1)
T7-1C	Relaxin ¹ cortical circuits: understanding the effect of relaxin on synaptic transmission within cortical circuits	Sadat Hodzic (1), Therese Riedemann(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T7-2C	Role of activin signaling in GABAergic inhibition in hippocampal granule cells and its implications in depression	Sriity Melley Sadanandan (1), Fang Zheng(1), Liubov S Kalinichenko(2), Christian P Müller(2), Christian Alzheimer(1)
T7-3C	Role of synaptic vesicle refilling on robust synaptic transmission in the auditory system	Erika Pizzi (1), Jennifer Winkelhoff(1), Eckhard Friauf(1)
T7-4C	Sex-dependent BDNF-mediated effects of Fingolimod on the architecture of mouse hippocampal neurons	Aiswaria Lekshmi Kannan (1), Martin Korte(2), Marta Zagrebelsky(1)
T7-5C	Short-term plasticity of non-calyceal inputs in the medial nucleus of the trapezoid body	Laura Console-Meyer (1), Felix Felmy(1)
T7-6C	Single-molecule imaging of synaptic vesicle condensates	Christian Hoffmann (1), Jakob Rentsch(2), Taka Tsunoyama(3), Akshita Chhabra(1), Gerard Aguilar Perez(1), Franziska Trnka(1), Marcelo Ganzella(4), Akihiro Kusumi(3), Helge Ewers(2), Dragomir Milovanovic(1)
T7-7C	Species-specific adaptation for ongoing high-frequency action potential generation in MNTB neurons	Nikolaos Kladisios (1,2), Kathrin D. Wicke(1,2), Christina Pätz(1), Felix Felmy(1)
T7-8C	S-SCAM/MAGI2 is essential for synapse formation	Nina Wittenmayer (1,2), Sebastian Kügler(3), Jeong Seop Rhee(4), Julio S. Viotti(2,5), Thomas Dresbach(2)
T7-9C	Human iPSC-derived neurons have large presynaptic action potentials	Torsten Bullmann (1), Andreas Ritzau-Jost(1), Thomas Kaas(1), Anne Wöhner(1), Toni Kirmann(1), Sila Rizalar(2,3), Max Holzer(4), Jana Nerlich(1), Christian Geis(5), Jens-Karl Eilers(1), Robert Joahannes Kittel(6), Thomas Arendt(4), Volker Hauke(2,3)
T7-10C	Synaptic Cleft Proteins Form an Outer Enclosure of the Trans-Synaptic Nanocolumn	Paulina Nemcova (1,2), Hannes Beckert(3), Julia Wolf(1,2), Susanne Schoch(2), Dirk Dietrich(1)
T7-11C	Synaptic transmission is affected by the lack of plasmalogens	Bárbara Catarina Correia (1,2), Jaqueline Zortéa(2), Pedro Brites(2)
T7-12C	The alanine-serine-cysteine-transporter 1 provides glycine for inhibitory glycinergic transmission in an auditory brainstem synapse	Lina Hofmann (1), Eckhard Friauf(1)
T7-13C	The alternative splicing of P/Q-type calcium channels fine tunes presynaptic properties and neurotransmitter release	Ana Carolina Palmeira do Amaral (1), Abderazzaq El Khallouqi(1), Jennifer Heck(2), Arthur Bikbaev(1), Melanie Mark(3), Stefan Herlitze(4), Martin Heine(1)
T7-14C	The regulation and impact of microtubule abundance at the Drosophila neuromuscular junction.	Dario Andrea Lasser (1), Hannes Euler(1), Zeeshan Mushtaq(1), Jan Pielage(1)
T7-15C	The secretory pathway protein Sec31 controls composition and function of the presynaptic active zone	Marius A. Lamberty (1), Kerstin Reim(2), Jutta Meyer(2), Olaf Jahn(2,3,4), Robert J. Kittel(1)
T7-16C	Transcriptional profiling of two nuclei in the mouse auditory brainstem reveals gene sets important for auditory processing	Mirjam Montag (1), Ayse Maraslioglu-Sperber(1), Kathrin Kattler(2), Eckhard Friauf(1)
T7-17C	Understanding the synaptic basis of dystonia pathogenesis triggered by RIMBP1 mutations	Chiara Olmeo (1), Joaquin Campos(1), Niccolò Mencacci (2), Claudio Acuna(1)
T8 - Synaptic Plasticity, LTP, LTD		
T8-1A	A biophysical model for synaptic tagging	Michael Fauth (1), Francesco Negri(1), Christian Tetzlaff(2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T8-2A	Activity-dependent changes of the synaptic nanoarchitecture revealed by STED microscopy	Katrin Ina Willig (1), Valérie Clavet-Fournier(1), Waja Wegner(1)
T8-3A	All-optical interrogation of Schaffer collaterals synapses in vivo	Cynthia Rais (1), J. Simon Wiegert(1,2)
T8-4A	All-optical investigation of long-term plasticity in the hippocampus.	Rui Wang (1), Margarita Anisimova(1), Michaela Schweizer(2), Thomas G Oertner(1), Christine E Gee(1)
T8-5A	Analysing the synaptic plasticity in the progressive phenotype of murine tauopathy	Jennifer Just (1), S. Ludewig(1,2), C. Bold(3), D. Baltissen(3), U. Müller(3), M. Korte(1,2)
T8-6A	Calcium mediated presynaptic homeostatic plasticity at the Drosophila NMJ	Lea Deneke (1), Jashar Arian(1), Niklas Krick(2), Carsten Duch(1)
T8-7A	Cell-autonomous cAMP signaling is not a plasticity and immediate early gene expression trigger at Schaffer collateral synapses	Oana-Maria Constantin (1), Daniel Udvari(1), Paul Lamother-Molina(1), Lennart Beck(1), Christine Gee(1), Thomas Oertner(1)
T8-8A	C-terminal Binding Protein 1 (CtBP1) regulates synaptic plasticity and energy metabolism in hippocampus	Enes Yagiz AKDAS (1)
T8-1B	GABAergic regulation of timing-dependent LTP in mouse CA1 pyramidal neurons along the longitudinal axis of the hippocampus	Babak Khodae (1,3), Elke Edelmann(1,2,3), Volkmar Leßmann(1,2,3)
T8-2B	Drosophila Rab3 mediates cyclic AMP-dependent presynaptic plasticity	Divya Sachidanandan (1), Aishwarya Aravamudhan(1), Isabella Maiellaro(2), Stefan Hallermann(3), Robert J. Kittel(1)
T8-3B	Elucidating the role of STIM proteins in mediating PM-ER contacts and their role in synaptic plasticity and synaptic architecture	Arun Chhikara (1), Filip Maciag(1), Karin Ruban(2), Martin Heine(1), Kay Grünewald(2)
T8-4B	Environmental enrichment increases sparse coding in adult hippocampus	Ekaterina Verdiyana (1), Meredith Lodge(1), Jan Michael Schulz(1), Josef Bischofberger(1)
T8-5B	Fully-primed slowly-recovering vesicles mediate LTP at neocortical neurons	Jana Nerlich (1), Iron Weichard(1), Holger Taschenberger(2), Grit Bornschein(1), Andreas Ritzau-Jost(1), Hartmut Schmidt(1), Robert J. Kittel(3), Jens Eilers(1), Stefan Hallermann(1)
T8-6B	Homeostatic synaptic plasticity recruits coordinated structural and functional changes in superficial pyramidal neurons of the human neocortex	Maximilian Lenz (1), Pia Kruse(1), Amelie Eichler(1), Phyllis Stöhr(1), Jakob Straehle(2), Paul Turko(3), Imre Vida(3), Jürgen Beck(2,4,5), Andreas Vlachos(1,4,5,6)
T8-7B	Homeostatic synaptic plasticity rescues neural coding reliability	Nadine Ehmann (1), Eyal Rozenfeld(2,3), Julia E. Maniom(2,3), Robert J. Kittel(1), Moshe Parnas(2,3)
T8-1C	Inactivity induced homeostatic synaptic plasticity requires ECM remodeling	Bartomeu Perello Amoros (1), Fabian Zmiskol(1), Rahul Kaushik(2), Constanze Seidenbecher(3), Alexander Dityatev(2,4), Renato Frischknecht(1)
T8-2C	Intermittent theta burst repetitive transcranial magnetic stimulation (rTMS) induces excitatory synaptic plasticity in human neocortical slices	Christos Galanis (1), Jakob Straehle(1,2,3), Elli Anna Balta(1), Dieter Henrik Heiland(2,3,4), Jürgen Beck(2,3,5), Andreas Vlachos(1,3,5,6)
T8-3C	Light-induced ultrastructural synaptic plasticity in the mushroom body calyces of honeybees using STEM tomography	Nadine Kraft (1), Christian Stigloher(2), Wolfgang Rössler(1), Claudia Groh(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T8-4C	Longitudinal imaging of individual hippocampal synaptic sub-groups	Alessandro Francesco Ulivi (1,2), Hannah Klimmt(1,2), Bhargavi K.B. Murthy(1,2), Rosa Eva Huettl(2), Jinhyun Kim(3), Alon Chen(2,4), Stefan Remy(1), Alessio Attardo(1,2)
T8-5C	LTP-induced dynamics of actin and spine geometry	Mitha Thomas (1,2), Michael Fauth(1,2)
T8-6C	Optogenetic activation of mGluR1 signaling induces synaptic plasticity in Purkinje cells	Lennard Rohr (1), Tatjana Surdin(1), Bianca Preissing(1)
T8-7C	The molecular communication between synapses influences synaptic plasticity	Shirin Shafiee (1,2), Christian Tetzlaff(2)
T9 - Glia, Glia-Neuron Interactions		
T9-1A	A subset of OPCs do not express Olig2 during development which can be increased in the adult by brain injuries and complex motor learning	Xianshu Bai (1), Lipao Fang(1), Qing Liu(1), Erika Meyer(1), Anna Welle(2), Wenhui Huang(1), Anja Scheller(1), Frank Kirchhoff(1)
T9-2A	Buffering calcium signals in glia and neurons: a new conditional mouse line	Anne-Sophie Brauer (1), Julia Wolf(2), Ulrich Boehm(3), Dirk Dietrich(4), Susanne Schoch(5)
T9-3A	cAMP signaling evoked by adenosine and dopamine in mouse olfactory bulb astrocytes	Marina Wendlandt (1), Levi von Kalben(1), Kristina Schulz(1), Daniela Hirnet(1), Christine Gee(2), Christian Lohr(1)
T9-4A	Characterization of macroglia response during wound healing in laser-induced models of retinal degeneration	Laura Jahnke (1,2,3), Sousa Zandi (1,2), Ahmed Elhelbawi (3,4), Nadia Mercader Huber(5), Federica Maria Conedera(6), Volker Enzmann (1,2)
T9-5A	Deciphering the role of a non-neuronal lncRNA in age-associated cognitive diseases	Sophie Schröder (1), M. Sadman Sakib(1), André Fischer(1,2,3)
T9-6A	From indicator to biosensor: GCaMP for deciphering the complex Ca ²⁺ activity of astrocytes	Andre Zeug (1), Franziska E. Müller(1), Evgeni Ponimaskin(1)
T9-7A	Functional characterization of a novel lncRNA in the aging brain	Ranjit Pradhan (1), M Sadman Sakib(1), Lalit Kaurani(1), Deborah Kronenberg-Versteeg(2), Dennis M Krüger(1), Sophie Schröder(1), Andre Fischer(1,3,4)
T9-8A	Role of glial gap junctions in the development and progression of temporal lobe epilepsy	Oussama Kherbouche (1), Lukas Henning(1), Gerald Seifert(1), Pia Niemann(2), Bernd Fleischmann(2), Peter Bedner(1), Christian Steinhäuser(1)
T9-1B	GABAergic calcium-signals in astrocytes of the mouse medial prefrontal cortex	Alina Kürten (1), Jennifer Bostel (1), Dr. Antonia Beiersdorfer(2)
T9-2B	Glioma and Native CNS Cells in 3D Ultraweak Hydrogels: Cell-Cell and Cell-Matrix Interactions	Mateo Sebastian Andrade Mier (1), Carmen Villmann(1), Torsten Blunk(2)
T9-3B	Impact of 5-HT ₄ R Signaling on Morphology and Function of hippocampal Astrocytes	Franziska E. Müller (1), Evgeni Ponimaskin(1), Andre Zeug(1)
T9-4B	Impact of AMPA receptors in NG2 glia on signal transmission in the hippocampus and cerebellum	Dario Tascio (1), Gerald Seifert(1), Nehal Gebri(1), Frank Kirchhoff(2), Ronald Jabs(1), Christian Henneberger(3), Christian Steinhäuser(1)
T9-5B	Multiscale Correlational Imaging of Sex-Specific Structural Brain Changes During Chronic Pain	Tabea Susanna Kampen (1), Amrita Das Gupta(1), Jennifer John(1), Claudia Falfán-Melgoza(2), Carlo A. Beretta(1), Wolfgang Weber-Fahr(2), Thomas Kuner(1), Johannes Knabbe(1,3)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T9-6B	NG2 glia-specific Kir4.1 knockout as a tool to understand the impact of neuron-glia synaptic signaling	Gerald Seifert (1), Dario Tascio(1), Ronald Jabs(1), Aline Timmermann(1), Anne Boehlen(1), Magdalena Skubal(1), Catia Domingos(1), Wenhui Huang(3), Frank Kirchhoff(3), Christian Henneberger(1,2), Andras Bilkei-Gorzo(4), Christian Steinhäuser(1)
T9-7B	OPCs shape the medial prefrontal cortical inhibition by regulating interneuron apoptosis and myelination employing GABAB receptor	Lipao Fang (1), Na Zhao(1), Laura C Caudal(1), Renping Zhao(2), Ching-Hsin Lin(3), Hsin-Fang Chang(3), Nadine Heinz(4), Carola Meier(4), Wenhui Huang(1), Anja Scheller(1), Frank Kirchhoff(1), Xianshu Bai(1)
T9-8B	Quantification of cellular Na ⁺ employing rapidFLIM in the mouse hippocampus	Jan Meyer (1), Karl W. Kafitz(1), Christine R. Rose(1)
T9-1C	moved to T9-8A Role of glial gap junctions in the development and progression of temporal lobe epilepsy	Oussama Kherbouche (1), Lukas Henning(1), Gerald Seifert(1), Pia Niemann(2), Bernd Fleischmann(2), Peter Bedner(1), Christian Steinhäuser(1)
T9-2C	Role of hevin in drug addiction	Vincent Vialou (1)
T9-3C	Serotonin1A-Receptor mediated signaling in Astrocytes and its influence on depression-like behavior	Svenja Bremshey (1,2), Dr. Michael Koch(2), Dr. Olivia A. Masseck(1)
T9-4C	The axonal vesicle release machinery and myelination	Julia Wolf (1), Silvia Cases-Cunillera(2), Susanne Schoch(3), Dirk Dietrich(4)
T9-5C	The impact of synaptic signaling activity on hippocampal microglia	Frederieke Sophie Moschref (1), Nils Brose(1), Benjamin H. Cooper(1)
T9-6C	The synaptic vesicle protein Mover/TPRG1L is associated with lipid droplets in astrocytes	Jeremy Krohn (1), Florelle Domart(2), Thanh Thao Do(2), Thomas Dresbach(2)
T9-7C	Viral approaches to elucidate the function of different tanycytic subpopulations	Vanessa Neve (1), Helge Müller-Fiellitz(1), Frauke Spiecker(1), Anke Fähnrich(2), Martin Schwarz(3), Ruben Nogueiras(4), Vincent Prevot(5), Markus Schwaninger(1)
T9-8C	Wrapping glia influence on larval reorientation	Marit Praetz (1), Christian Klämbt(1)
T10 - Aging and Developmental Disorders		
T10-1A	Characterisation of murine L6b and its role in manifestation of ASD associated behaviour.	Aasha Meenakshisundaram (1,2), Timothy Zolnik(3), Britta Eickholt(1,2), Zoltán Molnár(4)
T10-2A	Cognitive flexibility and frontal theta: effects of ageing.	Margarita Darna (1), Christopher Stolz(1), Constanze I. Seidenbecher(1), Björn H. Schott(1,2,3), Anni Richter(1)
T10-3A	moved to T10-6B Developmental changes in the electrophysiological properties of pyramidal neurons in the auditory cortex of the Cntnap2 KO rat model of Autism Spectrum Disorder.	Rajkamalpreet S. Mann (1), Brian L. Allman(1), Susanne Schmid(1)
T10-4A	Dietary spermidine protects from age-related synaptic alterations while inducing neuronal autophagy and NPY in the aging brain	Marta Maglione (1,2), Gaga Kochlamazashvili(3), David Toppe(1), Giovanna Cazzolla(1), Volker Haucke(1,2,3), Stephan Sigrist(1,2)
T10-5A	EphrinA5 regulates neuronal migration by repressing the long non-coding RNA Snhg15 and perturbing its interactions with DNA methyltransferase 1	Can Bora Yildiz (1,2), Jannis Koesling(1), Julia Reichard(1,2), Philip Wolff(1), Julia Gehrmann(3), Ivan G. Costa(3), Mira Jakovcevski(1), Daniel Pensold(1), Geraldine Zimmer-Bensch(1,2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T10-1B	Gene therapy targeting brain endothelial cells improves neurological symptoms in a model of genetic MCT8 deficiency	Adriana Arrulo Pereira (1), Sivaraj M. Sundaram(1), Helge Müller-Fielitz(1), Hannes Köpke(1), Meri De Angelis(2), Timo D. Müller(2), Heike Heuer(3), Jakob Körbelin(4), Markus Krohn(1), Jens Mittag(5), Ruben Nogueiras(6), Vincent Prevot(7), Markus Schwann
T10-2B	In vivo optogenetic inhibition of striatal parvalbumin-reactive interneurons induced genotype-specific changes in neuronal activity without dystonic signs in DYT1 knock-in mice	Anja Schulz (1), Franziska Richter(1,2), Angelika Richter(1)
T10-3B	Increase in Vascular Bag Numbers in the White Matter of the Human Brain with Aging but not in Alzheimer's Disease	Deniz Yilmazer-Hanke (1), Kameliya S. Georgieva(1), Najwa Ouali Alami(1)
T10-4B	Inhibitory temporo-parietal effective connectivity is associated with explicit memory performance in older adults	Björn Hendrik Schott (1,2,3), Joram Soch(2), Jasmin Kizilirmak(2), Anni Richter(3)
T10-5B	Is Rett syndrome associated with brain regional alterations in mitochondrial density and neuronal redox status?	Laura van Agen (1), Michael Müller(1)
T10-6B	Developmental changes in the electrophysiological properties of pyramidal neurons in the auditory cortex of the Cntnap2 KO rat model of Autism Spectrum Disorder.	Rajkamalpreet S. Mann (1), Brian L. Allman(1), Susanne Schmid(1)
T10-1C	Multi-modal epigenetic changes and altered NEUROD1 chromatin binding in the mouse hippocampus underlie FOXG1 syndrome	Ipek Akol (1,2), Annalisa Izzo(1), Thomas Manke(3), Tanja Vogel(1,4)
T10-2C	Multiple facets of heterozygous FOXG1 loss on neural development and FOXG1 syndrome outcome in different patient-specific backgrounds	Fabian Gather (1), Ipek Akol(1,2), Analia Rojas Caballero(1), Christos Galanis(3), Andreas Vlachos(3,4,5), Tanja Vogel(1,6)
T10-3C	Pathophysiological and structural consequences of novel mutations in the asparagine synthetase gene (ASNS) associated with microcephaly	Dorit John (1), Ulrike Winkler(1), Tabea Junge(1), Maximilian Liebmann(1), Anja Reinert(1), Susanne Köhler(1), Johannes Hirlinger(1,2)
T10-4C	TOGARAM1 mutation in spina bifida highlights alternative mechanisms in neural tube closure defects	Yanyan Wang (1), Nadine Krämer(1,2,3), Olaf Ninnemann(1), Joanna Schneider(3,4,5), Li Na(6), Hao Hu(6), *Shyamala Mani(1,2,3), *Angela Kaindl(1,2,3)
T10-5C	Type-dependent dysregulation of myelination in focal cortical dysplasia in extratemporal lobe regions of the human neocortex	Catharina Donkels (1), Julia M. Nakagawa(2), Susanne Huber(1), Andreas Vlachos(3,7), Christian Scheiwe(2), Mukesh J. Shah(2), Andreas Schulze-Bonhage(4,8), Marco Prinz(5,6,7), Jürgen Beck(2), Carola A. Haas(1,7,8)
T11 - Alzheimer's, Parkinson's and other Neurodegenerative Diseases		
T11-1A	A multimodal perspective on the dopamine hypothesis in schizophrenia spectrum disorders – preliminary data	Sophie Pauline Fromm (1,2,3,4), Lara Wieland(1,2,3), Florian Schlagenhaut(1,2,3), Jakob Kaminski(1)
T11-2A	Alzheimer's disease might be also a failure of inhibitory synapses at early and late stages of pathogenesis that can be rescued by Artemisinins.	Jochen Kuhse (1), Stefan Kins(2), Femke Groeneweg(3), Karin Gorgas(4), Joachim Kirsch(5), Eva Kiss(6)
T11-3A	Analysis of the influence of the glutamate signaling pathway on repair of radiation-induced DNA damage in tumor-initiating neuronal cancer cells.	Dario Macarron Palacios (1), Henrik Lutz(1), Bodo Laube(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T11-4A	Antibodies to the low-density lipoprotein-receptor-associated-protein Lrpap-1 are found not in cerebrospinal fluid or blood serum of Alzheimer's disease patients, but in serum of healthy controls	Bernhard Reuss (1), Niels Hansen(2), Jens Willfang(2)
T11-5A	APPsa rescues kinase dysregulations in Tau transgenic mice	Danny Baltissen (1), Charlotte Bold(1), Lena Rehra(1), Justus Fricke(1), Jennifer Just(2), Christian Buchholz(3), Martin Korte(2), Ulrike Müller(1)
T11-6A	Bimodal potentiation of cholinergic neurotransmission in rats transgenic for familial Alzheimer's mutations	Johanna Habermeyer (1), Fabio Canneva(1), Stephan von Hörsten(1)
T11-7A	Cerebellar network in a model of paroxysmal dystonia	Fabiana Santana Kragelund (1), Denise Franz(1), Marco Heerdegen(1), Anika Lüttig (2), Stefanie Perl(2), Angelika Richter(2), Rüdiger Köhling(1)
T11-8A	Changes in inhibitory glycine receptors function in the nucleus accumbens in an Alzheimer's Disease animal model	Luis Aguayo (1), Scarlet Gallegos(1), Anibal Araya(1), Alejandra Guzmán(1), Macarena Konar-Nie(1), Eduardo Fernandez-Perez(1), Lorena Armijo-Weingart(1)
T11-9A	Developmental stage-specific analysis of molecular disease mechanisms in genetic epileptic encephalopathies linked to HCN1 channels	Jacquelin Kasemir (1,2), Andrea Merseburg(1,2), Bina Santoro(3), Dirk Isbrandt(1,2)
T11-10A	Distribution of the effect of botulinum neurotoxin-A in the rat brain after its experimental unilateral injection into the striatum for experimental Parkinson's disease treatment	Alexander Hawlitschka (1), Oliver Schmitt(2), Andreas Wee(1), Friederike Schümann(3)
T11-11A	Effects of the Medial Septum electrical stimulation on okadaic acid induced spatial long-term memory impairment: a behavioral and histological evaluation	Mariam Chighladze (1), Maia Burjanadze(1), Manana Dashniani(1), Nino Chkhikvishvili(1), Lali Kruashvili(1)
T11-1B	Elucidating early molecular events of human cortical ALS pathophysiology at single cell resolution	Zeynep Irem Gunes (1), Klara Magdalena Eglseer(1,3), Charlene-Annett Hurler(5), Sarah Jaekel(4,5), Eduardo Beltran(1,3,4), Thomas Arzberger(4,6), Sabine Liebscher(1,2,3,4)
T11-2B	Excitability changes in hippocampal neurons in the rodent models of Alzheimer's disease and a way to prevent it	Liudmila Sosulina (1), Hiroshi Kaneko(1), Anja M. Oelschlegel(2), Katarzyna M. Grochowska(2,3), Guilherme M. Gomes(2,4), Carsten Reissner(5), Manuel Mittag(6), Martin Fuhrmann(6), Anna Karpova(2,4), Michael R. Kreutz(2,3,4,7), Stefan Remy(1,4,7)
T11-3B	Expression Profiling and Functional Characterization of Candidate MicroRNA Associated with Frontotemporal Dementia	Lalit Kaurani (1), Jiayin Zhou(1), Ranjit Pradhan(1), Aditi Methi(1), Susanne Burkhardt(1), Raquel Pinto(2), MD Rezaul Islam(1), Sophie Schröder(1), Peter Heutink(3), Farahnaz Sananbenesi(1), Andre Fischer(1,4,5)
T11-4B	Extracellular matrix changes in subcellular brain fractions and biofluid of Alzheimer's disease patients	Lukas Höhn (1,2), Wilhelm Hußler(1,2), Anni Richter(1), Karl-Heinz Smalla(1,3), Anna-Maria Birk-Töglhofer(6), Christoph Birk(6), Stefan Vielhaber(2,3), Stefan L. Leber(7), Eckart D. Gundelfinger(1,3,4), Stefanie Schreiber(2,3,5), Johannes Haybäck(6), Co

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T11-5B	Hippocampal low-frequency stimulation suppresses epileptic activity without affecting learning and memory in a mouse model of epilepsy	Enya Paschen (1,2), Piret Kleis(1,2), Jessica Link(1), Diego M Vieira(3), Katharina Heining(4), Ute Häussler(1,5), Carola A Haas(1,5)
T11-6B	Identification of optimal stimulation targets and parameters to suppress seizures in a mouse model of mesial temporal lobe epilepsy	Piret Kleis (1,2), Enya Paschen(1,2), Jessica Link(1), Diego M. Vieira(3), Katharina Heining(4), Ute Häussler(1,5), Carola A. Haas(1,5)
T11-7B	Impact of FTY720 on memory performance and hippocampal spines of aged APP/PS1 mice	Lukas Schönwolf (1), Thomas Endres(1), Volkmar Leßmann(1)
T11-8B	Impact of TDP-43 pathology and ER stress on cortical neuronal health in vivo	Shenyi Jiang (1,2,3), Riddhi Sandeep Petkar(1,3), Monica Liliana Ziegler(1,3), Smita Saxena(4,5), Sabine Liebscher(1,3,6)
T11-9B	Investigation of mitochondrial protein-import stress induced neuronal degeneration	Johannes Ebding (1), Marlene Barth(1), Maximilian Goy(1), Adrian Gackstatter(1), Martin Simon(3), Johannes Herrmann(2), Jan Pielage(1)
T11-10B	Loss of interneurons in the subiculum in a mouse model for mesial temporal lobe epilepsy	Nicole Barheier (1,2), Julia Franz(1), Henrike Wilms(1), Susanne Tulke(1), Carola A. Haas(1,3,4), Ute Häussler(1,4)
T11-11B	Metabolic and cellular factors determining the therapeutic effect of dimethyl fumarate	Joanna Maria Kosinska (1), Julian Assmann(1), Julica Folberth(1), Markus Schwaninger(1)
T11-12B	Phosphorylation-state dependent intraneuronal sorting of A β differentially impairs autophagy-endo-lysosomal system and ubiquitin proteasomal machinery	Akshay Kapadia (1), Sandra Theil(1), Sabine Opitz(2,3), Nádia Villacampa(2), Susanne Schoch-McGovern(3), Michael. T. Heneka(2), Sathish Kumar(1), Jochen Walter(1)
T11-1C	Modulation of periaqueductal grey defense circuitry by locus coeruleus in context of Parkinson's disease	Alexia Lantheaume (1), Konstantin Kobel(1), Michael Schellenberger(1), Dennis Segebarth(1), Philip Tovote(1)
T11-2C	Pharmacological Modulation of Serotonin Receptor 7 as a Potential Treatment for Tau-associated Neurodegenerative Diseases	Alina Brüge (1), Kathrin Jahreis(1), Sungsu Lim(2), Yun Kyung Kim(2), Marcello Leopoldo(3), Evgeni Ponimaskin(1), Josephine Labus Labus(1)
T11-3C	Probing astroglial dysfunction in motor cortex of behaving ALS transgenic mice	XiaoQian Ye (1,4), Zeynep Gunes(1,2,4), Sabine Liebscher(1,2,3,4)
T11-4C	Regulatory imbalance between LRRK2 kinase, PPM1H phosphatase, and ARF6 GTPase disrupts the axonal transport of autophagosomes	C. Alexander Boecker (1), Dan Dou(2), Erika L.F. Holzbaur(2)
T11-5C	Role of Bassoon in the regulation of presynaptic proteostasis.	Carolina Montenegro Venegas (1,2,3), Anil Annamneedi(1,3,4), Armand Blondiaux(1), Judit Ozvár(6,7), Yi Lien(6,7), Thorsten Trimbuch(6,7), Christian Rosenmund(6,7), Craig Craig Curtis Garner (5,6,7), Eckart D Gundelfinger(1,2,3)
T11-6C	Serotonin receptors contribute to TDP-43 aggregation in neurodegenerative diseases	Josephine Labus (1), Anna-Lena Vollbrecht(1), Julia Kleinert(1), Tilman Tiss(1), Sungsu Lim(2), Yun Kyung Kim(2), Thomas Gschwendtberger(3), Susanne Petri(3), Evgeni Ponimaskin(1)
T11-7C	Synaptic transmission defects at an early stage in juvenile Batten disease mouse model	Masood Ahmad Wani (1), Benedikt Grünewald(1), Jakob von Engelhardt(1)
T11-8C	The pallidal inhibitory tone on ventrolateral thalamic neurons in dystonic dtsz mutant hamster after long-term deep brain stimulation	Denise Franz (1), Marco Heerddegen(1), Fabiana Santana Kragelund(1), Anika Lüttig(2), Angelika Richter(2), Rüdiger Köhling(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T11-9C	The use of human gastrointestinal organoids to study interactions with the nerve system and the induction of neuroinflammation by pathogens including <i>Helicobacter pylori</i>	Marzieh Ehsani (1)
T11-10C	Time lapse imaging of single granule cells in the mouse dentate gyrus after entorhinal denervation in vitro – identification of different response types to denervation	Davide Greco (1), Alexander Drakew(1), Thomas Deller(1)
T11-11C	Two-photon imaging identifies blood-brain barrier alterations in a murine Alzheimer's disease model	Amira S. Hanafy (1,2), Isabelle Paulußen(1), Alf Lamprecht(2), Dirk Dietrich(1)
T12 - Neuroimmunology, Inflammation, and Neuroprotection		
T12-1A	Acute effects of human monoclonal anti-GluN1 autoantibody on NMDA receptor channel function	Johanna Rosa Heckmann (1,2), Shang Yang(2,3), Jing Yu-Strzelczyk(2), Shiqiang Gao(2), Christian Geis(1), Manfred Heckmann (2)
T12-2A	Anti-NMDAR autoantibodies alter structural plasticity and impair place cell dynamics.	Steffan Pettengell Jones (1), Pavel Svelha(1), Sabine Liebscher(1)
T12-3A	Astrocytes, microglia and blood brain barrier in an animal model of cerebral malaria	Hanna-Marie Altjohann (1), Bastian Bennühr(1), Alexandros Hadjilaou(2), Thomas Jacobs(2), Daniela Hirnet(1), Christian Lohr(1)
T12-4A	Attenuation of microgliosis is not sufficient to achieve substantial neuroprotection during the early phase of TBI	Isa Wernersbach (1), Yong Wang(1), Michael K.E. Schäfer(1)
T12-5A	Establishing induced pluripotent stem cells (iPSCs)-derived sensory neurons from migraine patients to investigate sex-specific differences in TRESK-TRPV1 signaling	Beatrice A. Windmüller (1), Oliver Dräger(1), Wilfried Witte(2), Erhard Wischmeyer(1)
T12-6A	From rare diseases to pandemics: The role of the NF-kappa-B essential modulator for brain endothelial functions	Josephine Lampe (1,2), Jan Wenzel(1,2), Helge Müller-Fielitz(1), Ümit Özorhan(1), Markus Schwaninger(1,2)
T12-7A	Hypoxic Microglial Extracellular Vesicles Can Abrogate AQP4 Dysfunction, Astrogliosis, and Neuroinflammation After Stroke	Wenqiang Xin (1), Yongli Pan(1), Wei Wei(1), Lars Tatenhorst(1), Irina Graf(1), Mathias Bähr(1), Thorsten R. Doeppner(1)
T12-8A	Increased neuronal resistance to excitotoxic insults due to the AMPA receptor auxiliary subunit CKAMP44	Benedikt Grünewald (1), Matthias Venyi(1), Jonas Schroer(2), Masood Ahmad Wani(1), Anne Sinning(2), Heiko Luhmann(2), Jakob von Engelhardt(1)
T12-9A	Investigating adaptive response mechanisms in autoimmune encephalitis with autoantibodies to the AMPA receptor	Tanvi Bhagwat (1,2), Holger Haselmann(2), Michael Kessels(1), Britta Qualmann(1), Christian Geis(2)
T12-10A	Knockdown of NEAT1 prevents lipid droplet accumulation in primary microglia after ischemic stroke via autophagy pathway	Yongli Pan (1), Wenqiang Xin(1), Wei Wei(1), Lars Tatenhorst(1), Irina Graf(1), Mathias Bähr(1), Thorsten R Doeppner(1)
T12-1B	Mechanistic single-cell investigation of neuroinflammation induced by influenza A virus infection	Lea Gabele (1,2), Shirin Hosseini(1,2), Kristin Michaelsen-Preusse(2), Nele Rieke(3), Christian Sieben(3), Martin Korte(1,2)
T12-2B	IAV replication kinetics and cell tropism in mouse primary hippocampal cultures	Nele Rieke (1), Lea Gabele(2), Shirin Hosseini(2), Martin Korte(2), Christian Sieben(1,3)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T12-3B	Microglia mediate neurocognitive deficits by eliminating C1q tagged synapses in sepsis-associated encephalopathy	Jonathan Wickel (1,2), Ha-Yeun Chung(1,2), Nina Hahn(1,2), Nils Mein(1), Meike Schwarzbrunn(1), Philipp Koch(3), Mihai Ceanga(1), Holger Haselmann(1), Carolin Baade-Büttner(1), Nikolai von Stackelberg(1), Nina Hempel(1), Lars Schmidl(1), Marco Groth(3), N
T12-4B	Network pharmacology as a novel strategy for treating acute brain ischemia	Sebastian Erik Vonhof (1,2), Rebecca Steubing(1,2), Sepideh Sadegh(3), Jan Baumbach(3), Svenja Christina Rohde(1,2), Anna Hamker(1,2), Harald Schmid(3), Christoph Kleinschnitz(1,2), Ana Isabel Casas(1,2,3)
T12-5B	Neuroprotection in human cells: Functions of an evolutionary ancient cytokine receptor	Debbra Yasemin Knorr (1), Ignacio Rodriguez Polo(2), Hanna Sopie Pies(1), Nicola Schwedhel-Domeyer(1), Stephanie Pauls(1), Rüdiger Behr(2), Ralf Heinrich(1)
T12-6B	New insights in neuropathology and pathogenesis of autoimmune glial fibrillary acidic protein meningo-encephalomyelitis	Verena Endmayr (1), Frank Leypoldt(2,3), Katharina Hess(4,5), Christoph Röcken (5), Desiree De Simoni(6), Stefan Oberndorfer(6), Ellen Gelpi(1), Simon Robinson (7), Chad Guthrie(7), Simon Hametner(1), Romana Hoeffberger(1)
T12-7B	Novel targets of glycine receptor autoantibodies in stiff person syndrome	Anna-Lena Eckes (1), Inken Piro(2), Erdem Tüzün(3), Christian Werner(4), Claudia Sommer(2), Carmen Villmann(1)
T12-8B	Pathology of CASPR2 autoantibodies – investigation of protein expression level and protein-protein interactions within the VGKC	Patrik Greguletz (1), Maria Plötz(1), Michele Niesner(2), Carmen Villmann(2), Kathrin Doppler(1)
T12-9B	Poststroke lipid droplet accumulation in residing microglia and its influence on inflammation and phagocytosis	Wei Wei (1), Dirk Fitzner(1), Wenqiang Xin(1), Yongli Pan(1), Irina Graf(1), Lars Tatenhorst(1), Mathias Bähr(1), Thorsten R Doeppner(1)
T12-10B	Serum anti-AGO1 antibodies identify a patient subgroup of sensory neuronopathy responding better to immunomodulatory treatment	Christian Moritz (1,2,3), Yannick Tholance(2,3,4), Pierre-Baptiste Vallayer(1), Le-Duy Do(2,5), Sergio Muñoz-Castrillo (2,5), Véronique Rogemond (2,5), Karine Ferraud(1,2), Coralie La Marca(2,4), Jérôme Honnorat(2,5), Martin Killian(6,7,8), Stéphane Paul
T12-1C	Pre-traumatic antibiotic-induced depletion of the gut microbiome reduces neuroinflammatory response in acute murine traumatic brain injury	Katharina Ritter (1), Diana Vetter(1), Michael KE Schaefer(1)
T12-2C	Role of BDNF/TrkB and pro-BDNF/p75NTR signaling in modulating the microglia functional state in the aging brain	Yesheng Sun (1), Marta Zagrebelsky(1), Martin Korte(1,2)
T12-3C	moved to T12-10B Serum anti-AGO1 antibodies identify a patient subgroup of sensory neuronopathy responding better to immunomodulatory treatment	Christian Moritz (1,2,3), Yannick Tholance(2,3,4), Pierre-Baptiste Vallayer(1), Le-Duy Do(2,5), Sergio Muñoz-Castrillo (2,5), Véronique Rogemond (2,5), Karine Ferraud(1,2), Coralie La Marca(2,4), Jérôme Honnorat(2,5), Martin Killian(6,7,8), Stéphane Paul
T12-4C	Spatial transcriptomics identifies local and cell type-specific pathophysiological changes in a mouse model of sepsis-associated encephalopathy	Nina Hahn (1,2), Martin Bens(3), Marco Groth(3), Christian Geis(1,2)
T12-5C	Synaptic network dysfunction and increased intrinsic neuronal excitability in GluA2 autoimmune encephalitis	Yang Yuan (1), Christian Geis(1), Holger Haselmann(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T12-6C	Tauroursodeoxycholic acid as a treatment of spinal cord injury	Jörg Mey (1,2), Lorenzo Romero-Ramírez(1), Concepción García-Rama(1), Siyu Wu(1,2), Boris W. Kramer(2)
T12-7C	The astrocytic-microglial crosstalk leads to a HIF-1 α -nitric oxide positive feedback loop during hypothalamic inflammation	Francesco Arioli (1), Olaf Jöhren(2)
T12-8C	The potential therapeutic role of itaconate and mesaconate on the detrimental effects of neuroinflammatory processes in the brain	Melanie Ohm (1,2), Shirin Hosseini(1,3), Karsten Hiller(2), Martin Korte(1,3)
T12-9C	The role of polyinosinic:polycytidylic acid (Poly I:C) as a viral mimetic on glutamate clearance by astrocytes and microglia	Xizi Shi (1,2), Shirin Hosseini(1,2), Kristin Michaelsen-Preusse(1), Martin Korte(1,2)
T13 - Cognitive, Emotional, Behavioral State Disorders and Addiction		
T13-1A	Adolescent social stress: Neuroimmunological signatures of stress susceptibility	Tobias Tilmann Pohl (1), Hanna Hörnberg(1)
T13-2A	An interoceptive role for glycinergic periaqueductal grey neurons during defensive states	Sara Cristina Lourenço dos Reis (1), Jérémy Signoret-Genest(1), Philip Tovote(1)
T13-3A	Analysis and comparison of dendritic spine density of pyramidal neurons in NEX-Cre and C57Bl/6J mice	Kim Laura Renken (1), Olivia Andrea Masseck(1)
T13-4A	Assessing sex differences and effects of repetitive acute stress on an animal model of depression	Lisa Ratz (1,2,5), Volker Arnd Coenen(1,3,4,5,6), Máté Daniel Döbrössy(1,2,3,6,7)
T13-5A	Botanicals Can Induce Resilience to a Depression-Like State in <i>Drosophila melanogaster</i> .	Helen Holvoet (1), Burkhard Poeck(1), Doris Kretzschmar(2), Amala Soumyanath(3), Roland Strauss(1)
T13-6A	Does chronic stress alter the hippocampal stress engram?	Jonas Cornelius (1), Kristin Michaelsen-Preusse(1), Martin Korte(1,2)
T13-7A	Enhanced amygdala activity by social fear conditioning but not object fear conditioning	Sukwon Lee (1), Juno Yeo(1)
T13-1B	Heavy alcohol drinking during adolescence compromises GABAergic inhibition in adult mouse dentate gyrus granule cells	Fang Zheng (1), Christian Alzheimer(1)
T13-2B	Impact of brain serotonin deficiency in development and behaviour in postnatal life	Laura Boreggio (1,2), Niccolò Milani(1,2)
T13-3B	In vivo noradrenaline release following medial forebrain bundle deep brain stimulation in rodents: the impact of different stimulation parameters	Zhuo Duan (1,2), Lidia MiguelTelega(1,2,3,4), Yixin Tong(1,2,3), Volker Arnd Coenen(1,2,5), Máté Dániel Döbrössy(1,2,3)
T13-4B	itBS changes in frontoparietal functional and structural connectivity correlated with clinical improvement in depression	Asude Tura (1), Roberto Goya-Maldonado(1)
T13-5B	Neurofeedback based interventions for emotional states regulation.	César Redondo (1), Jérémy Signoret-Genest (1,2), Philip Tovote (1,2)
T13-6B	Psychostimulant-induced neuroinflammation: Clarifying astrocyte-microglia crosstalk under IL-10	Carolina Pinto (1,2), Ana Isabel Silva(1,3), Margarida Saraiva(4), Teresa Summavielle(1,5)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T13-1C	Quantifying social behaviors in juvenile Shank3 mice using animal pose estimation tools	Rosalba Olga Proce (1), Madhu Nagathihalli Kantharaju(1), Hanna Hörnberg(1)
T13-2C	retracted Repeated administration of N-acetylcysteine could reduce the extinction responding and reinstatement in the morphine-conditioned rats	Seyede-Najmeh Katebi (1,2), Abbas Haghparast(1), Anahita Torkaman-Boutorabi(2)
T13-3C	Social stress as a depression induced factor in submissive rats	Tamar Domianidze (1), Tamar Matitaishvili(1), Keso Kozmava(1)
T13-3C	The Input-Output relationship of Ventral Tegmental Area in a Rodent Model of Depression	Yixin Tong (1,2,3,7), Seonghee Cho(1,3,7), Volker Arnd Coenen(1,2,4,5,6), Mate Daniel Döbrössy(1,2,3,6,8)
T13-5C	Training and pharmacological modulation enhance learning in rats overexpressing the dopamine transporter	Nadine Bernhardt (1), Henriette Edemann-Callesen(2), Maximilian Glienke(1), Esther Olubukola Akinola(1), Maike Kristin Lieser(1), Christine Winter(2)
T13-6C	Utilizing chemogenetic strategies in nonhuman primates to assess the role of amygdala activation in the expression of anxiety-related behaviors	Sascha Mueller (1), Jonathan A. Oler(1), Nakul Aggarwal(1), Patrick H. Roseboom(1), Marissa K. Riedel(1), Victoria R. Elam(1), Miles E. Olsen(1), Alexandra H. DiFilippo(2), Bradley T. Christian(2), Xing Hu(3), Adriana Galvan(3), Matthew A. Boehm(4), Micha
T14 - Vision: Invertebrates		
T14-1A	A versatile multi-colour spatial visual stimulus projector for in vivo two-photon imaging	Christopher Schnaitmann (1)
T14-2A	Behavioral exploration of luminance invariance in <i>Drosophila</i>	Annika Celine Bast (1,2), Madhura D Ketkar(1), Marion Silies(1)
T14-3A	Distinct cellular and circuit properties drive differential feature extraction in first order visual interneurons.	Neel Wagh (1), Katja Sporar(1), Junaid Akhtar(1), Marion Silies(1)
T14-4A	Exploring density-dependent desert locust marching with immersive virtual reality	Sercan Sayin (1)
T14-5A	retracted From skylight to insect eyes: studying the variability in polarisation patterns and the underlying processing to make a robust navigational compass	Athil Althaf Aliyam Veetil Zynudheen (1), James Jonathan Foster(1)
T14-1B	Heterogeneity of synaptic connectivity in the fly visual system	Jacqueline Cornean (1), Sebastian M. Molina Obando(1), Jonas Chojetzki(1), Lena Heike Lörsch(1), Marion Silies(1)
T14-2B	Implementation of stable contrast computation in the visual circuits	Burak Gür (1), Marion Silies(1)
T14-3B	No direction home: how ants perform systematic searches	Patrick Schultheiss (1)
T14-4B	Persistent idiosyncratic behavioral traits in <i>Drosophila melanogaster</i> depend on individual variability and behavioral context.	Gerit Arne Linneweber (1), Thomas Mathejczyk(1), Cara Knief(1), Muhammad Haidar(1), Mathias Wernet(1)
T14-5B	Responses of central-complex neurons of the desert locust to natural sky presentation	Erich M. Staudacher (1), Keram Pfeiffer(1,2), Uwe Homberg(1)
T14-1C	Six populations of local motion detectors represent optic flow generated during flight	Miriam Henning (1), Azize Karakut(2), Burak Gür(1), Joachim Urban(2), Marion Silies(1)
T14-2C	Temperature effects on wide-field motion sensitive neurons in the central brain of bumblebees	Bianca Jaske (1), Keram Pfeiffer(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T14-3C	The cockroach central complex: Physiology and morphology of single neurons in the brain of <i>Rhyparobia maderae</i>	Stefanie Jahn (1), Vanessa Althaus(1), Naomi Takahashi(1), Juliana Schott(1), Mona Janning(1), Uwe Homberg(1)
T14-4C	The dynamic properties of sky-compass neurons in bumblebees during naturalistic stimulation	Lisa Rother (1), Keram Pfeiffer(1)
T14-5C	Walking bumblebees see faster	Keram Pfeiffer (1), Robin Müller(1), Erwin Kirschenmann(1), Markus Thamm(1), Lisa Rother(1)
T15 - Vision: Retina and Subcortical Pathways		
T15-1A	Analysis of the receptive field substructure of retinal ganglion cells with artificial neural networks	Margaret Young (1,2,3), Tim Gollisch(1,2)
T15-2A	Complexin 3 and 4 play a major role in retinal dark and light adaptation in mice: an electroretinographic study	Nina Martina Stallwitz (1,2), Anneka Joachimsthaler(1,2), Jan Kremers(1)
T15-3A	Connectivity of photoreceptors and bipolar cells in two avian retinas	Anja Günther (1), Paul Watkins(1), Karin Dedek(2,3), Silke Haverkamp(1), Stephan Irsen(4), Henrik Mouritsen(2,3), Kevin Briggman(1)
T15-4A	Does Bassoon maintain cone photoreceptor survival by regulating retinal homeostasis?	Miriam Ryl (1), Enes Yagiz Akdas(2), Sophia Bayer(1), Kaspar Gierke(1), Julia von Wittgenstein(3), Anna Fejtová(2), Johann Helmut Brandstätter(1)
T15-5A	Feature selectivity of collicular wide-field neurons is generated by stratified inputs and nonlinear dendritic filtering	Norma Kühn (1), Chen Li(2), Bram Nuttin(1), Natalia Baimacheva(1,3), Arnau Sans Dublanc(1), Katja Reinhard(1,4), Vincent Bonin(1), Karl Farrow(1)
T15-1B	Horizontal cells in different avian species	Vaishnavi Balaji (1), Henrik Mouritsen(1), Karin Dedek(1)
T15-2B	Individual inhibitory interneurons in the thalamus are functionally specialized towards distinct visual features	Fiona Elisabeth Müllner (1), Botond Roska(1)
T15-3B	Inference of Functional Network Structure using Matrix Factorization	Sören J. Zapp (1,2), Tim Gollisch(1,2)
T15-4B	Inferring mechanisms of visual signal processing in the vertebrate retina using biologically inspired CNNs	Shashwat Sridhar (1), Michaela Vystrcilová(2), Alexander Ecker(2,3), Tim Gollisch(1,3)
T15-5B	Interrogating a putative circuit in the inner retina	Juan Diego Prieto (1,3,4), Tim Gollisch(1,2,3,4)
T15-6B	Model-based analysis of temporal adaptation in responses of retinal ganglion cells to spatiotemporal stimulation	Robert Mihai Haret (1), Tim Gollisch(2)
T15-1C	Neural basis of visual information integration and decision-making	Katja Slangewal (1,2,3,4), Max Capelle(1,2,3,5), Florian Kämpf(1), Armin Bahl(1,2,3,5)
T15-2C	Protein Interaction Network of the Complexin 4 - SNARE Complex in the Retina	Jutta Meyer (1), Uwe Lux(2), Olaf Jahn(3,4), Nils Brose(1), Johann Helmut Brandstätter(2), Kerstin Reim(1)
T15-3C	Response properties of suppressed-by-contrast cells in the early mouse visual system	Florentyna Debinski (1,2,3), Simon Renner(4,5), Emma Müller-Seydlitz(4), Yuyang Huang(4,5), Timm Schubert(1,2), Laura Busse(4,6), Thomas Euler(1,2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T15-4C	Super-resolution imaging in the mouse retina	Timm Schubert (1,2), Kseniia Sarieva(1,2,3,4), Leon Kremers(1,2,3,4), Thomas Euler(1,2)
T15-5C	Towards a light-mediated gene therapy for the eye - retinal transgene expression through photoactivation of caged Tamoxifen and the inducible Cre/lox system	Sidney Cambridge (1)
T15-6C	Visual encoding by retinal ganglion cells in optogenetic models for vision restoration	Varsha Ramakrishna (1,2,3), Tim Gollisch(1,2), Sonja Kleinlogel(4)
T16 - Vision: Striate and Extrastriate Cortex, Eye Movement and Visuomotor Processing		
T16-1A	A synaptic corollary discharge signal in the optic tectum inhibits visual processing during self-motion	Johann H Bollmann (1,2,3), Mir Ahsan Ali(1), Katharina Lischka(1), Chintan A Trivedi(3), Stephanie J Preuss(3)
T16-2A	Compromised binocular integration and reduced direction selectivity in the visual cortex of postsynaptic density protein 95 (PSD-95) knock-out mice	Masoud Kargar (1,2,3), Nikolaos Aggelopoulos(1,2,4), Susanne Dehmel(1,4), Oliver M. Schlüter(4,5), Cornelia Schöne(1,2), Siegrid Löwel (1,2,4)
T16-3A	Context-dependent interareal synchronization in mouse visual cortex	Chockalingam Ramanathan (1,2), David Eriksson(1), Julia Veit(1,2)
T16-4A	Cortico-cortical neurons provide direct interhemispheric communication between Layer 6 of the monocular primary visual cortices	Simon Weiler (1), Mateo Velez-Fort(1), Troy W. Margrie (1)
T16-1B	Experience-dependent changes in visuospatial selectivity in visual cortex and hippocampus	Tom Flossmann (1), Nathalie Rochefort(1)
T16-2B	Isolating the ongoing impact of specific cell-types onto recurrent circuits in-vivo	David Henning Eriksson (1), Chockalingam Ramanathan(1), Julia Veit(1)
T16-3B	Loss of postsynaptic density-95 (PSD-95) leads to impaired prey capture behaviour in mice	Subhdeep Bhattacharya (1,2,3,4), Susanne Dehmel(1,3), Cornelia Schöne(1,2), Oliver M. Schlüter(3,5,6), Siegrid Löwel(1,2,3)
T16-1C	Neuronal representation of color in the pigeon visual Wulst	Simon Nimpf (1), Harris Kaplan(2), Gregory Charles Nordmann(1), Laura Busse(1), David Anthony Keays(1,3,4)
T16-2C	Orexin knock-out disrupts juvenile ocular dominance plasticity in the mouse visual cortex	Jaya Sowkyadha Sathiyamani (1,2), Tejas Shaji Nair(1,2), Siegrid Löwel(1,3), Cornelia Schöne(1,3)
T16-3C	Origins of feature maps in the visual cortex	Young Jun Jung (1), Michael Ibbotson(1)
T17 - Auditory Mechanoreceptors, Vestibular, Cochlea, Lateral Line and Active Sensing		
T17-1A	Analyzing the TRP channel interactomes in the Drosophila hearing organ	Majid Bahader (1), Martin Göpfert(2)
T17-2A	Autosomal dominant auditory neuropathy type 2 is caused by loss of spiral ganglion neurons due to a mutation in ATP11A.	Nicola Strenzke (1), Shashank Chepurwar(1), Sarah von Loh(2), Daniela Wigger(3), Jakob Neef(1), Dirk Beutner(4), Ruth Lang-Roth(4), Christian Kubisch(2), Alexander E. Volk(2)
T17-3A	CaBP2 and 1 together prevent inactivation of CaV1.3 channels at the IHC ribbon synapses and enable sustained neurotransmission	Shashank Sharad Chepurwar (1), David Oestreicher(2), Tatjana Pallinger(3), Kathrin Kusch(4), Vladan Rankovic(5), Sangyong Jung(6), Nicola Strenzke(7), Tina Pangrsic(8)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T17-4A	Characterization of promoter expression in spiral ganglion neurons and hair cells in vitro	Mara Uhl (1,7), Dominik Simon Botermann(1,7), Tabea Quilitz(1,7), Burak Bali(1,7), Lennart Roos(1,2,3,4), Lena Lindner(1,2), Alica Blenkle(1,2), Tobias Moser(1,2,3,4,5,6), Christian Wrobel(1,2), Kathrin Kusch(1,7)
T17-5A	Cholesterol Metabolism and Trafficking in the Organ of Corti	Yuna Werchner (1,4,5), Roos Voorn(3,4,6), Christian Vogl(2,3,4,6), Tobias Moser(1,3,4,5), Lina Maria Jaime Tobon(1,3,4,5)
T17-6A	Development of earphone-type noninvasive auditory prostheses with infrared laser-based technology	Yuta Tamai (1), Miku Uenaka(2), Aya Okamoto(2), Keito Hosokawa(2), Shizuko Hiryu(2), Kohta I. Kobayasi(2)
T17-1B	Imaging auditory processing in crickets using extracellular loading of Ca ²⁺ tracers	Berthold Hedwig (1), Xinyang Zhang(1), Darron Cullen(2), Fernando Montealegre-Z(2)
T17-2B	Impact of conventional neonicotinoid insecticides and a novel alternative on auditory processing in the desert locust <i>Schistocerca gregaria</i>	Marcelo Christian (1), Michelle Kraft(1), Paul Wilknitz(1), Manuela Nowotny(1), Stefan Schöneich(1)
T17-3B	The potassium channel Eag contributes to variance adaptation in primary auditory neurons of <i>Drosophila melanogaster</i>	Julian Rafael Rottschäfer (1), Jan Frank Clemens(1)
T17-4B	Optogenetic stimulation reduces spectral spread of cochlear implants – a modeling study	Lakshay Khurana (1,2,3,4,5), Daniel Keppeler(1,3,4), Lukasz Jablonski(1,2,4), Tobias Moser(1,2,3,4,6)
T17-5B	Paralemmin-3 – an essential constituent of the plasma membrane of auditory hair cells	Victoria Christine Halim (1,2,3), Iman Bahader(1,2), Thomas Effertz(1,2), Kathrin Kusch(1,2), Nicola Strenzke(1,2), *Manfred Kilimann(4), *Christian Vogl(1,2,5)
T17-6B	Quantification of cochlear neurons based on light sheet microscopy	Anupriya Thirumalai (1,2,3), Tabea Quilitz(1,2,5), Antoine Huet(1,2,3,5,6,7), Tobias Moser(1,2,4,5,6,7)
T17-1C	Reconstitution of synthetic ribbon-type active zones in a heterologous system: in pursuit of dissecting the molecular organization and dynamics of presynaptic Ca ²⁺ channels.	Rohan Kapoor (1,2,3,4), Niko Schwenzler(4,6), Thomas Dresbach(5), Tobias Kohl(4,6), Stefan Lehnart(4,6), Tobias Moser(1,2,3,4)
T17-2C	Sensitivity tuning of <i>Drosophila</i> Hearing	Philip Hehlert (1), Thomas Effertz(2), Ruo-Xu Gu(3), Bert De-Groot(3), Dirk Beutner(2), Martin C. Göpfert(1)
T17-3C	Sound processor and driver for optical cochlear implants enabling behavioural experiments in freely moving animals	Lukasz Jablonski (1,2,3,11,12), Tamas Harczos(1,2,11), Gerhard Hoch(1,2,3), Tobias Moser(1,2,3,4,5,13)
T17-4C	The Role of Vision for Frequency Discrimination and Path Integration in an Active Listening Paradigm	Annalena Malzacher (1,2), Tobias Hilbig(3), Michael Pecka(1), Dardo N. Ferreira(1,4)
T17-5C	Towards behavioral evaluation of a multichannel optogenetic cochlear implant	Bettina Julia Wolf (1,2,3), Lukasz Jablonski(1,2,3), Tamas Harczos(1,2), Alexander Dieter(1,2,3), Christian Dullin(4,5), Patrick Ruther(6,7), Tobias Moser(1,2,3,8,9)
T17-6C	VGLUT3-Dependent Glutamatergic Quantal Transmission in Peripheral Vestibular Function	Mohona Mukhopadhyay (1), Aizhen Yang-Hood(2), Kevin K. Ohlemiller(2), Maolei Xiao(2), Mark Warchol(2), Mark Rutherford(2), Tina Pangrsic(3)

T18 - Auditory System: Subcortical and Cortical Processing		
T18-1A	Age-related synaptopathy alters central auditory responses to speech-like stimuli in the rat	Lukas Rüttiger (1), Anna Melchers(1), Konrad Dapper(1), Etienne Gaudrain(2,3), Deniz Baskent(3), Marjoleen Wouters(4), Sarah Verhulst(4), Matthias H.J. Munk(5), Marlies Knipper(1)
T18-2A	Distinct Neural Populations Process Auditory and Non-Auditory Activity in Shell Inferior Colliculus	Gunnar Lennart Quass (1), Meike Marie Rogalla(1), Alexander Nicholas Ford(1), Kaiwen Shi(1), Pierre François Apostolides(1,2)
T18-3A	Dopamine dependent potentiation of auditory evoked potentials in the striatum.	Andreas L Schulz (1), Michael T Lippert(1), Frank W Ohl(1,2)
T18-4A	Even small changes in acoustic background can induce prepulse inhibition of the startle response depending on size and direction of change	Lisa Koch (1), Eva Dunkel(1), Markus M. Middeke(1), Bernhard H. Gaese(1)
T18-5A	GABAB Receptors modulate the membrane potential of neurons in the dorsal nucleus of the lateral lemniscus.	Amina Javadova (1), Felix Felmy(1)
T18-6A	Hebbian Learning underlying Anticipated ITD Cue Reliability in the Barn Owl Auditory System	Roland Ferger (1), Keanu Shadron(1), Brian J Fischer(2), José L Peña(1)
T18-7A	How the Brain Detects Important Sounds: Deviance Detection in Auditory Brainstem Responses	Johannes Wetekam (1), Julio Hechavarria(1), Luciana Lopez-Jury(1), Manfred Koessl(1)
T18-8A	Implications of synaptic noise on excitation-inhibition integration in auditory brainstem neurons	Jonas Martin Fisch (1), Eckhard Friauf(1)
T18-9A	Frequency integration in the intermediate nucleus of the lateral lemniscus is based on a biophysically heterogeneous cell population.	Kathrin Deborah Wicke (1), Nikolaos Kladisios(1), Felix Felmy(1)
T18-1B	Morphology and physiology of the Mongolian gerbil anteroventral cochlear nucleus neurons.	Sabina Nowakowska (1,2), Jana Henseler(1,3), Antoine Tarquin Huet(1,2)
T18-2B	Neuromodulation of the endbulb of Held to Bushy Cell synapse in the anteroventral cochlear nucleus by serotonin and norepinephrine.	Theocharis Alvanos (1,3,4,6), Maria Groshkova(1,5,6), Tobias Moser(1,2,3,6)
T18-3B	Neuronal Integration of Acoustic Signals in an Insect Auditory System	Annette Stange-Marten (1), Jan Scherberich(1), Stefan Schöneich(1), Melisa Merdan-Desik(1,2), Manuela Nowotny(1)
T18-4B	Phase coupling is crucial for positive threshold effect in tinnitus patients	Konstantin Tziridis (1), Holger Schulze(1)
T18-5B	Phyllostomus discolor Retain a Consistent Beam Size in Seeking Targets	Ravi Umadi (1,2), Lasse Jakobsen(3), Lutz Wiegrebe(2), Uwe Firzlauff(1)
T18-6B	Potential functions of local and descending auditory neurons in a bush cricket	Ali Cillov (1), Andreas Stumpner(1)
T18-7B	Representation of auditory space in the shell of the inferior colliculus	Meike Marie Rogalla (1), Gunnar L Quass(1), Deepak Dileepkumar(1), Alexander N Ford(1), Günseli Wallace(1), Harry Yardley(1), Pierre F Apostolides(1)
T18-8B	Robust Frontal Spatial Representations Appear in the Auditory Cortex of Awake Mice	Michael Hideki Myoga (1,2), Matthias Gumbert(2), Benedikt Grothe(2,3)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T18-1C	Species-specific morphometry of structural compartments of MNTB principal neurons	Christina Pätz-Warncke (1), Tjard Bergmann(1), Sönke von den Berg(1), Felix Felmy(1)
T18-2C	Stimulus-specific adaptation in the bat's frontal and auditory cortex	Eugenia Gonzalez-Palomares (1), Julio C. Hechavarria(1)
T18-3C	Target resolution of single neurons in the computational target distance map of bats	Ali Roustazadeh (1), Uwe Firzlaff(2)
T18-4C	The role of Otoferlin at the inner hair cell synapse: An In vitro investigation	Mehar Monga (1,2), Julia Preobraschenski(1,2)
T18-5C	The TSC – mTORC1 axis in the development of the auditory brainstem	Lena Ebbers (1), Jan Bobrowski(1), Enno Davide Wendlandt(1), Lisa Borowsky(1), Kathrin Thedieck(2), Hans Gerd Nothwang(1)
T18-6C	The two-pore potassium channel subunit Task5 regulates central auditory processing	Christoph Körber (1), Mahshid Helia Saber(1), Michaela Kaiser(1), Lukas Rüttiger(2)
T18-7C	Weak topographic organization of auditory corticocollicular neurons	Kira Maria Anna Andrea (1), Tatjana T. X. Schmitt(1), Simon L. Wadle(1), Jan J. Hirtz(1)
T18-8C	What factors influence the speed of task learning in a freely moving go/no-go paradigm?	Gökçe Dogu (1), Valentin Winhart(1), Paula Gundi(1), Andrey Sobolev(2), Miguel Bengala(1), Dardo N. Ferreira(2,3), Michael Pecka(1,2)
T19 - Chemical Senses: Olfaction, Taste, Others		
T19-1A	Anatomical basis of olfactory processing in the brain of Ixodes ticks	Carola Städele (1)
T19-2A	Anatomy of central gustatory circuits in the honey bee brain	Melissa Pitzalis (1), Virginie Larcher(1), Louise Besteq(2), Gabriela de Brito Sanchez(2), Martin Giurfa(2), Julie Carcaud(1), Jean-Christophe Sandoz(1)
T19-3A	Axonal projections of main and accessory olfactory bulb principal neurons in mice	Moritz Nessler (1), Marc Spehr(1)
T19-4A	Challenges and approaches for measuring whole-brain activity in non-model insects	Yvonne Hertenberger (1), Sercan Sayin(2), Einat Couzin-Fuchs(1,2,3), Armin Bahl(2)
T19-5A	Characterization of innate odor driven exploratory behavior	Christian Daniel (1), Giovanni D'uva(1), Maria Ioannidou(1), Leticia Batista(1), Carlotta Martelli(1)
T19-6A	Chemosensory processing of sickness related cues via the mouse accessory olfactory system	Friederike Donata Seifert (1), Marco Niestroj(1), Maciej Winiarski(2), Anna Bryska(2), Lydia Kopplin(3), Pavel Stopka(4), Alicja Puscian(2), Oliver Pabst(3), Minghong Ma(5), Marc Spehr(1)
T19-7A	Circuit mechanisms controlling state-dependent food intake in Drosophila	Lara Lederle (1), Anna-Lena Eckes(1), Janina Brückner(1), Xinyu Liu(2), Rouven Lukas Ziegler(1), Jan Pielage(1)
T19-8A	Early olfactory processing in antennal lobe neurons in the stick insect Carausius morosus	Andrea Gonsek (1), Volker Dürr(1), Martin Strube-Bloss(1)
T19-9A	Effect of environment and internal state on Drosophila larval group behaviour	Akhila Mudunuri (1,2), Katrin Vogt(1,2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T19-10A	Electrophysiological and morphological characterization of periglomerular cells in the mouse accessory olfactory bulb	Hannah-Lena Tröger (1), Marc Spehr(1)
T19-11A	Evolution of an olfactory subsystem and its link with the multiple emergences of eusociality in Hymenoptera	Simon Marty (1), Antoine Couto(2), Patrizia d'Ettorre(3), Stephen Montgomery(2), Jean-Christophe Sandoz(1)
T19-1B	Evolution of chemosensory receptor repertoires	Sigrun I Korsching (1), Daniel Kowatschew(1), Milan Dieris(1)
T19-2B	Examination of membrane properties that control plasticity of kinetics and sensitivity in hawkmoth olfactory receptor neurons	Aditi Vijayan (1), Anna Schneider(1), Mauro Forlino(2), Katrin Schröder(1), Yajun Chang(1), Martin Garcia(2), Monika Stengl(1)
T19-3B	Examination of spontaneous activity of pheromone-sensitive olfactory receptor neurons in the hawkmoth <i>Manduca sexta</i> and the role of Orco	Monika Stengl (1), Katrin Schroeder(1)
T19-4B	Homeostasis of Mitochondrial Ca ²⁺ Stores Is Critical for Signal Amplification in <i>Drosophila melanogaster</i> Olfactory Sensory Neurons	Eric Wiesel (1), Sabine Kaltofen(1), Bill S. Hansson(1), Dieter Wicher(1)
T19-5B	Interindividual variation of synaptic partners: a study on the olfactory pathway of <i>Drosophila melanogaster</i>	Leticia Leandro Batista (1), Pascal Züffle(1), Carlotta Martelli(1)
T19-6B	Investigation of dose-dependent modulatory mechanisms in mouse olfactory transduction	Victoria K. Switacz (1), Daniela R. Drose(1), Marc Spehr(1)
T19-7B	Linear integration of taste and courtship song drive social interactions in <i>Drosophila</i> males	Adrián Palacios-Muñoz (1), Jan Clemens(1)
T19-8B	Multisite imaging of neural activity using a genetically encoded calcium sensor in the honey bee <i>Apis mellifera</i>	Jean-Christophe Sandoz (1), Julie Carcaud(1), Marianne Otte(2), Bernd Grünwald(3), Albrecht Haase(4), Martin Beye(2)
T19-9B	Obtaining numerical values of an olfactory system: first steps to characterize the olfactory pathway in the crustacean <i>Parhyale hawaiiensis</i>	Katja Dorina Kümmerlen (1), Sophie Raspe(1), Steffen Harzsch(1)
T19-10B	SNMP1 is critical for sensitive pheromone detection and pheromone-controlled behaviors in the desert locust <i>Schistocerca gregaria</i>	Joris Lehmann (1), Johanna Libnow(1), Maryam Khosravian(1), Hetan Chang(2), Markus Knaden(2), Bill S. Hansson(2), Jürgen Krieger(1), Jörg Fleischer(1)
T19-11B	Social flexibility and olfactory processing in the desert locust	Inga Petelski (1,2,3,4), Yannick Guenzel(1,2,3,4), Sercan Sayin(1,2,3), Einat Couzin-Fuchs(1,2,3)
T19-1C	Spike Frequency Modulation of Central Neurons in the Primary Olfactory Pathway of Insects	Jan Erik Radermacher (1), Debora Fusca(1), Svenja Corneliusen(1), Jonas M Klußmann(1), Peter Kloppenburg(1)
T19-2C	State-dependent modulation of odor valence and social behavior via the main olfactory pathway	Annika Cichy (1), Adam Dewan(2), Jingji Zhang(3), Sarah Kaye(3), Tiffany Teng(3), Cassandra Blanchard(3), Paul Feinstein(4), Thomas Bozza(3)
T19-3C	Synaptic mechanisms and their functions for stimulus adaptation in the <i>Drosophila</i> olfactory pathway	Sofia C. Brandão (1), Carlotta Martelli(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T19-4C	The larval sensory system: From structure to function	Vincent Richter (1), Anna Rist(2), Anton Miroschnikow(3), Michael J. Pankratz(3), Albert Cardona(4), Michael Laumann(5), Andreas S. Thum(1,2,6)
T19-5C	The mushroom body output encodes behavioral decision during sensory-motor transformation	Cansu Arican (1), Felix Johannes Schmitt(1), Wolfgang Rössler(2), Martin Fritz Strube-Bloss(3), Martin Paul Nawrot(1)
T19-6C	The neuronal logic of how internal states control food choice	Daniel Münch (1), Dennis Goldschmidt(1), Carlos Ribeiro(1)
T19-7C	The role of SNMP2 in the olfactory processes of moths	Sina Cassau (1), Jürgen Krieger(1)
T19-8C	The search for olfactory receptors tuned to pheromones in the honey bee	Benjamin Andreu (1), Nicolas Montagné(2), Thomas Chertemps(2), Emmanuelle Jacquin-Joly(3), David Touboul(4), Amandine Huebert(4)
T19-9C	The Sensilla-Specific Expression and Subcellular Localization of SNMP1 and SNMP2 Reveal Novel Insights into their Roles in the Antenna of the Desert Locust Schistocerca gregaria	Jürgen Krieger (1), Doreen Sander(1), Angelina Degen(1), Thomas Karcher(1,2), Stephanie Krüger(3), Michael Laue(4), Gerd Hause(5), Heinz Breer(6), Sina Cassau(1)
T19-10C	Whole brain representation of odor and taste and their integration in the adult fly	Paul Bandow (1,2), Sophie Aimon(3), Ilona C. Grunwald Kadow(1,2)
T19-11C	Binge eating suppresses flavor representations in the mouse olfactory cortex	Hung Lo (1), Anke Schoenherr(1), Malinda L.S. Tantirigama(3,5), Laura Moreno Velasquez(1), Lukas Faiss(1,6), Benjamin Rost(1,6), Matthew Larkum(3), Benjamin Judkewitz(1,2,5), Katharina Stumpfenhorst(4), Marion Rivalan(5), York Winter(4), Dietmar Schmitz(1,2,5,6), Friedrich Johenning(1,2)
T20 - Somatosensation: Touch, Temperature, Proprioception, Nociception		
T20-1A	Altered Thermoregulation in Adra2b-Null Mice Links to Metabolic Alterations	Xinnan Song (1), Katharina Zimmermann(1), Pragyanshu Khare(1)
T20-2A	Anatomical characterization of Drosophila melanogaster ascending neurons conveying somatosensory information from the adult ventral nerve cord to the brain	Massimo Thiel (1), Erica Ehrhardt(2), Kei Ito(3)
T20-3A	Ceramide Synthases: New Players in Pain Signaling?	Oliver Dräger (1), Marie Bergmeier(2), Wing-Kee Lee(2), Erhard Wischmeyer(1)
T20-4A	Investigating the role of magnetic cues in the neural representation of space in the subterranean mole-rat Fukomys anelli	Runita Shirdhankar (1), Georgina Fenton(1), Pascal Malkemper(1)
T20-1B	Leg Campaniform Sensilla Projection Patterns in the Fruit Fly Ventral Nerve Cord	Anna Pierzchlińska (1), Gesa F. Dinges(2), Erica Ehrhardt(1), Till Bockemühl(1), Kai Feng(3), Kei Ito(1), Ansgar Büschges(1)
T20-2B	FPR2 activation initiates pain resolution and fibrinogen clearance after sciatic nerve injury	Adel Ben Kraiem (1), Beate Hartmannsberger(1), Alexander Brack(1), Heike Rittner(1)
T20-3B	Role of Leg-Campaniform sensilla in fruit fly curve walking	Ricardo Duarte Custódio (1), Axel Gorostiza(2), Till Bockemühl (3), Ansgar Büschges(4)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T20-4B	Role of the molecular mediator Lrg1 in persistent inflammatory pain.	Ann-Kristin Kenkel (1), José Ricardo Vieira(1,2,3), Christian Litke(1), Andromachi Karakatsani(2), Carmen Ruiz de Almodóvar(2,4,5), Daniela Mauceri(1,6)
T20-5B	Magnetoreception in laboratory mice	Li Zhang (1), Brittany Hamauei(1), Georgina Fenton(1), Runita Narendra Shirdhankar(1), Martha Daniel(1), Pascal Malkemper(1)
T20-1C	Stress during adolescence as a predisposing factor for low back pain in adulthood.	Deepika Singhal (1), Rolf-Detlef Treede(1)
T20-2C	The Effects of Developmental Temperature on Adult Behavior in Flies and Ants	Jana Mach (1), P. Robin Hiesinger(1)
T20-3C	VIP-to-SST circuit motif shows differential short-term plasticity across sensory areas of mouse cortex	Jenifer Rachel (1), Martin Möck(1), Mirko Witte(1), Jochen F Staiger(1)
T20-4C	Voluntary passive movement – do flies play?	Wolf Huetteroth (1), Tilman Triphan(1)
T21 - Motor Systems		
T21-1A	(Sub-) cortical recordings in zebra finches during vocal interactions	Carlos Manuel Gomez Guzman (1), Daniela Vallentin(2)
T21-2A	A detailed characterisation of acoustic motifs in calling songs of the duetting bushcricket <i>Phaneroptera sparsa</i>	Charlotte Mudter (1), Manuela Nowotny(1), Stefan Schöneich(1)
T21-3A	Cortical nucleus mMAN contributes to syllable sequencing in adult Bengalese finches (<i>Lonchura striata domestica</i>)	Avani Prasad Koparkar (1), Sooyoon Shin(2), Timothy L. Warren(2), Michael Brainard(2), Lena Veit(1,2)
T21-4A	Decoding network architecture and function of the central pattern generator for asynchronous flight reveals a novel mechanism for network desynchronization through electrical synapses	Silvan Hürkey (1), Stefanie Ryglewski(1), Nelson Niemeyer(2), Jan-Hendrik Schleimer(2), Susanne Schreiber(2), Carsten Duch(1)
T21-5A	Decomposition of 3D joint kinematics of forward walking fruit flies, <i>Drosophila melanogaster</i>	Moritz Haustein (1), Ansgar Büschges(1), Till Bockemühl(1)
T21-6A	Descending control of backward walking - more than just a switch	Stefan Dahlhoff (1), Aleya Meric(1), Jan M. Ache(1)
T21-7A	Effects of deep brain stimulation (DBS) in the entopeduncular nucleus (EPN) in dystonic dtsz hamsters	Anika Lüttig (1), Stefanie Perl(1), Maria Paap(1), Denise Franz(2), Marco Heerdegen(2), Rüdiger Köhling(2), Angelika Richter(1)
T21-8A	Evidence for distributed temporal representations at the input layer of the cerebellum	Franziska Bender (1), Berat Semihcan Sermet(1), Giovanni Diana(1), Maria Miruna Costreie(1), Florian Rucker(1), Gael Moneron(1)
T21-9A	GABA-ergic Neurons of the Stick Insect with a Focus on Intersegmental Connectivity	Matthias Gruhn (1), Giulia DiCristina(1), Sherylane Seeliger(1), Sima Syed-Nejadi(1), Ansgar Büschges(1)
T21-1B	Inferring choices from full-body movements during go-before-you-know decision making in freely moving rhesus monkeys	Irene Lacaal (1), Zuma Ahmed(1,2), Neda Shahidi(1,3), Alexander Gail(1,2,3,4)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T21-2B	Integration of visual and mechanosensory cues by descending neurons controlling backward walking in <i>Drosophila</i>	Aleyna M. Meric (1), Stefan Dahlhoff(1), Jan M. Ache(1)
T21-3B	Integration of visual and vibrotactile cues for estimating reach goal direction in humans	Lukas Amann (1,2), Virginia Casasnovas(1,2), Enrico Ferrea(1,3), Alexander Gail(1,2,4,5)
T21-4B	Investigation of motor development in an ion channelopathy model	Grusha Primal Mathias (1), Dirk Isbrandt(1), Stephan Marguet(1), Andrea Merseburg(1)
T21-5B	Optogenetic inhibition reveals causal modulation of parietal motor goal encoding via frontal-to-parietal projections in rhesus monkeys	Hao Guo (1), Michal Fortuna(1,3), Janina Hürer(2,4,8), Stefan Treue(2,5,6,7), Alexander Gail(1,5,6,7)
T21-6B	Regular physical activity and motor learning induce white matter myelination: a longitudinal, multi-shell diffusion MRI study in rat	Lisa-Marie Goncalves (1), Nico Lehmann(2), Patricia Wenk(1), Marco Taubert(2,3), Eike Budinger(1,3)
T21-7B	Single cell type analysis of wing and haltere premotor circuits in the ventral nerve cord of <i>Drosophila melanogaster</i>	Erica Ehrhardt (1), Samuel C. Whitehead(2), Shigehiro Namiki(3), Ryo Minegishi(3), Igor Siwanowicz(3), Kai Feng(4), Hideo Otsuna(3), FlyLight Project Team(3), David Stern(3), Jim Truman(3,5), David Shepherd(6), Michael Dickinson(3,7), Kei Ito(1,3), Barry
T21-8B	Task-dependent modifications of premotor interneuron activity and load processing in an insect leg-muscle control system	Angelina Ruthe (1), Philipp Rosenbaum(1), Alkan Özyer(1), Ansgar Büschges(1)
T21-1C	Temperature responses of stomatogastric neurons in the brush-clawed shore crab, <i>Hemigrapsus takanoi</i> .	Wolfgang Stein (1), Steffen Harzsch(2)
T21-2C	Thalamus drives vocal onsets in the zebra finch song sequence	Felix W. Moll (1,2), Devorah Kranz(2), Ariadna Corredera Asensio(2), Margot Elmaleh(2), Lyn A. Ackert-Smith(2), Michael A. Long(2)
T21-3C	The effect of continuous visual feedback uncertainty on motor adaptation	Virginia Casasnovas (1,2), Lukas Amann(1,2), Enrico Ferrea(1,3), Alexander Gail(1,2,4,5)
T21-4C	The interplay of behavioral rules and feedback during social behavior	Sarath Ravindran Nair (1), Jan Clemens(1,2,3)
T21-5C	Unraveling <i>Drosophila</i> curve walking behavior	Ezequiel Axel Gorostiza (1), Till Bockemühl(1), Kei Ito(1), Ansgar Büschges(1)
T21-6C	Unraveling the frequency- and layer-specific effects of high-frequency STN stimulation in mice in vivo	Svenja Kreis (1), Heiko J. Luhmann(1), Sergiu Groppa(2), Daniela Mirzac(2,3), Muthuraman Muthuraman(2)
T21-7C	Using a Multi-Network Approach with DeepLabCut to Improve Automatic Pose Estimation	Terrence Michael Wright (1,2), Till Bockemühl(1), Ansgar Büschges(1)
T21-8C	Using Neuropixels recordings to probe the stability of latent variables of the cortical grasping network in primates	Roberta Nocerino (1), Jan Churan(1), Hansjörg Scherberger(1,2)
T21-9C	Walking speed affects spatial and temporal variability of leg movements in freely walking <i>Drosophila melanogaster</i>	Vincent Godesberg (1), Ansgar Büschges(1), Till Bockemühl(1)

T22 - Homeostatic and Neuroendocrine Systems, Stress Response

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T22-1A	„Satiety vs. Starvation “– Neuropeptidomics of the central nervous system of <i>Drosophila melanogaster</i> L3-larvae	Anna-Sophie Kügler (1), Susanne Neupert(1)
T22-2A	Calcium dependent mechanisms to establish neuronal homeostatic setpoints	Niklas Krick (1), Richard Baines(2), Matthias Landgraf(1)
T22-3A	Cell-specific function of the thyroid hormone transporters Mct8 and Oatp1c1 in mouse blood-brain barrier cells	Androniki Alevyzaki (1), Boyka Markova(1), Steffen Mayerl(1), Heike Heuer(1)
T22-4A	moved to T22-9C Complementary lateral hypothalamic populations resist hunger pressure to balance nutritional and social needs	Anne Petzold (1,2), Hanna Elin van den Munkhof(1,2), Rebecca Figge-Schlensok(1,2), Tatiana Korotkova(1,2)
T22-5A	Connection of MC3R neurons and their role in stress responses	Jiajie Zhu (1,2), Rachel Lippert(1,3), Selma Yagoub(1,2), Lídia Cantacorps(1), Katrin Ritter(1), Robert Chesters(1)
T22-6A	Dopaminergic signaling in the arcuate nucleus of the hypothalamus	Svenja Corneliussen (1,2), Isabella Gaziano(1,3,4), Nasim Biglari(1,3,4), René Neuhaus(1,3,4), Linyan Shen(1,3,4), Tamara Sotelo Hitschfeld(1,3,4), Paul Klemm(1,3,4), Lukas Steuernagel(1,3,4), Alain de Solis(1,3,4), Weiyi Chen(1,3,4), F. Thomas Wunderlich
T22-7A	Energy homeostasis and melanocortin receptors of the paraventricular thalamus.	Robert Chesters (1), Bethany Coull(1), Lydia Palm(1,2), Katrin Ritter(1), Rachel Lippert(1,3)
T22-1B	Homeostatic signaling helps cooled fish larvae escape from ballistic predators	Alexander Hecker (1), Stefan Schuster(1)
T22-2B	Impact of thyroid hormone transporter Mct8/Oatp1c1 deficiency on hippocampal GABAergic and glutamatergic systems in the mouse CNS	Andrea Alcaide Martin (1), Heike Heuer(1), Steffen Mayerl(1)
T22-3B	Insulin-like signalling together with the serotonin transporter regulate appetite in <i>Drosophila melanogaster</i>	Magdalena Gompert (1), Katharina Dorn(1), JianZheng He(1), Henrike Scholz(1)
T22-4B	Integrated cardio-behavioural defensive states	Jérémy Signoret-Genest (1,2), Nina Schukraft(1), Sara L. Reis(1), Dennis Segebarth(1), Philip Tovote(1,2)
T22-5B	Maternal diabetes and metformin exposure affect offspring brain development in a sex-dependent manner.	Lidia Cantacorps (1,2), Jiajie Zhu(1), Selma Yagoub(1), Lea-Sophie Kasch(1), Maya Paterson(1), Miguel Serrano-Lope(1), Rachel Lippert(1,2,3)
T22-6B	Sepsis-like Bacterial infection modulates innate Behaviour in <i>Drosophila melanogaster</i>	Thomas Riemensperger (1), Fabienne Reh(1), Kei Ito(1)
T22-7B	Impaired cerebrovascular reactivity and elevated levels of carbon dioxide – central regulation of combined peripheral effects	Dorothea Ziemens (1), Marius Richter(1), Ákos Menyhárt(2), Eszter Farkas(2), Markus Schwaninger(1), Jan Wenzel(1)
T22-8B	Stimulation of autophagy in hippocampal neurons by Neuropeptide Y	Ines Erdmann (1), Gina Marie Krause(1), Elisa Redavide(1,2,4), Anke Müller(3,4), Daniela C. Dieterich(3,4), Oliver Stork(2,4), Anne Albrecht(1,4)
T22-1C	Tanycytic thyroid hormone (TH) signalling in the regulation of hypothalamic functions and hormone uptake	Akila Chandrasekar (1), Sebastain Abele(1), Anke Fähnrich(2), Frauke Spiecker(1), Jens Mittag(3), Markus Schwaninger(1), Helge Müller-Fielitz(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T22-2C	Temperature-dependent variability of detectable neuropeptide titers in individual <i>Drosophila</i> neurons by quantitative immunolabelling	Inga Schirmer (1), Susanne Neupert(1)
T22-3C	The role of BDNFLH neurons in the regulation of feeding behaviour	Carolin Schumacher (1), Anne Petzold(1,2), Tatiana Korotkova(1,2)
T22-4C	The role of orexin receptors 1 and 2 in serotonergic neurons of raphe nuclei.	Gagik Yeghiazaryan (1,2), Xing Xiao(2,3), Simon Hess(1,2), Paul Klemm(3), Anna Sieben(3), André Kleinriders(3), Donald Morgan(4), Thomas Wunderlich(3), Kamal Rahmouni(4), Dong Kong(5), Thomas Scammell(5), Bradford Lowell(5), Jens Brüning(3)
T22-5C	The Role of TRH Neurons in Energy Homeostasis and Regulation of Brown Adipose Tissue	Andreea Constantinescu (1), Luka Höhne(1), Jens Mittag(2), Helge Müller-Fielitz(1), Markus Schwaninger(1)
T22-6C	Title: 3-D STED Imaging of Tanycytes	Surya Prakash Rai (1), Helge Müller-Fielitz(1), Markus Schwaninger(1)
T22-7C	Sleep deprivation increases performance in larval zebrafish decision making	Hanna Zwaka (1), Paula Pflitsch(1), Will Joo(1), Kumaresh Krishnan(1), Nadine Oury(1), Armin Bahl(2), Declan Lyons(3), Jason Rihel(3), Florian Engert(1)
T22-8C	Transgenerational effects of early life stress on DNA methylation of the Oxytocin receptor promoter (OxTR) in mouse brain and peripheral tissues.	Brigid Chimoita Aliero (1), Nicole Gröger(1), Alexandra Lesse(1), Kathrina Braun(1,3), Jörg Bock(2,3)
T22-9C	Complementary lateral hypothalamic populations resist hunger pressure to balance nutritional and social needs	Anne Petzold (1,2), Hanna Elin van den Munkhof(1,2), Rebecca Figge-Schlensock(1,2), Tatiana Korotkova(1,2)
T22-10C	A role of the oxytocin signaling in the hypothalamus for social fear learning	Takuya Osakada (1), Dayu Lin(1)
T23 - Neural Networks and Rhythm Generators		
T23-1A	A galanin-positive population of lumbar spinal cord neurons modulates sexual behavior and arousal	Constanze Lenschow (1,2), Ana Rita P. Mendes(2), Liliana Ferreira(2), Bertrand Lacoste(2), Camille Quilgars(3), Sandrine S. Bertrand(3), Susana Q. Lima(2)
T23-2A	A Systematic Classification of Neurons forming the Clamp Region in the Adult <i>Drosophila</i> Brain	Jonas Mario Klußmann (1), Jens Goldammer(1), Kei Ito(1)
T23-3A	Anatomical connections of the crow brain's cognitive control center nidopallium caudolaterale (NCL)	Saskia Erdle (1), Ylva Kersten(1), Felix W. Moll(1), Andreas Nieder(1)
T23-4A	Balanced ring network of spiking neurons as a model of visual cortex hypercolumn	Mohammadreza Soltanipour (1,2,3), Fred Wolf(1,2,3)
T23-5A	Behavioral state-dependent modulation of Insulin-Producing Cells in <i>Drosophila</i>	Sander Liessem (1), Martina Held(1), Rituja Bisen(1), Hannah Haberkern(2), Haluk Lacin(3), Till Bockemühl(4), Jan M. Ache(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T23-6A	Biological validation of a microneedle 3D high-density CMOS multi-electrode array for brain tissue and spheroids	Elisa Monz (1), Lisa Mapelli(2), Olivier Dubochet(3), Mariateresa Tedesco(1), Giacomo Sciacca(1), Alessandra Ottaviani(2), Anita Monteverdi(2,4), Chiara Battaglia(1), Simona Tritto(2), Francis Cardot(3), Patrick Surbled(3), Jan Schildknecht(3), Chiara Cer
T23-7A	Characterization of circadian modulators in relay stations of prefrontal-to-hippocampal circuits via viral tracing and laser microdissection	Lara Mariel Chirich Barreira (1), Julia U. Henschke(2,3), Janelle M.P. Pakan(2,3,4), Anne Albrecht(1,2)
T23-8A	Connectivity Analysis of the Monoaminergic Systems of Drosophila Brain	Jiajun Zhang (1), Nikolaj Rieger(1), Kei Ito(1), Thomas Riemensperger(1)
T23-9A	Consequences of Axonal Dysfunctions for Network Oscillations in a Mouse Model of Dravet Syndrome	Raquel Lascorz Massanet (1), Fabian C. Roth(1)
T23-10A	DEND mutation disrupts hippocampal network activity and nocturnal γ shifts	Kristina Lippmann (1), Marie-Elisabeth Burkart(1), Josephine Kurzke(1), Jorge Vera(2), Frances Ashcroft(3), Jens Eilers(1)
T23-1B	Dendritic axon origin enables selective information gating by perisomatic inhibition in pyramidal neurons	Martin Both (1), Alexander Hodapp(1), Martin E Kaiser(1), Christian Thome(1,2,3), Lingjun Ding(4,5,6), Andrei Rozov(1,7,8), Matthias Klumpp(1), Nikolas Stevens(1), Tina Sackmann(1), Nadja Lehmann(9), Andreas Draguhn(1), Andrea Burgalossi(4,5), Maren Engel
T23-2B	Developmental network embedding of PV interneurons in relation to the emergence of gamma rhythms in the prefrontal cortex	Anton Offermanns (1), Jastyn A. Pöplau(1), Ileana Hanganu-Opatz(1)
T23-3B	Different involvement of axon-carrying dendrite versus canonical neurons during learning processes	Nadja Sharkov (1), Matthias Klumpp(1), Nikolas Stevens(1), Christian Thome(1,2,3), Janina Kupke(4), Andreas Draguhn(1), Ana M. M. Oliveira(4), Martin Both(1)
T23-4B	Disinhibitory Circuit Motifs in Mouse Primary Somatosensory (Barrel) Cortex	Felix Preuß (1), Martin Möck(1), Mirko Witte(1), Jochen F. Staiger(1)
T23-5B	Dynamics in timing of the sounds of Mecopoda elongata	Reinhard Lakes-Harlan (1)
T23-6B	Electrophysiological Characterization and Computational Modeling of Insulin-Producing Cells in Drosophila	Federico Cascino-Milani (1), Lorenzo Fontolan(2), Sabine Fischer(3), Jan M. Ache(1)
T23-7B	Functional Analysis of Neuropeptides in the Accessory Medulla of the Madeira Cockroach Rhyarobia maderae	Sohail H. Shoaib (1), Susanne Neupert(1), Monika Stengl(1)
T23-8B	Functional characterization of long-range GABAergic projections from the medial septum to the lateral entorhinal cortex	Viktoria B. Pfennig (1), Yu-Chao Liu(1), Elke C. Fuchs(1), Hannah Monyer(1)
T23-9B	Higher-order anatomical connectivity explains functional properties of visual circuitry	Juan Felipe Vargas Figue (1), Sebastian Molina-Obando(1), Marion Silies(1)
T23-10B	Investigating the coupling between surplus spike synchrony and slow oscillations in the dorsal hippocampus	Regimantas Jurkus (1,4), Julien Fiorilli(2,4), Thijs R. Ruikes(2), Sonja Grün(1,3), Cyriel M. A. Pennartz(2), Michael Denker(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T23-1C	Investigation of the involvement of pigment-dispersing factor (PDF) and other neuropeptides in seasonal adaptation to the changing photoperiod in the cockroach <i>Rhyarobia maderae</i>	Huleg Zolmon (1), Susanne Jaguttis(1), Monika Stengl(1)
T23-2C	Ionic currents in insect circadian clock neurons	Anna C. Schneider (1), Monika Stengl(1)
T23-3C	Late developmental dynamics of activity patterns within prefrontal-hippocampal networks in health and a genetic risk model for schizophrenia	Marilena Hnida (1), Jastyn A. Pöpplau(1), Ileana L. Hanganu-Opatz(1)
T23-4C	Near-optimal encoding of minimal stimuli in the cortical gateway for somatosensation	Andreas Neef (1), Fred Wolf(1), Michael J Gutnick(2), Omer Revah(2)
T23-5C	Network synchrony creates neural filters that switch brain state from navigation to sleep in <i>Drosophila</i>	Raquel Suárez Grimalt (1,2), Davide Raccuglia(1), Laura Krumm(2,4), Cedric C. Brodersen(1), Anatoli Ender(1), Sridhar Jagannathan(1), York Winter(2,5), Genevieve Yvon-Durocher(1,2), Richard Kempfer(2,4,6), Jörg R.P. Geiger(1,2), David Oswald(1,2,3)
T23-6C	Neural integration of sensory input and sleep need in <i>Drosophila</i>	Cedric Beat Brodersen (1), Raquel Suárez-Grimalt(1,2), Jörg RP Geiger(1,2), David Oswald(1,2,3), Davide Raccuglia(1)
T23-7C	Olfactory dysfunction contributes to impaired developmental hippocampal-prefrontal activity in a mouse model of neuropsychiatric disorders	Fiona Parbst (1), Sebastian H. Bitzenhofer(1), Ileana L. Hanganu-Opatz(1)
T23-8C	Peptidergic and aminergic modulation of Insulin-Producing Cells in <i>Drosophila</i>	Martina Held (1), Isabella Balles(1), Rituja Bisen(1), Selina Hilpert(1), Alexander S. Chockley(1), Federico Cascino-Milani(1), Sander Liessem(1), Meet Zandawala(1), Jan M. Ache(1)
T23-9C	Syntalos: A Software for simultaneous acquisition of heterogeneous neurophysiological data and for closed-loop intervention protocols	Matthias Klumpp (1), Lee Embray(1), Justus Simon(1), Andreas Draguhn(1), Martin Both(1)
T23-10C	The anatomy of auditory brainstem nuclei in the Etruscan shrew	Alina C. Zacher (1), Felix Felmy(1)
T24 - Attention, Motivation, Emotion and Cognition		
T24-1A	Computational archaeology of the human cognitive past	Wulf Haubensak (1,6), Joanna Kaczanowska(1), Florian Ganglberger(2), Olga Chernomor(3), Dominic Kargl(1,6), Andreas Hess(4), Yohan Moodley(5), Arndt von Haeseler(3), Katja Bühler(2), Lukasz Piszczek(1,6)
T24-2A	Decision-making based on visual motion perception in the crow	Philipp Schmidbauer (1), Andreas Nieder(1)
T24-3A	Developmental dynamics of cognitive flexibility in mice	Mariia Dorofeikova (1), Jastyn A. Pöpplau(1), Ann M. Thies(1), Ileana L. Hanganu-Opatz(1)
T24-4A	Effects of altered Ribosomal S6 kinase (RSK/S6kII) expression on emotion-relevant open-field behavior of <i>Drosophila melanogaster</i>	Yi Wang (1), Maria Steigmeier(1), Yasmine Zöller(1), Thomas Raabe(2), Christian Wegener(1)
T24-5A	Exogenous and endogenous spatial attention in crows	Linus Hahner (1), Malte Quest(1), Paul Rinnert(1), Andreas Nieder(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T24-6A	Frontopolar mechanisms for driving social and economic decisions in primate groups	Raymundo Báez Mendoza (1,2), Emma P Mastrobattista(2), Amy J Wang(2), Ziv M Williams(2)
T24-7A	Heterogeneity of excitatory neurons of the basolateral amygdala: from transcriptome to calcium imaging and behavior	hansol lim (1), Christian Peters(1), Ruediger Klein(1)
T24-1B	Hunger state-dependent modulation of neural processing and behavior in <i>Drosophila</i> larvae	Katrin Vogt (1,2)
T24-2B	Mapping of the Carrion Crow's Brain	Ylva Kersten (1), Felix Moll(1), Saskia Erdle(1), Bettina Friedrich-Mueller(1), Andreas Nieder(1)
T24-3B	Modality-specific accumulation of evidence in mice performing a multisensory discrimination task	Gerion Nabbefeld (1,2), Emma Cravo(3), Irene Lenzi(2,3), Sacha Abou Rachid(1,2), Severin Graff(1,2,3), Simon Musall(2,3), Björn Kampa(1,2,4)
T24-4B	Negative and positive stimuli in the Open-field test behaviour of <i>Drosophila melanogaster</i>	Emilia Derksen (1), Yi Wang(1), Christian Wegener(1)
T24-5B	Neural mechanisms of numerical selection in the fronto-parietal cortices of the macaque	Tobias Machts (1), Julia Grüb(1), Andreas Nieder(1)
T24-6B	Number production in rhesus macaques	Laura Elisa Seidler (1), Stephanie Westendorff(1), Andreas Nieder(1)
T24-7B	Orthogonal coding of food and voluntary exercise by VTA dopamine neurons	Hanna Elin van den Munkhof (1,2), Vasyly Mykytiuk(1,2), Tatiana Korotkova(1,2)
T24-1C	Prefrontal cortex tracks elapsed time during self-paced action selection	Ole Christian Sylte (1,2), Hannah Muysers(1,2), Hung-Ling Chen(1), Marlene Bartos(1), Jonas-Frederic Sauer(1)
T24-2C	Real-time whistle pitch-matching in wild nightingales	Giacomo Costalunga (1), Daniela Vallentin(1)
T24-3C	Selective attention in the highspeed decisions of hunting archerfish	Sophie Yvonne Schödel (1), Martin Krause(1), Wolfram Schulze(1), Stefan Schuster(1)
T24-4C	Social odour activates the hippocampal formation in zebra finches (<i>Taeniopygia guttata</i>)	Uwe Mayer (1)
T24-5C	Spatial coding by somatostatin and neurotensin neurons in the lateral septum	Robson Scheffer Teixeira (1), Francisco Javier de los Santos Bernal(1,2), Letizia Moscato(1,2), Tatiana Korotkova(1,2)
T24-6C	The reverse cocktail party problem: Dynamic time-domain jamming avoidance in freely socializing bats	Ava Kiai (1), Manfred Koessl(1), David Poeppel(2), Julio Hechavarria(1)
T25 - Learning and Memory		
T25-1A	"What a pleasure when the pain subsides" Towards a molecular architecture of learning from pain relief	Christian König (1), Thomas Niewalda(1), Melissa Comstock(1), Svea Königsmann(1), Juliane Thoener(1), Bertram Gerber(1)
T25-2A	A dedicated, non-olfactory mushroom body sub-circuit mediates the interaction between goal-directed actions and habit formation in <i>Drosophila</i>	Radostina Lyutova (1), Silvia Marcato(1), Björn Brembs(1)
T25-3A	A persistent prefrontal reference frame across time and task rules	Hannah Muysers (1,2), Hung-Ling Chen(1), Jonas-Frederic Sauer(1,3), Marlene Bartos(1,3)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T25-4A	A selectable eye marker affects memory formation in <i>Drosophila melanogaster</i> larvae.	Hanna Rebekka Franz (1)
T25-5A	A Spectral Chronometer for Interval Timing in <i>Drosophila</i>	Jan Kropf (1), Clifford B. Talbot(1), Gero Miesenböck(1)
T25-6A	retracted Ablation of Neuroplastin expression in GABAergic Interneurons Induces Retrograde Amnesia of Associative Memories	Juanjuan Chen (1), Rodrigo Herrera-Molina(2,3), Dirk Montag(1)
T25-7A	Analysis of burst sequences in mouse prefrontal cortex during learning	Hamed Shabani (2), Hannah Muysers(1,3), Jonas-Frederic Sauer(3), Marlene Bartos(2,3), Christian Leibold(1,2)
T25-8A	The antler brain region of <i>Drosophila</i> – Morphological classification of innervating neurons and connectome analysis	Jens Goldammer (1,2), Kei Ito(1,2)
T25-9A	Attack based identification of most informative patterns in fMRI visual stimuli classification.	Markos Athanasiadis (1), Svenja Brodt(2), Svenja Klinkowski(2), Steffen Gais(2), Christian Leibold(1,3)
T25-10A	Automated, unsupervised training and testing for non-human primates on visuo-acoustic tasks	Jorge Cabrera-Moreno (1,2,3,4), Lena Jeanson(1,5), Jonas Grunenberg(1), Antonino Calapai(1,3,5,6), Marcus Jeschke(1,3,4,6)
T25-11A	Can short-term plasticity form anisotropic connectivity?	Arash Golmohammadi (1), Christian Tetzlaff(1)
T25-12A	Capturing dynamics of inhibitory synaptic connectivity underlying learning using in vivo two-photon optical imaging of hippocampal CA1	Hannah Klimmt (1,2), Alessandro Ulivi(1), Rosa Huettl(2), Stefanos Somatakis(2), Alessio Attardo(1)
T25-13A	Central modulation in reward processing	Ulrike Sophie Franke (1), Samantha Aurich(1), Andreas Stephan Thum(2), Robert Johannes Kittel(1), Dennis Pauls(1)
T25-14A	Choosing memory retrieval strategies: a critical role for inhibition in the dentate gyrus	Alice Weiglein (1), Iris Müller(2,3,4), Gürsel Caliskan(2,3), Oliver Stork(2,3), Anne Albrecht(1,3)
T25-15A	Coding differences for small and large numerosities in human single neurons	Esther Friederice Kurz (1,2), Gert Dehnen(1), Valeri Borger(3), Rainer Surges(1), Florian Mormann(1), Andreas Nieder(2)
T25-16A	Constructing auditory space: modulation of the spatial map by auditory cues and landmarks	Andrey Sobolev (1), Anton Sirota(1), Michael Pecka(1)
T25-17A	Dissecting the function of different Dunce isoforms in <i>Drosophila melanogaster</i>	Timo Hasselmann (1), Marie Müller(1), Marcel Verbrüggen(1), Magdalena Gompert(1), Victoria Brüning(1), Henrike Scholz(1)
T25-18A	Dissecting the function of the PDE4D orthologue Dunce in olfactory learning and memory in the adult <i>Drosophila melanogaster</i>	Duran Emre Kanaci (1), Henrike Scholz(1)
T25-19A	Projection-specific conjunctive coding of space, velocity, and appetitive behaviours by dorsal hippocampus	Oliver Barnstedt (1), Petra Mocellin(1), Stefan Remy(1)
T25-1B	Dissection of neuronal circuits underlying aversive olfactory second-order conditioning	El Yazid Rachad (1), André Fiala(1)
T25-2B	Dopamine's role as an inhibitor of dopaminergic neurons of the <i>Drosophila</i> mushroom bodies.	Michael-Marcel Heim (1), David Oswald(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T25-3B	Drift and stabilization of hippocampal response selectivity	Alexander Schmidt (1,2,3,4), Fred Wolf(1,2,3), Yasunori Hayashi(4), Kotaro Mizuta(4), Masaaki Sato(5), Julian Vogel(1,2), Bernhard Bandow(1,2)
T25-4B	Effect of internal states on memory consolidation in <i>Drosophila</i>	Sridhar rajan Jagannathan (1), Davide Raccuglia(1), David Oswald(1)
T25-5B	Effect of NPSR1 deficiency on T-maze and Barnes maze learning	Ahmet Oguzhan Bicakci (1,2,3), Evelyn Kahl(2), Malgorzata Kolodziejczyk(2), Luibov Kalinicheno(4), Markus Fendt(2,5)
T25-6B	Effects of pyrethroids on honey bee olfactory perception, learning and processing	Loïc Colin-Duchevet (1), Clémentine Hatton(1), Antoine Couto(2), Claude Collet(3), Pierre Charne(4), Jean-Christophe Sandoz(1)
T25-7B	In-vivo imaging of cAMP dynamics: Subcellular compartmentalization underlying learning and memory	Stephan Hubertus Deimel (1), André Fiala(1)
T25-8B	Evaluation of six new Octopamine Trojan Exon mutants	Alexandra Großjohann (1), Ronja Badelt(1), Dennis Pauls(2), Andreas Thum(1)
T25-9B	Eye blink is an excellent measure for spatial learning in human.	Motoharu Takao (1)
T25-10B	Female vocal feedback improves song learning and alters premotor activity in juvenile zebra finches	Linda Bistere (1), Daniela Vallentin(1)
T25-11B	fMRI reveals learning induced changes in auditory-evoked brain activation patterns in the Mongolian gerbil	Annika Michalek (1), Patricia Wenk(1), Nicole Angenstein(1), Eike Budinger(1,2)
T25-12B	From connectomic to behavioural complexity in larval <i>Drosophila</i> ?	Edanur Sen (1), Juliane Thöner(1), Arman Behrad(1), Melissa Comstock(1), Nina Jacob(1), Amira El-Keredy(1,2), Nino Mancini(1), Bertram Gerber(1)
T25-13B	Holistic Bursting Cells as an Auditory Engram	Hongbo Jia (1)
T25-14B	How interneurons shape behavior: The impact of DNA methyltransferase 1 (DNMT1) on inhibitory cortical interneurons of behaving mice	Jenice Reimara Nicola Linde (1,2), Can Bora Yildiz(1,2), Julia Reichard(1,2), Georg Pitschelatow(1,2), Geraldine Zimmer-Bensch(1,2)
T25-15B	Impaired Pattern Completion during Memory Recall in an Adult Mouse Model of Fragile X Syndrome	Caroline Zeitouny (1), Martin Korte(1,2), and Kristin Michaelsen-Preusse(1)
T25-16B	Mechanisms of memory consolidation in <i>Drosophila melanogaster</i>	Tania Fernandez d.V. Alquicira (1), Lisa Scheunemann(1), Desiree Laber(1), David Oswald(1)
T25-17B	Mitochondrial function in dopaminergic neurons influence olfactory learning and memory in <i>Drosophila melanogaster</i>	Michèle Tegtmeier (1), Justin Böcker(1), Anica Biermann(1), Sabrina Peter(1), Melissa Beste(1), Henrike Scholz(1)
T25-18B	Neonatal olfactory processing is necessary for the maturation of limbic-hippocampal network and cognitive development	Yu-Nan Chen (1), Johanna K. Kostka(1), Sebastian H. Bitzenhofer(1), Ileana L. Hanganu-Opatz(1)
T25-19B	Neural circuits that regulate exploratory odor-driven behavior	Giovanni D'Uva (1), Christian Daniel(1), Maria Ioannidou(1), Leticia Batista (1), Carlotta Martelli(1)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T25-1C	Neural correlates of cooperation in freely moving rhesus macaques	Melissa Franch (1), Sudha Yellapantula(2), Anthony Wright(1), Valentin Dragoi(1,2)
T25-2C	Neuromodulator-dependent two-phase synaptic plasticity retroactively controls neural coding in spiking neural networks	Jannik Luboeinski (1,2), Andrew B. Lehr(1,2), Christian Tetzlaff(1,2)
T25-3C	Perception of optogenetic cortex stimulation is modality-specific	Alisa Vlasenko (1), Marcel Brosch(1), Frank W. Ohl(1), Michael T. Lippert(1)
T25-4C	Prediction error drives olfactory learning and conditioned behavior in a spiking model of Drosophila larva	Anna-Maria Jürgensen (1), Panagiotis Sakagiannis(1), Michael Schleyer(2), Bertram Gerber (3,4), Martin Paul Nawrot(1)
T25-5C	ProBDNF Dependence of LTD in the Amygdala of Adult Mice	Susanne Meis (1), Xiaoyun Ma(1), Thomas Endres(1), Thomas Munsch(1), Volkmar Lessmann(1)
T25-6C	Pro-BDNF signaling in the amygdala mediates fear extinction learning	Thomas Endres (1), Harish Vuyyuru(1), Susanne Meis(1), Volkmar Lessmann(1)
T25-7C	moved to T25-19A Projection-specific conjunctive coding of space, velocity, and appetitive behaviours by dorsal hippocampus	Oliver Barnstedt (1), Petra Mocellin(1), Stefan Remy(1)
T25-8C	Rab3 is required for olfactory learning	Aishwarya Aravamudhan (1), Divya Sachidanandan(1), Dennis Pauls(1), Stefan Hallermann(2), Robert J. Kittel(1)
T25-9C	Role of Nogo-A in regulating memory processes and memory engram formation by modulating neuronal excitability	Sebastian Stork (1), Jan Flechtner(1), Jennifer Just(1), Kristin Metzdorf(1,2), Steffen Fricke(1), Martin Korte(1,2), Marta Zagrebelsky(1)
T25-10C	Serotonin antagonistically controls aversive and appetitive memory consolidation in flies	Lisa Scheunemann (1), Clément Hua(3), Beatrice Kaiser(1), Anne Hoffmann(1), Olliver John(1), Thomas Preat(2)
T25-11C	Silencing of HVC interneurons during playbacks alters adult zebra finch song	Fabian Heim (1,2), Ezequiel Mendoza(3), Avani Koparkar(2,4,5), Constance Scharff(3), Daniela Vallentin(1,2)
T25-12C	Social feedback shapes behavioral strategies for courtship in Drosophila	Frederic Alexander Römschied (1,2), Elise C Ireland(1), Adam J Calhoun(1,3), Minseung S Choi(1,4), Osama Ahmed(1,5), Mala Murthy(1)
T25-13C	Synaptic structural homeostatic mechanisms in the hippocampal CA1 region of live mice	Bhargavi Murthy (1), Hannah Klimmt(1), Inna Slutsky(2), Alessio Attardo(1)
T25-14C	Systems neuroscience of navigation in the naturally behaving marmoset monkey	Francesca Lanzarini (1), Farzad Ziaie Nezhad(1), Johanna Weßling(1), Deepak Surendran(1), Jean Laurens(1)
T25-15C	The cellular architecture of memory modules in Drosophila supports stochastic input integration	Rouven Ziegler (1), Omar A. Hafez(2,3), Benjamin Escribano(1), Jan J. Hirtz(5), Ernst Niebur(2,4), Jan Pielage(1)
T25-16C	The virtual magnetic environment: Towards a fast and robust behavioural assay to study magnetoreception in subterranean mole-rats	Georgina Fenton (1), Brittany Hamauei(1), Pascal Malkemper(1)
T25-17C	Toxic effects of neonicotinoids on memory and brain morphology: the fruit fly Drosophila melanogaster as a study case.	Annekathrin Widmann (1), Julia Schulz(2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T25-18C	Understanding rat behavior in a complex task via non-deterministic policies	Johannes Niediek (1), Maciej M. Jankowski(1), Ana Polterovich(1), Alexander Kazakov(1), Israel Nelken(1,2)
T26 - Computational Neuroscience		
T26-1A	A Comprehensive deep learning model for Object and Spatial representations in Hippocampal formation	Azra Aziz (1), Bharat Kailas Patil(1), (), V Srinivasa Chakravarthy(1,2)
T26-2A	A computational model of olfactory processing in the fly antennal lobe using EM data.	Magdalena Anna Springer (1), Lydia Gruber(2), Jürgen Rybak(2), Bill S. Hansson(2), Martin P. Nawrot(1)
T26-3A	Assessing behavioural Symptomology in Drosophila melanogaster	Hannah Jones (1,2), Giorgio Gilestro(2), Jenny Willis(3), Rob Lind(3)
T26-4A	Big Data in microscopy – an AI-assisted biosensor analyses approach	Anna Kling (1), Franziska Müller(1), Evgeni Ponimaskin(1), Andre Zeug(1), Alexander Wirth(1)
T26-5A	Computational modelling of neuron-astrocyte interactions in the NEST simulator	Han-Jia Jiang (1,5), Jugoslava Acimovic(2), Tiina Manninen(2), Jonas Stapmanns(1,3), Mikko Lehtimäki(2), Marja-Leena Linne(2), Markus Diesmann(1,3,4), Sacha J. van Albada(1,5)
T26-6A	Data-driven method to generate single neuron models from spike trains of sensory neurons	Ibrahim Alperen Tunc (1), Svenja Corneliusen(2), Jan Rademacher(2), Peter Kloppenburg(2), Martin Paul Nawrot(1)
T26-7A	Deep learning based 3D-segmentation of dendritic spines recorded with two-photon in vivo imaging	Fabrizio Musacchio (1), Pragya Mishra(1), Pranjal Dhole(2), Shekoufeh Gorgi Zadeh(3), Sophie Crux(1), Felix Nebeling(1), Stefanie Poll(1), Manuel Mittag(1), Falko Fuhrmann(1), Eleonora Ambrad(1), Andrea Baral(1), Julia Steffen(1), Miguel Fernandes(2)
T26-1B	Developmental speed and network stability advantages may favour an ordered organisation of cortical stimulus preference in primates and carnivores	Zoe Rowe Stawyskyj (1,2,3), Michael Sternbach(1,2,3), Fred Wolf(1,2,3,4,5)
T26-2B	Dynamic Gain Analysis of Axon Initial Segment Function in High-Bandwidth Population Encoding	Neil Lewis Wesch (1), Elinor Lazarov(2), Chenfei Zhang(1), Fred Wolf(1,3), Andreas Neef(1,3)
T26-3B	Efficient control of oscillations and synchrony in computational models of neural dynamics	Lena Salfenmoser (1), Klaus Obermayer(1,2)
T26-4B	Identification and Removal of Artifacts in Massively Parallel Recordings	Jonas Oberste-Frielinghaus (1,2), Simon Essink(1,2), Alexander Kleinhohann(1,2), Julia Sprenger(3), Junji Ito(1), Sonja Grün(1,2)
T26-5B	Mesoscopic modelling of large-scale networks of leaky integrate-and-fire neurons	Jan-Eirik Welle Skaar (1), Hans E Plesser(1,2), Gaute T Einevoll(1,3), Kristin Tøndel(1)
T26-6B	Modeling the electrosensory periphery of Eigenmannia virescens	Sarah Mayer (1), Jan Benda(1), Jan Grewe(1)
T26-7B	NEST-SONATA: Fast parallel instantiation of explicitly specified large-scale neuronal network models	Hans Ekkehard Plesser (1,2), Nicolai Haug(1), Håkon Bakke Mørk(1), Stine Brekke Vennemo(1), Susanne Kunkel(1,3), Kael Dai(4), Anton Arkhipov(4)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T26-1C	Neural dynamics underlying human vocalization	Vera A. Voigtländer (1,2,3,4), Florian Sandhaeger(1,2,3,4), Steffen R. Hage(2,5), Markus Siegel(1,2,3), Dawid J. Hawellek(1,2,3,6)
T26-2C	Non-Stationary Recurrent Neural Networks for Reconstructing Computational Dynamics of Rule Learning	Max Ingo Thurm (1), Georgia Koppe(1,4), Eleonora Russo(1,5), Florian Böhner(1,3,4), Daniel Durstewitz(1,2)
T26-3C	Physiologically-inspired neurodynamical model for anorthoscopic perception	Martin A. Giese (1), Anna Bogner(2), Rufin Vogels(2)
T26-4C	Rats adapt optimally to changes in reinforcement probabilities, stimulus presentation probabilities and discrimination difficulty in a perceptual decision making task	Luis de la Cuesta Ferrer (1), Christina Koß(2), Andrea Dietl(1), Frank Jäkel(2), Maik C. Stüttgen(1)
T26-5C	Relating the orientation of cortical traveling waves and co-occurring spike patterns	Sven Krauße (1,2), Robin Gutzen(1,2), Alessandra Stella(1), Thomas Brochier(3), Alexa Riehle(3,1), Sonja Grün(1,2), Michael Denker(1)
T26-6C	Robustness of a self-regulating neuronal network model in response to mutated ion channels	Philippa Hennessey (1), Jan Benda(1,2), Lukas Sonnenberg(1)
T26-7C	Spontaneous Initiation of Spreading Depression in a Heterogeneous Network	Allison Harris (1), Wolfgang Stein(2)
T27 - Techniques and Demonstrations		
T27-1A	A flexible and versatile system for multi-color fiber photometry and optogenetic manipulation	Andrey Formozov (1,2), Alexander Dieter(1,2), Simon Wiegert(1,2)
T27-2A	A web portal facilitating FAIRification of research data in neuroscience	Robert Kossen (1), Luca Freckmann(1), Christian Henke(1), Linus Weber(1), Ulrich Sax(1), Sara Y. Nussbeck(1,2), Harald Kusch(1,3)
T27-3A	Acousto-optic voltage imaging in awake mice with JEDI-2P	Denes Palfi (1), Balazs Chiovini(1), Viktoria Kiss(1), Zsolt Mezriczky(1), Anna Mihaly(1), Katalin Ocsai(1), Balazs J. Rozsa(1)
T27-4A	Automated Patch Clamp and CryoEM Team up for Mode of Action Elucidation of Two D. melanogaster Slo Modulators	Andreas Brockmann (1)
T27-5A	Bayesian Oracle for bounding information gain in neural encoding models	Konstantin-Klemens Lurz (1), Mohammad Bashiri(1), Fabian Sinz(2)
T27-6A	Channelrhodopsin library screening by automated planar patch-clamp recordings facilitates the development of the future optical cochlear implant	Alexey Alekseev (1,2), Maria Zerche(1,2,3), Tobias Moser(1,4,5,6), Thomas Mager(1,2,4)
T27-7A	Characterization of mouse enteroendocrine cell subtypes	Matea Krizman (1), Benjamin H. Cooper(1,3), Cordelia Imig(2,3)
T27-8A	Development of an optogenetic dimerization tool to control mitochondrial movement	Juliana Groß (1), Dr. Olivia A. Masseck(1)
T27-1B	Dissecting local changes in the coding and non-coding neuronal transcriptome revealed by subcellular transcriptomics	Jennifer Heck (1,2), Valeriy Pak(1), Aliaksandr Halavatyi(3), Arif Ul Maula Khan(3), Kyung-Min Noh(2), Sinem K. Saka(1)
T27-2B	Dual color imaging in freely-behaving rodents using head-mountable one photon miniscope	Norbert Hogrefe (1), Srishti Gulati(2), Kevin Zitelli(2), Douglas Ollerenshaw(2), Alice Stamatakis(2)

Poster Contributions: 15th Göttingen Meeting, 22 - 24 March 2023

T27-3B	Effects of 24h of 2g-hypergravity on mouse blood brain barrier	David Dubayle (1), Jean-Luc Morel(2)
T27-4B	EthoLoop: Tracking and controlling animal behaviour in naturalistic environments	Daniel Huber (1), Ali Nourizonos(1)
T27-5B	Evaluation of the circadian expression of orexin receptors in the mouse brain by RNAscope®	Gina Marie Krause (1), Anne Albrecht(1,2)
T27-6B	Focal activation of the adenosine A1 receptor in the brain through photopharmacology in vivo; a Proof of Concept	Jeroen Spanoghe (1), Lars Emil Larsen(1), Erine Craey(1), Simona Manzella(1), Kristl Vonck(1), Serge Van Calenbergh(2), Paul Boon(1), Robrecht Raedt(1)
T27-7B	GEXSCOPE: High throughput single cell solutions for transcriptomic analysis	Harlin Jhyont (1)
T27-8B	Imaging metabolic dynamics of neural cells by label-free wide-field FLIM	Werner Zuschratter (1), André Weber(1), Rodrigo Herrera-Molina(1,6), Ezgi Altun(1), Andrea Wetzel(7), Arthur Bikbaev(5), Alejandro Luarte(2,3,4)
T27-1C	Improving the efficiency of TEV protease for the genetic disruption of proteins and neural circuits in Drosophila	Jonas Peper (1), Burak Gür(1), Marion Silies(1)
T27-2C	Inferring network connectivity using modified Reservoir Computing	Pablo Rojas (1), Marie Kempkes(1), Martin E. Garcia(1)
T27-3C	Intracellular in vivo recording in the Mauthner neuron efficiently reveals effects of substance exposure on the mature vertebrate brain.	Peter Machnik (1), Elisabeth Schirmer(1), Benedikt Maric(1), Stefan Schuster(1)
T27-4C	PinkyCaMP: A Novel Red Shifted Genetically Encoded Calcium Indicator with mScarlet	Ryan Fink (1), Jana Ottens(2), Martin Kubitschke(1), Olivia Masseck(1)
T27-5C	PyView: A general purpose tool for analyzing calcium imaging data	C Giovanni Galizia (1), Georg Raiser(2), Ajayrama Kumaraswamy(1)
T27-6C	Targeting Noradrenergic Neurons of the Locus Coeruleus: A Comparison of Model Systems and Strategies	Chantal Wissing (1,4), Alexander Dieter(1,2), Maxime Maheu(1,3), Simon J. Wiegert(1,2)
T27-7C	The big, the fast and the blue: towards the optimal channelrhodopsin for the future optical cochlear implant	Aida Garrido Charles (1,2,3), Theocharis Alvanos(2,4,5), Kathrin Kusch(2,6), Tobias Moser(2,3,7), Thomas Mager(1,2,3)
T27-8C	The Influence of Aldehyde Fixatives on Membrane Roughness as determined by Scanning Ion Conductance Microscopy	Marius Strachowitz (1), Dilan Yildiz(1), Heiko M. Lesslich(1), Irmgard D. Dietzel(2), Annika Haak(1)
T27-9C	Unusual electric properties in the skin of electric catfish.	Susanne Proschke (1), Georg Welzel(1), Stefan Schuster(1)