

Explanation of Abstract Numbers

There are two poster sessions on each day, i.e. on Wednesday, Thursday, Friday and Saturday. The posters will hang all day long. Posters with poster numbers ending with an A are displayed on Wednesday, posters with a poster number ending with a B are displayed on Thursday, posters with a poster number ending with a C are displayed on Friday and posters with a poster number ending with a D are displayed on Saturday.

Each poster session (90 min) is divided into two parts (each 45 min): odd and even serial numbers. In the first part of the session posters with *odd* serial numbers will be discussed. In the second 45 min of the session posters with *even* serial numbers will be discussed. During this time slots it is mandatory that the author is present at the poster.

Example

T21-2B

T = poster to a poster topic

21 = the poster topic is No. 21, i.e. Motor Systems

2 = serial number (even number, i.e. 45 min of the second part of the session)

B = indicates the day, i.e. Thursday

This means: poster T21-2B is a poster belonging to the topic "Motor Systems" and is presented on Thursday, March 27, 2025, 09:45 -10:30 h and 17:15 -18:00 h in the poster area 21.

Poster sessions

Poster session A: Wednesday, March 26 13.00 - 14.30 and 16.30 - 18.00

Poster session B: Thursday, March 27 09.00 - 10.30 and 16.30 - 18.00

Poster session C: Friday, March 28 10.00 - 11.30 and 16.30 - 18.00

Poster session D: Saturday, March 29 10.00 - 11.30 and 13.30 - 15.00

Poster Topics

- T1 Stem cells, Neurogenesis and Gliogenesis
- T2 Axon and Dendrite Development, Synaptogenesis
- T3 Developmental Cell Death, Regeneration and Transplantation
- T4 Neurotransmitters, Retrograde messengers and Cytokines
- T5 G Protein-linked and other Receptors
- T6 Ligand-gated, Voltage-dependent Ion Channels, and Transporters
- T7 Synaptic Transmission, Pre- and Postsynaptic organization
- T8 Synaptic Plasticity, LTP, LTD
- T9 Glia, Glia-Neuron Interactions
- T10 Aging and Developmental Disorders
- T11 Alzheimer's, Parkinson's and other Neurodegenerative Diseases
- T12 Neuroimmunology, Inflammation, and Neuroprotection
- T13 Cognitive, Emotional, Behavioral State Disorders and Addiction
- T14 Vision: Invertebrates
- T15 Vision: Retina and Subcortical Pathways
- T16 Vision: Striate and Extrastriate Cortex, Eye Movement and Visuomotor Processing
- T17 Auditory Mechanoreceptors, Vestibular, Cochlea, Lateral Line and Active Sensing
- T18 Auditory System: Subcortical and Cortical Processing
- T19 Chemical Senses: Olfaction, Taste, Others
- T20 Somatosensation: Touch, Temperature, Proprioception, Nociception
- T21 Motor Systems
- T22 Homeostatic and Neuroendocrine Systems, Stress Response
- T23 Neural Networks and Rhythm Generators
- T24 Attention, Motivation, Emotion and Cognition
- T25 Learning and Memory
- T26 Computational Neuroscience
- T27 Techniques and Demonstrations
- T28 Late Poster

LATE Poster Contributions: 16th Göttingen Meeting, 26 - 29 March 2025

Poster No.	Title of the Poster	Author(s)
T28 – Late Poster		
T28-1A	Endogenous tagging of Munc13-1 with a SNAP tag as a tool for monitoring synapse nanoarchitecture	Maria Kowald, Sylvestre P. J. T. Bachollet, Fritz Benseler, Maria Steinecker, Moritz Boll, Sofia Kaushik, Tolga Soykan, Siqi Sun, Ramona Birke, Dragana Ilic, Nils Brose, Hanna Hörnberg, Martin Lehmann, Silvio O. Rizzoli, Johannes Broichhagen, Noa Lipstein
T28-2A	The Effect of Dysbiosis on Neuronal Morphology of Medial Entorhinal Cortical Ocean and Island Cells	Reem Almazrouei, Rasha Alkamali, Mahra Alsulaimi, Mohammed M. Nakhal, Omar Aleissae, Abdulrahman Alzaabi, Mohamed Alfahim, Hamad Almansoori, Ayishal B. Mydeen, Shamsa BaniYas, Shaikha Al Houqani, Mohammad I.K. Hamad
T28-3A	CRF Signaling in the Lateral Septum: Regulating Social Fear Extinction	Atefeh Akbari, Inga Neumann, Rohit Menon
T28-4A	Role of oxytocin in behavioural prioritization: examining competing social and food needs in mice	Virginie Rappeneau, Niranjana Biju, Anna Valdivia-Schoss, Vanessa Hiseni, Inga D. Neumann
T28-5A	Unconventional roles of Opsins	Tejaswini Manoj Kumar, Martin Göpfert, Anant K. Menon
T28-6A	Fluid-based extracellular vesicles and neurodegenerative diseases	Abrar Younas, Neelam Younas, Inga Zerr
T28-7A	Oscillatory Phase Alignment in Auditory Perception	H. Al-Turany, J.C. Hechavarria, Y. Cabral-Calderin
T28-8A	Oxytocin receptor signaling within LS regulates social valence in male mice	Rohit Menon, Theresa Schaefer, Francisco de los Santos Laura Stangl, Tatiana Korotkova, Inga D. Neumann
T28-9A	Charting the nanoarchitecture of inner hair cell synapses using MINFLUX nanoscopy	Rohan Kapoor, Hyojin Kim, Evelyn Garlick, Maria Augusta R.B.F. Lima, Torben Ruhwedel, Wiebke Möbius, Fred Wolf, Tobias Moser
T28-10A	Input and Output Connectivity Matrix of Chx10 Pedunclopontine Neurons Involved in Global Motor Arrest	Stephan Dietrich, Jonas Emdal Arba, Roberto Leiras, Ole Kiehn
T28-11A	Long-term potentiation of excitatory synapses on layer 2/3 VIP-INs in the mouse somatosensory cortex is dependent on mGluR-1 activation	K. Bogaj, J. Urban-Ciecko
T28-12A	Activating projection neurons from the mediodorsal thalamus to the medial prefrontal cortex can improve working memory	Bastiaan van der Veen, Serena Deiana, Benjamin Strobel, Carsten T. Wotjak, Roberto Arban, Wiebke Nissen, Johann du Hofmann
T28-13A	State-related neural dynamics in the visual thalamus of freely moving mice	B. Mert, E.S.P. Leonard, L. Niv, D.A. McCormick, C.M. Niell, D.B. Nestvogel
T28-14A	Frequency- and layer-specific effects of high-frequency STN stimulation on mouse motor cortical areas in vivo	Svenja Kreis, Gabriel Gonzalez-Escamilla, Daniela Mirzac, Muthuraman Muthuraman, Heiko J. Luhmann, Sergiu Groppa

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T28-15A	Social motivation overrides conditioned fear via the VTA-to-NAc pathway	F. Castillo Díaz, S. Schmid, I.D. Neumann
T28-16A	Pathological brain oscillations are linked to neuroinflammation as revealed by scRNA-seq in Parkinson's disease	Daniela Mirzac, Martin B. Glaser, Svenja L. Kreis, Florian Ringel, Manuel Bange, Damian M. Herz, Stanislav Groppa, Dumitru Ciolac, Lilia Rotaru, Viviane Almeida, Jenny Blech, Mohammadsaleh Oshaghi, Jonas Paulsen, Sebastian Kunz, Matthias Klein, Heiko J. Luhmann, Tobias Bopp, Philip L. De Jager, Sergiu Groppa, Gabriel Gonzalez-Escamilla
T28-1B	Gradual reduction of Munc13-1 levels after synaptogenesis	Moritz Boll, Dragana Ilic, Sofia Kaushik, Fritz Benseker, Nils Brose, Holger Taschenberger, Noa Lipstein
T28-2B	Neuronal Entrainment to Ecologically Relevant Rhythms in the Auditory Cortex of Frugivorous Bats	L. Demange-Hamel, S. Babl, J. Hechavarría
T28-3B	Exploring Basal Ganglia and Cerebellar Interactions in Parkinson's Disease and Levodopa-induced Dyskinesia	Nesrine Melliti, Lars Tatenhorst, Irina Graf, Christoph Van Riesen
T28-4B	Neural correlates of cardio-behavioral defensive states in the prefrontal cortex.	César Redondo Alañón, Jérémy Signoret-Genest, Philip Tovote
T28-5B	Pianp controls GABAB receptor sorting via its sushi-domain in cerebellar Purkinje cells to regulate dendritogenesis, postnatal synaptic development and Autism-like behaviour	Robert Luck, Catalina Rivera-Krstulovic, Dimitri Kasakowski, Simon Früh, Claudia Pitzer, Christof Dormann, Manuel Winkler, Maria Riedel, Carmen Ruiz de Almodóvar, Bernhard Bettler, Cyrill Géraud
T28-6B	Divergent Pathways in Parkinson's: Unraveling the Dual Roles of Dopaminergic and Noradrenergic Degeneration	Hanna Vila-Merkle, Alexia Lantheaume, Nina Schöneberg, Silvia Rodriguez-Rozada, Michael Schellenberger, Konstantin Kobel, Kilian Katzenberger, Philip Tovote
T28-7B	Hypothalamic Taupathology is Linked to Weight Loss and Disturbance in Thermoregulation and Sleep	J. Gentz, Dr. P. Feyen, T. Niedermeier, Dr. G. Mitteregger, Prof. Dr. J. Herms, Dr. L. Paeger
T28-8B	TRPM8-dependent and independent mechanisms drive cold sensory processing in naked mole-rats	Lin Wang, Valérie Bégay, Felix Viana, Gary R. Lewin
T28-9B	Long-term, high-resolution telemetry monitoring of circadian rhythmicity of temperature and activity in socially housed mice.	Marco Boscaro, Troy Velie, Justin Van Hee, Kathryn Nichols, Kimberly White, Mike Hoover, Julio Alvarez
T28-10B	Stochastic model for the optimal fusion of social and sensory information in transparent interactions	Selma Kouaiche, Fred Wolf
T28-11B	Syntalos: A software for precise synchronization of simultaneous multimodal data acquisition and closed-loop interventions	Matthias Klumpp, Lee Embray, Filippo Heimbürg, Ana Luiza Alves Dias, Justus Simon, Alexander Groh, Andreas Draguhn, Martin Both
T28-12B	Neuronal Architecture and Connectome of the Clamp Region in the Adult <i>Drosophila</i> Brain	Jonas M. Klussmann, Jiajun Zhang, Massimo Thiel, Kei Ito
T28-13B	Somatospiny Neurons of the Lateral Septum	Erich Weisheim, Daniela Hacker, Michaela Schweitzer, Michael Brecht, Marina Mikhaylova

LATE Poster Contributions: 16th Göttingen Meeting, 26 - 29 March 2025

T28-14B	Impact of nutrition and physical activity on brain structure and metabolism	Heiko Backes, Anne Ladwig, Anna Lena Cremer, Michael Schroeter
T28-15B	ARHGAP11A Maintains Cortical Progenitor Identity Through RHOA–ROCK Signalling During Human Brain Development	Y. Hass, J. Kniep, A. Hoffrichter, F. Marsoner, N. Eşiyok, M. Gasparotto, M. Pio Loco detto Gava, S. G. Meuth, W. B. Huttner, A. Jabali, M. Heide, J. Ladewig
T28-16B	The role of pacemaker channels on sleeping behavior and neuronal activity in the sleep regulatory circuit of <i>Drosophila melanogaster</i>	T. Janjalashvili, A. Ender, D. Oswald
T28-1C	Enhancing recovery after traumatic brain injury by pharmacological modulation of the PTEN/AKT pathway	Anne-Sophie Gutt, Prof. Dr. rer. nat. Bernd Knöll
T28-2C	Shedding Light on Object Location Recall: Optogenetic Priming of the HIP-mPFC Pathway for Object-Location Memory	Julia Buescher, Nina Wegner, Guilherme M. Gomes, Hassan Hosseini, Cristian G. Cabrera, Magdalena Sauvage, Matthias Prigge
T28-3C	Mapping of Action Selection Circuits from Sensory Input to Descending Neurons	Kun Wang, Lalanti Venkatasubramanian (co-author), Peter Hague, Benjamin D. Pedigo, Chloé Barré, Michael Clayton, David Nguyen, Nan Hu, Marta Zlatic
T28-4C	Cortical dynamics of global and local processing in congenitally deaf mice	Adrian Armstrong, Andrej Kral, Rüdiger Land
T28-5C	Single-neuronal representation of semantic space in animals and humans	Raymundo Báez-Mendoza, Mohsen Jamali, Irene Caprara, Benjamin Mash, Raymundo Báez-Mendoza, Ziv M. Williams
T28-6C	HDAC Inhibition and Acetylation-Driven Disulfide-Linked Aggregation of TDP43: Implications for TDP43 Proteinopathies	Sungsu Lim, Nataliia Lukianenko, Yun Kyung Kim
T28-7C	Neuronal basis for conformity and individual bias in a prefrontal circuit	C. Tyler Short, Firas Bounni, Benjamin Sanders, William S. Li, Renee Cauchon, Ziv M. Williams, Raymundo Báez-Mendoza
T28-8C	Analyzing mutation-induced phenotypes using multi-modal microscopy and graph theory	Hongwei Zheng, Helia Saber, Aleksander Stojic, Sascha Lessle, Maja Klevanski, Thomas Kuner, Christoph Körber
T28-9C	Reward sensitivity over the follicular phase: study protocol	Charlotte Kroll, Hannah Klusmann, Arno Riedl, Conny Quaedflieg, Dennis Hernaus
T28-10C	The role of the Munc13-1 C1 domain in the regulation of SV priming and short-term plasticity at a large glutamatergic synapse of the mammalian brainstem	Mrinalini Ranjan, Kun-Han Lin, Noa Lipstein, Sonja M Wojcik, Erwin Neher, Nils Brose, Holger Taschenberger
T28-11C	Phosphatidylinositol 3-phosphate metabolism affects cellular α -Synuclein localization in <i>Saccharomyces cerevisiae</i>	T. Löser, C. Behl, J. Schepers
T28-12C	Characterizing ACROBiosystems Human iPSC-Derived Cerebral Organoids Using the BioCAM Duplex and CorePlate™ 38/60	Elisa Monz, Ivan Verduci, Phillip Wright, Alessandro Maccione, Idil Arioiz
T28-13C	Development of a 2d protocol for PSC-derived bRG cell generation enables mechanistic studies of bRG cell behavior in vitro	Annasara Artioli, Andrea Rossetti, Anne Hoffrichter, Matteo Gasparotto, Yannick Hass, Ryszard

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		Wimmer, Fabio Marsoner, Alexandre D. Baffet, Philipp Koch, Ammar Jabali, Julia Ladewig
T28-14C	Innovations in Ultrafast Lasers for Nonlinear Microscopy	L. Graham, M. Butkus, M. Eisele, A. Wehling
T28-15C	Nuclear envelope and splicing alterations in selected muscular dystrophies	Peter Meinke, Vanessa Todorow, Stefan Hintze, Benedikt Schoser
T28-1D	Iontronic micropipettes for precise and dynamic ionic modulation of neuronal and astrocytic activity	Theresia Arbring Sjöström, Anton I. Ivanov, Nariman Kiani, Iwona Bernacka-Wojcik, Jennifer Samuelsson, Helena Saarela Unemo, Dionysios Xydias, Lida-Evmorfia Vagiakid, Sotiris Psilodimitrakopoulos, Ioannis Konidakis, Kyriaki Sidiropoulou, Emmanuel Stratakis, Magnus Berggren, Christophe Bernard, Daniel T. Simon
T28-2D	Evolution of spatial representations in the hippocampus during a learning paradigm	Stefan Adrian Vintila, Matthias Klumpp, Justus Simon, Andreas Draguhn, Martin Both
T28-3D	Paradoxical excess dopamine upon locus coeruleus axon loss in the hippocampus drives cognitive impairment in LBD	Nicolas Landgraf, Weilin Chen, Theresa Niedermeier, Paul Feyen, Thomas Köglspurger, Lars Paeger, Jochen Herms
T28-4D	Minis Search: A novel method for minis analysis with a streamlined workflow, simplified process, and accurate measurement	Dr. Jeffrey Tang, Dr. Sonia Cavaliere
T28-5D	Metabolic energy brain deprivation alters neuronal morphophysiology of <i>Drosophila</i> adult nervous system	Andrés Köhler-Solis, Unmi Deshpande, Anna-Theresa Viol, Konrad Wilms, Stefanie Schirmeier
T28-6D	Pallidal Deep Brain Stimulation Restores Cerebellar Cortical Activity in a Dystonic Animal Model	F. Santana-Kragelund, K. Spiliotis, M. Heerdegen, Tina Sellmann, H. Bathel, A. Lüttig, A. Richter, Jens Starke, R. Köhling, D. Franz
T28-7D	Organoid assembloids reveal serotonergic regulation of human cortical development	Raquel Pérez Fernández, Marco T. Siekmann, Martin Kubitschke, Lutz Wallhorn, Ammar Jabali, Anne Hoffrichter, Sven G. Meuth, Philipp Koch, Olivia Andrea Masseck, Julia Ladewig
T28-8D	Context-dependent interareal synchronization across mouse visual cortex	C. Ramanathan, D. Eriksson, J. Veit
T28-9D	Investigating Cortico-Cortical Communication in Awake Mice Using Linear Deconvolution and Canonical Correlation Analysis	Rohit Shankar, David Eriksson, Chockalingam Ramanathan, Julia Veit
T28-10D	A hypothalamic circuit for anticipating future changes in energy balance.	E. D. Lowenstein, S. J. Walker, A. M. Douglass, J. C. Madara, J. M. Resch, J. Tao, B. Lowell
T28-11D	Subanesthetic ketamine restores juvenile ocular dominance plasticity in adult mouse primary visual cortex	Zahraa Karnib, Yu-zhang Liu, Oliver M. Schlüter, and Siegrid Löwel
T28-12D	Widespread temporal niche partitioning in an adaptive radiation of cichlid fishes	A. L. A. Nichols, M. E. R. Shafer, A. Indermau, A. Rüegg, R. Gonzalez-Dominguez, M. Malinsky, C. Sommer-Trembo, L. Fritschi, A. Mesich, A. Abdalla-Wyse, W. Salzburger, A. F. Schier

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T28-13D	Chronic neuropathic pain induces neuronal loss in the secondary motor cortex after spared nerve injury	Amrita Das Gupta, Johannes Knabbe, Hongwei Zheng, Jennifer John, Gan Zheng, Sanjeev Kaushalya, Rohini Kuner, Thomas Kuner
T28-14D	Dynamic Reorganization and Stabilization of Infralimbic Cortex Neuronal Ensembles During Reward-Seeking Behavior in Rats	Avi Adlakha, Ivo Sonntag, Simone Pfarr, Janet Barroso-Flores, Wolfgang H. Sommer, Thomas Kuner
T28-15D	The sight and scent crosstalk - bimodal sensory processing and learning in Drosophila	Devasena Thiagarajan, Veit Grabe, Bill Hansson, Silke Sachse