

List of posters

Cognition	
1	The role of the dorsal and ventral hippocampal subregions and their impact on the medial prefrontal cortex in spatial working memory Susanne S. Babl, Torfi Sigurdsson
2	Previous and Current Action Targets Held in Working Memory Determine Repulsive and Attractive Serial Dependence Fischer, Cora; Fohs, Sebastian; Kaiser, Jochen; Bledowski, Christoph
3	Behavioral entrainment to rhythmic auditory stimulation can be modulated by tACS depending on the electrical stimulation field properties Yuranny Cabral-Calderin, Daniela van Hinsberg, Axel Tielscher, Molly J. Henry
4	Distraction prevents decoding of auditory working memory contents Philipp Deutsch, Stefan Czoschke, Cora Fischer, Jochen Kaiser, Christoph Bledowski
5	Neural signatures of serial dependence emerge during cued selection in working memory Cora Fischer, Jochen Kaiser & Christoph Bledowski
6	State-dependent effective connectivity in the speech production network – an MEG study Johannes Gehrig, Anna Oliynyk and Christian A. Kell
7	Auditory objects in working memory include task-relevant and -irrelevant features Nolting, C., Fischer, C., Schneider, F., Bledowski, C. & Kaiser, J.
8	Functional architecture of dopamine neurons driving fear extinction learning Ximena I. Salinas-Hernández, Daphne Zafiri, Torfi Sigurdsson and Sevil Duvarci
Computational Neuroscience	
9	Optimising local dendritic diameters Alexander Bird, Peter Jedlicka, Hermann Cuntz
10	The nature-nurture transform underlying the emergence of reliable cortical representations Sigrid Trägenap, David E. Whitney, David Fitzpatrick, Matthias Kaschube
11	Time to Augment Self-Supervised Visual Representation Learning Arthur Aubret, Markus R. Ernst, Céline Teulière, Jochen Triesch
12	Automated large-scale analysis of spine dynamics during diazepam treatment Pamela Osuna-Vargas, Altuğ Kamacioglu, Fabian Vogel, Sercan Alipek, Bastian Eppler, Dominik Aschauer, Jochen Triesch, Simon Rumpel, Matthias Kaschube
13	Environmental temporal statistics in parietal dynamics Matthias Grabenhorst, David Poeppel, Laurence T. Maloney, Georgios Michalareas
14	A biologically inspired repair mechanism for neuronal reconstructions with a focus on human dendrites Moritz Groden, Hannah M. Moessinger, Barbara Schaffran, Javier DeFelipe, Ruth Benavides-Piccione, Hermann Cuntz, Peter Jedlicka
15	Multi-scale modeling of location- and frequency-dependent synaptic plasticity induced by transcranial magnetic stimulation in the dendrites of pyramidal cells Nicholas Hananeia, Christian Ebner, Christos Galanis, Alexander Opitz, Andreas Vlachos, Peter Jedlicka
16	The Power of ML-based molecular burden scores: Predicting treatment outcome based on the genetic variation of underlying mechanisms Simeon Platte, Afsheen Kumar, RAISE-GENIC Consortium, Andreas G. Chiochetti

List of posters

17	Privacy preserving joint analysis of multi-site clinical data in Child Psychiatry: a DataSHIELD prototype study Dr. Afsheen Kumar, Prof. Dr. Andreas Geburtig-Chiocchetti, Simeon Platte, CoverCHILD consortium
18	Modelling suggests biophysics of dentate granule cells are Pareto optimal for the simultaneous maximization of energy efficiency and pattern separation Martin Mittag, Alexander Bird, Hermann Cuntz, Peter Jedlicka
19	Uncertainty-oriented active sampling for motor learning results in unconscious confirmatory motor behavior Johannes Kasper, Christian A. Kell, Alexander Bird
20	A neuron model with unbalanced synaptic weights explains the asymmetric effects of anaesthesia on the auditory cortex Luciana López-Jury, Francisco García-Rosales, Eugenia González-Palomares, Johannes Wetekam, Michael Pasek, Julio C. Hechavarria
21	Molecular diversity and evolution of neuron types in the amniote brain Hain, D., Gallego-Flores, T., Klinkmann, M., Macias, A., Ciirdaeva, E., Arends, A., Thum, C., Tushev, G., Kretschmer, F., Tosches, M. A. and Laurent, G.
Development	
22	Neurodevelopmental, dose-, and sex-dependent alterations of the synaptic proteome and psychiatrically relevant endophenotypes follow prenatal immune challenge Anna Y. Yotova, Li-Li Li, Aet O'Leary, Andreas Reif, Michael J. Courtney, Florian Freudenberger, David A. Slattery
23	Multi-omics analysis of PBX1 transcriptional interactions in adult neural stem-/ progenitor cells Vera Laub, Jonathan Schupp, Stefan Günther, Ian Donaldson, Leona Martin, Julian Langer, Karl-Heinz Plate, Nicoletta Bobola, Dorothea Schulte
23A	Neurovascular dynamics of <i>flrt2</i> in zebrafish development Euler Lukas, Kassel L., Eschmann P., van Impel A., Schulte-Merker S., Kirchmaier B. C., Acker-Palmer A.
23B	Cell-specific VEGF signaling during hippocampal development and plasticity Maximilian K. Kracht, Middeke M. M., Ho N., Harde E., Nicholson L., Segarra M., Acker-Palmer A.
23C	Vascular WNT5A orchestrates cerebellar neuronal architecture and circuitry Marta Parilla, Hülse R., D'Errico A., Alivodej N., Jin J., Aburto M.R., Segarra M., Acker-Palmer A.
23D	Endothelial FLRT2 signalling supports Purkinje cells' development Johanna Vogenstahl, Jing Jin, Amparo Acker-Palmer
Diseases of the nervous system	
24	Pupil Dilation Indicates Atypical Physiological Reactivity to Facial Expressions During Orienting and Cognitive Processing in ASD Leonie Polzer, Naisan Raji, Solvejg Kleber, Christian Lemler, Janina Kitzerow, Ziyon Kim, Christine M. Freitag, Nico Bast
25	Regulation of brain endothelial barrier properties by hormonal cues in health and disease Ilyas Nurlygaianov, Daniel Spitzer, Sylvaine Guérit, Sonja Thom, Ian Simpson, Kavi Devraj, Stefan Liebner
26	Validation of the essential role of the 16p11.2 ASD candidate gene QPRT in stem cell-derived iNeurons and cerebral organoids Denise Haslinger, Clara Dröll, Jannis Oetken, Marcel Müller, Silvia Lindlar, Christoph Dotter, Christine M. Freitag, Gaia Novarino, Andreas G. Chiocchetti
27	Regulation of the Neurovascular Unit in Mesial Temporal Lobe Epilepsy Elif Fidan, Felix Bader, Kai Siebenbrodt, Patrick Harter, Stefan Günther, Thomas Freiman, Jürgen Konczalla, Karl H. Plate, Felix Rosenow, Kavi Devraj, Stefan Liebner

List of posters

28	<p>Modeling Tumor initiation and Progression of IDH-mutant glioma using CRISPR-Cas9-based genome editing in hiPSCs.</p> <p>Aasha Adhikari, Devanshi Khanna, Barbara Klink, Joachim P Steinbach, Tanja Müller, Ann-Christin Hau</p>
29	<p>Closed-loop gait improvement in Parkinson's Disease</p> <p>Paul Kirsch, Miriam A. Helbig, Simon Baudrexel, Christian A. Kell</p>
30	<p>Elucidating the progression of vascular amyloidosis in vivo and ex vivo</p> <p>Eloah dos Santos De Biasi, Michael Candlish, Peter R. Nillson, Ralf Brandes, Angelos Skodras, Mathias Jucker, Jasmin K. Hefendehl</p>
31	<p>Microglia drive accelerated amyloid plaque accumulation in peri-infarct tissue after stroke</p> <p>Michael Candlish* , Jan Hofmann* , Murphy DeMeglio, Eloah dos Santos De Biasi, Desirée Brösamle, Angelos Skodras, Stefan Günther, Peter R. Nilsson, Marc Beyer, Andreas Geburtig-Chiocchetti, Jonas J. Neher, Jasmin K. Hefendehl</p>
32	<p>Understanding and manipulating clearance mechanisms of amyloid beta in a murine model of Alzheimer's Disease</p> <p>Peter Breunig^{1,2} ,Christina Sauerland ^{1,2},Michael Candlish ^{1,2} , R. Wilder Scott ^{3,4}, Lin Wei Tung ³, Varsha Venkatesha Murthy^{5,6}, Blerina Aliraj⁷, Andreas Weigert ⁷, Jasmin K. Hefendehl ^{1,2}</p>
33	<p>Soluble epoxide hydrolase upregulation in Alzheimer's disease promotes blood-brain barrier dysfunction</p> <p>Murphy DeMeglio, Susanne Hille, Jiong Hu, Oliver Müller, Ingrid Flemming, Jasmin K. Hefendehl</p>
34	<p>ATM cytoplasmic localization can be modelled in cultured neural cells and is accompanied by general mislocalization of DNA damage proteins</p> <p>Marina Reichlmeir, Ralf Schubert, Ruth Pia Duecker, Wasifa Nurieva, Zoltán Ivics, Georg Auburger</p>
35	<p>Survival after selective neuronal ATXN2 reduction in adolescent premanifest or adult manifest Atxn2-CAG100-KIN mice, as therapy</p> <p>Key Jana, Almaguer-Mederos Luis-Enrique, Reichlmeir Marina Koepf Gabriele, Gispert Suzana, Auburger Georg</p>
36	<p>Comorbid anxiety – A challenge to the disconnection syndrome hypothesis of major depressive disorder?</p> <p>Marius Gruber, Jan Schulte, Elisabeth J. Leehr, Susanne Meinert, Dominik Grotegerd, Igor Nenadić, Tilo Kircher, Udo Dannlowski, Jonathan Repple</p>
37	<p>Modulation of ATP-adenosine signaling axis boosts anti-tumor immunity in brain metastasis</p> <p>Anna Salamero-Boix , Michael Schulz , Julian Anthes , Katharina Imkeller, Ioanna Tsoukala, Tijna Alekseeva, Dominic Menger, Stephanie Hehlhans, Jeannie Peifer, Mohammed H. Mosa, Jadranka Macas, Jenny Zinke, Aylin Möckl, Katja Niesel, Yvonne Reis, Hind Medyouf, Patrick Harter, Karl H. Plate, Franz Rödel, Lisa Sevenich</p>
Plasticity and normal function	
38	<p>Skewed distribution of spines is independent of presynaptic transmitter release and synaptic plasticity, and emerges early during adult neurogenesis</p> <p>Nina Röbler, Tassilo Jungenitz, Albrecht Sigler, Alexander Bird, Martin Mittag, Jeong Seop Rhee, Thomas Deller, Hermann Cuntz, Nils Brose, Stephan W Schwarzacher, Peter Jedlicka</p>
39	<p>Hierarchical regulation of functionally antagonistic neuropeptides expressed in a single neuron pair control locomotion of Caenorhabditis elegans</p> <p>Ichiro Aoki, Shripriya Bhat, Erschad Bassam, Isabel Beets and Alexander Gottschalk</p>
40	<p>Turning on the cochlear implant: anatomy-based fitting versus standard frequency map.</p> <p>Uwe Baumann, Marten Geisen, Tobias Weissgerber, Timo Stoeber, Silke Helbig</p>
41	<p>Toward a whole-brain cell type atlas of the cuttlefish Sepia officinalis</p> <p>Simone Rencken, David Hain, Georgi Tushev, Elena Ciirdaeva, Thamari Kapuruge, Gilles Laurent</p>
42	<p>Serum- and Glucocorticoid-inducible Kinase 1 (SGK-1) is a master regulator of</p>

List of posters

	<p>neuropeptide secretion in <i>C. elegans</i> Sebastian Ciscares V. , Martin Piringer, Gang Wu, Yijian Yan, Ralf Baumeister, Stefan Eimer</p>
43	<p>How the brain detects important sounds: Deviance detection and omission responses of human auditory brainstem responses Johannes Wetekam, Julio Hechavarría, Nell Gotta, Manfred Kössl</p>
44	<p>Deviance detection in the bat's frontal and auditory cortex Eugenia Gonzalez-Palomares, Julio C. Hechavarría</p>