

Cognition

No	Title of poster	Authors	Affiliation
1	Processing of motion in depth and optic flow share a common brain area	van Stijn S, Kohler A, Singer W, Lee HS	MPI for Brain Research
2	Electrophysiology of the intention to speak	Gehrig G, Wibrals M, Kell CA	Neurology, Cognitive Neuroscience
3	Dopaminergic control of speech production in Parkinson's disease - an fMRI study	Arnold C, Gehrig J, von Wegner F, Kell CA	BIC and Department of Neurology
4	Die neuronalen Grundlagen der Auflösung der Aufmerksamkeit	Wolf K, Galeano Weber E, van den Bosch JJF, Deichmann R, Naumer M, Pfeiffer T, Fiebach CJ	Neurokognitive Psychologie
5	The antagonism between cognitive flexibility and stability: an fMRI study	Armbruster D, Ueltzhöffer K, Basten U, Fiebach CJ (DA and KU equal contribution)	Institute for Psychology, Cognitive Neuroscience
6	P3b varies as a function of temporal predictability in language	Otterbein S, Schmidt-Kassow M, Kaiser J	Institute of Medical Psychology
7	Ageing and cognitive impairments affect audiovisual integration: A MEG study	Chan JS, Brandl M, Matura S, Prvulovic D, Naumer MJ, Kaiser J	Institute of Medical Psychology
8	Sensory modality of smoking cues modulates neural cue reactivity	Yalachkov Y, Kaiser J, Görres A, Seehaus A, Naumer MJ	Institute of Medical Psychology
9	Effect of cortical state on contrast responses in visual cortex of awake mouse	Schölvinck ML, Saleem AB, Ayaz A, Okun M, Harris KD, Carandini M	Ernst Strüngmann Institute

Computational neuroscience

No	Title of poster	Authors	Affiliation
10	Sparse signaling: A unifying objective for synaptic long-term plasticity	Krieg D, Triesch J	FIAS
11	A doubly stochastic model for the quantification and classification of burstiness and regularity in single spike trains	Bingmer M, Schiemann J, Roper J, Schneider G	Mathematics
12	Effects of practice structure on transfer in a visual orientation discrimination task	Lonini L, Scocchia L, Rothkopf C, Triesch J	FIAS
13	Activity-Dependent Intracellular Chloride Accumulation and Diffusion Controls GABAA Receptor-Mediated Synaptic Transmission	Jedlicka P, Deller T, Backus KH, Gutkin B	Institute of Clinical Neuroanatomy
14	A Step Filter Test for Change Point Detection in Non-Stationary Poisson Processes	Messer M, Kirchner M, Bingmer M, Schiemann J, Neininger R, Röper J, Schneider G	Mathematics
15	Effect of synchronous multi electrode stimulation on temporal pitch discrimination in cochlear implant users	Bahmer A, Langner G, Hemmert W, Baumann U	Audiological Acoustics
16	Quantifying conduction delays in directed neuronal interactions using transfer entropy	Wibrals M, Siebenhühner F, Priesemann V, Lindner M, Vicente R	MEG Unit, BIC
17	Unifying procedural memory consolidation and structure learning in motor control	Wang Q, Rothkopf CA, Triesch J	FIAS
18	A power law for dendritic wiring	Cuntz H, Mathy A, Häusser M	Institute of Clinical Neuroanatomy

Diseases of the Nervous System

No	Title of poster	Authors	Affiliation
19	An exciting function of K-ATP channels in dopamine midbrain neurons is potentiated in Parkinson disease	Schiemann J, Klose V, Schlaudraff F, Bingmer M, Magill PJ, Zaghoul KA, Schneider G, Liss B, Roeper J	Institute for Neurophysiology
20	Acute necrotizing encephalopathy due to RANBP2 mutation associated with uncoupling mitochondrial energy metabolism	Vlaho S, Althaus J, Baz Bartels M, Dresel R, Gebhardt B, Porto L, Polinski B, Neilson D, Kieslich M	Department of Neuropediatrics
21	Electrophysiological characterization of serotonin neurons in the dorsal raphe nucleus in the 6-OHDA mouse model of Parkinson`s disease	Carlsson T, Prinz A, Selesnew L-M, Liss B, Roeper J	Institute for Neurophysiology
22	Regulation of Parkinsonism-related PARKIN, PINK1, PLA2G6 and LRRK2 transcripts in stress response to restriction of trophic factors	Klinkenberg M, Gispert S, Dominguez-Bautista JA, Auburger G, Jendrach M	Department of Neurology
23	Severe recurrent pain sensations in the leg with priapism in spina bifida occulta	Althaus J, Vlaho S, Baz Bartels M, Porto RL, Kieslich M	Department of Neuropediatrics
24	Therapeutic aspects of mutant isocitrate dehydrogenase 1 R132H in oxidative stress-triggered glioma cell death	Mohrenz IV, Mukrowsky A, Voigt S, Senft C, Rödel F, Seifert V, Kögel D	ZNN, Experimental Neurosurgery
25	Analysis of striatal acetylcholine in PRiMA knockout mice by in vivo microdialysis	Mohr F, Farar V, Krejci E, Zimmermann M, Klein J	Pharmacology for natural scientists
26	Neurotransmitters and energy metabolites during pilocarpine-induced status epilepticus	Hillert M, Zimmermann M, Klein J	Pharmacology for natural scientists
27	A model of Spinocerebellar Ataxia Type 2 (SCA2): The (CAG)42-Sca2 knock-in mouse	Damrath E, Gispert S, Nowock J, Auburger G	ZNN, Experimental Neurology
28	Ataxin-2 deficiency causes changes in the expression of SRC	Drost J, Nonis D, Damrath E, Auburger G	ZNN, Experimental Neurology
29	Attenuation of autophagy by a knockdown of Beclin-1 enhances the sensitivity of hippocampal neurons to Amino Acid Starvation and induces an AIF-dependent Apoptosis	Kim M, Rami A	Cellular and Molecular Anatomy
30	Translocation of the Serine Protease Omi/HtrA2 from Mitochondria into the Cytosol Upon Seizure-Induced Hippocampal Injury	Kim M, Langhagen A, Niquet J, Rami A	Cellular and Molecular Anatomy
31	Interactions between mitochondrial dynamics and oxidative stress in aging and Parkinson`s disease	Mai S, Klinkenberg M, Kaudeer J, Auburger G, Bereiter-Hahn J, Jendrach M	ZNN, Experimental Neurology
32	ZEB1 as a regulatory factor in brain tumors and neural stem cells.	Muekusch S, Glass R, Baumgarten P, Mittelbronn M, Plate KH, Momma S	Eninger Institute
33	Evidence for neuroprotective effects of soluble APP cleavage products	Röhner N, Kundu A, Zymny A, Baumkötter F, Kins S, Behl C, Kögel D	ZNN, Experimental Neurosurgery
34	Analyzing mutations in arrhythmogenic genes in the nematode Caenorhabditis elegans by using optogenetic methods	Fischer E, Essin K, Liewald JF, Erbguth K, Wabnig S, Damijonaitis A, Scheuplei V, Gottschalk A	Institute of Biochemistry and FMLS
35	Reduced SK current in surviving Dopaminergic Midbrain Neurons in a mouse model of Parkinson's Disease	Prinz A, Kreuzer A, Liss B, Roeper J	Institute for Neurophysiology
36	Selective rescue of rostral dopaminergic substantia nigra neurons from neurodegeneration by intra-nigral proteasomal inhibition in K-ATP channel knockout mice	Subramaniam M, Schieman J, Liss B, Roeper J	Institute for Neurophysiology
37	The first disease gene of torticollis: Identification through exome sequencing	Auburger G	ZNN, Experimental Neurology

Normal Function and Plasticity

No	Title of poster	Authors	Affiliation
38	Impact of melatonin and molecular clockwork components on the expression of thyrotropin β-chain (Tshb) and the Tsh receptor in the mouse pars tuberalis	Fischer C, Ansari N, Yasuo S, Korf HW, von Gall C	Institut für Anatomie II
39	Neuronal adaptation in the awake rat auditory cortex depends on spectrotemporal features of structured sound stimuli	Gaese BH, Schmale K, Klein C	Cell Biology and Neuroscience
40	EGFL7 regulates neural stem cell maintenance	Bicker F, Jungenitz T, Glass R, Plate KH, Deller T, Schwarzacher SW, Schmidt MHH	Edinger Institute
41	Dynamik der BDNF-Antwort als Funktion von Trainingsintensität und Geschlecht	Schmidt-Kassow M, Schädle S, Otterbein S, Doehring A, Löttsch J, Kaiser J	Medical Psychology
42	Zn²⁺-binding synaptic vesicle protein SV31 is sorted to microvesicles and endosomes in PC12 cells	Barth J, Zimmermann H, Volknandt W	Cell Biology and Neuroscience
43	Thalamo- and baso-cortical functional segregation of specialized brain networks in active and resting state: data-driven estimation and subsequent validation	Naumer MJ, van den Bosch JJF, Walther A, Polony A, Hein G, Doehrmann O, Kaiser J, van de Ven VG	Institute of Medical Psychology
44	Phenotypic analysis of melanopsin-expressing ganglion cells in the mouse retina	Karnas D, Hicks D, Mordel J, Pévet P, Meissl H	MPI for Brain Research
45	Traveling waves in the hearing organs of bushcrickets	Palghat Udayashankar A, Koessl M, Nowotny M	Cell Biology and Neuroscience
46	How time of day affects brain function	Cordani, Stehle, Kell	BIC Department of Neurology
47	Glycine receptor activation phase-shifts the circadian rhythm of electrical activity in the mouse SCN	Mordel J, Karnas D, Inyushkin A, Challet E, Pévet P, Meissl H	MPI for Brain Research
48	Serotonin receptors of the honeybee and the involvement of serotonin in phototactic behavior	Thamm M, Blenau W	Cell Biology and Neuroscience
49	Structural and functional maturation of adult newborn hippocampal granule cells	Jungenitz T, Al-Qaisi O, Deller T, Schwarzacher SW	Institute of Clinical Neuroanatomy
50	Morphology of CD15 and Recoverin immunoreactive cone bipolar cells in a bat retina.	Müller B, Butz E	MPI for Brain Research
51	Simultaneous Ca²⁺ imaging and Channelrhodopsin-2 stimulation in C.elegans with a new red shifted genetically encoded calcium sensor R-Camp	Wabnig S, Akerboom J, Looger L, Gottschalk A	FMLS
52	Lipidergic messengers from the pars tuberalis	Yasuo S, Bojunga J, Geisslinger G, Korf HW	Institut für Anatomie II
53	Achieving single-cell expression of Channelrhodopsin-2 using the cre-lox system to analyze habituation in neural circuits that induce escape behaviours	Schmitt C, Schultheis C, Liewald J, Gottschalk A	FMLS
54	Cubic and quadratic distortion-product otoacoustic emissions (DPOAE) in awake and anesthetized animals of the bat species Carollia perspicillata	Schlenthe D, Voß C, Kössl M	Cell Biology and Neuroscience
55	Interaction between MEK-1/2 and PI3K contributes to FGF-1-mediated induction of EGR1/zif268 in hippocampal neurons	Benz, Sharjari, Molotkov, Dehghani, Maronde	Institut für Anatomie III
56	Reorganization of brain modular structure across sleep	Tagliazucchi E, von Wegner F, Jahnke K, Morzelewski A, Borisov S, Steinmetz H, Laufs H	Brain Imaging Center
57	Intercellular signaling from hematopoietic to neural cells via exosomes	Oesterwind K, Keller S, Dams M, Macas J, Plate KH, Altevogt P, Momma S	Edinger Institute
58	Temporal dynamics of mouse hippocampal clock gene expression supports memory formation	Jilg A, Dehghani F, Stehle JH	Institut für Anatomie III
59	Daytime-dependent chromatin remodelling in the mouse hippocampus depends on a circadian clock mechanism	Jilg A, Slawska J, Stehle JH	Institut für Anatomie III
60	Circadian dynamics of NOGO in the mouse hippocampus	Jilg A, Ried C, Lautenschütz B, Maronde E, Utech L, Schwab M, Stehle JH	Institut für Anatomie III

61	Does the neurite outgrowth inhibitor NOGO-A contribute to circadian plasticity?	Bechstein P, Jilg A, Schwab M, Stehle JH	Institut für Anatomie III
62	Beta/gamma oscillations increase neural complexity	Wang P, Lima B, Singer W, Neuenschwander S, Nikolic D	MPI for Brain Research/FIAS
63	Role of PER1 in melatonin synthesis in the mouse pineal gland	Christ E, Korf HW, von Gall C	Institut für Anatomie II
64	Repetitive magnetic stimulation induces functional and structural plasticity at excitatory postsynapses in organotypic hippocampal slice cultures	Müller-Dahlhaus F, Vlachos A, Roskopp J, Ziemann U, Deller T	Klinik für Neurologie
65	Ionic current modulation of mushroom body and antennal lobe neurons	Himmelreich S, Grünewald B	Cell Biology and Neuroscience
66	Retrieval or long-term memory after unilateral olfactory conditioning of the honeybee proboscis extension reflex	Fischer J, Grünewald B	Cell Biology and Neuroscience
67	Melatonin Couples Hippocampal Homeostasis to the Integrity of Diurnal Rhythms	Rawashdeh O, Jilg A, Saade A, Stehle JH	Institut für Anatomie III
68	Optical Generation of Spatio-Temporal Activity Patterns in the Mouse Olfactory Bulb	Lehmann A, D'Errico A, Vogel M, Spors H	MPI of Biophysics
69	Influence of associated proteins on function and composition of C. elegans nAChRs heterologously expressed in oocytes of X. laevis	Laprell L, Gottschalk A	FMLS

Regeneration and reorganization

No	Title of poster	Authors	Affiliation
70	Nucleotides affect neurogenesis and catecholaminergic differentiation of mouse fetal midbrain-derived neural precursor cells	Delic J, Zimmermann H	Cell Biology and Neuroscience
71	Isoform-specific phospholipase D activation through insulin-like growth factor 1 and fetal calf serum in rat astrocytes	Burkhardt U, Zimmermann M, Klein J	Pharmacology for natural scientists
72	HoxB8 in noradrenergic specification and differentiation of the autonomic nervous system	Huber L, Ferdin M, Stubbusch J, Rohrer H	MPI for Brain Research
73	S-Nitrosylation in the spinal cord after sciatic nerve injury	Scheving R, Wittig I, Steger M, Heide H, Brandt U, Tegeder I	Institute of Clinical Pharmacology
74	Deficiency of hypoxia inducible factor 1 alpha in primary neurons increases acute pain sensitivity but attenuates chronic hypersensitivity in mice	Kanngießer M, Lim HY, Myrczek T, Tegeder I	Institute of Clinical Pharmacology
75	Pain protective and neurotrophic effects of progranulin in models of neuropathic pain in mice	Lim H-Y, Albuquerque B, Häussler A, Myrczek T, Scheving R, Tegeder I	Institute of Clinical Pharmacology
76	Behavioral testing of pain-associated co-morbidities in mice	Albuquerque B, Tegeder I	Institute of Clinical Pharmacology
77	Postnatal development of delay-sensitive neurons in the auditory cortex of the short-tailed fruit bat	Voss C, Kössl M	Cell Biology and Neuroscience
78	GRIP1-14-3-3 interactions control dendrite morphogenesis	Geiger J, Hoyer S, Segura I, Acker-Palmer A	FMLS
79	Reelin in the nervous system	Senturk A, Pfennig S, Damm M, Foss F, Acker-Palmer A	FMLS
80	Development of neuronal networks of social cooperation	Siniatchkin, Steinmann	Clinic for Child Psychiatry
81	TALE-HD proteins in adult neurogenesis	Grebbin M, Heine P, Hau A-C, Agoston Z, Selleri L, Schulte D	Edinger Institut
82	Infants in Control: Agency and Habituation	Bolhuis J, Wang Q, Kolling T, Rothkopf C, Triesch J, Knopf M	FIAS