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, Wibral 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**	Wibral M, Siebenhühner F, Priesemann V, Lindner M, Vicente R	MEG Unit, BIC
17	**Unifying procedural memory consolidation and strucutre 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, Zaghloul KA, Schneider G, Liss B, Roeper J	Institute for Neurophysiology
20	**Acute necrotisizing 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	Edinger 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, Schiemann 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 ß-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, Lötsch 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, VolknandtW	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 Ca^{2+} 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, Rosskopp 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