Poster Program

Rhine-Main Neuroscience Network (*rmn²*)

20-22 Juni, 2012 Oberwesel

Buchmann Institute for Molecular Life Sciences, Frankfurt	
1	GRIP1-14-3-3 interactions control dendrite morphogenesis Geiger,J.; Hoyer,S.; Segura, I.; Acker-Palmer, A.
2	Reelin signalling in the nervous system Pfennig,S.; Senturk,A.; Foß,F.; Damm,M.; Acker-Palmer,A.
3	The function of the vascular receptor VEGFR2 in nervous system development and plasticity Harde,E.; Naumann,A.; Acker-Palmer, A.

Center for Membrane Proteomics, Frankfurt	
4	Distribution of GM1 ganglioside is altered in Cb CLN3delex7/8 cells Somogyi,A.; Petcherski,A.; Cotman,S.L.; Ruonala, M.O.
5	Altered protein prenylation, mevalonate pathway and peroxisomes in JNCL Ahonen,I.; Ramos Moreno,J.M.; Cotman,S.L, Eckert,G.P.; Ruonala,M.O.
6	Studies on CLN3: A practical approach to its structure Ramos Moreno,J.M.; Ruonala,M.O.
7	Uptake of Protein Nanoparticles in Cerebellar Cells Dadparvar,M.; Oliynik,A.; Kreuter,J.; Ruonala,M.O.
8	Prenatal Inhibition of MVA-pathway Influences Brain Physiology of Batten's Disease Mouse Model Langiu,M.; Cotman,S.L.; Eckert,G.P.; Ruonala,M.O.

Clinic for Psychosomatic Medicine and Psychotherapy, Mainz	
9	fMRI characterization of visual working memory recognition Rahm,B.; Kaiser,J.; Unterrainer,J.; Bledowski,C.
10	Reward processing of computer game addicted patients in a semi-natural design. Duven, E.; Wölfling, K.
11	Selective attention deficit in depersonalisation Adler,J.; Beutel,M.E.; Knebel,A.; Michal,M.
12	Disturbed impulse Control in behavioral addictions Wölfling, K., Duven, E., Unterrainer, J.

Department of Anaesthesiology, Mainz	
13	Expression regulation of Neural Cell Adhesion Molecules after Traumatic Brain Injury Dangel,L.; Bobkiewicz,W.; SebastianiA.; Luh,C.; Pieter,D.; Schaible,E.;Thal,S.; Schäfer,M.K.E.

Department of Child and Adolescence Psychiatry, Frankfurt	
14	Intentional minds in autism and schizophrenia Ciaramidaro,A.
15	Biological motion perception in children and adolescence with autism spectrum disorders Kröger, A.; Krick, C.; Siniatchkin, M.; Freitag, C. M..; Bender,S.

16	Close to threshold transcranial electrical stimulation preferentially activates inhibitory networks before switching to excitation with higher intensities Moliadze,V.; Atalay,D.; Antal,A.; Paulus,W.

Department of Neurology, Brain Imaging Center, Frankfurt	
17	Dopaminergic control of speech production in Parkinson`s disease – an fMRI study Arnold,C.; Kell,C.
18	Reconstructing neural interaction delays with information theoretic methods Pampu,N.; Priesemann,V.; Siebenhühner,F.; Vicente,R.; Wibral,M.
19	A graph-based algorithm to remove cascade effects from bivariate connectivity analysis Wollstadt,P.; Meyer,U.; Lindner,M.; Wibral,M.

Department of Neurology, Frankfurt	
20	Do your subjects fool you? Objective assesment of subject compliance in Resting State experiments Morzelewski,A.; Tagliazucchi,E.; von Wegner,F.; Jahnke,K.; Brodbeck,V.; Laufs.;
21	Evidence for the activation of the PI3K/Akt survival pathway by soluble APP cleavage products Röhner,N.; Kögel,D.; Behl,C.
22	Cortico-cortical connectivity in healthy subjects and MS-patients: A TMS-EEG Study preliminary authors: Zipser CM and Motor Cortex Group
23	Targeting Bcl-2 family members for glioma therapy Rakel,S.

Department of Neurology, Mainz	
24	Insular cortex-a site of sensory and vestibular control Baier B, zu Eulenburg P, Geber C, Birklein F, Dieterich M
25	Title to be announced Zindler,E.
26	Modulation of dendritic cells properties as mechanism for modulating multiple sclerosis Lüssi,F.; Jolivel,V.; Kraus,S.; Zipp,F.
27	Radiation-induced gene expression leads to altered immune signaling and migration in glioma-initiating cells Hoppmann,N.; Schmitz-Salue,C.; Salinas,G.; Opitz.; Kim,E.; Giese,A.; Zipp,F.
28	In vivo imaging of partially reversible th17-induced neuronal dysfunction in the course of encephalomyelitis Siffrin,V.
29	How does disease duration affects cognition and fatigue in MS? Wilting,J.; Zipp,F.; Zindler,E.; Droby,A.; Baier.;B.

Department of Neuropathology, Mainz	
30	Altered neurotransmitter receptor systems in the central nervous system – A link to neurological impairment in experimental antiphospholipid syndrome Frauenknecht,K.; Katzav,A.; Grimm,C.; Chapman,J.; Sommer,C.J.

Department of Pharmacology, Frankfurt	
31	PPARγ-agonists as modulators of the human γ-secretase Pohland, M. M.; Hagl,S.; Wurglics,M.; Schubert-Zsilavecz,M.; Eckert,G.P.
32	Impact of Brain Aging on Isoprenoid Levels and Prenylation of Rho-GTPases Afshordel,S.; Hooff,G.P.; Igbavboa,U.; Müller,W.E.;Gibson Wood,W.; Eckert,G.P.

Department of Psychiatry and Psychotherapy, Mainz	
33	Spatiotemporal network dynamics of response inhibition: a fMRI/MEG study Sebastian,A.; Jung,P.; Wibral,M.; Fries,P.; Lieb,K.; Tüscher,O.; Mobascher,A.
34	Generating a Reporter mouse which allows facilitated assessment of ADAM10 transcriptional activity /in vivo/ Roth,C.; Schuck,F.; Kühn,R.; Wurst,W.; Schmitt,U.; Endres,K.
35	Single-trial fMRI correlations of inhibitory ERP components Schmüser,L.; Feige,B.; Sebastian,A.; Lieb,K.; Tüscher,O.
36	New insights in GABAA - receptor activation revealed by subunit concatenation Lüddens,H.; Sattler,C.; Dreyer,B.
37	Impulsivity and D2/D3 receptor status in healthy men – a PET and fMRI Study Pfeifer,P.
38	Behavioural analysis of LRP1 mediated brain adaptation Schmitt U.; Bednorz M.; Pietrzik C.
39	Computational identification and experimental validation of microRNAs binding to the Alzheimer-related gene ADAM10 Reinhardt,S.; Augustin,R.; Endres,K.; Reinhardt,S.; Kuhn,P.H.; Lichtenthaler,S.F.; Hansen,J.; Wurst,W.; Trümbach,D.
40	Significant impact of P-glycoprotein on the HPA-system and potential consequences for antidepressant effects Schönfelder,Y.; Hiemke,C.; Schmitt,U.

Department of Psychology, Frankfurt	
41	Prefrontal cortical mechanisms underlying individual differences in cognitive flexibility and stability Armbruster,D.J.N.; Ueltzhöffer,K.; Basten,U.; Fiebach,C.J.
42	Intelligence modulates default network activity during working memory performance Basten,U.; Stelzel,C.; Fiebach,C.J.
43	The effect of deep brain stimulation on frontal activity during working memory in Parkinson´s disease: A near-infrared spectroscopy study Mayer,J.S.; Bourne,S.K.; Folley,B.S.; Neimat,J.; Charles,D.; Konrad,P.; Park,S.

	Edinger Institut, Frankfurt
44	Prep1 expression in the adult brain and malignant neoplasm Wille,C.; Moyo Grebbin,B.; Harter,P.; Longobardi,E.; Blasi,F.; Mittelbronn,M.; Schulte,D.
45	Meis2 participates in neurogenesis and periglomerular neuron identity in the adult SVZ and olfactory bulb Heine,P.; Agoston,Z.; Kallenborn,W.; Brill,M.; Schramm,J.; Moyo Grebbin,B.; Götz,M.; Schulte,D.
46	A tumor suppressor role for Meis2 in neuroblastoma Czaplinski,S.; Schramm,J.; Geerts ,D.; Schulte,D.
47	ZEB1 as a regulatory factor in brain tumors and neural stem cells Mükusch,S.; Castro,D.; Calogero,R.; Baumgarten,P.; Mittelbronn,M.; Plate,K.; Momma,S.

	Frankfurt Institute for Advanced Studies
48	How rewarding is a reward: inferring intrinsic utilities from behavior Rothkopf,C.
49	A walk through the woods explains the space variant oblique effect' Rothkopf,C.; Weisswange,T.; Triesch,J.
50	Sparse signaling: A unifying objective for synaptic long-term plasticity Krieg,D.; Triesch,J.

	FTN, Mainz
51	The role of diffusion parameter histograms in MS brainstem lesions Droby,A.; Carnini,M.; Lüssi,F.; Erb,M.; Gawehn,J.; Zipp,F.; Baier,B.

	Institute for Cell Biology and Neuroscience, Frankfurt
52	The second dimension of traveling waves in the crista acustica of bushcrickets Palghat,A.; Udayashankar.; Kössl,M.; Nowotny,M.
53	Residual OAE measurements in the short-tailed fruit bat Carollia perspicillata Schlenther,D.; Kössl,M.
54	Auditory processing and frequency analysis in the hearing organ of Mecopoda elongata Hummel,J.; Kössl,M.; Nowotny,M.
55	Effects of neonicotinoid insecticides on the muscle activity of the honeybee" Fischer,J.; Triltsch,M.; Kabat vel Job,K.; Grünewald,B.
56	Evolution of Neuronal Mechanisms for Echolocation: "Heteroharmonic" Target-Range Computation in Bats of the Genus Pteronotus Hechavarría,J.C.; Macías,S.; Vater,M.; Mora,E.C.; Kössl,M.
57	Binaural Measurements of Otoacoustic Emissions in Humans Jäger,K.; Kössl,M.
58	Laminar differences in the response properties of auditory cortex neurons in the short-tailed fruit bat during stimulation with echolocation signals Schaefer,M.; Voss,C.; Kössl,M.

59	Side-specific olfactory learning in the honeybee: extinction and reversal learning Zimmermann,S.; Bräuniger,R.; Fischer,J.; Grünewald,B.
60	Amyloid precursor proteins are present at the presynaptic active zone of rodent brain Laßek M., Weingarten J., Müller B., Lunger I., Wittig I., Kins S., Müller U., Karas M., Volknandt W.
61	The proteom of the presynaptic active zone derived from mouse brain Weingarten J., Müller B., Laßek M., Lunger I., Vancura P., Yalcin B. H., Karas M., Volknandt W.

Institute for Neurophysiology, Frankfurt	
62	Transient Hyperexcitability and Remodeling of Calcium Handling in Motoneurons of the SOD1 ALS Mouse Model During Disease Progression Kutterer, S.; Fuchs,A.; Keller,B.U.; Roeper,J.

Institute for Physiology and Pathophysiology, Mainz	
63	Regulation of Argonaute proteins in oligodendrocytes Moos,C.; LuhmannH.J.; White,R.
64	Fyn- mediated translational regulation of MOBP Schäfer,I.; Luhmann,H.J. White,R.
65	Lesion induced alteration in GABAergic transmission in the visual cortex of BDNF KO mice Marongiu,D.; Imbrosci,B.; Mittmann,T.
66	Myelin Basic Protein synthesis is regulated by small non-coding RNA 715 Bauer,N.M.; Moos,C.; van Horssen,J. Witte,M.; van der Valk,P.; Luhmann,H.J, White,R.
67	Extracellular Glutamate-GABA balance in the cerebral cortex Unichenko,P.; Myakhar,O.; Kirischuk,S.
68	Pericytes in cortical organotypic slice culture Zehendner,C.M.; Luhmann,H.J.

Institute of Clinical Neuroanatomy, Frankfurt	
69	Tumor necrosis factor-α maintains the denervation induced compensatory increase in excitatory synaptic strength of dentate granule cells in mouse hippocampal slice cultures Becker,D.; Deller,T.; Vlachos,A.
70	Structural and functional maturation of adult newborn hippocampal granule cells Jungenitz,T.; Al-Qaisi,O.; Deller,T.; Schwarzacher,S.W.
71	The cell adhesion molecule Neuroligin-1 is essential for intact excitatory synaptic transmission at glutamatergic perforant path synapses Jedlicka,P.; Vnencak,M.; Deller,T.; Brose,N.; Schwarzacher, S.W.

Institute of Clinical Pharmacology, Frankfurt	
72	Progranulin in the Adaptive Response of the Nociceptive System to Damage Lim,H-Y.; Albuquerque,B.; Tegeder.;I.
73	Deficiency of hypoxia inducible factor 1 alpha in primary neurons increases acute pain sensitivity but attenuates chronic hypersensitivity in mice Kanngießer,M.; Lim,H-Y.; Myrczek,T.; Blees,J.; Tegeder,I.

Institute of Genetics, Mainz	
74	Regulation and impact of Hox mRNA processing in Drosophila embryonic CNS development Rogulja-Ortmann,A.; Technau,G.
75	The Drosophila gene nazgul is required for integration of sensory input and larval behavior de Visser,A.; Technau,G.M.; Altenhein,B.
76	Analysis of the nuclear localization and potential translational control of castor-mRNA in Drosophila melanogaster Jüngling,A.; Homberg,M.; Fischer,K.; Finkernagel,M.; Urban,J.
77	Kon-tiki function during Drosophila Nervous system development Bustos,A.E.; Trotter,J.; Technau,G.M.; Altenhein,B.
78	Identification of non-homeotic functions of the Drosophila Hox gene Ultrabithorax in neurogenesis using a forward genetics screen Hessinger,C.; Vef,O.; Rogulja-Ortmann,A.; Technau,G.
79	Tracing of individual glial cells during development von Hilchen,C.M.; Bustos,A.E.; Technau,G.M.; Altenhein,B.
80	EGFR signalling in embryonic brain development Jussen,D.
81	Function of Mbc during migration of peripheral glial cells in Drosophila embryo Dietrich,J.; Technau,G.M.; Altenhein,B.
82	Clonal organisation of the embryonic mushroom bodies in Drosophila Kraft,K.; Urbach,R.
83	Role of Antennapedia in segment specific lineage development Rani Myneni,S.; Lüer Kirsch,K.; Rogulja Ortmann,A.; Technau,G.M.

Institute of Microscopic Anatomy and Neurobiology, Mainz	
84	EGFL7 regulates neural stem cell maintenance Bicker,F.; Harter,P.; Jungenitz,T.; Glass,R.; Plate,K.H.; Deller,T.; Schwarzacher,S.W.; Schmidt,M.H.H.
85	Bioactive Phospholipid Signaling in Homeostatic Regulation on Neuron Numbers and Connections Vogt,J.
86	Medusa's Stare: The Neuroaesthetics of Fascination Hill,R.; Baumbach,S.; Nicklas,P.
87	Plasticity Related Gene 1: Functional Role in Homeostasis of Synapse Formation and Maintenance Nitsch,R.; Huai,J.

Institute of Molecular Cell Biology, Mainz	
88	Neurotransmitter signaling controls exosome secretion from oligodendrocytes Frühbeis,C.; Fröhlich,D.; Tenzer,S.; Kuo,W.P.; Schneider,A.; Saab,A.; Kirchhoff ,F.; Möbius,W.; Trotter,J.; Krämer-Albers,E-M.
89	Post-transcriptional regulation of Myelin Basic Protein in oligodendroglial cells Gonsior,C.

90	Oligodendroglial exosomes: trophic support for neurons? Fröhlich,D.; Kuo,W.P.; Frühbeis,C.; Krämer-Albers,E-M.
91	Shedding and signaling of the OPC protein NG2: do OPCs regulate the neuronal network Sakry,D.; Reinhardt,S.; Postina,R.; Endres,K.; Trotter.;J.
92	The mitochondrial serine protease OMI/HtrA2 binds to the NG2 protein expressed by oligodendrocyte progenitor cells: a role for NG2 in stress-protection? Maus,F.; Karram,K.; Binamé,F.; Sakry,D.; Krüger,R.; Stegmüller,J.; Werner,H.; Nave,K.A.; Trotter,J.
93	Post-transcriptional regulation of Myelin Basic Protein in oligodendroglial cells Hoch-Kraft,P.; Gonsior,C.; White,R.; Bauer,N.; Krämer-Albers E-M.; Luhmann,H.; Trotter, J.

Institute of Ophthalmology-Eye Research, Mainz	
94	gamma-synuclein antibodies have a protective effect on stressed retinal ganglion cells Wilding,C.
95	High-density protein arrays for serum autoantibody biomarker profiling in glaucoma and ocular hypertensive patients Beck,S.

Institute of Pathobiochemistry, Mainz	
96	Analysis of the CamkIIα mRNA: identification of 3'UTR heterogeneity and potential dendritic targeting elements. Akbalik,G.; Will,T.J.; Tushev,G.; Berg,P.; Strehl,A.; Fürst,N.; Cajigas,I.J.; Schuman,E.M.
97	Amyotrophic lateral sclerosis-causing mutant TDP-43 variants and their effect on protein degradation pathways Wolf,H.
98	Protective effects of sAPPalpha under proteasomal stress conditions Renziehausen,J.; Nagel,H.; Röhner,N.; Kögel,D.; Hajieva,P.; Behl,C.
99	APP processing by the metalloprotease meprin β Bien,B.
100	Novel modifiers of proteostasis: large scale RNAi screen in C. elegans Spang,N.; Kern,A.; Huesmann,H.; Behl,C.
101	Characterization of the blood-spinal cord barrier (BSCB) in a mouse model for amyotrophic lateral sclerosis (ALS) Meister,S.; Liebl,M.; Witan,H.; Behl,C.; Clement,A.; Pietrzik.; C.U.
102	Differential effect of estrogen receptors on apoptosis and autophagy Felzen,V.; Morawe,T.; Brendel,A.; Behl,C.

Institute of Pharmaceutical Chemistry, Frankfurt	
103	Fusion of Highly Affine Histamine H3 and H4 Receptor Ligands Schreeb,A.; Weizel,L.; Schwed,J.S.; Stark,H.
104	The Dopamine D3R Receptor Antagonist ST-198 in Rodent Models on Drug Abuse Saur,O.; López Crespo,A.; Stark,H.
105	A New Human H3 Receptor Antagonist in Mice Models on Drug Addiction Sadek,B.; Bahi,A.; Walter,M.; Schwed,J.S.; Kottke,T.; Stark,H.

106	Novel Chalcone-Based Human H3 Receptor Ligands for Fluorescence Imaging Schwed,J.S.; Tomasch,M.; Weizel,L.; Paulke,A.; Stark,H.
107	Histamine H_3 Receptor Antagonists with Phenytoin Moiety in Models of Epilepsy Sadek,B.; Walter,M.; Sekar,S.;, Adem,A.; Weizel,L.; Schwed,J.S.; Kraus,E.M.; Stark,H.
108	Design, Synthesis And Pharmacological Examination Of Divalent hH_3R Ligands Wingen,K.; Schwed,J.S.; Weizel,L.; Proschak,E.; Stark,H.

Institute of Physiological Chemistry, Mainz	
109	Endocannabinoid signalling and fear extinction in mouse lines for glutamatergic and GABAergic-specific rescue from CB1 receptor deficiency Remmers,F.; Ruehle,S.; Romo Parra,H.; Massa,F.; Wickert,M.; Kaiser,N.; Marsicano,G.; Pape,H-C.; Lutz,B.
110	Exploratory behavior and response to THC in mouse lines for glutamatergic and GABAergic-specific rescue from CB1 receptor deficiency Häring,M.; Enk,V.; Remmers,F.; Rühle,S.; Lutz,B.
111	Targeting neuronal populations by AAV gene transfer for studying the endocannabinoid system Guggenhuber,S.; Klugmann,M.; Lutz,B.

Institute of Physiology and Pathophysiology, Mainz	
112	Resonance properties of different neuronal populations in the immature mouse neocortex Sun,H.; Luhmann,H.J.; Kilb,W.
113	Inbalance of the excitation/inhibition in the hippocampus of NO-GC Knockout mice Neitz,A.; Mergia,E.; Koesling,D.; Mittmann,T.
114	Long-term potentiation in the neonatal rat barrel cortex in vivo An,S.; Yang,J-W.; Sun,H.; Kilb,K.; Luhmann,H.J.
115	Pericytes in cortical organotypic slice culture Zehendner,C.M.; Luhmann,H.J.

Institute of Zoology, Mainz	
116	Identification of novel interaction partners for the Usher syndrome 2C protein VLGR1b/GPR98 - an orphan GPCR expressed in retinal neurons Knapp,B.; Letteboer,S.; van Wijk,E.; Boldt,E.; Ueffing,M.; Kremer,H.; Roepman,R.; Wolfrum.;U.
117	Differentiell expression of the Usher syndrome 1C scaffold protein harmonin in human photoreceptor neurons Becker,M.; Goldmann,T.; Nagel-Wolfrum,K.; Reiners,J.; Stern-Schneider,G.; Sehn,E.; Maas,U.; Faust,M.; Müller,C.; Wissinger,B.; VetterJ.M.; Wolfrum,U.
118	Usher syndrome 1G protein SANS in ciliary cargo delivery in photoreceptor cells Sorusch,N.; Bauß,K.; Overlack,N.; Kunz,A.; van Wijk,E.; Maerker,T.; Roepman,R.; Kremer,H.; Wolfrum,U.
119	Analysis of a Working Memory for Visual Orientation in Walking Drosophila Kuntz,S.; Poeck,B.; Sokolowski,M.; Strauss,R.

120	Binding of Usher syndrome 1G protein SANS to optineurin links the Usher protein network to the neurodegenerative disorders ALS and Huntington's disease Tebbe,L.; Karam,A.; Sehn,E.; Bauß,B.; Märker,T.; Trottier,Y.; van Wijk,E.; Roepman,R.; Kremer,H.; Wolfrum,U.

Mathematics and Computer Science, Frankfurt	
121	Localizing Spike Train Non-Stationarities via Multiple Filtering Messer,M.; Kirchner,M.; Bingmer,M.; Schiemann,J.; Neininger,R.; Roeper,J.; Schneider,G.

Max Planck Institute for Brain Research, Frankfurt	
122	Analysis of the CamkIIα mRNA: identification of 3'UTR heterogeneity and potential dendritic targeting elements Strehl,A.; Akbalik,G.; Will,T.J.; Tushev,G.; Berg,P.; Fürst,N.; Cajigas,I.J.; Schuman,E.M.
123	Messenger RNA regulation in Synaptic Plasticity and Disease Epstein,I.; Tushev,G.; Schuman, E.M.
124	The Local Transcriptome in the Synaptic Neuropil Revealed by Deep Sequencing and High Resolution Imaging Cajigas,I.J.; Tushev,G.; Will,T.J.; Tom Dieck,S.; Fürst,N.; Schuman, E.M.
125	The function of Prox1 in the development of sympathetic ganglia Holzmann,J.; Politis,P.; Rohrer,H.
126	Phenotypic analysis of melanopsin-expressing ganglion cells in the mouse retina Karnas,D.; Hicks,D.; Mordel ,J.; Pevet,P.; Meissl,H.
127	Generation of CNS cell types from PNS stem cells Weber,M.; Rohrer,H.
128	An endogenous circadian oscillator in the cerebellum? Mordel,J.; Karnas D.; Challet E.; Pévet P.; Meissl,H.
129	Neural Synchrony and Large-Scale Cortical Networks in Schizophrenia Uhlhaas,P.J.; Roux,F.; Rivolta,D.; Sauer,A.; Sritharan,S.; Klein,D.; Singer,W.
130	Microsaccades' parameters are modulated by the spatial frecuency of stimuli in peripheral vision Rosales Jubal,E.
131	Calcium-dependent dynamics of cadherin interactions at synapses and cell-cell junctions Garg,S.; Bunse,S.; Vogel,D.; Ansari,N.; Stelzer,E.; Schuman,E.M.
132	Characterization and Connectivity of Bistratified Small-Field Amacrine Cells in the Primate Retina Neumann,S.; Haverkamp,S.
133	Neuronal avalanches recorded with depth electrodes in humans are self-organized critical for all wake-sleep states Priesemann,V.; Valderrama,M.; Quyen,L.V; Wibral,M.

GRADE - Goethe Graduate Academy.; Frankfurt	
134	GRADE - Goethe Graduate Academy; Goethe University Frankfurt/Main Firla,B.

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