

Buchmann Institute for Molecular Life Sciences, Frankfurt	
1	GRIP1 and its interactants in synaptic plasticity Diane Bissen, Jan Hofmann, Maximilian Kracht, Franziska Foss, Eva Harde, Amparo Acker-Palmer
2	GRIP1 Binds to ApoER2 and EphrinB2 to Induce Activity-Dependent AMPA Receptor Insertion at the Synapse Franziska Foss, Sylvia Pfennig, Diane Bissen, Eva Harde, Julia C. Treeck, Marta Segarra, Amparo Acker-Palmer
Clinic for Neurology, Mainz	
3	Two-photon live imaging of astrocyte – T-cell interactions in autoimmune neuroinflammation Samantha Schmaul, Julian Löffel, Dirk Luchtman, Frauke Zipp and Stefan Bittner
4	Mitochondrial hyperfusion connects GDAP1 Pathophysiology in Charcot-Marie Tooth Disease with Mfn2 Christina Wolf, Alireza Pouya, Annika Pfeiffer, Harald von Pein, Osamah Thaher, Oliver Brüstle, Axel Methner
5	Axonal ribosome localization and transfer in relation to axon injury Miriam Schillner, Andrea Schnatz, Kerstin Müller, Christina Francisca Vogelaar
6	Network fingerprints of focal dystonias and blepharospasm Venkata Chaitanya Chirumamilla, Christian Dresel, Gabriel Gonzalez, Günther Deuschl, Kirsten E. Zeuner, Muthuraman Muthuraman, Sergiu Groppa
7	White Matter Integrity as a Predictor of Atrophy Patterns in Multiple Sclerosis Radetz, A., Koirala, N., Muthuraman, M., Gonzalez-Escamilla, G., Zipp, F., Meuth, S.G., & Groppa, S.
Neuroimaging Center, Mainz	
8	"Surprise! Appetitive Prediction Error Shapes Extinction Learning" Thiele, M., Yuen, K., Gerlicher, A., Kalisch, R.
Department of Psychiatry and Psychotherapy, Mainz	
9	On the role of DRR1 in shaping resilience Tanja Jene, MA van der Kooij, MB Müller
10	Learning and conditioning factors underlying the biology of chronic social defeat and allowing for the extinction of its social avoidance phenotype. Sarah Ayash, Ulrich Schmitt, Marianne Mueller
11	Neural correlates of trigger failures in the stop-signal task: a model-based analysis Alexandra Sebastian, Birte U. Forstmann, Dora Matzke
Department of Psychiatry Psychosomatic Medicine and Psychotherapy, University Hospital Frankfurt	
12	Interactions between Bottom-Up and Top-Down Attention during Working Memory Encoding: Evaluation of an fMRI Paradigm for the Study of Cognitive Dysfunction in Schizophrenia Mishal Qubad, Catherine V. Barnes-Scheufler, Lara Rösler, Michael Schaum, Benjamin Peters, Michael Wibrall, Andreas Reif, Robert Bittner
Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Frankfurt	
13	Therapeutic Potential of Psychedelic Drugs and Stimulants Eva Raspor
14	Involvement of neuronal nitric oxide synthase in neuropsychiatric disorders Esin Candemir
Department of Psychiatry, Frankfurt	
15	Generation of hiPSC and dopaminergic neurons from adult ADHD patients carrying CNVs within the PARK2 gene Palladino VS, Cipta NO, Chiocchetti A, Reif A, Kittel-Schneider S

Edinger Institute, Frankfurt	
16	Expelled and degraded: posttranslational control of a key neuronal fate determinant in SVZ adult neurogenesis Tanja Müller, Jasmine Kolb, Nina Trautwein, Voahanginirina Randriamboavonjy, Dorothea Schulte
Frankfurt Institute for Advanced Studies	
17	Modeling ongoing recombination of cell assemblies in auditory cortex Bastian Eppler, Dominik Aschauer, Simon Rumpel, Matthias Kaschube Place poster next to Dominik Aschauer's (85)
18	Classification of raw focal and non-focal EEG signals using neural network Diyuan Lu
19	The role of network interactions in coordinating neuronal tuning properties across visual cortex Sigrid Trägenap, Bettina Hein, David E. Whitney, Gordon B. Smith, David Fitzpatrick, Matthias Kaschube
20	Early spontaneous activity displays signatures of the mature orientation preference map Bettina Hein, Sigrid Trägenap, David E Whitney, Gordon B Smith, David Fitzpatrick, Matthias Kaschube
Institute for Cell Biology and Neuroscience, Frankfurt	
21	RNA signature changes in the comorbidity of Alzheimer's Disease and stroke Jan Hofmann, Stefan Simm, Louis-Philippe Bernier, Luis Maia and Jasmin Hefendehl
Institute for Clinical Neuronatomy, Frankfurt	
22	Expression levels of actin-modulating protein Synaptopodin do not affect spine density of dentate granule cells Michael Rietsche, Dinko Smilović, Meike Fellenz, Tassilo Jungenitz, Stephan W. Schwarzacher, Mandy Paul, Andreas Vlachos, Mario Vukšić, Domenico Del Turco and Thomas Deller
23	Distribution of the plasticity-related protein Synaptopodin in mouse organotypic entorhino-hippocampal slice cultures Kenrick Yap, Michael Rietsche, Meike Hick, Tassilo Jungenitz, Stephan Schwarzacher, Maximilian Lenz, Domenico Del Turco, Andreas Vlachos, Thomas Deller
24	Structural homo- and heterosynaptic plasticity of adult newborn rat hippocampal granule cells Tassilo Jungenitz, Marcel Beining, Tijana Radic, Hermann Cuntz, Thomas Deller, Peter Jedlicka and Stephan W. Schwarzacher
Pharmakologisches Institut für Naturwissenschaftler, Frankfurt	
25	Mechanisms of cystein-rich protein 4 dependent pain processing Lea Kennel, Jonas Petersen, Tilman Groß, Cathrin Flauaus, Ruirui Lu, Oliver Drees, Hannes Schmidt, Peter Ruth, Robert Lukowski, Achim Schmidtko
Institute for Clinical Pharmacology, Frankfurt	
26	Parkinson's disease associated pain: the role of deranged bioactive lipids Lucie Valek, Ruth Djaletti, Annett Wilken-Schmitz, Suzana Gispert, Nerea Ferreiros, Georg Auburger, Jörn Lötsch, Irmgard Tegeder
27	Pro-Progranulin therapy in neuropathic pain and neuropsychiatric disorders Vanessa Kraft, Prof. Dr. Irmgard Tegeder, Dr. Katja Schmitz
Institute for Microanatomy and Neurobiology, Mainz	
28	All-optical physiology in the mouse olfactory bulb: few newborn neurons shape odor representation in the local microcircuit Consuelo Fois, Sophie Péron, Nicolás Marichal, Hirofumi Watari, Eduardo Rosales Jubal, Pierre-Hugues Prouvot, Severin Filser, Jochen Herms, Benedikt Berninger, Albrecht Stroh

Institute of Human Genetics, Mainz	
29	<p>Inhibition of histone deacetylation up-regulates the imprinted Kcnk9 gene and improves the behavioral phenotype of a mouse model of Birk-Barel syndrome</p> <p>Alexis Cooper, Jagannath Somanath, Butto Tamer, Matthias Linke, Florian Lesage, Konstantin Radyushkin, Jochen Roeper, Susann Schweiger, Ulrich Zechner</p>
30	<p>MID1 overexpression increases migration velocity</p> <p>Michael Willam, Anabel Schmied, Martin Schüle, Stephan Käseberg, Jennifer Winter, Susanne Strand, Dennis Strand, Susann Schweiger</p>
31	<p>The role of the mTOR pathway in neurodevelopment: the Tsc2 and Cdkl5 mouse models to investigate mTOR dysregulation in correlation to intellectual disability and neuronal homeostasis</p> <p>Jennifer Krummeich, Annabelle Arlt, Konstantin Radyushkin, Jennifer Winter, Susann Schweiger</p>
32	<p>The mTOR pathway orchestrates the expression of gene regulatory networks during neuronal differentiation</p> <p>Martin Schüle, Tamer Butto, Dewi Sri, Jennifer Krummeich, Dennis Strand, Susanne Strand, Susann Schweiger, Jennifer Winter</p>
33	<p>X-inactivation in female human iPSCs- a tool for research on brain development</p> <p>Stephan Käseberg, Radhika Menon, Marisa Karow, Jennifer Krummeich, Eva Weis, Daniela Hanisch, Beate Winner, Jennifer Winter, Benedikt Berninger, Susann Schweiger</p>
34	<p>Regulation of the neuronal migration genes Dcc and Lis1 by micro RNAs</p> <p>Laura Schlichtholz</p>
35	<p>mTOR inhibition prevents impairments in social interaction and cognitive functions of stressed mice</p> <p>Marlon Wendelmuth</p>
Institute of Neurophysiology, Frankfurt	
36	<p>Alternative splicing of KCNIP4 in dopamine midbrain neurons controls the dynamics of learning from reward omission</p> <p>Kauê M. Costa, Jochen Roeper</p>
37	<p>Role of Dopamine in Neural Circuits underlying Working Memory</p> <p>Alena Deuerlein, Sevil Duvarci</p>
38	<p>Optogenetic Silencing using Transgenic VGAT-ChR2 Mice Inhibits Neuronal Firing beyond Target Structures</p> <p>Susanne S. Babl, Brian P. Rummell and Torfi Sigurdsson</p>
39	<p>Investigating the role of dopamine during fear conditioning</p> <p>Ximena Salinas-Hernández, Sebastian Betz, Raffael Kalisch, Torfi Sigurdsson, Sevil Duvarci</p>
Institute of Pathophysiology, Mainz	
40	<p>Rat medial prefrontal neurons signal reward and punishment biases during perceptual decision making</p> <p>Vanya Stoilova</p>
41	<p>The role of the AMPAR-interacting protein FRRS1l in synaptic transmission</p> <p>Hristo Varbanov, Muhammad Aslam, Jakob von Engelhardt</p>
42	<p>Effects of CKAMP59 on AMPA receptor function</p> <p>Dominique Alya Messerle, Benedikt Grünwald, Muhammed Aslam, Jakob von Engelhardt</p>
43	<p>NMDAR subunit composition in the mouse brain</p> <p>Mariel Braunbeck, Michaela K. Müller, Eric Jacobi, Jakob von Engelhardt</p>
44	<p>Wisdom of the crowd vs. power of the few</p> <p>Beate Knauer, Maik Stüttgen</p>
45	<p>Rats flexibly trade off rewarding and punishing action outcomes in an adaptive choice task</p> <p>Krettek KL, Stoilova VV, Stüttgen MC</p>

46	Investigation of the function of CKAMP44 in the lateral geniculate nucleus X. Chen, M. Aslam, T. Gollisch, K. Allen, J. von Engelhardt
47	Comparing the effects of transient and permanent inactivation of barrel cortex on whisker detection psychophysics Werner, Benito, Vandeveld, Luhmann, Stüttgen
48	Role of AAK1 in EGF receptor sorting and recycling and its relevance to PD pathogenesis Johanna Meichsner, Nagarajan Paramasivam, Nafees Ahmad, Matthias Schlesner, Muhammad Aslam, Jakob von Engelhardt
49	Role of CKAMP44 on synaptic function of lateral geniculate nucleus neurons during development D. Wang, X. Chen, M. Aslam, J. Engelhardt
50	Additional rare variant analysis in glucocerebrosidase (gba) associated familial parkinson's disease: Evidence for oligogenic inheritance Saima Naureen
51	A rare truncating variant in RNA stress granule associated protein PABPC4L and its familial cosegregation with hereditary atypical parkinsonism Muhammad Aslam
52	Modulation of periglomerular cell function by CKAMP44 Marcel Kegel, Jakob von Engelhardt
53	The role of CKAMP44 in the visual system Sonia Ruggieri, Xufeng Chen, Kevin Allen, Tim Gollisch, Jakob von Engelhardt
Institute of Physiological Chemistry, Mainz	
54	Forced differentiation in a murine brain tumor model Filippo Calzolari
55	The functions of mouse long ncRNAs in cellular reprogramming Nakajima Chikako
56	Role of Hippo signaling in adult neural stem cell homeostasis Wenqiang Fan
57	Programming of neural progenitors of the adult subependymal zone towards a glutamatergic identity by Neurogenin2 Sophie Péron, Leo M Miyakoshi, Monika S Brill, Felipe Ortega, Marisa Karow, Sergio Gascón, Benedikt Berninger
58	Direct in vivo glia-to-neuron conversion in the post-natal mouse cerebral cortex L. Torres Masjoan, S. Péron, N. Marichal, M. Karow, B. Berninger
59	Influence of post-translational modifications on Ascl1-mediated direct conversion of glia into neurons in vivo Chiara Galante, Sophie Péron, Benedikt Berninger
60	Activity-dependent Gene Regulation in Induced Neurons Nesrin Sharif, Benedikt Berninger
61	Cajal-Retzius cells: Investigations on CB1 function in the reelin signaling system Jennifer Sitta, Beat Lutz, Clementine Hofmann
62	Towards highly specific genetic manipulation of the mouse cannabinoid CB1 receptor using CRISPR/Cas9: cell-type selective and region-specific CB1 knockout in the adult brain and generation of a CB1 point-mutation mouse line Floortje Remmers, Leonid Eshkind, Hans-Christian Pape, Beat Lutz
63	Functional integration of in vivo induced neurons in the mouse cerebral cortex Nicolás Marichal, Sophie Péron, Marisa Karow, Benedikt Berninger
64	Modelling in vivo lineage reprogramming of human glia into neurons in the adult mouse brain Jurado-Arjona J., Gamir-Morralla A., Berninger B.

65	Modeling Opitz BBB/G syndrome in human cerebral organoids Radhika Menon, Stephan Käseberg, Sven Falk, Beate Winner, Jennifer Winter, Susann Schweiger, Benedikt Berninger, Marisa Karow
66	Lipidomic profiling with high spatial resolution in hippocampus of acute epileptic seizure model compared to controls Raissa Lerner, Julia M. Post, Shane R. Ellis, Ron MA Heeren, Beat Lutz, Laura Bindila
67	Antiepileptogenic Effect of Subchronic Palmitoylethanolamide Pre-Treatment in Acute Epilepsy Mouse Model Julia Maria Post, Raissa Lerner, Sebastian Loch, Beat Lutz and Laura Bindila
68	Direct reprogramming of astrocytes into functional neurons in a human in vivo-like tissue context Gamir Morralla A. Jurado-Arjona J. and Berninger B.
69	Overexpression of fatty acid amide hydrolase (FAAH) in hippocampal glutamatergic neurons Annika Beer, Tina Zimmermann, Julia C. Bartsch, Ermelinda Lomazzo, Stephan Guggenhuber, Maren Lange, Laura Bindila, Hans-Christian Pape, Beat Lutz
70	Cannabinoid receptor type 1 (CB1) deficiency in Engrailed 1-positive neurons: Functional studies of the role of CB1 in midbrain development Sarah Baddenhausen
71	Use of a neuronal-activity inducible GFP reporter mouse line to unravel the epigenetic basis of susceptibility and resilience towards long-term consequences of traumatic events Diego Pascual Cuadrado
72	Mechanical Issues During Direct Neuronal Reprogramming Chikako Nakajima-Claverie, Alicia Hanusz, Benedikt Berninger, Marcelo Salierno
73	Understanding the reaction of endogenous progenitor cells to improve self-repair after spinal cord injury Cecilia Maciel, Gabriela Fabbiani, Victoria Falco, María Ines Rehermann, Jimena Fagetti, Adrian Valentin, Cecilia Reali, Omar Trujillo Cenoz and Raúl Russo
74	Engineering neurogenesis for brain repair Aida Platero-Luengo, Benedikt Berninger
Institute of Physiology, Mainz	
75	Dynamic Chloride Changes during Giant Depolarizing Potentials Aniello Lombardi, Heiko J. Luhmann, Werner Kilb
76	Whole brain clearing and imaging of apoptosis in the developing mouse brain Renata Vaz Pandolfo
77	Developmental profile of mTOR-dependent synaptic dysfunction of the medial prefrontal cortex in Tsc2+/- mice D. Bassetti, H.J. Luhmann, S. Kirischuk
78	Single Neuron Dynamics in Developing Cortical Networks in Vitro Davide Warm, Emma Wong, Werner Kilb, Heiko J. Luhmann, Anne Sinning
79	Psychophysical Quantification of Boredom During Monotonous Sensory Stimulation Johannes Seiler, Ohad Dan, Oliver Tüscher, Yonatan Loewenstein, Simon Rumpel
80	Cellular mechanisms underlying changes of inter-hemispheric connectivity following unilateral traumatic brain injury Tanja Novkovic, Qi Wang and Thomas Mittmann
81	Electrical activity controls the spatio-temporal expression of neuronal apoptosis in the developing cerebral cortex Anne Sinning
82	Proteomic alterations of GABAergic Interneurons in the contralateral cortex post traumatic brain injury Natascha Ihbe, Stefan Tenzer, Serge Thal, Thomas Mittmann

83	Layer specific processing in barrel cortex during a whisker-based detection task J.R. Vandavelde, J.W. Yang, H.J. Luhmann and M.C. Stüttgen
84	Synaptic input changes on non fast-spiking interneurons in the contralateral hemisphere after an unilateral traumatic brain injury in mice Matthias Billaud, Thomas Mittmann
85	Chronic imaging of local populations in auditory cortex reveals ongoing recombination of cell assemblies Dominik Aschauer, Jens-Bastian Eppler, Matthias Kaschube, Simon Rumpel
86	Estimation of GABAergic readily releasable vesicles pool size in mouse barrel cortex P Unichenko, S Kirischuk, HJ Luhmann
Institute of Medical Psychology, Frankfurt	
87	Binding between memory representations influences serial dependence Cora Fischer, Stefan Czoschke, Benjamin Peters, Benjamin Rahm, Jochen Kaiser, Christoph Bledowski
Institute of Developmental Biology and Neurobiology, Mainz	
88	Delivery of ribosomes from glia to neurons A. Schnatz, K. Müller, C. Müller, E.-M. Krämer-Albers, C. F. Vogelaar
89	Signaling Between Neurons and NG2 Glia: Synaptic Signal Integration and Local Glial Protein Synthesis Vanessa Hübner, Hatice Yigit, Thomas Mittmann, Jacqueline Trotter
Ernst Strüngmann Institute (ESI) for Neuroscience, Frankfurt	
90	Cell-type specific stimulus encoding and synchronization in awake monkey V1 Irene Onorato, Bruss Lima, Pascal Fries, Wolf Singer, Sergio Neuenschwander, Martin Vinck
91	How do predictive relationships in natural images modulate V1 activity? Cem Uran, Alina Peter, Andreea Lazar, William Barnes, Sylvia van Stijn, Rasmus Roese, Johanna Klon-Lipok, Wolf Singer, Pascal Fries, Martin Vinck
92	Attention and Gamma Oscillation in V1 Liane Klein, Johanna Klon-Lipok, Björn Mattes, Wolf Singer
Brain Imaging Centre, Frankfurt	
93	Goal pursuit despite emotional distraction: Neural-network mechanisms of emotional interference inhibition and their role for resilience Anya Dietrich, Yuranny Cabral Calderin, Edoardo Pinzuti, Daniel Turner
Physiological Genomics, LMU München	
94	Molecular and cellular dissection of pericyte-to-neuron direct reprogramming trajectories Benjamin Lohrer, Radhika Menon, Christine Rummel, Ralf Kühn, Michael Ziller, Benedikt Berninger, Marisa Karow
European Neuroscience Institute, Göttingen	
95	Functional specialization of OFF pathways in the Drosophila visual system Katja Sporar, Madhura Ketkar, Burak Gür, Marvin Seifert and Marion Silies
96	Molecular mechanism that shape ON-pathway responses in the Drosophila visual system Sebastian Molina Obando, Juan Felipe Vargas, Marion Silies
Department of Anesthesiology, Erlangen	
97	Importance of metabolic and activity parameters for behavioral phenotyping- a survey in inbred mouse strains Christine König, Stephan von Hörsten and Katharina Zimmermann