

<b>Buchmann Institute for Molecular Life Sciences, Frankfurt</b>	
<b>1</b>	<b>Optogenetic analysis of the role of AS-neurons in locomotion of <i>Caenorhabditis elegans</i></b> Olga Bazanova, Oleg Tolstenkov, Amelie Bergs, Alexander Gottschalk
<b>2</b>	<b>Fast optogenetic cAMP modulation of neurotransmission via neuropeptide signals &amp; synaptic vesicle loading</b> Wagner Steuer Costa, Szi-chieh Yu, Jana Liewald, Alexander Gottschalk
<b>3</b>	<b>The cellular source of VEGF secretion and its effect on dendritic development</b> LaShae Nicholson and Amparo Acker-Palmer
<b>4</b>	<b>Molecular mechanisms of dendritic formation and maintenance</b> Diane Bissen, Julia Geiger, Eva Harde, Sylvia Pfennig, Franziska Foss and Amparo Acker-Palmer
<b>5</b>	<b>High resolution structure of cortical cell-cell interactions at the neurovascular unit</b> Laura Mohr, Anjali Gour, Kevin Boergens, Moritz Helmstaedter and Amparo Acker-Palmer
<b>6</b>	<b>GRIP1, ephrinB2 and ApoER2 interaction modulates neuronal activity</b> Franziska Foss, Sylvia Pfennig, Eva Harde, Diane Bissen, Julia Geiger, Marta Segarra and Amparo Acker-Palmer
<b>7</b>	<b>Unveiling the role of Nrp1a in the Zebrafish Optic Tectum</b> Beatriz Furones Cuadrado, Bettina Kirchmaier, Yvonne Kölsch, Herwig Baier, Amparo Acker-Palmer
<b>Clinic for Neurology, Mainz</b>	
<b>8</b>	<b>Connectivity analysis of network targets for deep brain stimulation patients with Parkinson's disease</b> N. Koirala, V. Fleischer, M. Glaser, M. Muthuraman, S. Groppa
<b>9</b>	<b>Antigen-presenting cells as therapeutic target in Multiple sclerosis</b> Felix Lüssi, Frauke Zipp
<b>10</b>	<b>The role of Gdap1 in mitochondrial dynamics and function studied in Charcot-Marie-Tooth disease patient iPSC derived motor neurons</b> Pouya A, Pfeiffer A, Dolga A, Schneider J, Wolf C, and Methner A
<b>11</b>	<b>Grey matter structural and connectivity fingerprints of facial hyperkinesias</b> Chirumamilla VC <sup>1,2</sup> , Fleischer V <sup>1,2</sup> , Muthuraman M <sup>1,2</sup> , Groppa S <sup>1,2</sup> 1Department of Neurology, Mainz; 2Neuroimaging Center Mainz (NIC),
<b>12</b>	<b>Enhanced and prolonged Holter ECG-monitoring in acute ischemic stroke – the FIND-AFRANDOMISED-Trial</b> T. Uphaus, S. Gröschel, A. Grings, K. Gröschel
<b>13</b>	<b>EGFL7: a novel player in Multiple Sclerosis implicated in CNS infiltration</b> T. Uphaus, C. Larochelle, M. Schmidt, F. Zipp
<b>14</b>	<b>Activation and control of the innate immune response in the tibia fracture mouse model for Complex Regional Pain Syndrome (CRPS)</b> A. Ibrahim, F. Escolano Lozano, S. Hirsch, T. Schlereth, F. Birklein
<b>15</b>	<b>Posttraumatic inflammation after tibia fracture in mice</b> Laura Krämer, Silke Hirsch, Frank Birklein
<b>16</b>	<b>Targeting the kinome in neuroimmune interface</b> Ulrike Bübler*, Katharina Schulenburg*, Hajime Yurugi, Bernd Thiede, Frauke Zipp and Krishnaraj Rajalingam *Equally contributing
<b>17</b>	<b>Translating IL-4 for treating chronic multiple sclerosis - axon repair in the chronic phase of neuroinflammation</b> Christina Francisca Vogelaar, Shibajee Mandal, Steffen Lerch, Frauke Zipp
<b>18</b>	<b>Engulfment of living Th17 cells by microglia within the brain without subsequent cell death</b> Beatrice Wasser*, Dirk Luchtman*, Kerstin Robohm, Esther Witsch, Frauke Zipp*, Stefan Bittner* *Equally contributing
<b>19</b>	<b>Th17 induced neuronal injury is initiated by KV1.3-mediated glutamate release</b> Katharina Birkner, Dirk Luchtman, Tobias Ruck, Sven G. Meuth, Jochen Roeper, Frauke Zipp and Stefan Bittner

<b>Clinic for Neurology, Frankfurt</b>	
<b>20</b>	<b>EEG as biomarker in experimental epileptogenesis</b> Valentin Neubert
<b>21</b>	<b>Anti-epileptogenic and anticonvulsive effects of deep brain stimulation in experimental epilepsy</b> Lara Costard
<b>22</b>	<b>Expression of Toll-like Receptors 4 and 9 in rodent models of acquired epilepsy</b> Chinmaya Sadangi
<b>23</b>	<b>Selection and validation of reference genes in rat models of temporal lobe epilepsy</b> Chinmaya Sadangi
<b>Neuroimaging Center, Mainz</b>	
<b>24</b>	<b>Effects of tDCS on mesoprefrontal connectivity</b> Benjamin Meyer, Caroline Mann, Kenneth Yuen, Raffael Kalisch
<b>25</b>	<b>Good made better: L-DOPA reduces return of fear after successful within-session extinction</b> Gerlicher, AMV, Tüscher, O & Kalisch, R
<b>26</b>	<b>Design and validation of a human fMRI battery for longitudinal stress resilience studies</b> Miriam Kampa, Kenneth Yuen, Victor Saase, Alexandra Sebastian, Oliver Tüscher, Michele Wessa, Raffael Kalisch: Resilience Project (MARP)
<b>27</b>	<b>Searching for the Pavlovian trace: Pattern analyses reveal separate experience-based fear memories in the human right amygdala</b> Senne Braem, Jan De Houwer, Jelle Demanet, Kenneth S. L. Yuen, Raffael Kalisch, &
<b>28</b>	<b>Mechanisms of placebo anxiolysis</b> Benjamin Meyer, Kenneth Yuen, Raffael Kalisch
<b>Department of Psychiatry and Psychotherapy, Mainz</b>	
<b>29</b>	<b>The motor inhibitory network: a comparison of fMRI and frequency specific MEG analysis</b> Michael Schaum, Alexandra Sebastian, Jonathan Neuhoff, Klaus Lieb, Arian Mobsacher, Pascal Fries, Michael Wibral, Oliver Tüscher, Patrick Jung
<b>30</b>	<b>Novel compounds to study the role of the delta subunit in GABAA receptors</b> Kirsten Yakoub
<b>31</b>	<b>Neurobiological mechanisms shaping early antidepressant treatment response</b> Herzog DP, Lieb K, Müller MB
<b>32</b>	<b>The neurobiological mechanisms of stress inoculation in the adult mouse</b> Sarah Ayash
<b>33</b>	<b>On the role of DRR1 in shaping resilience</b> Tanja Jene, MA van der Kooij, MB Müller
<b>34</b>	<b>Comparative analysis of Alzheimer's disease relevant gene expression in CNS and enteric nervous system (ENS) of wild type and 5xFAD mice</b> Nicolai Stoye, Jasmin Clasohm, Dr. Holger Rabe, Prof. Dr. Karl-Herbert Schäfer, PD. Dr. Kristina Endres
<b>35</b>	<b>Establishment of a 5'UTR luciferase reporter gene assay for selected human longevity factors</b> Roman Eying
<b>36</b>	<b>Molecular Determinants of hP2X7 Receptor Function</b> Han-Wen Xue, Valerie Ames, Steven Zenner and Hartmut Lüddens
<b>Clinic for Psychosomatic Medicine and Psychotherapy, Mainz</b>	
<b>37</b>	<b>Methylation of the Oxytocin Receptor Gene in Clinically Depressed Patients Compared to Controls</b> Reiner, Iris; Van IJzendoorn Marinus H.; Bakermans-Kranenburg Marian J.; Bleich, Stefan; Beutel, Manfred; Frieling, Helge;
<b>38</b>	<b>Interaction between OXTR rs53576 Genotype and Adult Attachment in depressed females.</b> Reiner, Iris; Frieling, Helge; Beutel, Manfred.

<b>Department of Child and Adolescent Psychiatry, Psychosomatics and Psychotherapy, Frankfurt</b>	
39	<b>Genome-wide ASD phenotype-genotypeassociation in large data sets</b> Afsheen Yousaf
40	<b>Gene x environmental interactions of autism associated variants in ADHD</b> Regina Waltes, Andreas G. Chiocchetti, Timo Herlt, Thomas Lempp, Jobst Meyer, Christine M. Freitag
41	<b>Functional analysis of autism genes in neuronal cell models</b> Denise Haslinger, Silvia Lindlar, Regina Waltes, Ines Eckhardt, Afsheen Yousaf, Simone Fulda, Christine M. Freitag, Andreas G. Chiocchetti
42	<b>Modality-specific electrophysiological traces of visual short-term sensory memory show sensitiviy to stimulus probabilities</b> Althen, H., Laucht, M., Brandeis, D., Bender, S.
<b>Department of Psychiatry, Frankfurt</b>	
43	<b>Disrupting postsynaptic density protein 95/discs large 1/zona occcludens 1 (PDZ)-interactions of neuronal nitric oxide synthase (nNOS): behavioural consequences</b> Florian Freudenberg, Esin Candemir, Aet O'Leary, Lena Grünwald, Miriam Schneider, Andreas Reif
44	<b>Improved correspondence of working memory networks in patients with schizophrenia after macro-anatomical cortical alignment</b> Robert A Bittner, David EJ Linden, Anna Kolomiets, Martin Frost, Rainer Goebel, Corinna Haenschel
<b>Department of Nuclear Medicine, Mainz</b>	
45	<b>Effects of THC on glucose metabolism in the rat brain: an [18F]FDG PET study</b> I. Miederer, K. Uebbing, J. Röhrich, S. Maus, N. Bausbacher, K. Krauter, V. Weyer, B. Lutz, R. Urban, M. Schreckenberger
<b>DZNE Bonn / DKFZ Heidelberg</b>	
46	<b>NMDA receptors mediate Abeta toxicity in dentate gyrus granule cells</b> Michaela Müller, Eric Jacobi, Jakob von Engelhardt
47	<b>PRRT2 in the CNS (vorläufiger Titel)</b> Eric Jacobi, Muhammad Aslam, Jakob von Engelhardt
48	<b>Influence of CKAMP44 on AMPA receptor number and function in relay neurons of the lateral geniculate nucleus</b> Xufeng Chen, Muhammad Aslam, Jakob von Engelhardt
<b>Edinger Institute, Frankfurt</b>	
49	<b>Posttranslational modification regulates Meis2 nuclear localization to promote neuronal differentiation of adult SVZ progenitor cells</b> Jasmine Schramm, Tanja Müller, Marie Anders-Maurer, Britta Moyo Grebbin, Ann-Christin Hau, Christian Behrends and Dorothea Schulte
50	<b>Pbx1 is required for neurogenic instead of oligodendroglionic differentiation in the adult SVZ</b> Britta Moyo Grebbin, Jens Michael Hanuske, Ann-Christin Hau, Anja Groß, Marie Anders-Maurer, Mathew Koss, Licia Selleri and Dorothea Schulte
<b>Frankfurt Institute for Advanced Studies</b>	
51	<b>Stability of discrete cortical representations in the presence of synaptic turnove</b> Eppler, Jens-Bastian
52	<b>High-resolution analysis of camouflage patterns in freely moving cuttlefish</b> Philipp Hülsdunk, Jessica Eberle, Theodosia Woo, Samuel Reiter, Gilles Laurent, Matthias Kaschube
53	<b>Statistical analysis of spontaneous activity in ferrets</b> Jonas Racky, Bettina Hein, Philipp Hülsdunk, Gordon B Smith, David E Whitney, David Fitzpatrick, Matthias Kaschube

<b>Institute for Mathematics, Frankfurt</b>	
54	<b>Contribution of imprecise phases in a stochastic spiking neuron model</b> Benjamin Straub and Gaby Schneider
55	<b>Joint pausiness in parallel spike trains</b> Matthias Gärtner, Sevil Duvarci, Jochen Roeper, Gaby Schneider
<b>Institute for Cell Biology and Neuroscience, Frankfurt</b>	
56	<b>Contralateral White Noise Selectively Changes Human Performance in FM-Discrimination Task</b> Riegel-Betz, Ann-Kathrin
57	<b>Influences of temporal and spectral characteristics of acoustic modulatory stimuli on the startle response in rats and gerbils</b> Natalie Steube, Manuela Nowotny, Peter K. D. Pilz, Bernhard H. Gaese
58	<b>Sound specific right-left asymmetry in the cortical processing of communication calls before and after cortical silencing with Muscimol</b> Markus Schaefer, Julio C. Hechavarria, Manfred Kössl
59	<b>Benefits of cortical forward suppression for coding natural echolocation streams in bats</b> M. Jerome Beetz, Julio C. Hechavarria, Manfred Kössl
60	<b>Neural representation of amplitude modulated sounds in the bat auditory cortex</b> Lisa Martin, Jerome Beetz, Manfred Kössl, Julio C. Hechavarria
<b>Institute for Clinical Neuroanatomy, Frankfurt</b>	
61	<b>Spines slow down dendritic chloride diffusion and affect short-term ionic plasticity of GABAergic inhibition</b> Namrata Mohapatra, Jan Tønnesen, Andreas Vlachos, Thomas Kuner, Thomas Deller, U. Valentin Nägerl, Fidel Santamaria & Peter Jedlicka
62	<b>Live imaging of postnatally born dentate granule cells in organotypic entorhino-hippocampal slice cultures reveals highly dynamic structural maturation and spine formation</b> Tijana Radic, Mathias Singer, Tassilo Jungeinitz, Hermann Cuntz, Andreas Vlachos, Thomas Deller and Stephan W. Schwarzacher
63	<b>Intracellular injection of fluorescent dyes: Visualization of neuronal cellular structures in mouse mutants</b> Michael Rietsche, Meike Hick, Thomas Deller
64	<b>Homeostatic synaptic plasticity of excitatory but not inhibitory synapses in postnatally maturing hippocampal dentate granule cells in vitro</b> Andreas Strehl, Tijana Radic, Christos Galanis, Stephan Schwarzacher, Thomas Deller, Andreas Vlachos
65	<b>Lipopolysaccharide (LPS)-induced neuroinflammation alters synaptopodin expression in mouse entorhino-hippocampal slice cultures</b> Silvia Rodriguez Rozada, Andreas Strehl, Maximilian Lenz, Thomas Deller, Nicola Maggio, Andreas Vlachos
66	<b>Repetitive magnetic stimulation (rMS) of mouse and rat hippocampal slice cultures reveals distinct stimulation intensity thresholds for the induction of synaptic plasticity</b> Christos Galanis, Maximilian Lenz, Thomas Deller, Andreas Vlachos
67	<b>Computational modeling of heterosynaptic plasticity in the hippocampus</b> Peter Jedlicka <sup>1</sup> , Lubica Benuskova <sup>2</sup> , Wickliffe C. Abraham <sup>3</sup> <small><sup>1</sup> Institute of Clinical Neuroanatomy, Neuroscience Center, Goethe-University, Frankfurt  <sup>2</sup> Department of Computer Science and Brain Health Research Centre, University of Otago, Dunedin, New Zealand  <sup>3</sup> Department of Psychology and Brain Health Research Centre, University of Otago, Dunedin, New Zealand</small>
68	<b>A consistent electrophysiological model of dentate granule cells based on pharmacology to study adult-born neurons</b> Marcel Beining, Lucas A. Mongiat, Stephan W. Schwarzacher, Hermann Cuntz, Peter Jedlicka
69	<b>Dynamic structural development, activity-related dendritic plasticity and homo- and heterosynaptic plasticity of adult newborn dentate granule cells in the rat hippocampus</b> Tassilo Jungeinitz, Marcel Beining, Tijana Radic, Thomas Deller, Hermann Cuntz, Peter Jedlicka, Stephan W. Schwarzacher

<b>Institute for Clinical Pharmacology, Frankfurt</b>	
70	<b>Peripheral nerve injury triggers attention deficit and depression-like behavior in progranulin deficient mice</b> Stefanie Hardt, Juliana Heidler, Boris Albuquerque, Annett Häussler, Ilka Wittig, Irmgard Tegeder
71	<b>Progranulin acts as a NOTCH ligand and facilitates nerve regrowth and reinnervation</b> Christine Altmann, Stefanie Hardt, Annett Häußler, Verica Vasic, Mirko Schmidt, Irmgard Tegeder
<b>Institute for Microanatomy and Neurobiology, Mainz</b>	
72	<b>Exploring the functional impact of newborn neurons in the mouse olfactory bulb: combining optogenetics and two photon calcium imaging</b> Consuelo Fois
73	<b>Attention and Attenuation: Cognition and Stress Regulation in the Rhetoric of Repetition</b> Pascal Nicklas
74	<b>Role of PRG-2 in brain development:Broad behavioral characterization, intrinsic signal optical imaging and in-vivo fiber tracing</b> Sahani Sadhna, Radyushkin Konstatin, Vogt Johannes, Nitsch Robert
75	<b>Impact of chronic neuroinflammation on microcircuit activity in mouse visual cortex in vivo using two-photon calcium imaging</b> Gautam Kumar Pramanik, Erik Elwardt, Eduardo Rosales, Zeke Barger, Dirk Luchtmann, Tanja Kuhlmann, Frauke Zipp, Albrecht Stroh
76	<b>PRG-1 regulates spine density and memory via intracellular PP2A/<math>\beta</math>1-integrin signaling</b> Xingfeng Liu, Jisen Huai, Heiko Endle, Leslie Schlüter, Wei Fan, Yunbo Li, Sebastian Richers, Hajime Yurugi, Krishnaraj Rajalingam, Haichao Ji, Hong Cheng, Benjamin Rister, Guilherme Horta, Jan Baumgart, Hendrik Berger, Gregor Laube, Ulrich Schmitt, Michael J. Schmeisser, Tobias M. Boeckers, Thomas Deller, Andreas Vlachos, Stefan Tenzer, Robert Nitsch, and Johannes Vogt
77	<b>Neurovascular EGFL7 regulates subventricular neural stem cells, neurogenesis and olfactory perception</b> Frank Bicker, Verica Vasic, Guilherme Horta, Felipe Ortega, Hendrik Nolte, Atria Kavanifar, Stefanie Keller, Nevenka Dudvarski Stankovic, Snjezana Mikulicic, Patrick N. Harter, Tobias Bäuerle, Jens Hartwig, Konstantin Radyushkin, Jan Baumgart, Lavinia Alberi, Marcus Krüger, Benedikt Berninger, Mirko HH Schmidt
78	<b>tba</b> Guilherme Horta
79	<b>EGFL7 Modulates Neural Homeostasis in the Hippocampus</b> Verica Vasic, Frank Bicker, Jan Baumgart, Konstantin Radyushkin, Jens Hartwig, Stephan W. Schwarzacher and Mirko H.H. Schmidt
80	<b>The origin of axonal ribosomes</b> Kerstin Müller, Christina F. Vogelaar
<b>Institute for Molecular Cell Biology, Mainz</b>	
81	<b>Dynamic composition of Myelin Basic Protein mRNA-associated protein complexes during oxidative stress</b> Fabian Kaiser*, Martin Lind*, Peter Hoch-Kraft, Constantin Gonsior, Falk Butter, Jacqueline Trotter *equal contribution
82	<b>Vanishing white matter mutations and the oligodendroglial stress response</b> Constantin Gonsior, Odile Boespflug-Tanguy, Bertrand Pain, Jacqueline Trotter
83	<b>Characterization of small non-coding RNA associated to oligodendroglial exosomes</b> Hannah Mende, Martin Auber, Kerstin Miebach and Eva-Maria Krämer-Albers
84	<b>Analysis of small RNA in oligodendroglial exosomes</b> Martin Auber, Oliver Drechsel, Dominik Fröhlich, Carsten Frühbeis, Eva-Maria Krämer-Albers

<b>Institute of Human Genetics, Mainz</b>	
85	<b>The ASD-Rett syndrome protein MeCP2 regulates N-Cadherin</b> Martin Schüle, Luciano Rago, Nikolai Schmarowski, Dennis Strand, Susanne Strand, Robert Nitsch, Susann Schweiger, Jennifer Winter
86	<b>Resilience formation against chronic stress:the Tsc2KO mouse model to study the involvement of the mTOR pathway</b> Annabelle Arlt1, Konstantin Radyushkin2, Jennifer Winter1, Susann Schweiger1 1Institute for Human Genetics, University Medical Centre Mainz,Germany 2Mouse Behaviour Outcome Unit, Johannes Gutenberg University Mainz,Germany
87	<b>Targeted next-generation sequencing in search for monogenic causes of intellectual disability in children</b> Stefan Diederich, Katalin Komlosi, Desiree Lucia Fend-Guella, Oliver Bartsch, Hao Hu, Thomas F. Wienker, H. Hilger Ropers, Ulrich Zechner, Susann Schweiger
88	<b>Epigenetic Programming of the Brain by Early Life Stress</b> Desiree Fend-Guella, Amy Forster, Matthias Linke, Marianne Müller, Michael van der Kooij, Benjamin G Gunn, Delia Belelli, Jeremy J Lambert, Susann Schweiger, Ulrich Zechner
89	<b>Characterization of the expression of the imprinted Kcnk9-gene in specific brain regions of mice</b> Alexis Cooper, Matthias Linke, Stefan Diederich, Tanja Knopp, Florian Lesage, Susann Schweiger, Ulrich Zechner
90	<b>The RBFOX1 gene: ASD-associated CNVs affect alternative promoters that drive stage specific expression in the mouse brain</b> Sonia Casanovas Palau
91	<b>Old friends on new paths: metformin as an early phase treatment in Huntington's Disease?</b> Michael Willam, Konstantin Radyushkin, Jennifer Winter, Sybille Krauß, Rosamund Langston, Olivia Monteiro, Changwei Chen, Teresa Schacht, Axel Methner, Susann Schweiger
92	<b>IPS cell based human models for neuronal dysfunction in Opitz BBB/G syndrome</b> Stephan Käseberg, Jennifer Krummeich, Eva Weis, Beate Winner, Sybille Krauss, Oliver Brüstle, Benedikt Berninger, Susanne Strand, Dennis Strand, Jennifer Winter, Susann Schweiger
<b>Institute of Neurophysiology, Frankfurt</b>	
93	<b>Differences in dorsal and ventral mPFC neuronal activity during fear expression and extinction</b> Sebastian F. Betz and Torfi Sigurdsson
94	<b>Attenuation of responses to self-generated sounds in auditory cortical neurons</b> Brian Rummell, Jan Klee, Torfi Sigurdsson
95	<b>Impact of optogenetic mPFC silencing on spatial working memory</b> Pascal Vogel, Sevil Duvarci, Torfi Sigurdsson
96	<b>Differences in fear conditioning and extinction in two C57BL6 strains</b> Ximena Salinas-Hernández, Sevil Duvarci
<b>Institute of Pathobiochemistry, Mainz</b>	
97	<b>APP-Dimers – a new perspective on a well-known Protein</b> Uta-Mareike Herr
<b>Institute of Pathophysiology, Mainz</b>	
98	<b>Adaptation to changes of reinforcement contingencies in an auditory discrimination task in rats</b> Evelyn Rieber, Vanya Stoilova, Maik Stütgen
99	<b>Integration of appetitive and aversive action outcomes in rat prefrontal cortex in a perceptual decision task</b> Stoilova V, Rieber E, Stütgen MC

<b>Institute of Physiological Chemistry, Mainz</b>	
100	<b>Simultaneous extraction of bioactive lipids and RNA for lipidomic and transcriptomic profiling in mouse brain punches</b> Raissa Lerner, Julia Post, Beat Lutz, Laura Bindila
101	<b>Investigation of lipid mediators as potential antiepileptic drugs in epileptic seizure mouse model</b> Julia Post, Raissa Lerner, Sebastian Loch, Beat Lutz and Laura Bindila
102	<b>Breaking down and reconstruction of behavior by genetic means: necessary and sufficient functions of the cannabinoid CB1 receptor</b> Floortje Remmers, Vanessa Enk, Martin Häring, Maren Lange, Thiemann Daldrup, Sabine Ruehle, Krisztina Monory, Giovanni Marsicano, Hans-Christian Pape, Beat Lutz
103	<b>Cell type-specific CB1 receptor protein complexes in glutamatergic neurons and GABAergic interneurons in the mouse hippocampus</b> Tobias Mattheus, Katharina Kukla, Stefan Tenzer, Beat Lutz
104	<b>Postnatal endocannabinoid-mediated modulation of LTP</b> Sebastian Loch, Susann Ludewig, Martin Polack, Anita Remus, Martin Korte, Beat Lutz, Krisztina Monory
105	<b>Dichotomic hippocampal transcriptome after GABAergic versus glutamatergic deletion of CB1</b> Diego Pascual Cuadrado, Abhijeet Pataskar, Vijay K. Tiwari and Beat Lutz
106	<b>Gadd45a controls the stability of memory-related genes in the hippocampus during contextual learning</b> Aparisi Rey A, Gierl MS, Sharopov S, Karaulanov E, Guggenhuber S, Remmers F, Gruhn WH, Kilb W, Conrad A, Luhmann HJ, Niehrs C, Lutz B.
107	<b>Lipid signaling by the endocannabinoid anandamide in resilience to stress-induced behavioral dysregulation</b> Tevosian Margaryta, Dr. Konstantin Radyushkin, Beat Lutz
108	<b>The function of long intervening ncRNA in forced neurogenesis and brain development</b> Chikako Nakajima, Sudhir Thakurela, Vijay K. Tiwari, Benedikt Berninger
109	<b>Braincubators: using cerebral organoids as a platform for reprogramming</b> Radhika Menon
110	<b>Somal translocation of NPCs recapitulated in vitro by orthogonal bioactivity on micropatterned surfaces</b> Shifang Zhao, Wenqiang Fan, Del Campo Aranzazu, Benedikt Berninger, Marcelo Saliero
111	<b>Conversion of mouse fibroblast into neurons by small molecule</b> Atria Kavyanifar, Chikako Nakajima, Benedikt Berninger
112	<b>Developing a strategy for studying the clonal origin of astrocytes reprogrammed into neurons in vivo</b> Chiara Galante
113	<b>Conditional deletion of CB1 receptor alters neural precursor proliferation and affects neurogenesis-dependent behavior and synaptic plasticity</b> Tina Zimmermann, Mattia Maroso, Susann Ludewig, Ivan Soltesz, Martin Korte, Beat Lutz, Julia Leschik
114	<b>The role of fatty acid amide hydrolase (FAAH) in hippocampal glutamatergic neurons and its implication on endocannabinoid-mediated behavior</b> Annika Beer, Tina Zimmermann, Julia Constance Bartsch, Laura Bindila, Hans-Christian Pape and Beat Lutz
115	<b>Stress-induced epigenetic dysregulation in neuropeptide-Y and endocannabinoid systems in the mouse cingulate cortex</b> Ermelinda Lomazzo, Florian König, Leila Abassi, Beat Lutz
116	<b>Engrailed 1 specific knockout of Cannabinoid receptor type 1 (CB1): Functional studies of the role of CB1 in midbrain development</b> Sarah Baddenhausen, Beat Lutz und Clementine Hofmann
117	<b>Clonal lineage tracing and mathematical modeling shed light on the cellular dynamics underlying declining adult OB neurogenesis during aging</b> Filippo Calzolari*, Lisa Bast*, Michael Strasser, Magdalena Götz, Carsten Marr+, Jovica Ninkovic+. <small>Institute of Physiological Chemistry, Mainz; ISF-N Helmholtz Zentrum Muenchen* Co-first authorship; + Shared senior authorship</small>

<b>Institute of Physiology, Mainz</b>	
118	<b>Chronic calcium imaging of neuronal ensembles in the mouse auditory cortex</b> Dominik Aschauer
119	<b>Early homeostatic changes of neuronal activity in somatosensory cortex of mice after traumatic brain injury</b> Florie Le Prieult 1, Barbara Imbrosci 1, Serge Thal 2, Kristin Engelhard 2, Thomas Mittmann 1 1, Inst. for Physiology; 2, Department of Anesthesiology
120	<b>With protein nanocarriers to the brain</b> Pierpaolo Moscariello, David Y. W. Ng, Malin Insa Jansen, Tanja Weil, Heiko J. Luhmann and Jana Hedrich.
121	<b>Biopolymer functionalized Nanodiamonds: a nanotheranostic platform to target the brain</b> Pierpaolo Moscariello, David Y. W. Ng, Malin Insa Jansen, Tanja Weil, Heiko J. Luhmann and Jana Hedrich
122	<b>In vivo identification of cell type specific regulatory elements based on an AAV/ STARR-seq combinatorial approach</b> Dominik Aschauer, Eike Kienle, Simon Rumpel
123	<b>A novel psychophysical paradigm to investigate whisker-related sensory processing</b> Jens Vandevelde, Jenq-Wei Yang, Heiko J. Luhmann, Maik Stützgen
124	<b>NKCC1-mediated GABAergic signaling promotes postnatal cell death in neocortical Cajal-Retzius cells</b> O Blanquie, HJ Luhmann and A Sinnig
125	<b>Early repetitive synchronized activity modulates neuronal apoptosis in a region- and age-dependent manner in the mouse cerebral cortex</b> O Blanquie, Sharopov S, Yang JW, Kilb W, HJ Luhmann and A Sinnig
126	<b>Role of NO-GC1 signaling in pyramidal neurons of the somatosensory cortex in mice</b> Qi Wang, Doris Koesling, Thomas Mittmann
127	<b>Evaluation of combined use of optogenetics and genetically encoded fluorescence imaging in dissociated cortical cultures plated on micro-electrode arrays</b> E Wong, HJ Luhmann and A Sinnig
128	<b>Intracellular ion signaling influences MBP synthesis in OPCs</b> Jens Hammann, Maike Friess, Petr Unichenko, Heiko J. Luhmann, Robin White and Sergei Kirischuk
<b>Institute of Psychology, Frankfurt</b>	
129	<b>Semantics of scenes and sentences: shared neural patterns as revealed by MVPA</b> Edvard Aslak Heikel, Dejan Draschkow, Christian Fiebach, Melissa Vo, Jona Sassenhagen
130	<b>Context- and knowledge-based predictions in visual word recognition: A MEG study investigating the interaction of pseudoword familiarization and repetition</b> Eisenhauer, Susanne
<b>Max Planck Institute for Brain Research, Frankfurt</b>	
131	<b>Diversity of cell types in reptilian cortex</b> Alessandro Coatti
132	<b>Genetic and electrophysiological dissection of layer 1 interneurons</b> Karzan Muhammad, Rogier Poorthuis, Ivo Spiegel and Johannes Letzkus
133	<b>Inference of synaptic connectivity and input profiles from contrast invariant firing rates in a recurrent neural field model</b> Nataliya Kraynyukova, Tatjana Tchumatchenko