

<b>Institute of Pathophysiology, Mainz</b>	
<b>1</b>	<b>CKAMP44 modulates AMPA-mediated excitotoxicity?</b> Benedikt Grünewald
<b>2</b>	<b>AMPA receptor auxiliary subunits of the CKAMP family and their role in olfactory bulb function</b> Riddhi Petkar, Eric Jacobi, Jakob von Engelhardt
<b>3</b>	<b>Lysosomes and Synapses: Investigating the role of lysosomal protein CLN3 in synaptic function and homeostasis</b> Masood Ahmad Wani
<b>4</b>	<b>Differential involvement of dorsomedial frontal cortex in processing reward and punishment feedback in perceptual decision-making.</b> F.L. de la Cuesta, V.E. de Moura Oliveira, Jan-Hendrik Blanke, Frank Jäkel, Maik C. Stüttgen
<b>Institute of Physiology, Mainz</b>	
<b>5</b>	<b>Functional Implications of Traumatic Brain Injury-Induced Changes in Serine/Threonine Kinase Activity &amp; Peptide Phosphorylation in Mouse Cortex</b> Celine Gallagher, Thomas Mittmann
<b>6</b>	<b>Spontaneous mesoscale calcium dynamics reflect the development of the modular functional architecture of the mouse cortex</b> Warm D, Bassetti D, Gellèrt L, Yang JW, Luhmann HJ, Sinning A
<b>7</b>	<b>The role of GABAergic inputs and chloride transporters in the activation and death of different Cajal-Retzius neuron subpopulations</b> F. De Rosa , A. Abusaada , H.J. Luhmann , W. Kilb , A. Sinning
<b>8</b>	<b>Functional and morphological alterations of parvalbumin-positive interneurons in the somatosensory cortex of mice in the early phase after traumatic brain injury</b> Qiang Wang, Werner Kilb and Thomas Mittmann
<b>9</b>	<b>Functional Maturation and Network Integration of Developing Vasoactive Intestinal Polypeptide (VIP)- Expressing GABAergic Interneurons in Mouse Somatosensory Cortex</b> Clara A. Simacek, Sergei Kirischuk, Thomas Mittmann
<b>10</b>	<b>Developmental Profiling of Transient GABAergic Synapses in the Sensory Cortex of Early Postnatal Mice</b> Ahd Abusaada, Federico De Rosa, Heiko J. Luhmann, Werner Kilb and Anne Sinning
<b>Institute of Pathobiochemistry, Mainz</b>	
<b>11</b>	<b>From Signals to Proteins: a Multifaceted Approach to Uncover Meprin Beta Activity in the Brain</b> Maximilian Keller, Celine Gallagher, Thomas Mittmann and Claus Pietrzik
<b>Institute of Physiological Chemistry, Mainz</b>	
<b>12</b>	<b>Impact of the reactive microenvironment on glia-derived neurons in the injured adult mouse cortex</b> Catarina Sa Fernandes, Sophie Peron, Filippo Calzolari, Sydney Leaman, Benedikt Berninger
<b>13</b>	<b>Mef2c promotes the maturation of Ascl1-induced basket cell-like reprogrammed neurons</b> Filippo Calzolari and Benedikt Berninger

<b>Institute for Clinical Neuronatomy, Frankfurt</b>	
<b>14</b>	<b>Time Lapse Imaging of single granule cells in the mouse dentate gyrus after entorhinal denervation in vitro - identification of cellular response types to denervation</b> Davide Greco, Thomas Deller, Alexander Drakew
<b>15</b>	<b>Postnatally born hippocampal granule cells exhibit a phase of high dendritic dynamics during maturation and synaptic integration</b> Sevastiadi A, Kuchler S, Kirscht S, Frey L, Singer M, Radic T, Jungenitz T, Deller T, Schwarzacher SW
<b>16</b>	<b>The Effects of AMPA Receptor Activation on Dendritic Spine Density</b> Yilmaz Arda Ates, Tijana Radic, and Thomas Deller
<b>Institute of Anatomy, Mainz</b>	
<b>17</b>	<b>Microglia are necessary for correct development of inhibitory synapses in the corticolimbic regions during the first two weeks of life in male mice</b> Federico Rotondo, Dilja Krueger-Burg
<b>18</b>	<b>VIP expressing neurons in neuropsychiatrically relevant behaviours</b> Taylor Marina, Dilja Krueger-Burg
<b>19</b>	<b>Analysis of the function of Nlgn2 at different GABAergic synapse subtypes in the medial prefrontal cortex</b> Tamara Ritter and Dilja Krüger-Burg
<b>20</b>	<b>Neuroigin-2 differentially regulates innate and conditioned defensive behaviors through distinct amygdala circuits</b> Ali H, Marth L, Cuadrado DP, Taylor M, Babaev O, Wenger S, Schmeisser MJ, Ehrenreich H, Brose N, Krueger-Burg D
<b>Institute of Neurophysiology, Frankfurt</b>	
<b>21</b>	<b>Dopamine Prediction Error Signaling in a Unique Nigrostriatal Circuit is Critical for Associative Fear Learning</b> Daphne Zafiri, Ximena I. Salinas-Hernández, Eloah dos Santos De Biasi, Leonor Rebelo, Sevil Duvarci
<b>Institute of Cell Biology and Neuroscience, Frankfurt</b>	
<b>22</b>	<b>Application of tissue clearing in the study of cerebellar foliation development</b> Jimena Redondo Nectalí, Marta Parrilla Monge, Stephan Junek, Christine Molenda, Marta Segarra, Amparo Acker-Palmer
<b>23</b>	<b>Vascular FLRT2 regulates venous-mediated angiogenic expansion and CNS barrierogenesis</b> Peguera B*, Llaó-Cid C*, Kobialka P, Decker L, Alivodej N, Vogenstahl J, Jin J., Kirchmaier B, Milla C, Schlierbach H, Schänzer A, Acker T, Segarra M, Acker-Palmer A
<b>24</b>	<b>VEGFR2 controls the integrity of the neurovascular unit</b> M. Damm, B. Peguera*, MR Aburto*, K. Agarwal, N Wettschureck, M. Segarra and A. Acker-Palmer
<b>25</b>	<b>Investigating the interaction of mouse pericytes and Amyloid-beta via Cryo-electron tomography (CET)</b> Sauerland C, Breunig P, Sachweh J, Beck M, Hefendehl JK
<b>26</b>	<b>Probucol increases LRP1 in perivascular fibroblasts and improves vascular amyloid-β clearance in a model of Alzheimer's Disease</b> Breunig P, Aliraj B, Sethumadhavan S, Guenther S, Khrievono K, Weigert A, Hefendehl JK
<b>27</b>	<b>Neurovascular dynamics of flrt2 during zebrafish retinal development</b> Euler L, Kassel L, Eschmann P, van Impel A, Schulte-Merker S, Kirchmaier BC, Acker-Palmer A

<b>28</b>	<b>Role of flrt2 in larval zebrafish motor control</b> Eschmann, P, Köller, NL, Euler, L, van Impel, A, Schulte-Merker, S, Kirchmaier, BC, Acker-Palmer, A
<b>29</b>	<b>Cell-specific VEGF function during hippocampal development</b> Kracht M.K., Segarra M., Acker-Palmer A.
<b>30</b>	<b>The role of cerebral and vascular amyloidosis in neurovascular unit pathology</b> Eloah dos Santos De Biasi, Michael Candlish, Peter R. Nilsson, Ralf Brandes, Angelos Skodras, Mathias Jucker, Jasmin K. Hefendehl
<b>31</b>	<b>Ischemic stroke augments microglial function in a model of Alzheimer's disease</b> Candlish M*, Hofmann J*, Brösamle D, Haessler A, DeMeglio M, Skodras A, Tushev G, De Biasi ES, Günther S, Wiegand R, Looso M, Nilsson PR, Beyer M, Windbergs M, Neher JJ, Geburtig-Chiocchetti A, Hefendehl JK
<b>Institute of Developmental Biology and Neurobiology, Mainz</b>	
<b>32</b>	<b>Bassoon phase separation directs Cav2.1 calcium channels presynaptic organization</b> Michela Borghi
<b>33</b>	<b>Dynamic interactions between presynaptic calcium channel subunits and neuroligins</b> Corinna Werkmann, Nils Hohaus, Markus Missler, Martin Heine
<b>34</b>	<b>Connectome analysis of the Drosophila direction-selective cells</b> Maria Ioannidou, Miriam Henning, Sebastian Molina-Obando, Marion Silies
<b>35</b>	<b>A versatile multi-colour spatial visual stimulus projector for the analysis of colour processing</b> Julia Maria Strauss, Roshni Pillai, Marion Silies, Christopher Schnaitmann
<b>36</b>	<b>Neural circuits that regulate exploratory odor-driven behavior</b> Giovanni D'Uva, Christian Daniel, Leticia Batista and Carlotta Martelli
<b>37</b>	<b>Developmental temperature scales synaptic connectivity relevant for behavior.</b> Leticia Batista, Pascal Züfle, Sofia Brandao, Giovanni D'Uva, Carlotta Martelli
<b>Institute of Pharmaceutical and Biomedical Sciences, Mainz</b>	
<b>38</b>	<b>Mitochondrial effects of plant extracts in pathological aging and Alzheimer's disease</b> Christine Lietz, Katharina Pauly, Mark Helm, Dirk Bredenbröcker, Martin Lehner and Kristina Friedland
<b>39</b>	<b>Analysis of tRNA modification 5-methylcytosine (m5C) and NOP2/Sun RNA Methyltransferase 2 (NSUN2) leads to new insights in pathological aging and Alzheimer's Disease</b> M. Joerg, A. Lenz, M. Lander, I. Schulz, M. Kristen, M. Helm, K. Friedland
<b>Institute of Molecular Medicine, UM Mainz</b>	
<b>40</b>	<b>Iron-sulfur cluster loss in mitochondrial CISD1 mediates PINK1 loss-of-function phenotypes</b> Bitra S, Baumann T, Weber C, Abusaada M, Rojas-Charry L, Ziegler P, Schettgen T, Randerath IE, Venkataramani V, Michalke B, Arena G, Krüger R, Zhang L, and Methner A
<b>Institute of Anesthesiology, Mainz</b>	
<b>41</b>	<b>Investigating the neuroprotective potential of estradiol and tamoxifen injections post-traumatic brain injury</b> Isa Wernersbach

<b>42</b>	<p><b>Nestin-Cre-mediated progranulin expression partially rescues exacerbated consequences of traumatic brain injury in progranulin-deficient mice.</b></p> <p>Sudena Wang, Christin Fröhlich, Regina Hummel, Irmgard Tegeder, Michael K.E. Schäfer</p>
<b>Department of Psychiatry, Psychosomatics and Psychotherapy, FFM</b>	
<b>43</b>	<p><b>Cognition and social behavior in adolescent mice in the maternal immune activation model of schizophrenia</b></p> <p>Elif Ertas, Patrick Kunik</p>
<b>44</b>	<p><b>Comprehensive Analysis of Metabolic Dysregulation and Neuropsychiatric Impairments in Long-Covid: Unraveling Mechanisms and Discovering Therapeutic Potential (CARE-MIND)</b></p> <p>Uckermark C, Reif A, Slattery D, Vehreschild M, Ciesek S, Müller J, Thanarajah E</p>
<b>45</b>	<p><b>Effects of Mycobacterium vaccae immunization prior to mating and chronic stress exposure during pregnancy in nulliparous female mice and her offspring</b></p> <p>Pei-Ling Tsai, Jessica Schiele, Dominik Langgartner, Stefan O. Reber, David A. Slattery</p>
<b>46</b>	<p><b>Weight matters: The association of BMI and brain connectome in female patients with major depressive disorder</b></p> <p>Bouzouina A, Gruber M, Zhao T, Schiweck C, Aichholzer M, Meinert S, Grotegerd D, Winter NR, Hahn T, Opel N, Reif A, Kircher T, Dannlowski U, Repple J, Thanarajah SE</p>
<b>47</b>	<p><b>Comorbid anxiety – A challenge to the disconnection syndrome hypothesis of major depressive disorder?</b></p> <p>Marius Gruber, Jan Schulte, Elisabeth J. Leehr, Susanne Meinert, Dominik Grotegerd, Igor Nenadić, Tilo Kircher, Udo Dannlowski, Jonathan Repple</p>
<b>48</b>	<p><b>ML-based molecular burden scores: Predicting treatment outcome based on the genetic variation of underlying mechanisms</b></p> <p>Simeon Platte, Afsheen Kumar, RAISE-GENIC Consortium, Andreas G. Chiochetti</p>
<b>49</b>	<p><b>Neurobiological correlates of psychiatric syndromes in a transdiagnostic setting: a multimodal network approach</b></p> <p>K.F. Ahrens, M. Gruber, P.Rehm, J. Müller, D. Grotegerd, S. Meinert, F. Stein, N. Winter, T. Hahn, T. Kircher, U. Dannlowski, A. Reif, J. Repple</p>
<b>50</b>	<p><b>Evaluation of AI-powered NLP in psychiatric practice: the Athene padam project</b></p> <p>Christopher Landau, Patricia Getty, Tobias Mayer, Max Eichler, Aishik Mandal, Iryna Gurevych, Andreas Reif, O. Grimm</p>
<b>51</b>	<p><b>Representation of Chronic Depressive Trajectories in the Brain Connectome</b></p> <p>Paula Rehm, Marius Gruber, Kira Ahrens, Tilo Kircher, Udo Dannlowski, Jonathan Repple</p>
<b>52</b>	<p><b>APP/PS1 male, but not female, mice show early cognitive inflexibility and impaired glucose tolerance</b></p> <p>Aliaksandr Malyshau, Marie Zimdahl, Micha Lang, Anna Yotova, Jasmin Huang, Loretta Shabani, Malin Gänger, David A. Slattery and Aet O’Leary</p>
<b>53</b>	<p><b>Acute Stress Response in Resilient vs. Non-Resilient Individuals During Socially Evaluated Cold-Pressor Test (SECPT).</b></p> <p>Charlotte Schenk, Nadine Riske, Kira F. Ahrens, Michael M. Plichta, Andreas Reif</p>
<b>54</b>	<p><b>Understanding the effects of the Endocannabinoid-Nitrergic systems on changes in dendritic morphology related to PTSD</b></p> <p>Diehl J, Amorim Marques AP, Sabrina F, de Souza Lisbôa SF, Freudenberg F</p>

<b>Department of Child and Adolescent Psychiatry, FFM</b>	
<b>55</b>	<p style="text-align: center;"><b>Association between transcriptomic and neuroanatomical differences in Autism Spectrum Disorder</b></p> <p>Leyhausen J, Gurr C, Berg LM, Seelemeyer H, M. Pretzsch CM, Loth E, Oakley B, Buitelaar JK, Beckmann CF, Floris DL, Charman T, Bourgeron T, Banaschewski T, Jones E, Tillmann J, Chatham C, The EU-AIMS Group, Murphy D, Ecker C</p>
<b>56</b>	<p style="text-align: center;"><b>Relationship Between Polygenic Scores for ASD and ADHD and Neuroanatomical Variability.</b></p> <p>Berg LM, Gurr C, Leyhausen J, Seelemeyer H, M. Pretzsch CM, Oakley B, Loth E, Floris DL, Buitelaar JK, Beckmann CF, Banaschewski T, Charman T, Jones E, Tillmann J, Chatham CH, Bourgeron T, The EU-AIMS LEAP Group, Murphy DG, Ecker C</p>
<b>57</b>	<p style="text-align: center;"><b>Decomposing the Brain in Autism: Linking Behavioral Domains to Neuroanatomical Variation and Genomic Underpinnings</b></p> <p>Seelemeyer H, Gurr C, Leyhausen J, Berg L, Pretzsch C, Schäfer T, Hermila B, Freitag C, Loth E, Oakley B, Mason L, Buitelaar J, Beckmann C, Floris D, Charman T, Banaschewski T, Jones E, Bourgeron T, The EU-AIMS LEAP Group, Murphy D, Ecker C</p>
<b>58</b>	<p style="text-align: center;"><b>Tonic locus coeruleus upregulation as a mechanism of increased precision weighting in autism</b></p> <p>Bast N, Ahmad J, Mason L, Jones E, Matyjek M, Polzer L, Luckhardt C, Müller AK; McAlonan GM, Banaschewski T, Baumeister S, Loth E, on behalf of the EU-AIMS LEAP group; and Freitag CM</p>
<b>59</b>	<p style="text-align: center;"><b>The role of the ASD-associated 16p11.2 gene QPRT during differentiation of human embryonic stem cell-derived cerebral organoids</b></p> <p>Clara Dröll, Julia Schwarzpaul, Silvia Lindlar, Afsheen Kumar, Andreas G. Chiocchetti, Denise Haslinger</p>
<b>60</b>	<p style="text-align: center;"><b>Environmental risk factors and Polygenic Scores in ADHD as Predictors of Disorder Severity</b></p> <p>Parnian Poursafa, Freya Schroedter, Simeon Platte, Afsheen Kumar, Christine M. Freitag, Carsten Deppert, Andreas G. Chiocchetti</p>
<b>61</b>	<p style="text-align: center;"><b>Characterizing the Developmental Impact of ASD associated QPRT Inhibition in Cerebral Organoids</b></p> <p style="text-align: center;"><b>A Multi-Timepoint Morphological and Transcriptomic Study</b></p> <p>Julia Schwarzpaul, Clara Dröll, Silvia Lindlar, Andreas G. Chiocchetti, Afsheen Kumar, Simeon Platte, Florian Freudenberg, Denise Haslinger</p>
<b>Department of Psychiatry and Psychotherapy, Mainz</b>	
<b>62</b>	<p style="text-align: center;"><b>Early life adversity and the impact of glucocorticoids on NG2-glia: a potential mechanism for stress-related psychiatric disorders</b></p> <p>Becker K, L. Mattioni, M. Papic, A. Conrad, B. Lutz, A. Waisman, M.J. Schmeisser, M.B. Müller, G. Treccani</p>
<b>63</b>	<p style="text-align: center;"><b>Alterations in protease expression in murine SIM-A9 microglia following graphene incubation</b></p> <p>Subirana RJ, Rai P, Walter E, Tarasov A, Tüscher O, Endres K</p>
<b>64</b>	<p style="text-align: center;"><b>The role of ventral striatum D1-MSN subpopulation in the coding of higher order probabilistic conditioning</b></p> <p>Yi Zhuo, Mirko Articus, Walter Cañedo Riedel, Wolfgang Kelsch</p>
<b>65</b>	<p style="text-align: center;"><b>Learning strategies of the mesolimbic circuit for higher order conditioning</b></p> <p>Mirko Articus, Walter Cañedo Riedel, Eleonora Russo, Wolfgang Kelsch</p>
<b>66</b>	<p style="text-align: center;"><b>Social-stimulus responsive neurons in the mouse basal amygdala-nucleus accumbens pathway</b></p> <p>Poggi G, Dulinkas R, Madur L, Bergamini G, Greter A, Ineichen C, ADagostino A, Kúkelová D, Sigrist H, Bornemann K, Fernandez-Albert F, Alanis-Lobato G, Hengerer B, Pryce C</p>

<b>Leibniz Institute for Resilience Research, Mainz</b>	
<b>67</b>	<b>Thrombin: Unveiling Its Role in Mental Resilience</b> Wendelmuth M, Peguera Carré B, Agarwal K, Kobialka P, Todorov H, Nguyen TS, Reyda S, Vennin C, Gerber S, Lutz B, Segarra M, Ruf W, Schweiger S
<b>68</b>	<b>First insights into a neuropharmacological fMRI study on the role of endogenous opioids in placebo-induced fear inhibition</b> Jansson, A., Yuen, K., Tüscher, O., Kalisch, R., Meyer, B.
<b>Frankfurt Institute for Advanced Studies (FIAS)</b>	
<b>69</b>	<b>Stabilizing sequence learning in stochastic spiking networks with GABA-Modulated STDP</b> Marius Vieth and Jochen Triesch
<b>70</b>	<b>Optogenetics Inhibition reveals long-range intracortical interactions in early development</b> Deyue Kong
<b>71</b>	<b>The dual nature of synaptic homeostasis: Interaction between fast and slow processes</b> P.E. Vlachos, J. Triesch
<b>72</b>	<b>Abrupt transitions interrupt slow, ongoing representational drift in experiment and model</b> Jens-Bastian Eppler, Simon Rumpel, Matthias Kaschube
<b>73</b>	<b>Forgetting impairs reversal learning in mice and artificial neuronal networks</b> J. Elpelt, J.-B. Eppler, J. P.-H. Seiler, S. Rumpel, M. Kaschube
<b>74</b>	<b>The Brain on a Diet: How Energy Shortage Impairs Neural Information Coding</b> Philip Sommer, Alex Bird, Jochen Triesch
<b>75</b>	<b>A universal coarse-to-fine transition in cortical development –</b> L. Butti , N. Powell , B. Hein , D. Kong , J. Elpelt , H. Mulholland , M. Kaschube , G. Smith
<b>Ernst-Strüngmann Institute, Frankfurt</b>	
<b>76</b>	<b>Optimising local diameters across entire dendritic trees</b> Bird AD, Jedlicka P, & Cuntz H