

Jochen C Meier

List of Publications by Year in descending order

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68
papers

2,891
citations

126858

33
h-index

175177

52
g-index

73
all docs

73
docs citations

73
times ranked

3918
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and reversible trapping of surface glycine receptors by gephyrin. <i>Nature Neuroscience</i> , 2001, 4, 253-260.	7.1	237
2	E-I balance and human diseases – from molecules to networking. <i>Frontiers in Molecular Neuroscience</i> , 2008, 1, 2.	1.4	151
3	Human iPSC-Derived Neural Progenitors Are an Effective Drug Discovery Model for Neurological mtDNA Disorders. <i>Cell Stem Cell</i> , 2017, 20, 659-674.e9.	5.2	126
4	RNA editing produces glycine receptor $\hat{1}\pm 3$ P185L, resulting in high agonist potency. <i>Nature Neuroscience</i> , 2005, 8, 736-744.	7.1	114
5	Glycinergic tonic inhibition of hippocampal neurons with depolarizing GABAergic transmission elicits histopathological signs of temporal lobe epilepsy. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2848-2866.	1.6	105
6	Genetic and functional analyses demonstrate a role for abnormal glycinergic signaling in autism. <i>Molecular Psychiatry</i> , 2016, 21, 936-945.	4.1	85
7	Phorbol-Ester Mediated Suppression of hASH1 Synthesis: Multiple Ways to Keep the Level Down. <i>Frontiers in Molecular Neuroscience</i> , 2011, 4, 1.	1.4	81
8	Changes in neural network homeostasis trigger neuropsychiatric symptoms. <i>Journal of Clinical Investigation</i> , 2014, 124, 696-711.	3.9	81
9	Palmitoylation of Gephyrin Controls Receptor Clustering and Plasticity of GABAergic Synapses. <i>PLoS Biology</i> , 2014, 12, e1001908.	2.6	79
10	Identification of Parvalbumin Interneurons as Cellular Substrate of Fear Memory Persistence. <i>Cerebral Cortex</i> , 2016, 26, 2325-2340.	1.6	79
11	A Gephyrin-Related Mechanism Restraining Glycine Receptor Anchoring at GABAergic Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 1398-1405.	1.7	73
12	Direct binding of $\langle \text{scp} \rangle \text{GABA} \langle \text{sub} \rangle \text{A} \langle \text{/sub} \rangle \langle \text{/scp} \rangle$ receptor $\hat{1}^2$ and $\hat{1}^3$ subunits to gephyrin. <i>European Journal of Neuroscience</i> , 2013, 37, 544-554.	1.2	69
13	Dynamics of Glycine Receptor Insertion in the Neuronal Plasma Membrane. <i>Journal of Neuroscience</i> , 2001, 21, 5036-5044.	1.7	68
14	NGF Controls Dendrite Development in Hippocampal Neurons by Binding to p75NTR and Modulating the Cellular Targets of Notch. <i>Molecular Biology of the Cell</i> , 2005, 16, 339-347.	0.9	68
15	Functional Heterogeneity of Gephyrins. <i>Molecular and Cellular Neurosciences</i> , 2000, 16, 566-577.	1.0	67
16	Splice–specific roles of glycine receptor $\hat{1}\pm 3$ in the hippocampus. <i>European Journal of Neuroscience</i> , 2009, 30, 1077-1091.	1.2	64
17	S-sulfocysteine/NMDA receptor–dependent signaling underlies neurodegeneration in molybdenum cofactor deficiency. <i>Journal of Clinical Investigation</i> , 2017, 127, 4365-4378.	3.9	62
18	Vertebrate-specific sequences in the gephyrin E-domain regulate cytosolic aggregation and postsynaptic clustering. <i>Journal of Cell Science</i> , 2007, 120, 1371-1382.	1.2	61

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19	Altered Balance of Glutamatergic/GABAergic Synaptic Input and Associated Changes in Dendrite Morphology after BDNF Expression in BDNF-Deficient Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 7189-7200.	1.7	59
20	Reduced SNAP-25 increases PSD-95 mobility and impairs spine morphogenesis. <i>Cell Death and Differentiation</i> , 2015, 22, 1425-1436.	5.0	59
21	Glycine receptors caught between genome and proteome – Functional implications of RNA editing and splicing. <i>Frontiers in Molecular Neuroscience</i> , 2009, 2, 23.	1.4	53
22	GABAA receptor activity and PKC control inhibitory synaptogenesis in CNS tissue slices. <i>Molecular and Cellular Neurosciences</i> , 2003, 23, 600-613.	1.0	51
23	Translational Regulation of the Human Achaete-scute Homologue-1 by Fragile X Mental Retardation Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 4255-4266.	1.6	51
24	Rare variants in γ -aminobutyric acid type A receptor genes in rolandic epilepsy and related syndromes. <i>Annals of Neurology</i> , 2015, 77, 972-986.	2.8	51
25	Desensitization of Homomeric $\alpha 1$ Glycine Receptor Increases with Receptor Density. <i>Molecular Pharmacology</i> , 2002, 62, 817-827.	1.0	48
26	Splice-specific Functions of Gephyrin in Molybdenum Cofactor Biosynthesis. <i>Journal of Biological Chemistry</i> , 2008, 283, 17370-17379.	1.6	47
27	Irregular RNA splicing curtails postsynaptic gephyrin in the cornu ammonis of patients with epilepsy. <i>Brain</i> , 2010, 133, 3778-3794.	3.7	46
28	GABA _B autoreceptor-mediated cell type-specific reduction of inhibition in epileptic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15073-15078.	3.3	44
29	Slow IPSC kinetics, low levels of $\alpha 1$ subunit expression and paired-pulse depression are distinct properties of neonatal inhibitory GABAergic synaptic connections in the mouse superior colliculus. <i>European Journal of Neuroscience</i> , 2001, 13, 2088-2098.	1.2	43
30	Transferrin-receptor-mediated iron accumulation controls proliferation and glutamate release in glioma cells. <i>Journal of Molecular Medicine</i> , 2009, 87, 153-167.	1.7	40
31	Simultaneous impairment of neuronal and metabolic function of mutated gephyrin in a patient with epileptic encephalopathy. <i>EMBO Molecular Medicine</i> , 2015, 7, 1580-1594.	3.3	39
32	Hypoxia-induced gene expression results from selective mRNA partitioning to the endoplasmic reticulum. <i>Nucleic Acids Research</i> , 2015, 43, 3219-3236.	6.5	38
33	Preferential accumulation of GABA receptor $\alpha 2L$, not $\alpha 2S$, cytoplasmic loops at rat spinal cord inhibitory synapses. <i>Journal of Physiology</i> , 2004, 559, 355-365.	1.3	37
34	Imaging pathological activities of human brain tissue in organotypic culture. <i>Journal of Neuroscience Methods</i> , 2018, 298, 33-44.	1.3	36
35	Impaired Synapse Function during Postnatal Development in the Absence of CALEB, an EGF-like Protein Processed by Neuronal Activity. <i>Neuron</i> , 2005, 46, 233-245.	3.8	34
36	Step-by-step guide to building an inexpensive 3D printed motorized positioning stage for automated high-content screening microscopy. <i>Biosensors and Bioelectronics</i> , 2017, 92, 472-481.	5.3	34

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37	RNA Editing – Systemic Relevance and Clue to Disease Mechanisms?. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 124.	1.4	33
38	GluR- and TrkB-mediated maturation of GABA _A receptor function during the period of eye opening. <i>European Journal of Neuroscience</i> , 2005, 21, 431-440.	1.2	29
39	Ensemble and single particle fluorimetric techniques in concerted action to study the diffusion and aggregation of the glycine receptor $\alpha 3$ isoforms in the cell plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 3131-3140.	1.4	29
40	A bright FIT-PNA hybridization probe for the hybridization state specific analysis of a C α U RNA edit <i>via</i> FRET in a binary system. <i>Chemical Science</i> , 2018, 9, 4794-4800.	3.7	28
41	Analysis of $\alpha 3$ GlyR single particle tracking in the cell membrane. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 544-553.	1.9	27
42	Synaptic Anchoring of Glycine Receptors in Developing Collicular Neurons under Control of Metabotropic Glutamate Receptor Activity. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 324-340.	1.0	25
43	Presynaptic mechanisms of neuronal plasticity and their role in epilepsy. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 164.	1.8	25
44	RNA Editing and Retrotransposons in Neurology. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 163.	1.4	22
45	Membrane distribution of the glycine receptor $\alpha 3$ studied by optical super-resolution microscopy. <i>Histochemistry and Cell Biology</i> , 2014, 142, 79-90.	0.8	21
46	Functional Hallmarks of GABAergic Synapse Maturation and the Diverse Roles of Neurotrophins. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 13.	1.8	20
47	Chloride transporter KCC2-dependent neuroprotection depends on the N-terminal protein domain. <i>Cell Death and Disease</i> , 2015, 6, e1776-e1776.	2.7	20
48	Intracellular glycine receptor function facilitates glioma formation in vivo. <i>Journal of Cell Science</i> , 2014, 127, 3687-98.	1.2	17
49	A Novel RNA Editing Sensor Tool and a Specific Agonist Determine Neuronal Protein Expression of RNA-Edited Glycine Receptors and Identify a Genomic APOBEC1 Dimorphism as a New Genetic Risk Factor of Epilepsy. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 439.	1.4	17
50	Electrophysiological Signature of Homomeric and Heteromeric Glycine Receptor Channels. <i>Journal of Biological Chemistry</i> , 2016, 291, 18030-18040.	1.6	13
51	The enigma of transmitter-selective receptor accumulation at developing inhibitory synapses. <i>Cell and Tissue Research</i> , 2003, 311, 271-276.	1.5	11
52	Inhibition of $\alpha 3$ -subunit glycine receptors by quinoxalines. <i>NeuroReport</i> , 2003, 14, 1507-1510.	0.6	11
53	New insights in endogenous modulation of ligand-gated ion channels: Histamine is an inverse agonist at strychnine sensitive glycine receptors. <i>European Journal of Pharmacology</i> , 2013, 710, 59-66.	1.7	11
54	Shutdown of Achaete-scute Homolog-1 Expression by Heterogeneous Nuclear Ribonucleoprotein (hnRNP)-A2/B1 in Hypoxia. <i>Journal of Biological Chemistry</i> , 2014, 289, 26973-26988.	1.6	10

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55	Chemo-biological mRNA imaging with single nucleotide specificity. <i>Chemical Communications</i> , 2019, 55, 14817-14820.	2.2	10
56	The Anti-amyloid Compound DO1 Decreases Plaque Pathology and Neuroinflammation-Related Expression Changes in 5xFAD Transgenic Mice. <i>Cell Chemical Biology</i> , 2019, 26, 109-120.e7.	2.5	8
57	Identification of a New Genomic Hot Spot of Evolutionary Diversification of Protein Function. <i>PLoS ONE</i> , 2015, 10, e0125413.	1.1	6
58	Editorial: Metabolic Control of Brain Homeostasis. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 184.	1.4	4
59	In vivo Imaging of Fully Active Brain Tissue in Awake Zebrafish Larvae and Juveniles by Skull and Skin Removal. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	4
60	Dimethylethanolamine Decreases Epileptiform Activity in Acute Human Hippocampal Slices in vitro. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 209.	1.4	3
61	Biallelic gephyrin variants lead to impaired GABAergic inhibition in a patient with developmental and epileptic encephalopathy. <i>Human Molecular Genetics</i> , 2022, 31, 901-913.	1.4	3
62	Development and Use- Dependent Modification of Synaptic Connections in the Visual Layers of the Rodent Superior Colliculus. , 2003, , .		2
63	Genetic techniques and circuit analysis. <i>Frontiers in Molecular Neuroscience</i> , 2010, 3, 4.	1.4	1
64	Homeostasis of Neuronal Excitability Via Synaptic and Intrinsic Inhibitory Mechanisms. , 2015, , 51-72.		1
65	Frontiers in Molecular Neuroscience â€“ RÃ©sumÃ© and Perspective. <i>Frontiers in Molecular Neuroscience</i> , 2011, 4, 58.	1.4	0
66	iPSC-derived neural progenitors carrying a MT-ATP6 mutation exhibit mitochondrial hyperpolarization and calcium-related defects. <i>Mitochondrion</i> , 2015, 24, S28-S29.	1.6	0
67	Editorial: Spring Hippocampal Research Conference and Beyond. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 773308.	1.4	0
68	Protein Kinases and Synaptogenesis. , 2006, , 311-332.		0