

Sebastian Jessberger

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

15,826
citations

46918

47
h-index

37111

96
g-index

109
all docs

109
docs citations

109
times ranked

17266
citing authors

#	ARTICLE	IF	CITATIONS
1	A Functional Role for Adult Hippocampal Neurogenesis in Spatial Pattern Separation. <i>Science</i> , 2009, 325, 210-213.	6.0	1,414
2	Wnt signalling regulates adult hippocampal neurogenesis. <i>Nature</i> , 2005, 437, 1370-1375.	13.7	1,363
3	Milestones of neuronal development in the adult hippocampus. <i>Trends in Neurosciences</i> , 2004, 27, 447-452.	4.2	1,254
4	In vivo demonstration that β -synuclein oligomers are toxic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4194-4199.	3.3	1,252
5	Functional Amyloids As Natural Storage of Peptide Hormones in Pituitary Secretory Granules. <i>Science</i> , 2009, 325, 328-332.	6.0	903
6	Human Adult Neurogenesis: Evidence and Remaining Questions. <i>Cell Stem Cell</i> , 2018, 23, 25-30.	5.2	601
7	Subpopulations of proliferating cells of the adult hippocampus respond differently to physiologic neurogenic stimuli. <i>Journal of Comparative Neurology</i> , 2003, 467, 455-463.	0.9	578
8	Dentate gyrus-specific knockdown of adult neurogenesis impairs spatial and object recognition memory in adult rats. <i>Learning and Memory</i> , 2009, 16, 147-154.	0.5	562
9	Transient calretinin expression defines early postmitotic step of neuronal differentiation in adult hippocampal neurogenesis of mice. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 603-613.	1.0	454
10	Metabolic control of adult neural stem cell activity by Fasn-dependent lipogenesis. <i>Nature</i> , 2013, 493, 226-230.	13.7	448
11	Signaling through BMPRII Regulates Quiescence and Long-Term Activity of Neural Stem Cells in the Adult Hippocampus. <i>Cell Stem Cell</i> , 2010, 7, 78-89.	5.2	417
12	Seizure-Associated, Aberrant Neurogenesis in Adult Rats Characterized with Retrovirus-Mediated Cell Labeling. <i>Journal of Neuroscience</i> , 2007, 27, 9400-9407.	1.7	328
13	Variability of doublecortin-associated dendrite maturation in adult hippocampal neurogenesis is independent of the regulation of precursor cell proliferation. <i>BMC Neuroscience</i> , 2006, 7, 77.	0.8	319
14	Epigenetic Modulation of Seizure-Induced Neurogenesis and Cognitive Decline. <i>Journal of Neuroscience</i> , 2007, 27, 5967-5975.	1.7	316
15	Differential regulation of gliogenesis in the context of adult hippocampal neurogenesis in mice. <i>Glia</i> , 2004, 46, 41-52.	2.5	290
16	Adult-born hippocampal neurons mature into activity-dependent responsiveness. <i>European Journal of Neuroscience</i> , 2003, 18, 2707-2712.	1.2	275
17	Live imaging of neurogenesis in the adult mouse hippocampus. <i>Science</i> , 2018, 359, 658-662.	6.0	259
18	Seizures induce proliferation and dispersion of doublecortin-positive hippocampal progenitor cells. <i>Experimental Neurology</i> , 2005, 196, 342-351.	2.0	258

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19	A Fatty Acid Oxidation-Dependent Metabolic Shift Regulates Adult Neural Stem Cell Activity. <i>Cell Reports</i> , 2017, 20, 2144-2155.	2.9	247
20	Directed differentiation of hippocampal stem/progenitor cells in the adult brain. <i>Nature Neuroscience</i> , 2008, 11, 888-893.	7.1	242
21	The role of fatty acid β -oxidation in lymphangiogenesis. <i>Nature</i> , 2017, 542, 49-54.	13.7	240
22	Role of Mitochondrial Metabolism in the Control of Early Lineage Progression and Aging Phenotypes in Adult Hippocampal Neurogenesis. <i>Neuron</i> , 2017, 93, 560-573.e6.	3.8	221
23	The polo-like protein kinases Fnk and Snk associate with a Ca^{2+} - and integrin-binding protein and are regulated dynamically with synaptic plasticity. <i>EMBO Journal</i> , 1999, 18, 5528-5539.	3.5	200
24	Quiescent Endothelial Cells Upregulate Fatty Acid β -Oxidation for Vasculoprotection via Redox Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 881-894.e13.	7.2	174
25	Gene Expression Profiling of Neural Stem Cells and Their Neuronal Progeny Reveals IGF2 as a Regulator of Adult Hippocampal Neurogenesis. <i>Journal of Neuroscience</i> , 2012, 32, 3376-3387.	1.7	173
26	Prospero-related homeobox 1 gene (Prox1) is regulated by canonical Wnt signaling and has a stage-specific role in adult hippocampal neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5807-5812.	3.3	170
27	Formation and integration of new neurons in the adult hippocampus. <i>Nature Reviews Neuroscience</i> , 2021, 22, 223-236.	4.9	146
28	Adult neurogenesis: mechanisms and functional significance. <i>Development (Cambridge)</i> , 2014, 141, 1983-1986.	1.2	143
29	A mechanism for the segregation of age in mammalian neural stem cells. <i>Science</i> , 2015, 349, 1334-1338.	6.0	129
30	Epilepsy and Adult Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020677.	2.3	118
31	Adult neurogenesis: bridging the gap between mice and humans. <i>Trends in Cell Biology</i> , 2014, 24, 558-563.	3.6	117
32	Cdk5 Regulates Accurate Maturation of Newborn Granule Cells in the Adult Hippocampus. <i>PLoS Biology</i> , 2008, 6, e272.	2.6	112
33	Metabolism and neurogenesis. <i>Current Opinion in Neurobiology</i> , 2017, 42, 45-52.	2.0	105
34	A Distinctive layering pattern of mouse dentate granule cells is generated by developmental and adult neurogenesis. <i>Journal of Comparative Neurology</i> , 2010, 518, 4479-4490.	0.9	103
35	Functional Imaging of Dentate Granule Cells in the Adult Mouse Hippocampus. <i>Journal of Neuroscience</i> , 2016, 36, 7407-7414.	1.7	98
36	mTORC1 Inhibition Corrects Neurodevelopmental and Synaptic Alterations in a Human Stem Cell Model of Tuberous Sclerosis. <i>Cell Reports</i> , 2016, 15, 86-95.	2.9	94

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37	Making a neuron: Cdk5 in embryonic and adult neurogenesis. Trends in Neurosciences, 2009, 32, 575-582.	4.2	89
38	Long-term self-renewing stem cells in the adult mouse hippocampus identified by intravital imaging. Nature Neuroscience, 2021, 24, 225-233.	7.1	87
39	Multipotency of Adult Hippocampal NSCs In Vivo Is Restricted by Drosha/NFIB. Cell Stem Cell, 2016, 19, 653-662.	5.2	83
40	Zif268 / egr1 gene controls the selection, maturation and functional integration of adult hippocampal newborn neurons by learning. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7062-7067.	3.3	79
41	Stage-Specific Functions of the Small Rho GTPases Cdc42 and Rac1 for Adult Hippocampal Neurogenesis. Journal of Neuroscience, 2013, 33, 1179-1189.	1.7	74
42	Stem-cell-associated structural and functional plasticity in the aging hippocampus. Psychology and Aging, 2008, 23, 684-691.	1.4	72
43	A novel environment-evoked transcriptional signature predicts reactivity in single dentate granule neurons. Nature Communications, 2018, 9, 3084.	5.8	72
44	Review: Adult neurogenesis and its role in neuropsychiatric disease, brain repair and normal brain function. Neuropathology and Applied Neurobiology, 2014, 40, 3-12.	1.8	70
45	Chemical Conversion of Human Fibroblasts into Functional Schwann Cells. Stem Cell Reports, 2014, 3, 539-547.	2.3	66
46	FASN-Dependent Lipid Metabolism Links Neurogenic Stem/Progenitor Cell Activity to Learning and Memory Deficits. Cell Stem Cell, 2020, 27, 98-109.e11.	5.2	62
47	Structural changes for adult-born dentate granule cells after status epilepticus. Epilepsia, 2008, 49, 13-18.	2.6	60
48	Spontaneous Fusion and Nonclonal Growth of Adult Neural Stem Cells. Stem Cells, 2007, 25, 871-874.	1.4	54
49	Programming Hippocampal Neural Stem/Progenitor Cells into Oligodendrocytes Enhances Remyelination in the Adult Brain after Injury. Cell Reports, 2015, 11, 1679-1685.	2.9	50
50	Adult hippocampal neurogenesis and plasticity in the infrapyramidal bundle of the mossy fiber projection: I. Co-regulation by activity. Frontiers in Neuroscience, 2011, 5, 107.	1.4	48
51	De novo fatty acid synthesis by Schwann cells is essential for peripheral nervous system myelination. Journal of Cell Biology, 2018, 217, 1353-1368.	2.3	47
52	Declining lamin B1 expression mediates age-dependent decreases of hippocampal stem cell activity. Cell Stem Cell, 2021, 28, 967-977.e8.	5.2	40
53	Paradoxical increase in survival of newborn neurons in the dentate gyrus of mice with constitutive depletion of serotonin. European Journal of Neuroscience, 2013, 38, 2650-2658.	1.2	38
54	Creating Age Asymmetry: Consequences of Inheriting Damaged Goods in Mammalian Cells. Trends in Cell Biology, 2017, 27, 82-92.	3.6	38

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55	Dissecting Integrin-Dependent Regulation of Neural Stem Cell Proliferation in the Adult Brain. <i>Journal of Neuroscience</i> , 2014, 34, 5222-5232.	1.7	37
56	Adult-born granule cells mature through two functionally distinct states. <i>ELife</i> , 2014, 3, e03104.	2.8	35
57	SPOT14-Positive Neural Stem/Progenitor Cells in the Hippocampus Respond Dynamically to Neurogenic Regulators. <i>Stem Cell Reports</i> , 2014, 3, 735-742.	2.3	33
58	Is neurogenesis reparative after status epilepticus?. <i>Epilepsia</i> , 2007, 48, 69-71.	2.6	27
59	Lateral dispersion is required for circuit integration of newly generated dentate granule cells. <i>Nature Communications</i> , 2019, 10, 3324.	5.8	25
60	Functional neurogenesis in the adult hippocampus: then and now. <i>Frontiers in Neuroscience</i> , 2014, 8, 55.	1.4	22
61	Palmitoylation of BMPR1a regulates neural stem cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25688-25696.	3.3	22
62	Maturation and integration of adult born hippocampal neurons: signal convergence onto small Rho GTPases. <i>Frontiers in Synaptic Neuroscience</i> , 2013, 5, 4.	1.3	19
63	Fate plasticity of adult hippocampal progenitors: biological relevance and therapeutic use. <i>Trends in Pharmacological Sciences</i> , 2009, 30, 61-65.	4.0	17
64	Translating niche-derived signals into neurogenesis: The function of Prox1 in the adult hippocampus. <i>Cell Cycle</i> , 2011, 10, 2239-2240.	1.3	16
65	Stem Cell-Mediated Regeneration of the Adult Brain. <i>Transfusion Medicine and Hemotherapy</i> , 2016, 43, 321-327.	0.7	15
66	Miniaturization of Smart-seq2 for Single-Cell and Single-Nucleus RNA Sequencing. <i>STAR Protocols</i> , 2020, 1, 100081.	0.5	15
67	Adult neurogenesis in the mammalian brain. <i>Frontiers in Biology</i> , 2013, 8, 295-304.	0.7	14
68	Linking adult hippocampal neurogenesis with human physiology and disease. <i>Developmental Dynamics</i> , 2016, 245, 702-709.	0.8	14
69	Visualization of individual cell division history in complex tissues using iCOUNT. <i>Cell Stem Cell</i> , 2021, 28, 2020-2034.e12.	5.2	14
70	Neural repair in the adult brain. <i>F1000Research</i> , 2016, 5, 169.	0.8	14
71	Adult hippocampal neurogenesis and plasticity in the infrapyramidal bundle of the mossy fiber projection: II. Genetic covariation and identification of Nos1 as linking candidate gene. <i>Frontiers in Neuroscience</i> , 2011, 5, 106.	1.4	14
72	FASN-dependent de novo lipogenesis is required for brain development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	14

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73	Characterization of the neurogenic niche in the aging dentate gyrus using iterative immunofluorescence imaging. <i>ELife</i> , 2022, 11, .	2.8	14
74	Engineering of Adult Neurogenesis and Gliogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a018861.	2.3	13
75	Temporal Control of Retroviral Transgene Expression in Newborn Cells in the Adult Brain. <i>Stem Cell Reports</i> , 2013, 1, 114-122.	2.3	12
76	Imaging neurite development of adult-born granule cells. <i>Development (Cambridge)</i> , 2013, 140, 2823-2827.	1.2	12
77	A Single Metabolite which Modulates Lipid Metabolism Alters Hematopoietic Stem/Progenitor Cell Behavior and Promotes Lymphoid Reconstitution. <i>Stem Cell Reports</i> , 2020, 15, 566-576.	2.3	10
78	Live imaging of remyelination in the adult mouse corpus callosum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
79	How stem cells remember their past. <i>Current Opinion in Cell Biology</i> , 2021, 69, 17-22.	2.6	9
80	All astrocytes are not created equal—the role of astroglia in brain injury. <i>EMBO Reports</i> , 2013, 14, 487-488.	2.0	8
81	Supersize me—new insights into cortical expansion and gyration of the mammalian brain. <i>EMBO Journal</i> , 2013, 32, 1793-1795.	3.5	7
82	Mechanisms of cellular rejuvenation. <i>FEBS Letters</i> , 2019, 593, 3381-3392.	1.3	7
83	ZOOMING IN: a new high-resolution gene expression atlas of the brain. <i>Molecular Systems Biology</i> , 2007, 3, 75.	3.2	6
84	Perspectives on adult neurogenesis. <i>European Journal of Neuroscience</i> , 2011, 33, 1013-1017.	1.2	6
85	Unexpected help to repair the cerebellum. <i>Nature Neuroscience</i> , 2017, 20, 1319-1321.	7.1	6
86	Crossing Boundaries: Direct Programming of Fibroblasts into Neurons. <i>Cell Stem Cell</i> , 2010, 6, 189-191.	5.2	5
87	Glucose-mediated de novo lipogenesis in photoreceptors drives early diabetic retinopathy. <i>Journal of Biological Chemistry</i> , 2021, 297, 101104.	1.6	5
88	Human neural progenitors establish a diffusion barrier in the endoplasmic reticulum membrane during cell division. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	5
89	Injection and electroporation of plasmid DNA into human cortical organoids. <i>STAR Protocols</i> , 2022, 3, 101129.	0.5	4
90	ChAT me up: how neurons control stem cells. <i>Nature Neuroscience</i> , 2014, 17, 897-898.	7.1	3

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91	Special issue for stem cell metabolism: be quiet, grow, and differentiate. <i>Frontiers in Biology</i> , 2015, 10, 99-99.	0.7	3
92	Metabolic control of adult neural stem cell behavior. <i>Frontiers in Biology</i> , 2015, 10, 100-106.	0.7	2
93	Isolation of adult mouse hippocampal neural stem cells for fluorescence loss in photobleaching assays. <i>STAR Protocols</i> , 2021, 2, 100695.	0.5	2
94	ADULT NEURAL PROGENITOR CELLS IN CNS FUNCTION AND DISEASE. , 2008, , 181-200.		1
95	A Distinctive layering pattern of mouse dentate granule cells is generated by developmental and adult neurogenesis. <i>Journal of Comparative Neurology</i> , 2010, 518, spc1-spc1.	0.9	1
96	Sleep or deplete: how the choroid plexus helps to keep neural stem cells in balance. <i>EMBO Journal</i> , 2019, 38, e103013.	3.5	1
97	Neurogenesis. , 2005, , 261-289.		0
98	Visualization of Individual Cell Division History in Complex Tissues. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
99	Adult Neurogenesis in Epilepsy. , 2011, , 37-52.		0
100	Imaging neurite development of adult-born granule cells. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	1.2	0
101	Hippocampal neural stem cells rapidly change their metabolic profile during neuronal differentiation in cell culture . <i>Matters Select</i> , 0, , .	3.0	0
102	Enhanced plasticity of mature granule cells reduces survival of newborn neurons in the adult mouse hippocampus. <i>Matters Select</i> , 0, , .	3.0	0
103	FASN-Dependent Metabolism Links Neural Stem Cell Activity to Intellectual Disability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
104	<i>Life Science Alliance</i>, from the Academic Editors. <i>Life Science Alliance</i> , 2018, 1, e201800044.	1.3	0