

Sebastian Jessberger

List of Publications by Year in descending order

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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	FASN-dependent de novo lipogenesis is required for brain development. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
2	Characterization of the neurogenic niche in the aging dentate gyrus using iterative immunofluorescence imaging. ELife, 2022, 11, .	2.8	14
3	Injection and electroporation of plasmid DNA into human cortical organoids. STAR Protocols, 2022, 3, 101129.	0.5	4
4	Human neural progenitors establish a diffusion barrier in the endoplasmic reticulum membrane during cell division. Development (Cambridge), 2022, 149, .	1.2	5
5	Long-term self-renewing stem cells in the adult mouse hippocampus identified by intravital imaging. Nature Neuroscience, 2021, 24, 225-233.	7.1	87
6	Formation and integration of new neurons in the adult hippocampus. Nature Reviews Neuroscience, 2021, 22, 223-236.	4.9	146
7	How stem cells remember their past. Current Opinion in Cell Biology, 2021, 69, 17-22.	2.6	9
8	Declining lamin B1 expression mediates age-dependent decreases of hippocampal stem cell activity. Cell Stem Cell, 2021, 28, 967-977.e8.	5.2	40
9	Live imaging of remyelination in the adult mouse corpus callosum. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
10	Isolation of adult mouse hippocampal neural stem cells for fluorescence loss in photobleaching assays. STAR Protocols, 2021, 2, 100695.	0.5	2
11	Visualization of individual cell division history in complex tissues using iCOUNT. Cell Stem Cell, 2021, 28, 2020-2034.e12.	5.2	14
12	Glucose-mediated de novo lipogenesis in photoreceptors drives early diabetic retinopathy. Journal of Biological Chemistry, 2021, 297, 101104.	1.6	5
13	Miniaturization of Smart-seq2 for Single-Cell and Single-Nucleus RNA Sequencing. STAR Protocols, 2020, 1, 100081.	0.5	15
14	A Single Metabolite which Modulates Lipid Metabolism Alters Hematopoietic Stem/Progenitor Cell Behavior and Promotes Lymphoid Reconstitution. Stem Cell Reports, 2020, 15, 566-576.	2.3	10
15	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
16	Lateral dispersion is required for circuit integration of newly generated dentate granule cells. Nature Communications, 2019, 10, 3324.	5.8	25
17	Mechanisms of cellular rejuvenation. FEBS Letters, 2019, 593, 3381-3392.	1.3	7
18	Palmitoylation of BMPR1a regulates neural stem cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25688-25696.	3.3	22

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19	Sleep or deplete: how the choroid plexus helps to keep neural stem cells in balance. EMBO Journal, 2019, 38, e103013.	3.5	1
20	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
21	Human Adult Neurogenesis: Evidence and Remaining Questions. Cell Stem Cell, 2018, 23, 25-30.	5.2	601
22	Live imaging of neurogenesis in the adult mouse hippocampus. Science, 2018, 359, 658-662.	6.0	259
23	A novel environment-evoked transcriptional signature predicts reactivity in single dentate granule neurons. Nature Communications, 2018, 9, 3084.	5.8	72
24	Quiescent Endothelial Cells Upregulate Fatty Acid β -Oxidation for Vasculoprotection via Redox Homeostasis. Cell Metabolism, 2018, 28, 881-894.e13.	7.2	174
25	<i>Life Science Alliance</i>, from the Academic Editors. Life Science Alliance, 2018, 1, e201800044.	1.3	0
26	Role of Mitochondrial Metabolism in the Control of Early Lineage Progression and Aging Phenotypes in Adult Hippocampal Neurogenesis. Neuron, 2017, 93, 560-573.e6.	3.8	221
27	Metabolism and neurogenesis. Current Opinion in Neurobiology, 2017, 42, 45-52.	2.0	105
28	The role of fatty acid β -oxidation in lymphangiogenesis. Nature, 2017, 542, 49-54.	13.7	240
29	Unexpected help to repair the cerebellum. Nature Neuroscience, 2017, 20, 1319-1321.	7.1	6
30	A Fatty Acid Oxidation-Dependent Metabolic Shift Regulates Adult Neural Stem Cell Activity. Cell Reports, 2017, 20, 2144-2155.	2.9	247
31	Creating Age Asymmetry: Consequences of Inheriting Damaged Goods in Mammalian Cells. Trends in Cell Biology, 2017, 27, 82-92.	3.6	38
32	mTORC1 Inhibition Corrects Neurodevelopmental and Synaptic Alterations in a Human Stem Cell Model of Tuberous Sclerosis. Cell Reports, 2016, 15, 86-95.	2.9	94
33	Engineering of Adult Neurogenesis and Gliogenesis. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018861.	2.3	13
34	Stem Cell-Mediated Regeneration of the Adult Brain. Transfusion Medicine and Hemotherapy, 2016, 43, 321-327.	0.7	15
35	Multipotency of Adult Hippocampal NSCs In Vivo Is Restricted by Drosha/NFIB. Cell Stem Cell, 2016, 19, 653-662.	5.2	83
36	Functional Imaging of Dentate Granule Cells in the Adult Mouse Hippocampus. Journal of Neuroscience, 2016, 36, 7407-7414.	1.7	98

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37	Linking adult hippocampal neurogenesis with human physiology and disease. <i>Developmental Dynamics</i> , 2016, 245, 702-709.	0.8	14
38	Neural repair in the adult brain. <i>F1000Research</i> , 2016, 5, 169.	0.8	14
39	Epilepsy and Adult Neurogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020677.	2.3	118
40	Special issue for stem cell metabolism: be quiet, grow, and differentiate. <i>Frontiers in Biology</i> , 2015, 10, 99-99.	0.7	3
41	Metabolic control of adult neural stem cell behavior. <i>Frontiers in Biology</i> , 2015, 10, 100-106.	0.7	2
42	Programming Hippocampal Neural Stem/Progenitor Cells into Oligodendrocytes Enhances Remyelination in the Adult Brain after Injury. <i>Cell Reports</i> , 2015, 11, 1679-1685.	2.9	50
43	A mechanism for the segregation of age in mammalian neural stem cells. <i>Science</i> , 2015, 349, 1334-1338.	6.0	129
44	Functional neurogenesis in the adult hippocampus: then and now. <i>Frontiers in Neuroscience</i> , 2014, 8, 55.	1.4	22
45	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
46	Chemical Conversion of Human Fibroblasts into Functional Schwann Cells. <i>Stem Cell Reports</i> , 2014, 3, 539-547.	2.3	66
47	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
48	Adult neurogenesis: mechanisms and functional significance. <i>Development (Cambridge)</i> , 2014, 141, 1983-1986.	1.2	143
49	Review: Adult neurogenesis and its role in neuropsychiatric disease, brain repair and normal brain function. <i>Neuropathology and Applied Neurobiology</i> , 2014, 40, 3-12.	1.8	70
50	ChAT me up: how neurons control stem cells. <i>Nature Neuroscience</i> , 2014, 17, 897-898.	7.1	3
51	Adult neurogenesis: bridging the gap between mice and humans. <i>Trends in Cell Biology</i> , 2014, 24, 558-563.	3.6	117
52	Adult-born granule cells mature through two functionally distinct states. <i>ELife</i> , 2014, 3, e03104.	2.8	35
53	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
54	Adult neurogenesis in the mammalian brain. <i>Frontiers in Biology</i> , 2013, 8, 295-304.	0.7	14

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55	Stage-Specific Functions of the Small Rho GTPases Cdc42 and Rac1 for Adult Hippocampal Neurogenesis. <i>Journal of Neuroscience</i> , 2013, 33, 1179-1189.	1.7	74
56	Metabolic control of adult neural stem cell activity by Fasn-dependent lipogenesis. <i>Nature</i> , 2013, 493, 226-230.	13.7	448
57	Imaging neurite development of adult-born granule cells. <i>Development (Cambridge)</i> , 2013, 140, 2823-2827.	1.2	12
58	Supersize meâ€”new insights into cortical expansion and gyration of the mammalian brain. <i>EMBO Journal</i> , 2013, 32, 1793-1795.	3.5	7
59	Paradoxical increase in survival of newborn neurons in the dentate gyrus of mice with constitutive depletion of serotonin. <i>European Journal of Neuroscience</i> , 2013, 38, 2650-2658.	1.2	38
60	<i>Zif268</i> / <i>egr1</i> gene controls the selection, maturation and functional integration of adult hippocampal newborn neurons by learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7062-7067.	3.3	79
61	All astrocytes are not created equalâ€”the role of astroglia in brain injury. <i>EMBO Reports</i> , 2013, 14, 487-488.	2.0	8
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	Imaging neurite development of adult-born granule cells. <i>Journal of Cell Science</i> , 2013, 126, e1-e1.	1.2	0
64	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
65	Adult hippocampal neurogenesis and plasticity in the infrapyramidal bundle of the mossy fiber projection: I. Co-regulation by activity. <i>Frontiers in Neuroscience</i> , 2011, 5, 107.	1.4	48
66	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
67	Perspectives on adult neurogenesis. <i>European Journal of Neuroscience</i> , 2011, 33, 1013-1017.	1.2	6
68	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
69	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
70	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
71	Adult Neurogenesis in Epilepsy. , 2011, , 37-52.		0
72	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

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73	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
74	Crossing Boundaries: Direct Programming of Fibroblasts into Neurons. <i>Cell Stem Cell</i> , 2010, 6, 189-191.	5.2	5
75	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
76	Making a neuron: Cdk5 in embryonic and adult neurogenesis. <i>Trends in Neurosciences</i> , 2009, 32, 575-582.	4.2	89
77	Fate plasticity of adult hippocampal progenitors: biological relevance and therapeutic use. <i>Trends in Pharmacological Sciences</i> , 2009, 30, 61-65.	4.0	17
78	Functional Amyloids As Natural Storage of Peptide Hormones in Pituitary Secretory Granules. <i>Science</i> , 2009, 325, 328-332.	6.0	903
79	A Functional Role for Adult Hippocampal Neurogenesis in Spatial Pattern Separation. <i>Science</i> , 2009, 325, 210-213.	6.0	1,414
80	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
81	Directed differentiation of hippocampal stem/progenitor cells in the adult brain. <i>Nature Neuroscience</i> , 2008, 11, 888-893.	7.1	242
82	Structural changes for adult-born dentate granule cells after status epilepticus. <i>Epilepsia</i> , 2008, 49, 13-18.	2.6	60
83	Stem-cell-associated structural and functional plasticity in the aging hippocampus. <i>Psychology and Aging</i> , 2008, 23, 684-691.	1.4	72
84	ADULT NEURAL PROGENITOR CELLS IN CNS FUNCTION AND DISEASE. , 2008, , 181-200.		1
85	Cdk5 Regulates Accurate Maturation of Newborn Granule Cells in the Adult Hippocampus. <i>PLoS Biology</i> , 2008, 6, e272.	2.6	112
86	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
87	ZOOMING IN: a new high-resolution gene expression atlas of the brain. <i>Molecular Systems Biology</i> , 2007, 3, 75.	3.2	6
88	Epigenetic Modulation of Seizure-Induced Neurogenesis and Cognitive Decline. <i>Journal of Neuroscience</i> , 2007, 27, 5967-5975.	1.7	316
89	Spontaneous Fusion and Nonclonal Growth of Adult Neural Stem Cells. <i>Stem Cells</i> , 2007, 25, 871-874.	1.4	54
90	Is neurogenesis reparative after status epilepticus?. <i>Epilepsia</i> , 2007, 48, 69-71.	2.6	27

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91	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
92	Wnt signalling regulates adult hippocampal neurogenesis. <i>Nature</i> , 2005, 437, 1370-1375.	13.7	1,363
93	<i>Neurogenesis</i> , 2005, , 261-289.		0
94	Seizures induce proliferation and dispersion of doublecortin-positive hippocampal progenitor cells. <i>Experimental Neurology</i> , 2005, 196, 342-351.	2.0	258
95	Differential regulation of gliogenesis in the context of adult hippocampal neurogenesis in mice. <i>Glia</i> , 2004, 46, 41-52.	2.5	290
96	Milestones of neuronal development in the adult hippocampus. <i>Trends in Neurosciences</i> , 2004, 27, 447-452.	4.2	1,254
97	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
98	Adult-born hippocampal neurons mature into activity-dependent responsiveness. <i>European Journal of Neuroscience</i> , 2003, 18, 2707-2712.	1.2	275
99	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
100	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
101	Visualization of Individual Cell Division History in Complex Tissues. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
102	Hippocampal neural stem cells rapidly change their metabolic profile during neuronal differentiation in cell culture . <i>Matters Select</i> , 0, , .	3.0	0
103	Enhanced plasticity of mature granule cells reduces survival of newborn neurons in the adult mouse hippocampus. <i>Matters Select</i> , 0, , .	3.0	0
104	FASN-Dependent Metabolism Links Neural Stem Cell Activity to Intellectual Disability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0