

Nicolas Toni

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

12,027
citations

61857

43
h-index

143772

57
g-index

63
all docs

63
docs citations

63
times ranked

12695
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional neurogenesis in the adult hippocampus. <i>Nature</i> , 2002, 415, 1030-1034.	13.7	2,558
2	LTP promotes formation of multiple spine synapses between a single axon terminal and a dendrite. <i>Nature</i> , 1999, 402, 421-425.	13.7	892
3	Neurons born in the adult dentate gyrus form functional synapses with target cells. <i>Nature Neuroscience</i> , 2008, 11, 901-907.	7.1	640
4	Human Adult Neurogenesis: Evidence and Remaining Questions. <i>Cell Stem Cell</i> , 2018, 23, 25-30.	5.2	601
5	PSA-NCAM Is Required for Activity-Induced Synaptic Plasticity. <i>Neuron</i> , 1996, 17, 413-422.	3.8	564
6	NMDA-receptor-mediated, cell-specific integration of new neurons in adult dentate gyrus. <i>Nature</i> , 2006, 442, 929-933.	13.7	550
7	Synapse formation on neurons born in the adult hippocampus. <i>Nature Neuroscience</i> , 2007, 10, 727-734.	7.1	499
8	Astrocyte function from information processing to cognition and cognitive impairment. <i>Nature Neuroscience</i> , 2019, 22, 154-166.	7.1	466
9	Cell fusion-independent differentiation of neural stem cells to the endothelial lineage. <i>Nature</i> , 2004, 430, 350-356.	13.7	331
10	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
11	An Effector-Reduced Anti-Amyloid (A β) Antibody with Unique A β Binding Properties Promotes Neuroprotection and Glial Engulfment of A β . <i>Journal of Neuroscience</i> , 2012, 32, 9677-9689.	1.7	266
12	Enhanced hippocampal long-term potentiation and learning by increased neuronal expression of tissue-type plasminogen activator in transgenic mice. <i>EMBO Journal</i> , 1999, 18, 3007-3012.	3.5	245
13	Polysialylated Neural Cell Adhesion Molecule Promotes Remodeling and Formation of Hippocampal Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 9372-9382.	1.7	244
14	Directed differentiation of hippocampal stem/progenitor cells in the adult brain. <i>Nature Neuroscience</i> , 2008, 11, 888-893.	7.1	242
15	Remodeling of Synaptic Membranes after Induction of Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2001, 21, 6245-6251.	1.7	228
16	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
17	Synaptic Integration of Adult-Born Hippocampal Neurons Is Locally Controlled by Astrocytes. <i>Neuron</i> , 2015, 88, 957-972.	3.8	220
18	Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. <i>Cell Metabolism</i> , 2013, 18, 844-859.	7.2	201

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19	Parvalbumin interneurons mediate neuronal circuitryâ€™ neurogenesis coupling in the adult hippocampus. <i>Nature Neuroscience</i> , 2013, 16, 1728-1730.	7.1	191
20	Development of functional human embryonic stem cell-derived neurons in mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18644-18648.	3.3	173
21	In vivo reprogramming of circuit connectivity in postmitotic neocortical neurons. <i>Nature Neuroscience</i> , 2013, 16, 193-200.	7.1	167
22	Maturation and Functional Integration of New Granule Cells into the Adult Hippocampus. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a018903.	2.3	134
23	Spine changes associated with long-term potentiation. <i>Hippocampus</i> , 2000, 10, 596-604.	0.9	126
24	Tau accumulation in astrocytes of the dentate gyrus induces neuronal dysfunction and memory deficits in Alzheimerâ€™s disease. <i>Nature Neuroscience</i> , 2020, 23, 1567-1579.	7.1	121
25	Cdk5 Regulates Accurate Maturation of Newborn Granule Cells in the Adult Hippocampus. <i>PLoS Biology</i> , 2008, 6, e272.	2.6	112
26	Tangential migration of neuronal precursors of glutamatergic neurons in the adult mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9484-9489.	3.3	109
27	Heterogeneity of Radial Glia-Like Cells in the Adult Hippocampus. <i>Stem Cells</i> , 2016, 34, 997-1010.	1.4	103
28	Activity-induced changes of spine morphology. <i>Hippocampus</i> , 2002, 12, 585-591.	0.9	101
29	Fine processes of Nestin-GFPâ€™ positive radial glia-like stem cells in the adult dentate gyrus ensheath local synapses and vasculature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2536-45.	3.3	99
30	Synapse formation on adultâ€™born hippocampal neurons. <i>European Journal of Neuroscience</i> , 2011, 33, 1062-1068.	1.2	83
31	Adult hippocampal neurogenesis inversely correlates with microglia in conditions of voluntary running and aging. <i>Frontiers in Neuroscience</i> , 2013, 7, 145.	1.4	82
32	Mossy Cells Control Adult Neural Stem Cell Quiescence and Maintenance through a Dynamic Balance between Direct and Indirect Pathways. <i>Neuron</i> , 2018, 99, 493-510.e4.	3.8	82
33	Genetic manipulation of adult-born hippocampal neurons rescues memory in a mouse model of Alzheimerâ€™s disease. <i>Brain</i> , 2015, 138, 440-455.	3.7	80
34	Astrocytesâ€™ Contribution to Adult Neurogenesis in Physiology and Alzheimerâ€™s Disease. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 432.	1.8	79
35	Hippocampusâ€™dependent learning is associated with adult neurogenesis in MRL/MpJ mice. <i>Hippocampus</i> , 2009, 19, 658-669.	0.9	75
36	Propofol Anesthesia Impairs the Maturation and Survival of Adult-born Hippocampal Neurons. <i>Anesthesiology</i> , 2013, 118, 602-610.	1.3	75

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37	Dysfunction of homeostatic control of dopamine by astrocytes in the developing prefrontal cortex leads to cognitive impairments. <i>Molecular Psychiatry</i> , 2020, 25, 732-749.	4.1	71
38	Bidirectional GABAergic control of action potential firing in newborn hippocampal granule cells. <i>Nature Neuroscience</i> , 2016, 19, 263-270.	7.1	60
39	Taurine increases hippocampal neurogenesis in aging mice. <i>Stem Cell Research</i> , 2015, 14, 369-379.	0.3	57
40	Differential Neurotoxic Effects of Propofol on Dissociated Cortical Cells and Organotypic Hippocampal Cultures. <i>Anesthesiology</i> , 2000, 92, 1408-1417.	1.3	51
41	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
42	An orally active anti-apoptotic molecule (CGP 3466B) preserves mitochondria and enhances survival in an animal model of motoneuron disease. <i>British Journal of Pharmacology</i> , 2000, 131, 721-728.	2.7	49
43	Pre-existing astrocytes form functional perisynaptic processes on neurons generated in the adult hippocampus. <i>Brain Structure and Function</i> , 2015, 220, 2027-2042.	1.2	46
44	Silent synapses generate sparse and orthogonal action potential firing in adult-born hippocampal granule cells. <i>ELife</i> , 2017, 6, .	2.8	42
45	Limits to human neurogenesis really?. <i>Molecular Psychiatry</i> , 2020, 25, 2207-2209.	4.1	42
46	Doxycycline increases neurogenesis and reduces microglia in the adult hippocampus. <i>Frontiers in Neuroscience</i> , 2013, 7, 131.	1.4	38
47	Integrins are involved in synaptogenesis, cell spreading, and adhesion in the postnatal brain. <i>Developmental Brain Research</i> , 2003, 140, 185-194.	2.1	33
48	The long-term survival of in vitro engineered nervous tissue derived from the specific neural differentiation of mouse embryonic stem cells. <i>Biomaterials</i> , 2010, 31, 7032-7042.	5.7	28
49	D-serine increases adult hippocampal neurogenesis. <i>Frontiers in Neuroscience</i> , 2013, 7, 155.	1.4	27
50	Role of adult hippocampal neurogenesis in the antidepressant actions of lactate. <i>Molecular Psychiatry</i> , 2021, 26, 6723-6735.	4.1	27
51	Distinct roles of NMDA receptors at different stages of granule cell development in the adult brain. <i>ELife</i> , 2015, 4, e07871.	2.8	26
52	A circuit-based gatekeeper for adult neural stem cell proliferation. <i>BioEssays</i> , 2013, 35, 28-33.	1.2	21
53	Extracellular vesicles: Major actors of heterogeneity in tau spreading among human tauopathies. <i>Molecular Therapy</i> , 2022, 30, 782-797.	3.7	17
54	Shedding of neurexin 3 ^{ect} ectodomain by ADAM10 releases a soluble fragment that affects the development of newborn neurons. <i>Scientific Reports</i> , 2016, 6, 39310.	1.6	16

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55	Staurosporine but not chelerythrine inhibits regeneration in hippocampal organotypic cultures. , 1997, 27, 199-207.		12
56	Synaptic Adhesion Molecules Regulate the Integration of New Granule Neurons in the Postnatal Mouse Hippocampus and their Impact on Spatial Memory. Cerebral Cortex, 2017, 27, 4048-4059.	1.6	12
57	Increased Efflux of Amyloid- β Peptides through the Blood-Brain Barrier by Muscarinic Acetylcholine Receptor Inhibition Reduces Pathological Phenotypes in Mouse Models of Brain Amyloidosis. Journal of Alzheimer's Disease, 2013, 38, 767-786.	1.2	11
58	Gradient of electro-convulsive therapy's antidepressant effects along the longitudinal hippocampal axis. Translational Psychiatry, 2021, 11, 191.	2.4	2
59	Synaptogenesis in the Adult CNS " Hippocampus. , 2013, , 723-738.		1
60	Forced neuronal interactions cause poor communication. Neurogenesis (Austin, Tex), 2017, 4, e1286424.	1.5	0
61	The Regulation of Adult Hippocampal Neurogenesis by Blood Circulating Factors in the Context of Anxiety and Depression. Biological Psychiatry, 2020, 87, S60.	0.7	0
62	Enhanced plasticity of mature granule cells reduces survival of newborn neurons in the adult mouse hippocampus. Matters Select, 0, , .	3.0	0