

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 | Extracellular vesicles: Major actors of heterogeneity in tau spreading among human tauopathies. <i>Molecular Therapy</i> , 2022, 30, 782-797. | 3.7 | 17 |
| 2 | Gradient of electro-convulsive therapy's antidepressant effects along the longitudinal hippocampal axis. <i>Translational Psychiatry</i> , 2021, 11, 191. | 2.4 | 2 |
| 3 | Role of adult hippocampal neurogenesis in the antidepressant actions of lactate. <i>Molecular Psychiatry</i> , 2021, 26, 6723-6735. | 4.1 | 27 |
| 4 | Limits to human neurogenesis "really?". <i>Molecular Psychiatry</i> , 2020, 25, 2207-2209. | 4.1 | 42 |
| 5 | 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 |
| 6 | Tau accumulation in astrocytes of the dentate gyrus induces neuronal dysfunction and memory deficits in Alzheimer's disease. <i>Nature Neuroscience</i> , 2020, 23, 1567-1579. | 7.1 | 121 |
| 7 | The Regulation of Adult Hippocampal Neurogenesis by Blood Circulating Factors in the Context of Anxiety and Depression. <i>Biological Psychiatry</i> , 2020, 87, S60. | 0.7 | 0 |
| 8 | Astrocyte function from information processing to cognition and cognitive impairment. <i>Nature Neuroscience</i> , 2019, 22, 154-166. | 7.1 | 466 |
| 9 | Human Adult Neurogenesis: Evidence and Remaining Questions. <i>Cell Stem Cell</i> , 2018, 23, 25-30. | 5.2 | 601 |
| 10 | Astrocytes' Contribution to Adult Neurogenesis in Physiology and Alzheimer's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 432. | 1.8 | 79 |
| 11 | 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 |
| 12 | Synaptic Adhesion Molecules Regulate the Integration of New Granule Neurons in the Postnatal Mouse Hippocampus and their Impact on Spatial Memory. <i>Cerebral Cortex</i> , 2017, 27, 4048-4059. | 1.6 | 12 |
| 13 | 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 |
| 14 | Forced neuronal interactions cause poor communication. <i>Neurogenesis (Austin, Tex)</i> , 2017, 4, e1286424. | 1.5 | 0 |
| 15 | Silent synapses generate sparse and orthogonal action potential firing in adult-born hippocampal granule cells. <i>ELife</i> , 2017, 6, . | 2.8 | 42 |
| 16 | Shedding of neuroligin 3 ectodomain by ADAM10 releases a soluble fragment that affects the development of newborn neurons. <i>Scientific Reports</i> , 2016, 6, 39310. | 1.6 | 16 |
| 17 | Fine processes of Nestin-GFP-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 |
| 18 | Heterogeneity of Radial Glia-Like Cells in the Adult Hippocampus. <i>Stem Cells</i> , 2016, 34, 997-1010. | 1.4 | 103 |

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|----|--|-----|-----------|
| 19 | Maturation and Functional Integration of New Granule Cells into the Adult Hippocampus. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018903. | 2.3 | 134 |
| 20 | Bidirectional GABAergic control of action potential firing in newborn hippocampal granule cells. Nature Neuroscience, 2016, 19, 263-270. | 7.1 | 60 |
| 21 | Genetic manipulation of adult-born hippocampal neurons rescues memory in a mouse model of Alzheimer's disease. Brain, 2015, 138, 440-455. | 3.7 | 80 |
| 22 | Tangential migration of neuronal precursors of glutamatergic neurons in the adult mammalian brain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9484-9489. | 3.3 | 109 |
| 23 | Taurine increases hippocampal neurogenesis in aging mice. Stem Cell Research, 2015, 14, 369-379. | 0.3 | 57 |
| 24 | 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 |
| 25 | Synaptic Integration of Adult-Born Hippocampal Neurons Is Locally Controlled by Astrocytes. Neuron, 2015, 88, 957-972. | 3.8 | 220 |
| 26 | Pre-existing astrocytes form functional perisynaptic processes on neurons generated in the adult hippocampus. Brain Structure and Function, 2015, 220, 2027-2042. | 1.2 | 46 |
| 27 | Distinct roles of NMDA receptors at different stages of granule cell development in the adult brain. ELife, 2015, 4, e07871. | 2.8 | 26 |
| 28 | Parvalbumin interneurons mediate neuronal circuitry-neurogenesis coupling in the adult hippocampus. Nature Neuroscience, 2013, 16, 1728-1730. | 7.1 | 191 |
| 29 | Inflammation-Induced Alteration of Astrocyte Mitochondrial Dynamics Requires Autophagy for Mitochondrial Network Maintenance. Cell Metabolism, 2013, 18, 844-859. | 7.2 | 201 |
| 30 | Synaptogenesis in the Adult CNS "Hippocampus. , 2013, , 723-738. | | 1 |
| 31 | In vivo reprogramming of circuit connectivity in postmitotic neocortical neurons. Nature Neuroscience, 2013, 16, 193-200. | 7.1 | 167 |
| 32 | A circuit-based gatekeeper for adult neural stem cell proliferation. BioEssays, 2013, 35, 28-33. | 1.2 | 21 |
| 33 | Doxycycline increases neurogenesis and reduces microglia in the adult hippocampus. Frontiers in Neuroscience, 2013, 7, 131. | 1.4 | 38 |
| 34 | Adult hippocampal neurogenesis inversely correlates with microglia in conditions of voluntary running and aging. Frontiers in Neuroscience, 2013, 7, 145. | 1.4 | 82 |
| 35 | D-serine increases adult hippocampal neurogenesis. Frontiers in Neuroscience, 2013, 7, 155. | 1.4 | 27 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Propofol Anesthesia Impairs the Maturation and Survival of Adult-born Hippocampal Neurons. <i>Anesthesiology</i> , 2013, 118, 602-610. | 1.3 | 75 |
| 38 | An Effector-Reduced Anti- β -Amyloid ($A\beta$) Antibody with Unique $A\beta$ Binding Properties Promotes Neuroprotection and Glial Engulfment of $A\beta$. <i>Journal of Neuroscience</i> , 2012, 32, 9677-9689. | 1.7 | 266 |
| 39 | Synapse formation on adult-born hippocampal neurons. <i>European Journal of Neuroscience</i> , 2011, 33, 1062-1068. | 1.2 | 83 |
| 40 | 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 |
| 41 | Hippocampus-dependent learning is associated with adult neurogenesis in MRL/Mpj mice. <i>Hippocampus</i> , 2009, 19, 658-669. | 0.9 | 75 |
| 42 | Directed differentiation of hippocampal stem/progenitor cells in the adult brain. <i>Nature Neuroscience</i> , 2008, 11, 888-893. | 7.1 | 242 |
| 43 | Neurons born in the adult dentate gyrus form functional synapses with target cells. <i>Nature Neuroscience</i> , 2008, 11, 901-907. | 7.1 | 640 |
| 44 | Cdk5 Regulates Accurate Maturation of Newborn Granule Cells in the Adult Hippocampus. <i>PLoS Biology</i> , 2008, 6, e272. | 2.6 | 112 |
| 45 | 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 |
| 46 | Synapse formation on neurons born in the adult hippocampus. <i>Nature Neuroscience</i> , 2007, 10, 727-734. | 7.1 | 499 |
| 47 | NMDA-receptor-mediated, cell-specific integration of new neurons in adult dentate gyrus. <i>Nature</i> , 2006, 442, 929-933. | 13.7 | 550 |
| 48 | 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 |
| 49 | Polysialylated Neural Cell Adhesion Molecule Promotes Remodeling and Formation of Hippocampal Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 9372-9382. | 1.7 | 244 |
| 50 | Cell fusion-independent differentiation of neural stem cells to the endothelial lineage. <i>Nature</i> , 2004, 430, 350-356. | 13.7 | 331 |
| 51 | 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 |
| 52 | Activity-induced changes of spine morphology. <i>Hippocampus</i> , 2002, 12, 585-591. | 0.9 | 101 |
| 53 | Functional neurogenesis in the adult hippocampus. <i>Nature</i> , 2002, 415, 1030-1034. | 13.7 | 2,558 |
| 54 | Remodeling of Synaptic Membranes after Induction of Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2001, 21, 6245-6251. | 1.7 | 228 |

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|----|--|------|-----------|
| 55 | Differential Neurotoxic Effects of Propofol on Dissociated Cortical Cells and Organotypic Hippocampal Cultures. <i>Anesthesiology</i> , 2000, 92, 1408-1417. | 1.3 | 51 |
| 56 | Spine changes associated with long-term potentiation. <i>Hippocampus</i> , 2000, 10, 596-604. | 0.9 | 126 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Staurosporine but not chelerythrine inhibits regeneration in hippocampal organotypic cultures. , 1997, 27, 199-207. | | 12 |
| 61 | PSA NCAM Is Required for Activity-Induced Synaptic Plasticity. <i>Neuron</i> , 1996, 17, 413-422. | 3.8 | 564 |
| 62 | Enhanced plasticity of mature granule cells reduces survival of newborn neurons in the adult mouse hippocampus. <i>Matters Select</i> , 0, , . | 3.0 | 0 |