Ari Barzilai

List of Publications by Year
in descending order

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50 papers	4,038 citations	236925 25 h-index	197818 49 g-index
50 all docs	50 docs citations	50 times ranked	5281 citing authors

#	Article	IF	Citations
1	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	14.8	1,098
2	DNA damage responses to oxidative stress. DNA Repair, 2004, 3, 1109-1115.	2.8	615
3	ATM deficiency and oxidative stress: a new dimension of defective response to DNA damage. DNA Repair, 2002, 1, 3-25.	2.8	333
4	Semaphorins as Mediators of Neuronal Apoptosis. Journal of Neurochemistry, 2001, 73, 961-971.	3.9	134
5	Molecular mechanisms of selective dopaminergic neuronal death in Parkinson's disease. Trends in Molecular Medicine, 2003, 9, 126-132.	6.7	131
6	The role of the DNA damage response in neuronal development, organization and maintenance. DNA Repair, 2008, 7, 1010-1027.	2.8	124
7	The neurological phenotype of ataxia-telangiectasia: Solving a persistent puzzle. DNA Repair, 2008, 7, 1028-1038.	2.8	118
8	Anti-semaphorin 3A Antibodies Rescue Retinal Ganglion Cells from Cell Death following Optic Nerve Axotomy. Journal of Biological Chemistry, 2002, 277, 49799-49807.	3.4	95
9	Levodopa induces apoptosis in cultured neuronal cellsâ€"A possible accelerator of nigrostriatal degeneration in Parkinson's disease?. Movement Disorders, 1997, 12, 17-23.	3.9	90
10	Activation of nuclear transcription factor kappa B (NF-Î²B) is essential for dopamine-induced apoptosis in PC12 cells. Journal of Neurochemistry, 2001, 77, 391-398.	3.9	86
11	Accumulation of DNA Damage and Reduced Levels of Nicotine Adenine Dinucleotide in the Brains of Atm-deficient Mice. Journal of Biological Chemistry, 2002, 277, 602-608.	3.4	85
12	Astrocytes from old Alzheimer's disease mice are impaired in Aî² uptake and in neuroprotection. Neurobiology of Disease, 2016, 96, 84-94.	4.4	85
13	Biochemical and Temporal Analysis of Events Associated with Apoptosis Induced by Lowering the Extracellular Potassium Concentration in Mouse Cerebellar Granule Neurons. Journal of Neurochemistry, 1997, 68, 750-759.	3.9	79
14	Levodopa Toxicity and Apoptosis. Annals of Neurology, 1998, 44, S149-54.	5.3	70
15	Is there a rationale for neuroprotection against dopamine toxicity in Parkinson's disease?. Cellular and Molecular Neurobiology, 2001, 21, 215-235.	3.3	65
16	Nuclear Ataxia-Telangiectasia Mutated (ATM) Mediates the Cellular Response to DNA Double Strand Breaks in Human Neuron-like Cells. Journal of Biological Chemistry, 2006, 281, 17482-17491.	3.4	65
17	Monoamine-induced apoptotic neuronal cell death. Cellular and Molecular Neurobiology, 1997, 17, 101-118.	3.3	63
18	The Contribution of the DNA Damage Response to Neuronal Viability. Antioxidants and Redox Signaling, 2007, 9, 211-218.	5.4	59

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19	DNA damage, neuronal and glial cell death and neurodegeneration. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 1371-1381.	4.9	49
20	The involvement of p53 in dopamine-induced apoptosis of cerebellar granule neurons and leukemic cells overexpressing p53. Cellular and Molecular Neurobiology, 1999, 19, 261-276.	3.3	46
21	Expression of cell cycle-related genes during neuronal apoptosis: is there a distinct pattern?. Neurochemical Research, 1998, 23, 767-777.	3.3	40
22	Two Waves of Cyclin B and Proliferating Cell Nuclear Antigen Expression During Dopamineâ€Triggered Neuronal Apoptosis. Journal of Neurochemistry, 1997, 69, 539-549.	3.9	40
23	Analysis of the Ataxia Telangiectasia Mutated-Mediated DNA Damage Response in Murine Cerebellar Neurons. Journal of Neuroscience, 2006, 26, 7767-7774.	3.6	40
24	Clique of Functional Hubs Orchestrates Population Bursts in Developmentally Regulated Neural Networks. PLoS Computational Biology, 2014, 10, e1003823.	3.2	32
25	MRI evidence of white matter damage in a mouse model of Nijmegen breakage syndrome. Experimental Neurology, 2008, 209, 181-191.	4.1	29
26	Connecting Malfunctioning Glial Cells and Brain Degenerative Disorders. Genomics, Proteomics and Bioinformatics, 2016, 14, 155-165.	6.9	28
27	Examination of cellular and molecular events associated with optic nerve axotomy. Glia, 2006, 54, 545-556.	4.9	25
28	Investigation of the Functional Link between ATM and NBS1 in the DNA Damage Response in the Mouse Cerebellum. Journal of Biological Chemistry, 2011, 286, 15361-15376.	3.4	24
29	Astrocytes restore connectivity and synchronization in dysfunctional cerebellar networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8025-8030.	7.1	23
30	A Role for Vascular Deficiency in Retinal Pathology in a Mouse Model of Ataxia-Telangiectasia. American Journal of Pathology, 2011, 179, 1533-1541.	3.8	22
31	Toward neuroprosthetic real-time communication from in silico to biological neuronal network via patterned optogenetic stimulation. Scientific Reports, 2020, 10, 7512.	3.3	22
32	Conditional inactivation of the NBS1 gene in the mouse central nervous system leads to neurodegeneration and disorganization of the visual system. Experimental Neurology, 2009, 218, 24-32.	4.1	21
33	Activity changes in neuron-astrocyte networks in culture under the effect of norepinephrine. PLoS ONE, 2018, 13, e0203761.	2.5	20
34	Distinctly Phosphorylated Neurofilaments in Different Classes of Neurons. Journal of Neurochemistry, 2002, 62, 770-776.	3.9	15
35	The neuro-glial-vascular interrelations in genomic instability symptoms. Mechanisms of Ageing and Development, 2011, 132, 395-404.	4.6	15
36	Astrocyte Dysfunction Associated with Cerebellar Attrition in a Nijmegen Breakage Syndrome Animal Model. Journal of Molecular Neuroscience, 2011, 45, 202-211.	2.3	15

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37	Malfunctioning DNA Damage Response (DDR) Leads to the Degeneration of Nigro-Striatal Pathway in Mouse Brain. Journal of Molecular Neuroscience, 2012, 46, 554-568.	2.3	15
38	Inactive Atm abrogates DSB repair in mouse cerebellum more than does Atm loss, without causing a neurological phenotype. DNA Repair, 2018, 72, 10-17.	2.8	15
39	The molecular mechanisms of dopamine toxicity. Advances in Neurology, 2003, 91, 73-82.	0.8	15
40	Reduced Synchronization Persistence in Neural Networks Derived from Atm-Deficient Mice. Frontiers in Neuroscience, 2011, 5, 46.	2.8	13
41	The Role of the Neuro-Astro-Vascular Unit in the Etiology of Ataxia Telangiectasia. Frontiers in Pharmacology, 2012, 3, 157.	3.5	13
42	NBS1 interacts with Notch signaling in neuronal homeostasis. Nucleic Acids Research, 2020, 48, 10924-10939.	14.5	13
43	Dysfunction of cerebellar microglia in <scp>Ataxiaâ€telangiectasia</scp>. Glia, 2022, 70, 536-557.	4.9	12
44	The interrelations between malfunctioning DNA damage response (DDR) and the functionality of the neuro-glio-vascular unit. DNA Repair, 2013, 12, 543-557.	2.8	11
45	Genome instability: Linking ageing and brain degeneration. Mechanisms of Ageing and Development, 2017, 161, 4-18.	4.6	11
46	Genome maintenance in the nervous system; insight into the role of the DNA damage response in brain development and disease. DNA Repair, 2013, 12, 541-542.	2.8	6
47	Design, Surface Treatment, Cellular Plating, and Culturing of Modular Neuronal Networks Composed of Functionally Inter-connected Circuits. Journal of Visualized Experiments, 2015, , .	0.3	6
48	Calcium imaging, MEA recordings, and immunostaining images dataset of neuron-astrocyte networks in culture under the effect of norepinephrine. GigaScience, 2019, 8, .	6.4	5
49	Inhibition of Sema-3A Promotes Cell Migration, Axonal Growth, and Retinal Ganglion Cell Survival. Translational Vision Science and Technology, 2021, 10, 16.	2.2	2
50	An evolutionary perspective on signaling peptides: toxic peptides are selected to provide information regarding the processing of the propeptide, which represents the phenotypic state of the signaling cell. F1000Research, 2015, 4, 512.	1.6	0