

# Eitan Okun

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

4,900  
citations

147801

31  
h-index

95266

68  
g-index

78  
all docs

78  
docs citations

78  
times ranked

8298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toll-like receptor signaling in neural plasticity and disease. Trends in Neurosciences, 2011, 34, 269-281.	8.6	430
2	Toll-like receptors in neurodegeneration. Brain Research Reviews, 2009, 59, 278-292.	9.0	372
3	Involvement of PGC-1 $\beta$ in the formation and maintenance of neuronal dendritic spines. Nature Communications, 2012, 3, 1250.	12.8	308
4	Effects of cerium oxide nanoparticles on the growth of keratinocytes, fibroblasts and vascular endothelial cells in cutaneous wound healing. Biomaterials, 2013, 34, 2194-2201.	11.4	301
5	A ketone ester diet exhibits anxiolytic and cognition-sparing properties, and lessens amyloid and tau pathologies in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2013, 34, 1530-1539.	3.1	277
6	TOLL-LIKE RECEPTORS IN ISCHEMIA-REPERFUSION INJURY. Shock, 2009, 32, 4-16.	2.1	264
7	Gamma secretase $\beta$ -mediated Notch signaling worsens brain damage and functional outcome in ischemic stroke. Nature Medicine, 2006, 12, 621-623.	30.7	229
8	DAMPs as mediators of sterile inflammation in aging-related pathologies. Ageing Research Reviews, 2015, 24, 29-39.	10.9	213
9	The effect of nanoparticle size on the ability to cross the blood-brain barrier: an <i>in vivo</i> study. Nanomedicine, 2017, 12, 1533-1546.	3.3	205
10	Toll-Like Receptor 3 Is a Negative Regulator of Embryonic Neural Progenitor Cell Proliferation. Journal of Neuroscience, 2008, 28, 13978-13984.	3.6	183
11	Toll-like receptor 3 inhibits memory retention and constrains adult hippocampal neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15625-15630.	7.1	173
12	Involvement of Fc Receptors in Disorders of the Central Nervous System. NeuroMolecular Medicine, 2010, 12, 164-178.	3.4	110
13	Evidence for a Developmental Role for TLR4 in Learning and Memory. PLoS ONE, 2012, 7, e47522.	2.5	106
14	Extracellular DAMPs in Plants and Mammals: Immunity, Tissue Damage and Repair. Trends in Immunology, 2018, 39, 937-950.	6.8	105
15	TLR2 activation inhibits embryonic neural progenitor cell proliferation. Journal of Neurochemistry, 2010, 114, 462-474.	3.9	91
16	L-Lactate Promotes Adult Hippocampal Neurogenesis. Frontiers in Neuroscience, 2019, 13, 403.	2.8	88
17	GLP-1 receptor stimulation depresses heart rate variability and inhibits neurotransmission to cardiac vagal neurons. Cardiovascular Research, 2011, 89, 72-78.	3.8	85
18	Evidence that collaboration between HIF-1 $\beta$ and Notch-1 promotes neuronal cell death in ischemic stroke. Neurobiology of Disease, 2014, 62, 286-295.	4.4	75

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19	Therapeutic B-cell depletion reverses progression of Alzheimer's disease. <i>Nature Communications</i> , 2021, 12, 2185.	12.8	75
20	Opposing actions of environmental enrichment and Alzheimer's disease on the expression of hippocampal microRNAs in mouse models. <i>Translational Psychiatry</i> , 2013, 3, e304-e304.	4.8	73
21	The organotellurium compound ammonium trichloro(dioxoethylene-0,0') tellurate enhances neuronal survival and improves functional outcome in an ischemic stroke model in mice. <i>Journal of Neurochemistry</i> , 2007, 102, 1232-1241.	3.9	61
22	Toll-like receptors as developmental tools that regulate neurogenesis during development: an update. <i>Frontiers in Neuroscience</i> , 2014, 8, 272.	2.8	59
23	Dietary energy intake modifies brainstem autonomic dysfunction caused by mutant $\alpha$ -synuclein. <i>Neurobiology of Aging</i> , 2013, 34, 928-935.	3.1	58
24	Toll-like receptor 3 deficiency decreases epileptogenesis in a pilocarpine model of $\text{SE}$ -induced epilepsy in mice. <i>Epilepsia</i> , 2017, 58, 586-596.	5.1	52
25	Unbiased classification of spatial strategies in the Barnes maze. <i>Bioinformatics</i> , 2016, 32, 3314-3320.	4.1	51
26	Unraveling cognitive traits using the Morris water maze unbiased strategy classification (MUST-C) algorithm. <i>Brain, Behavior, and Immunity</i> , 2016, 52, 132-144.	4.1	50
27	Evidence that adiponectin receptor 1 activation exacerbates ischemic neuronal death. <i>Experimental &amp; Translational Stroke Medicine</i> , 2010, 2, 15.	3.2	45
28	The Therapeutic Potential of microRNAs in Nervous System Damage, Degeneration, and Repair. <i>NeuroMolecular Medicine</i> , 2009, 11, 153-161.	3.4	43
29	Experimental handling stress as infection-facilitating factor for the goldfish ulcerative disease. <i>Veterinary Immunology and Immunopathology</i> , 2006, 109, 279-287.	1.2	42
30	Toll-like receptors 2 and 4 modulate autonomic control of heart rate and energy metabolism. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 90-100.	4.1	35
31	The Tellurium compound, AS101, increases SIRT1 level and activity and prevents type 2 diabetes. <i>Aging</i> , 2012, 4, 436-447.	3.1	34
32	Physiology and pharmacology of amyloid precursor protein. , 2022, 235, 108122.		33
33	Specific Susceptibility to COVID-19 in Adults with Down Syndrome. <i>NeuroMolecular Medicine</i> , 2021, 23, 561-571.	3.4	30
34	Pancreatic polypeptide inhibits somatostatin secretion. <i>FEBS Letters</i> , 2014, 588, 3233-3239.	2.8	28
35	Cardiovascular Fitness and Cognitive Spatial Learning in Rodents and in Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1059-1066.	3.6	28
36	Rapamycin and curcumin induce apoptosis in primary resting B chronic lymphocytic leukemia cells. <i>Leukemia and Lymphoma</i> , 2009, 50, 625-632.	1.3	26

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37	Immune Dysregulation and the Increased Risk of Complications and Mortality Following Respiratory Tract Infections in Adults With Down Syndrome. <i>Frontiers in Immunology</i> , 2021, 12, 621440.	4.8	26
38	Deficiency of Toll-like receptors 2, 3 or 4 extends life expectancy in Huntington's disease mice. <i>Heliyon</i> , 2018, 4, e00508.	3.2	25
39	Tomosyn Expression Pattern in the Mouse Hippocampus Suggests Both Presynaptic and Postsynaptic Functions. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 149.	1.7	24
40	Electroconvulsive shock ameliorates disease processes and extends survival in huntingtin mutant mice. <i>Human Molecular Genetics</i> , 2011, 20, 659-669.	2.9	24
41	Aberrant heart rate and brainstem brain-derived neurotrophic factor (BDNF) signaling in a mouse model of Huntington's disease. <i>Neurobiology of Aging</i> , 2012, 33, 1481.e1-1481.e5.	3.1	24
42	High-Intensity Functional Training: Molecular Mechanisms and Benefits. <i>NeuroMolecular Medicine</i> , 2021, 23, 335-338.	3.4	22
43	DNA immunization with HBsAg-based particles expressing a B cell epitope of amyloid $\beta$ -peptide attenuates disease progression and prolongs survival in a mouse model of Alzheimer's disease. <i>Vaccine</i> , 2012, 30, 1650-1658.	3.8	20
44	Restoring microglial and astroglial homeostasis using DNA immunization in a Down Syndrome mouse model. <i>Brain, Behavior, and Immunity</i> , 2019, 75, 163-180.	4.1	19
45	Synergistic effect of AS101 and Bryostatin-1 on myeloid leukemia cell differentiation in vitro and in an animal model. <i>Leukemia</i> , 2007, 21, 1504-1513.	7.2	18
46	The organotellurium compound ammonium trichloro(dioxoethylene- $\sigma$ -tellurate reacts with homocysteine to form homocystine and decreases homocysteine levels in hyperhomocysteinemic mice. <i>FEBS Journal</i> , 2007, 274, 3159-3170.	4.7	18
47	Sirt6 alters adult hippocampal neurogenesis. <i>PLoS ONE</i> , 2017, 12, e0179681.	2.5	18
48	Neuron-Specific Expression of Tomosyn1 in the Mouse Hippocampal Dentate Gyrus Impairs Spatial Learning and Memory. <i>NeuroMolecular Medicine</i> , 2013, 15, 351-363.	3.4	17
49	Postnatal TLR2 activation impairs learning and memory in adulthood. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 301-312.	4.1	16
50	Dopaminergic Modulation of Synaptic Integration and Firing Patterns in the Rat Entopeduncular Nucleus. <i>Journal of Neuroscience</i> , 2017, 37, 7177-7187.	3.6	15
51	The Toll Pathway in the Central Nervous System of Flies and Mammals. <i>NeuroMolecular Medicine</i> , 2018, 20, 419-436.	3.4	15
52	Evidence for Altered Numb Isoform Levels in Alzheimer's Disease Patients and a Triple Transgenic Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2011, 24, 349-361.	2.6	14
53	The Effects of High-intensity Functional Training (HIFT) on Spatial Learning, Visual Pattern Separation and Attention Span in Adolescents. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 577390.	2.0	14
54	Dopamine receptors in the rat entopeduncular nucleus. <i>Brain Structure and Function</i> , 2018, 223, 2673-2684.	2.3	13

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55	Upregulation of carp GDNF mRNA by the immunomodulator AS101. <i>Developmental and Comparative Immunology</i> , 2006, 30, 441-446.	2.3	12
56	Tellurium Compound AS101 Ameliorates Experimental Autoimmune Encephalomyelitis by VLA-4 Inhibition and Suppression of Monocyte and T Cell Infiltration into the CNS. <i>NeuroMolecular Medicine</i> , 2014, 16, 292-307.	3.4	12
57	A modified Barnes maze for an accurate assessment of spatial learning in mice. <i>Journal of Neuroscience Methods</i> , 2020, 334, 108579.	2.5	12
58	A protocol for quantitative analysis of murine and human amyloid- $\beta$ 1-40 and 1-42. <i>Journal of Neuroscience Methods</i> , 2017, 291, 28-35.	2.5	11
59	Adult Hippocampal Neurogenesis: One Lactate to Rule Them All. <i>NeuroMolecular Medicine</i> , 2021, 23, 445-448.	3.4	11
60	Maternal antibodies facilitate Amyloid- $\beta$ 2 clearance by activating Fc-receptor-Syk-mediated phagocytosis. <i>Communications Biology</i> , 2021, 4, 329.	4.4	8
61	COVID-19 Vaccination of Individuals with Down Syndrome—Data from the Trisomy 21 Research Society Survey on Safety, Efficacy, and Factors Associated with the Decision to Be Vaccinated. <i>Vaccines</i> , 2022, 10, 530.	4.4	8
62	Novel Involvement of the Immunomodulator AS101 in IL-10 Signaling, via the Tyrosine Kinase Fer. <i>Annals of the New York Academy of Sciences</i> , 2007, 1095, 240-250.	3.8	7
63	Induction of an effective anti-Amyloid- $\beta$ 2 humoral response in aged mice. <i>Vaccine</i> , 2021, 39, 4817-4829.	3.8	7
64	Adhesion- and migration-related side effects of phosphothioated CpG oligodeoxynucleotides. <i>Cell Adhesion and Migration</i> , 2009, 3, 272-274.	2.7	5
65	Phosphothioated oligodeoxynucleotides induce nonspecific effects on neuronal cell adhesion in a growth substrate-dependent manner. <i>Journal of Neuroscience Research</i> , 2009, 87, 1947-1952.	2.9	5
66	HCAR1-Mediated L-Lactate Signaling Suppresses Microglial Phagocytosis. <i>NeuroMolecular Medicine</i> , 2022, 24, 399-404.	3.4	4
67	No ECSIT essential evidence for a link with Alzheimer's disease yet (retrospective on DOI) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 5	2.5	3
68	Mild Physical Activity Does Not Improve Spatial Learning in a Virtual Environment. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 584052.	2.0	3
69	Neuronal Vulnerability to Oxidative Damage in Aging. , 2009, , 83-95.		1
70	Basis of Ionic Dysregulation in Cerebral Ischemia. , 2009, , 1-11.		1
71	Food and Age: It Takes Two to Degenerate. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 182.	3.4	1
72	A heavy toll on the outcome of ischemic brain stroke. <i>Experimental Neurology</i> , 2014, 254, 166-167.	4.1	0

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73	Roles of Innate Immunity and Inflammation in the Aging Brain. Oxidative Stress and Disease, 2011, , .	0.3	0