Oleg Butovsky

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7270079/publications.pdf

Version: 2024-02-01

83 papers	18,984 citations	38742 50 h-index	64796 79 g-index

91 all docs	91 docs citations	91 times ranked	20395 citing authors

#	Article	IF	Citations
1	Identification of a unique TGF-Î²â€“dependent molecular and functional signature in microglia. Nature Neuroscience, 2014, 17, 131-143.	14.8	2,056
2	The TREM2-APOE Pathway Drives the Transcriptional Phenotype of Dysfunctional Microglia in Neurodegenerative Diseases. Immunity, 2017, 47, 566-581.e9.	14.3	1,741
3	Microglia Function in the Central Nervous System During Health and Neurodegeneration. Annual Review of Immunology, 2017, 35, 441-468.	21.8	1,450
4	Depletion of microglia and inhibition of exosome synthesis halt tau propagation. Nature Neuroscience, 2015, 18, 1584-1593.	14.8	1,142
5	Immune cells contribute to the maintenance of neurogenesis and spatial learning abilities in adulthood. Nature Neuroscience, 2006, 9, 268-275.	14.8	1,072
6	ApoE4 markedly exacerbates tau-mediated neurodegeneration in a mouse model of tauopathy. Nature, 2017, 549, 523-527.	27.8	852
7	Microglia activated by IL-4 or IFN-Î³ differentially induce neurogenesis and oligodendrogenesis from adult stem/progenitor cells. Molecular and Cellular Neurosciences, 2006, 31, 149-160.	2.2	810
8	Differential roles of microglia and monocytes in the inflamed central nervous system. Journal of Experimental Medicine, 2014, 211, 1533-1549.	8.5	711
9	Microglial signatures and their role in health and disease. Nature Reviews Neuroscience, 2018, 19, 622-635.	10.2	599
10	TREM2 deficiency eliminates TREM2+ inflammatory macrophages and ameliorates pathology in Alzheimerâ€™s disease mouse models. Journal of Experimental Medicine, 2015, 212, 287-295.	8.5	538
11	Loss of â€˜homeostaticâ€™ microglia and patterns of their activation in active multiple sclerosis. Brain, 2017, 140, 1900-1913.	7.6	475
12	Modulating inflammatory monocytes with a unique microRNA gene signature ameliorates murine ALS. Journal of Clinical Investigation, 2012, 122, 3063-3087.	8.2	403
13	Microglial phenotype: is the commitment reversible?. Trends in Neurosciences, 2006, 29, 68-74.	8.6	394
14	Glatiramer acetate fights against Alzheimerâ€™s disease by inducing dendritic-like microglia expressing insulin-like growth factor 1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11784-11789.	7.1	362
15	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. Nature Neuroscience, 2019, 22, 191-204.	14.8	358
16	Passive or Active Immunization with Myelin Basic Protein Promotes Recovery from Spinal Cord Contusion. Journal of Neuroscience, 2000, 20, 6421-6430.	3.6	348
17	Dark microglia: A new phenotype predominantly associated with pathological states. Glia, 2016, 64, 826-839.	4.9	325
18	Activation of microglia by aggregated Î²-amyloid or lipopolysaccharide impairs MHC-II expression and renders them cytotoxic whereas IFN-Î³ and IL-4 render them protective. Molecular and Cellular Neurosciences, 2005, 29, 381-393.	2.2	320

#	Article	IF	Citations
19	Targeting mi<scp>R</scp>â€155 restores abnormal microglia and attenuates disease in <scp>SOD</scp>1 mice. Annals of Neurology, 2015, 77, 75-99.	5.3	295
20	Type I interferon response drives neuroinflammation and synapse loss in Alzheimer disease. Journal of Clinical Investigation, 2020, 130, 1912-1930.	8.2	268
21	<scp>TREM</scp>2 deficiency impairs chemotaxis and microglial responses to neuronal injury. EMBO Reports, 2017, 18, 1186-1198.	4.5	240
22	Induction and blockage of oligodendrogenesis by differently activated microglia in an animal model of multiple sclerosis. Journal of Clinical Investigation, 2006, 116, 905-915.	8.2	231
23	TDP-43 loss and ALS-risk SNPs drive mis-splicing and depletion of UNC13A. Nature, 2022, 603, 131-137.	27.8	188
24	Postmortem Cortex Samples Identify Distinct Molecular Subtypes of ALS: Retrotransposon Activation, Oxidative Stress, and Activated Glia. Cell Reports, 2019, 29, 1164-1177.e5.	6.4	184
25	Characterisation of Immune and Neuroinflammatory Changes Associated with Chemotherapy-Induced Peripheral Neuropathy. PLoS ONE, 2017, 12, e0170814.	2.5	177
26	Microglia, Lifestyle Stress, and Neurodegeneration. Immunity, 2020, 52, 222-240.	14.3	174
27	Sex-specific effects of microbiome perturbations on cerebral AÎ² amyloidosis and microglia phenotypes. Journal of Experimental Medicine, 2019, 216, 1542-1560.	8.5	165
28	Vaccination for Neuroprotection in the Mouse Optic Nerve: Implications for Optic Neuropathies. Journal of Neuroscience, 2001, 21, 136-142.	3.6	163
29	Selective removal of astrocytic APOE4 strongly protects against tau-mediated neurodegeneration and decreases synaptic phagocytosis by microglia. Neuron, 2021, 109, 1657-1674.e7.	8.1	151
30	Selective ablation of bone marrowâ€derived dendritic cells increases amyloid plaques in a mouse Alzheimer's disease model. European Journal of Neuroscience, 2007, 26, 413-416.	2.6	150
31	Competitive repopulation of an empty microglial niche yields functionally distinct subsets of microglia-like cells. Nature Communications, 2018, 9, 4845.	12.8	148
32	Features of skin-coincubated macrophages that promote recovery from spinal cord injury. Journal of Neuroimmunology, 2003, 142, 10-16.	2.3	140
33	P2Y12 expression and function in alternatively activated human microglia. Neurology: Neuroimmunology and NeuroInflammation, 2015, 2, e80.	6.0	139
34	Early life stress perturbs the maturation of microglia in the developing hippocampus. Brain, Behavior, and Immunity, 2016, 57, 79-93.	4.1	139
35	Microglia inhibit photoreceptor cell death and regulate immune cell infiltration in response to retinal detachment. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6264-E6273.	7.1	104
36	Retinal microglia initiate neuroinflammation in ocular autoimmunity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9989-9998.	7.1	104

#	Article	IF	Citations
37	Morphological aspects of spinal cord autoimmune neuroprotection: colocalization of T cells with B7â€“2 (CD86) and prevention of cyst formation. FASEB Journal, 2001, 15, 1065-1067.	0.5	103
38	Vaccination with Dendritic Cells Pulsed with Peptides of Myelin Basic Protein Promotes Functional Recovery from Spinal Cord Injury. Journal of Neuroscience, 2003, 23, 8808-8819.	3.6	96
39	Acute and non-resolving inflammation associate with oxidative injury after human spinal cord injury. Brain, 2021, 144, 144-161.	7.6	95
40	Essential omega-3 fatty acids tune microglial phagocytosis of synaptic elements in the mouse developing brain. Nature Communications, 2020, 11, 6133.	12.8	88
41	Opposite microglial activation stages upon loss of <scp>PGRN</scp> or <scp>TREM</scp> 2 result in reduced cerebral glucose metabolism. EMBO Molecular Medicine, 2019, 11, .	6.9	87
42	Dominant role of microglial and macrophage innate immune responses in human ischemic infarcts. Brain Pathology, 2018, 28, 791-805.	4.1	85
43	Differential contribution of microglia and monocytes in neurodegenerative diseases. Journal of Neural Transmission, 2018, 125, 809-826.	2.8	84
44	Complement 3+-astrocytes are highly abundant in prion diseases, but their abolishment led to an accelerated disease course and early dysregulation of microglia. Acta Neuropathologica Communications, 2019, 7, 83.	5.2	84
45	Microglia can be induced by IFN-Î³ or IL-4 to express neural or dendritic-like markers. Molecular and Cellular Neurosciences, 2007, 35, 490-500.	2.2	78
46	Proâ€inflammatory activation of microglia in the brain of patients with sepsis. Neuropathology and Applied Neurobiology, 2019, 45, 278-290.	3.2	76
47	CSF1R signaling is a regulator of pathogenesis in progressive MS. Cell Death and Disease, 2020, 11, 904.	6.3	74
48	Microglial Phenotypes and Functions in Multiple Sclerosis. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a028993.	6.2	73
49	Vaccination with autoantigen protects against aggregated ?-amyloid and glutamate toxicity by controlling microglia: effect of CD4+CD25+ T?cells. European Journal of Immunology, 2004, 34, 3434-3445.	2.9	68
50	Fatal demyelinating disease is induced by monocyte-derived macrophages in the absence of TGF-Î² signaling. Nature Immunology, 2018, 19, 1-7.	14.5	62
51	Acute microglia ablation induces neurodegeneration in the somatosensory system. Nature Communications, 2018, 9, 4578.	12.8	55
52	Excess Circulating Alternatively Activated Myeloid (M2) Cells Accelerate ALS Progression While Inhibiting Experimental Autoimmune Encephalomyelitis. PLoS ONE, 2011, 6, e26921.	2.5	54
53	Weekly Vaccination with Copaxone (Glatiramer Acetate) as a Potential Therapy for Dry Age-Related Macular Degeneration. Current Eye Research, 2008, 33, 1011-1013.	1.5	49
54	The brain parenchyma has a type I interferon response that can limit virus spread. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E95-E104.	7.1	49

#	Article	IF	Citations
55	Identification of a chronic nonâ€neurodegenerative microglia activation state in a mouse model of peroxisomal Î²â€oxidation deficiency. Glia, 2015, 63, 1606-1620.	4.9	45
56	The therapeutic window after spinal cord injury can accommodate T cell-based vaccination and methylprednisolone in rats. European Journal of Neuroscience, 2004, 19, 2984-2990.	2.6	44
57	Regulatory T Cells and Their Derived Cytokine, Interleukin-35, Reduce Pain in Experimental Autoimmune Encephalomyelitis. Journal of Neuroscience, 2019, 39, 2326-2346.	3.6	44
58	Inhibition of colony stimulating factor 1 receptor corrects maternal inflammation-induced microglial and synaptic dysfunction and behavioral abnormalities. Molecular Psychiatry, 2021, 26, 1808-1831.	7.9	44
59	Loss of homeostatic microglial phenotype in CSF1R-related Leukoencephalopathy. Acta Neuropathologica Communications, 2020, 8, 72.	5.2	42
60	CX3CR1-CCR2-dependent monocyte-microglial signaling modulates neurovascular leakage and acute injury in a mouse model of childhood stroke. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1919-1935.	4.3	37
61	Laquinimod attenuates inflammation by modulating macrophage functions in traumatic brain injury mouse model. Journal of Neuroinflammation, 2018, 15, 26.	7.2	27
62	An integrated multi-omic analysis of iPSC-derived motor neurons from C9ORF72 ALS patients. IScience, 2021, 24, 103221.	4.1	27
63	Sexâ€specific transcriptome of spinal microglia in neuropathic pain due to peripheral nerve injury. Glia, 2022, 70, 675-696.	4.9	25
64	Association of APOE With Primary Open-Angle Glaucoma Suggests a Protective Effect for APOE Îµ4. , 2020, 61, 3.		23
65	The cytokines interleukin-6 and interferon-Î± induce distinct microglia phenotypes. Journal of Neuroinflammation, 2022, 19, 96.	7.2	23
66	Activation of microglia by retroviral infection correlates with transient clearance of prions from the brain but does not change incubation time. Brain Pathology, 2017, 27, 590-602.	4.1	19
67	PD-L1+ and XCR1+ dendritic cells are region-specific regulators of gut homeostasis. Nature Communications, 2021, 12, 4907.	12.8	18
68	The microbiota restrains neurodegenerative microglia in a model of amyotrophic lateral sclerosis. Microbiome, 2022, 10, 47.	11.1	17
69	Does Inflammation in an Autoimmune Disease Differ from Inflammation in Neurodegenerative Diseases? Possible Implications for Therapy. Journal of NeuroImmune Pharmacology, 2006, 1, 4-10.	4.1	16
70	Morphological aspects of spinal cord autoimmune neuroprotection: colocalization of T cells with B7â€2 (CD86) and prevention of cyst formation. FASEB Journal, 2001, 15, 1065-1067.	0.5	11
71	Vitamin D Regulates MerTK-Dependent Phagocytosis in Human Myeloid Cells. Journal of Immunology, 2020, 205, 398-406.	0.8	10
72	Retromer dysfunction in amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	5

#	Article	IF	Citations
73	Microglial confetti party. Nature Neuroscience, 2017, 20, 762-763.	14.8	4
74	Dysregulation of the homeostatic microglia signature in germ-free mice. Journal of Neuroimmunology, 2014, 275, 161.	2.3	3
75	Identification of P2Y12 as a mediator of migration and inflammation in human microglia. Journal of Neuroimmunology, 2014, 275, 90.	2.3	3
76	TREMendous 2 Be Social. Immunity, 2018, 48, 842-843.	14.3	3
77	ISDN2014_0027: REMOVED: Identification of a unique molecular and functional microglia signature in health and disease. International Journal of Developmental Neuroscience, 2015, 47, 5-5.	1.6	1
78	ISDN2014_0028: REMOVED: Targeting miRâ€155 restores dysfunctional microglia and ameliorates disease in the SOD1 model of ALS. International Journal of Developmental Neuroscience, 2015, 47, 5-5.	1.6	1
79	O4-04-01: Microglial Exosomes Propagate Tau Protein from the Entorhinal Cortex to the Hippocampus: An Early Pathophysiology of Alzheimer's Disease. , 2016, 12, P339-P340.		1
80	The Role of Ly6C+ Inflammatory Spleen-derived Monocytes in an Animal Model of Brain Ischemia. Clinical Immunology, 2010, 135, S97.	3.2	0
81	Dysregulation of the APOE-TGFb pathway leads to loss of the microglial homeostatic signature in neurologic diseases including MS, ALS and AD. Journal of Neuroimmunology, 2014, 275, 141.	2.3	0
82	Microglial Biology and Physiology. , 2017, , 167-199.		0
83	Opposite microglial phenotypes upon loss of PGRN or TREM2 result in reduced cerebral glucose metabolism. , 2019, 58, .		0