

Valentin A Pavlov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

7,493
citations

37
h-index

86
g-index

101
ext. papers

8,863
ext. citations

7.6
avg, IF

6.27
L-index

#	Paper	IF	Citations
84	Acetylcholine-synthesizing T cells relay neural signals in a vagus nerve circuit. <i>Science</i> , 2011 , 334, 98-101	33.3	881
83	Splenectomy inactivates the cholinergic antiinflammatory pathway during lethal endotoxemia and polymicrobial sepsis. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1623-8	16.6	523
82	The vagus nerve and the inflammatory reflex--linking immunity and metabolism. <i>Nature Reviews Endocrinology</i> , 2012 , 8, 743-54	15.2	459
81	The Cholinergic Anti-inflammatory Pathway: A Missing Link in Neuroimmunomodulation. <i>Molecular Medicine</i> , 2003 , 9, 125-134	6.2	438
80	The cholinergic anti-inflammatory pathway. <i>Brain, Behavior, and Immunity</i> , 2005 , 19, 493-9	16.6	383
79	Brain acetylcholinesterase activity controls systemic cytokine levels through the cholinergic anti-inflammatory pathway. <i>Brain, Behavior, and Immunity</i> , 2009 , 23, 41-5	16.6	316
78	Selective alpha7-nicotinic acetylcholine receptor agonist GTS-21 improves survival in murine endotoxemia and severe sepsis. <i>Critical Care Medicine</i> , 2007 , 35, 1139-44	1.4	307
77	Mechanisms and Therapeutic Relevance of Neuro-immune Communication. <i>Immunity</i> , 2017 , 46, 927-942	32.3	290
76	Central muscarinic cholinergic regulation of the systemic inflammatory response during endotoxemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5219-23	11.5	251
75	Neural regulation of immunity: molecular mechanisms and clinical translation. <i>Nature Neuroscience</i> , 2017 , 20, 156-166	25.5	237
74	Modulation of TNF release by choline requires alpha7 subunit nicotinic acetylcholine receptor-mediated signaling. <i>Molecular Medicine</i> , 2008 , 14, 567-74	6.2	232
73	ISO-1 binding to the tautomerase active site of MIF inhibits its pro-inflammatory activity and increases survival in severe sepsis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 36541-4	5.4	229
72	The cholinergic anti-inflammatory pathway: a missing link in neuroimmunomodulation. <i>Molecular Medicine</i> , 2003 , 9, 125-34	6.2	205
71	Transcutaneous vagus nerve stimulation reduces serum high mobility group box 1 levels and improves survival in murine sepsis *. <i>Critical Care Medicine</i> , 2007 , 35, 2762-2768	1.4	195
70	Transcutaneous vagus nerve stimulation reduces serum high mobility group box 1 levels and improves survival in murine sepsis. <i>Critical Care Medicine</i> , 2007 , 35, 2762-8	1.4	182
69	Molecular and Functional Neuroscience in Immunity. <i>Annual Review of Immunology</i> , 2018 , 36, 783-812	34.7	178
68	Controlling inflammation: the cholinergic anti-inflammatory pathway. <i>Biochemical Society Transactions</i> , 2006 , 34, 1037-40	5.1	166

67	Neural circuitry and immunity. <i>Immunologic Research</i> , 2015 , 63, 38-57	4.3	159
66	Central cholinergic activation of a vagus nerve-to-spleen circuit alleviates experimental colitis. <i>Mucosal Immunology</i> , 2014 , 7, 335-47	9.2	139
65	$\alpha 7$ nicotinic acetylcholine receptor ($\alpha 7$ nAChR) expression in bone marrow-derived non-T cells is required for the inflammatory reflex. <i>Molecular Medicine</i> , 2012 , 18, 539-43	6.2	104
64	Neuro-immune interactions via the cholinergic anti-inflammatory pathway. <i>Life Sciences</i> , 2007 , 80, 2325-8		100
63	Acetylcholine regulation of synoviocyte cytokine expression by the alpha7 nicotinic receptor. <i>Arthritis and Rheumatism</i> , 2008 , 58, 3439-49		82
62	Galantamine alleviates inflammation and other obesity-associated complications in high-fat diet-fed mice. <i>Molecular Medicine</i> , 2011 , 17, 599-606	6.2	81
61	HMGB1 mediates splenomegaly and expansion of splenic CD11b+ Ly-6C(high) inflammatory monocytes in murine sepsis survivors. <i>Journal of Internal Medicine</i> , 2013 , 274, 381-90	10.8	58
60	Brain region-specific alterations in the gene expression of cytokines, immune cell markers and cholinergic system components during peripheral endotoxin-induced inflammation. <i>Molecular Medicine</i> , 2015 , 20, 601-11	6.2	58
59	Central muscarinic cholinergic activation alters interaction between splenic dendritic cell and CD4+CD25- T cells in experimental colitis. <i>PLoS ONE</i> , 2014 , 9, e109272	3.7	55
58	Xanomeline suppresses excessive pro-inflammatory cytokine responses through neural signal-mediated pathways and improves survival in lethal inflammation. <i>Brain, Behavior, and Immunity</i> , 2015 , 44, 19-27	16.6	52
57	Phenolic hydrazones are potent inhibitors of macrophage migration inhibitory factor proinflammatory activity and survival improving agents in sepsis. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 1993-7	8.3	50
56	Single-Pulse and Unidirectional Electrical Activation of the Cervical Vagus Nerve Reduces Tumor Necrosis Factor in Endotoxemia. <i>Bioelectronic Medicine</i> , 2015 , 2, 37-42	5.4	48
55	Cardiopulmonary arrest and resuscitation disrupts cholinergic anti-inflammatory processes: a role for cholinergic $\alpha 7$ nicotinic receptors. <i>Journal of Neuroscience</i> , 2011 , 31, 3446-52	6.6	48
54	Blood pressure regulation by CD4 lymphocytes expressing choline acetyltransferase. <i>Nature Biotechnology</i> , 2016 , 34, 1066-1071	44.5	47
53	Cytotoxicity, DNA binding and localisation of novel bis-naphthalimidopropyl polyamine derivatives. <i>Chemico-Biological Interactions</i> , 2001 , 137, 15-24	5	45
52	Alternative chemical modifications reverse the binding orientation of a pharmacophore scaffold in the active site of macrophage migration inhibitory factor. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23089-95	5.4	43
51	Forebrain Cholinergic Dysfunction and Systemic and Brain Inflammation in Murine Sepsis Survivors. <i>Frontiers in Immunology</i> , 2017 , 8, 1673	8.4	41
50	Cholinergic modulation of inflammation. <i>International Journal of Clinical and Experimental Medicine</i> , 2008 , 1, 203-12		40

49	High-mobility group box 1 mediates persistent splenocyte priming in sepsis survivors: evidence from a murine model. <i>Shock</i> , 2013 , 40, 492-5	3.4	38
48	Thyroxine is a potential endogenous antagonist of macrophage migration inhibitory factor (MIF) activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8224-17.5	17.5	37
47	Vagus nerve stimulation regulates hemostasis in swine. <i>Shock</i> , 2010 , 33, 608-13	3.4	36
46	Galantamine alleviates inflammation and insulin resistance in patients with metabolic syndrome in a randomized trial. <i>JCI Insight</i> , 2017 , 2,	9.9	36
45	Post-sepsis syndrome - an evolving entity that afflicts survivors of sepsis. <i>Molecular Medicine</i> , 2019 , 26, 6	6.2	35
44	Identification of pigment epithelium-derived factor as an adipocyte-derived inflammatory factor. <i>Molecular Medicine</i> , 2012 , 18, 1161-8	6.2	34
43	Spinal p38 MAP kinase regulates peripheral cholinergic outflow. <i>Arthritis and Rheumatism</i> , 2008 , 58, 2919-21		33
42	The synthesis and in vitro cytotoxic studies of novel bis-naphthalimidopropyl polyamine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1609-12	2.9	33
41	Investigational treatment of rheumatoid arthritis with a vibrotactile device applied to the external ear. <i>Bioelectronic Medicine</i> , 2019 , 5, 4	5.4	31
40	Bioelectronic Medicine: From Preclinical Studies on the Inflammatory Reflex to New Approaches in Disease Diagnosis and Treatment. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020 , 10,	5.4	30
39	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , 2019 , 10, 585	8.4	28
38	Identification of a brainstem locus that inhibits tumor necrosis factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29803-29810	11.5	28
37	Obesity paradox, obesity orthodox, and the metabolic syndrome: An approach to unity. <i>Molecular Medicine</i> , 2017 , 22, 873-885	6.2	28
36	Characterization of inflammation and insulin resistance in high-fat diet-induced male C57BL/6J mouse model of obesity. <i>Animal Models and Experimental Medicine</i> , 2019 , 2, 252-258	4.2	27
35	Adenylyl Cyclase 6 Mediates Inhibition of TNF in the Inflammatory Reflex. <i>Frontiers in Immunology</i> , 2018 , 9, 2648	8.4	27
34	Cholinergic Control of Inflammation, Metabolic Dysfunction, and Cognitive Impairment in Obesity-Associated Disorders: Mechanisms and Novel Therapeutic Opportunities. <i>Frontiers in Neuroscience</i> , 2019 , 13, 263	5.1	25
33	Nicotinic acetylcholine receptor-mediated protection of the rat heart exposed to ischemia reperfusion. <i>Molecular Medicine</i> , 2017 , 23, 120-133	6.2	24
32	Galantamine Attenuates Type 1 Diabetes and Inhibits Anti-Insulin Antibodies in Nonobese Diabetic Mice. <i>Molecular Medicine</i> , 2015 , 21, 702-708	6.2	24

31	Vagus nerve cholinergic circuitry to the liver and the gastrointestinal tract in the neuroimmune communicatome. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, G651-G658	5.1	20
30	An Effective Method for Acute Vagus Nerve Stimulation in Experimental Inflammation. <i>Frontiers in Neuroscience</i> , 2019 , 13, 877	5.1	17
29	Activation of the cholinergic anti-inflammatory pathway by GTS-21 attenuates cisplatin-induced acute kidney injury in mice. <i>PLoS ONE</i> , 2017 , 12, e0188797	3.7	15
28	Imbalance in seminal fluid MIF indicates male infertility. <i>Molecular Medicine</i> , 2007 , 13, 199-202	6.2	15
27	Collateral benefits of studying the vagus nerve in bioelectronic medicine. <i>Bioelectronic Medicine</i> , 2019 , 5, 5	5.4	11
26	Reuniting overnutrition and undernutrition, macronutrients, and micronutrients. <i>Diabetes/Metabolism Research and Reviews</i> , 2019 , 35, e3072	7.5	11
25	Auricular neural stimulation as a new non-invasive treatment for opioid detoxification. <i>Bioelectronic Medicine</i> , 2020 , 6, 7	5.4	11
24	The $\alpha 7$ nicotinic acetylcholine receptor agonist, GTS-21, attenuates hyperoxia-induced acute inflammatory lung injury by alleviating the accumulation of HMGB1 in the airways and the circulation. <i>Molecular Medicine</i> , 2020 , 26, 63	6.2	10
23	The Neuroimmune Communicatome in Inflammation 2017 , 1485-1516		9
22	The evolving obesity challenge: targeting the vagus nerve and the inflammatory reflex in the response. <i>Pharmacology & Therapeutics</i> , 2021 , 222, 107794	13.9	9
21	HMGB1 released from nociceptors mediates inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
20	The synthesis and in vitro cytotoxic studies of novel oxa-spermidine derivatives and homologues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1265-7	2.9	8
19	Buprenorphine Markedly Elevates a Panel of Surrogate Markers in a Murine Model of Sepsis. <i>Shock</i> , 2019 , 52, 550-553	3.4	8
18	Treating disorders across the lifespan by modulating cholinergic signaling with galantamine. <i>Journal of Neurochemistry</i> , 2021 , 158, 1359-1380	6	7
17	Novel oxa-spermine homologues: synthesis and cytotoxic properties. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 691-7	3.4	6
16	Emetine Di-HCl Attenuates Type 1 Diabetes Mellitus in Mice. <i>Molecular Medicine</i> , 2016 , 22, 585-596	6.2	3
15	Infection and Sepsis. <i>NeuroImmune Biology</i> , 2010 , 309-320		2
14	The Cholinergic Drug Galantamine Alleviates Oxidative Stress Alongside Anti-inflammatory and Cardio-Metabolic Effects in Subjects With the Metabolic Syndrome in a Randomized Trial. <i>Frontiers in Immunology</i> , 2021 , 12, 613979	8.4	2

13	Famotidine activates the vagus nerve inflammatory reflex to attenuate cytokine storm.. <i>Molecular Medicine</i> , 2022 , 28, 57	6.2	2
12	A fully implantable wireless bidirectional neuromodulation system for mice.. <i>Biosensors and Bioelectronics</i> , 2022 , 200, 113886	11.8	1
11	Galantamine alleviates oxidative stress alongside anti-inflammatory and cardio-metabolic effects in subjects with the metabolic syndrome in a randomized trial		1
10	Transient Receptor Potential Ankyrin 1 Mediates Afferent Signals in the Inflammatory Reflex		1
9	Cholinergic stimulation with pyridostigmine modulates a heart-spleen axis after acute myocardial infarction in spontaneous hypertensive rats. <i>Scientific Reports</i> , 2021 , 11, 9563	4.9	1
8	The Fourth Bioelectronic Medicine Summit "Technology Targeting Molecular Mechanisms": current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021 , 7, 7	5.4	1
7	The Cholinergic Drug Pyridostigmine Alleviates Inflammation During LPS-Induced Acute Respiratory Distress Syndrome. <i>Frontiers in Pharmacology</i> , 2021 , 12, 624895	5.6	0
6	Rodent Models of Diabetes 2017 , 215-238		
5	The Acetylcholinesterase Inhibitor Galantamine Ameliorates Oxidative Stress in Subjects with the Metabolic Syndrome. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
4	Splenectomy inactivates the cholinergic antiinflammatory pathway during lethal endotoxemia and polymicrobial sepsis. <i>Journal of Cell Biology</i> , 2006 , 174, i1-i1	7.3	
3	Optogenetic Stimulation of Cholinergic Neurons in the Brainstem Induces Splenic Nerve Activity and Attenuates Systemic Inflammation. <i>FASEB Journal</i> , 2019 , 33, 740.5	0.9	
2	Rodent Models of Diabetes 2016 , 1-25		
1	The M1 muscarinic acetylcholine receptor agonist xanomeline suppresses lethal inflammation. <i>FASEB Journal</i> , 2009 , 23, 1003.5	0.9	