

# Valentin A Pavlov

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

9,991  
citations

61984

43  
h-index

64796

79  
g-index

101  
all docs

101  
docs citations

101  
times ranked

9130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peripheral nerve stimulation and immunity: the expanding opportunities for providing mechanistic insight and therapeutic intervention. <i>International Immunology</i> , 2022, 34, 107-118.	4.0	22
2	A fully implantable wireless bidirectional neuromodulation system for mice. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113886.	10.1	21
3	Exploring the vagus nerve and the inflammatory reflex for therapeutic benefit in chronic spinal cord injury. <i>Current Opinion in Neurology</i> , 2022, Publish Ahead of Print, .	3.6	3
4	The Cholinergic Drug Galantamine Ameliorates Acute Respiratory Distress Syndrome in Mice. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
5	Famotidine activates the vagus nerve inflammatory reflex to attenuate cytokine storm. <i>Molecular Medicine</i> , 2022, 28, 57.	4.4	13
6	Treating disorders across the lifespan by modulating cholinergic signaling with galantamine. <i>Journal of Neurochemistry</i> , 2021, 158, 1359-1380.	3.9	26
7	The evolving obesity challenge: targeting the vagus nerve and the inflammatory reflex in the response. , 2021, 222, 107794.		23
8	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.	4.8	24
9	Neuroinflammation in Murine Endotoxemia: A Dualâ€”Tracer MicroPET Evaluation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
10	Cholinergic stimulation with pyridostigmine modulates a heart-spleen axis after acute myocardial infarction in spontaneous hypertensive rats. <i>Scientific Reports</i> , 2021, 11, 9563.	3.3	5
11	ILâ€”1Î²â€”Induced Thermoregulation and Vagus Nerve Activity is Mediated by Transient Receptor Potential Ankyrin 1. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
12	The Cholinergic Drug Pyridostigmine Alleviates Inflammation During LPS-Induced Acute Respiratory Distress Syndrome. <i>Frontiers in Pharmacology</i> , 2021, 12, 624895.	3.5	12
13	The Fourth Bioelectronic Medicine Summit â€”Technology Targeting Molecular Mechanismsâ€” current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021, 7, 7.	2.3	5
14	HMGB1 released from nociceptors mediates inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	34
15	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, a034140.	6.2	54
16	Post-sepsis syndrome â€” an evolving entity that afflicts survivors of sepsis. <i>Molecular Medicine</i> , 2020, 26, 6.	4.4	80
17	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.	7.1	76
18	The Î±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.	4.4	32

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19	Auricular neural stimulation as a new non-invasive treatment for opioid detoxification. <i>Bioelectronic Medicine</i> , 2020, 6, 7.	2.3	24
20	The Acetylcholinesterase Inhibitor Galantamine Ameliorates Oxidative Stress in Subjects with the Metabolic Syndrome. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
21	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.	3.3	58
22	An Effective Method for Acute Vagus Nerve Stimulation in Experimental Inflammation. <i>Frontiers in Neuroscience</i> , 2019, 13, 877.	2.8	40
23	Bioelectronic medicine: updates, challenges and paths forward. <i>Bioelectronic Medicine</i> , 2019, 5, 1.	2.3	41
24	Collateral benefits of studying the vagus nerve in bioelectronic medicine. <i>Bioelectronic Medicine</i> , 2019, 5, 5.	2.3	14
25	Investigational treatment of rheumatoid arthritis with a vibrotactile device applied to the external ear. <i>Bioelectronic Medicine</i> , 2019, 5, 4.	2.3	55
26	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.	2.8	58
27	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 585.	4.8	55
28	Buprenorphine Markedly Elevates a Panel of Surrogate Markers in a Murine Model of Sepsis. <i>Shock</i> , 2019, 52, 550-553.	2.1	14
29	Reuniting overnutrition and undernutrition, macronutrients, and micronutrients. <i>Diabetes/Metabolism Research and Reviews</i> , 2019, 35, e3072.	4.0	19
30	Optogenetic Stimulation of Cholinergic Neurons in the Brainstem Induces Splenic Nerve Activity and Attenuates Systemic Inflammation. <i>FASEB Journal</i> , 2019, 33, 740.5.	0.5	0
31	Molecular and Functional Neuroscience in Immunity. <i>Annual Review of Immunology</i> , 2018, 36, 783-812.	21.8	304
32	Adenylyl Cyclase 6 Mediates Inhibition of TNF in the Inflammatory Reflex. <i>Frontiers in Immunology</i> , 2018, 9, 2648.	4.8	49
33	Selective Optogenetic Activation of the Inflammatory Reflex Using Multisite Surgical Approach. <i>Journal of the American College of Surgeons</i> , 2018, 227, S82.	0.5	0
34	Editorial: Neuro-Immune Interactions in Inflammation and Autoimmunity. <i>Frontiers in Immunology</i> , 2018, 9, 772.	4.8	15
35	Vagus nerve cholinergic circuitry to the liver and the gastrointestinal tract in the neuroimmune communicome. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, G651-G658.	3.4	39
36	Neural regulation of immunity: molecular mechanisms and clinical translation. <i>Nature Neuroscience</i> , 2017, 20, 156-166.	14.8	357

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37	Mechanisms and Therapeutic Relevance of Neuro-immune Communication. <i>Immunity</i> , 2017, 46, 927-942.	14.3	445
38	Rodent Models of Diabetes. , 2017, , 215-238.		0
39	Forebrain Cholinergic Dysfunction and Systemic and Brain Inflammation in Murine Sepsis Survivors. <i>Frontiers in Immunology</i> , 2017, 8, 1673.	4.8	74
40	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.	2.5	28
41	Nicotinic Acetylcholine Receptor-Mediated Protection of the Rat Heart Exposed to Ischemia Reperfusion. <i>Molecular Medicine</i> , 2017, 23, 120-133.	4.4	32
42	Galantamine alleviates inflammation and insulin resistance in patients with metabolic syndrome in a randomized trial. <i>JCI Insight</i> , 2017, 2, .	5.0	64
43	Obesity Paradox, Obesity Orthodox, and the Metabolic Syndrome: An Approach to Unity. <i>Molecular Medicine</i> , 2016, 22, 873-885.	4.4	43
44	Emetine Di-HCl Attenuates Type 1 Diabetes Mellitus in Mice. <i>Molecular Medicine</i> , 2016, 22, 585-596.	4.4	5
45	Blood pressure regulation by CD4+ lymphocytes expressing choline acetyltransferase. <i>Nature Biotechnology</i> , 2016, 34, 1066-1071.	17.5	74
46	Rodent Models of Diabetes. , 2016, , 1-25.		0
47	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.	2.3	65
48	Galantamine Attenuates Type 1 Diabetes and Inhibits Anti-Insulin Antibodies in Nonobese Diabetic Mice. <i>Molecular Medicine</i> , 2015, 21, 702-708.	4.4	29
49	Neural circuitry and immunity. <i>Immunologic Research</i> , 2015, 63, 38-57.	2.9	204
50	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.	4.1	64
51	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> , 2014, 20, 601-611.	4.4	79
52	Central cholinergic activation of a vagus nerve-to-spleen circuit alleviates experimental colitis. <i>Mucosal Immunology</i> , 2014, 7, 335-347.	6.0	170
53	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.	2.5	80
54	Expression of Concern: <sc>HMGB</sc>1 mediates splenomegaly and expansion of splenic <sc>CD</sc>11b+ <sc>L</sc>ya€6<sc>C</sc><sup>high</sup> inflammatory monocytes in murine sepsis survivors. <i>Journal of Internal Medicine</i> , 2013, 274, 381-390.	6.0	74

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55	318 Central Muscarinic 1 Acetylcholine Receptor Activation Reduces the Severity of Experimental Colitis via the Splenic Nerve and the Spleen. <i>Gastroenterology</i> , 2013, 144, S-66.	1.3	1
56	Central muscarinic 1 acetylcholine receptor activation reduces the severity of experimental colitis via the vagus nerve and the splenic dendritic cells. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 177, 316-317.	2.8	0
57	High-Mobility Group Box 1 Mediates Persistent Splenocyte Priming in Sepsis Survivors. <i>Shock</i> , 2013, 40, 492-495.	2.1	43
58	The vagus nerve and the inflammatory reflex—linking immunity and metabolism. <i>Nature Reviews Endocrinology</i> , 2012, 8, 743-754.	9.6	635
59	Î±7 Nicotinic Acetylcholine Receptor (Î±7nAChR) Expression in Bone Marrow-Derived Non-T Cells Is Required for the Inflammatory Reflex. <i>Molecular Medicine</i> , 2012, 18, 539-543.	4.4	133
60	876 Pharmacological Central Activation of the Vagus Nerve Reduces Experimental Colitis. <i>Gastroenterology</i> , 2012, 142, S-151-S-152.	1.3	0
61	Identification of Pigment Epithelium-Derived Factor as an Adipocyte-Derived Inflammatory Factor. <i>Molecular Medicine</i> , 2012, 18, 1161-1168.	4.4	42
62	Acetylcholine-Synthesizing T Cells Relay Neural Signals in a Vagus Nerve Circuit. <i>Science</i> , 2011, 334, 98-101.	12.6	1,158
63	Galantamine Alleviates Inflammation and Other Obesity-Associated Complications in High-Fat Diet-Fed Mice. <i>Molecular Medicine</i> , 2011, 17, 599-606.	4.4	96
64	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, 8224-8227.	7.1	41
65	Cardiopulmonary Arrest and Resuscitation Disrupts Cholinergic Anti-Inflammatory Processes: A Role for Cholinergic Î±7 Nicotinic Receptors. <i>Journal of Neuroscience</i> , 2011, 31, 3446-3452.	3.6	52
66	VAGUS NERVE STIMULATION REGULATES HEMOSTASIS IN SWINE. <i>Shock</i> , 2010, 33, 608-613.	2.1	42
67	Infection and Sepsis. <i>NeuroImmune Biology</i> , 2010, , 309-320.	0.2	2
68	Galantamine Treatment as a Novel Therapeutic Approach in Alleviating Obesity and Obesity-Related Complications in High-Fat Diet-Fed Mice. <i>American Journal of Gastroenterology</i> , 2010, 105, S107.	0.4	0
69	Brain acetylcholinesterase activity controls systemic cytokine levels through the cholinergic anti-inflammatory pathway. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 41-45.	4.1	378
70	The M1 muscarinic acetylcholine receptor agonist xanomeline suppresses lethal inflammation. <i>FASEB Journal</i> , 2009, 23, 1003.5.	0.5	0
71	Spinal p38 MAP kinase regulates peripheral cholinergic outflow. <i>Arthritis and Rheumatism</i> , 2008, 58, 2919-2921.	6.7	42
72	Acetylcholine regulation of synoviocyte cytokine expression by the Î±7 nicotinic receptor. <i>Arthritis and Rheumatism</i> , 2008, 58, 3439-3449.	6.7	93

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73	Modulation of TNF Release by Choline Requires $\alpha 7$ Subunit Nicotinic Acetylcholine Receptor-Mediated Signaling. <i>Molecular Medicine</i> , 2008, 14, 567-574.	4.4	288
74	Cholinergic modulation of inflammation. <i>International Journal of Clinical and Experimental Medicine</i> , 2008, 1, 203-12.	1.3	41
75	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, 23089-23095.	3.4	47
76	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.	0.9	216
77	Selective $\alpha 7$ -nicotinic acetylcholine receptor agonist GTS-21 improves survival in murine endotoxemia and severe sepsis*. <i>Critical Care Medicine</i> , 2007, 35, 1139-1144.	0.9	352
78	Neuro-immune interactions via the cholinergic anti-inflammatory pathway. <i>Life Sciences</i> , 2007, 80, 2325-2329.	4.3	127
79	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, 1993-1997.	6.4	54
80	Imbalance in Seminal Fluid MIF Indicates Male Infertility. <i>Molecular Medicine</i> , 2007, 13, 199-202.	4.4	19
81	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.	0.9	211
82	Splenectomy inactivates the cholinergic antiinflammatory pathway during lethal endotoxemia and polymicrobial sepsis. <i>Journal of Experimental Medicine</i> , 2006, 203, 1623-1628.	8.5	630
83	Controlling inflammation: the cholinergic anti-inflammatory pathway. <i>Biochemical Society Transactions</i> , 2006, 34, 1037-1040.	3.4	190
84	GALANTAMINE IMPROVES SURVIVAL IN LETHAL ENDOTOXEMIA. <i>Shock</i> , 2006, 25, 65-66.	2.1	0
85	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, 5219-5223.	7.1	295
86	Splenectomy inactivates the cholinergic antiinflammatory pathway during lethal endotoxemia and polymicrobial sepsis. <i>Journal of Cell Biology</i> , 2006, 174, i1-i1.	5.2	0
87	The cholinergic anti-inflammatory pathway. <i>Brain, Behavior, and Immunity</i> , 2005, 19, 493-499.	4.1	472
88	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, 36541-36544.	3.4	264
89	The Cholinergic Anti-inflammatory Pathway: A Missing Link in Neuroimmunomodulation. <i>Molecular Medicine</i> , 2003, 9, 125-134.	4.4	566
90	The cholinergic anti-inflammatory pathway: a missing link in neuroimmunomodulation. <i>Molecular Medicine</i> , 2003, 9, 125-34.	4.4	241

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91	Novel oxa-spermine homologues: synthesis and cytotoxic properties. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 691-697.	3.0	7
92	Cytotoxicity, DNA binding and localisation of novel bis-naphthalimidopropyl polyamine derivatives. <i>Chemico-Biological Interactions</i> , 2001, 137, 15-24.	4.0	52
93	The synthesis and in vitro cytotoxic studies of novel oxa-spermidine derivatives and homologues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1265-1267.	2.2	10
94	The synthesis and in vitro cytotoxic studies of novel bis-naphthalimidopropyl polyamine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1609-1612.	2.2	35
95	The Neuroimmune Communicatome in Inflammation. , 0, , 1485-1516.		10