

Sangeeta S Chavan

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,885
citations

126708

33
h-index

149479

56
g-index

65
all docs

65
docs citations

65
times ranked

6228
citing authors

#	ARTICLE	IF	CITATIONS
1	Vagus nerve stimulation inhibits cytokine production and attenuates disease severity in rheumatoid arthritis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8284-8289.	3.3	742
2	Mechanisms and Therapeutic Relevance of Neuro-immune Communication. Immunity, 2017, 46, 927-942.	6.6	445
3	Molecular and Functional Neuroscience in Immunity. Annual Review of Immunology, 2018, 36, 783-812.	9.5	304
4	The microbiota regulate neuronal function and fear extinction learning. Nature, 2019, 574, 543-548.	13.7	302
5	MD-2 is required for disulfide HMGB1-dependent TLR4 signaling. Journal of Experimental Medicine, 2015, 212, 5-14.	4.2	295
6	High Mobility Group Box Protein 1 (HMGB1): The Prototypical Endogenous Danger Molecule. Molecular Medicine, 2015, 21, S6-S12.	1.9	275
7	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. Molecular Medicine, 2012, 18, 930-937.	1.9	172
8	$\alpha 7$ Nicotinic Acetylcholine Receptor Signaling Inhibits Inflammasome Activation by Preventing Mitochondrial DNA Release. Molecular Medicine, 2014, 20, 350-358.	1.9	169
9	Identification of cytokine-specific sensory neural signals by decoding murine vagus nerve activity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4843-E4852.	3.3	147
10	$\alpha 7$ Nicotinic Acetylcholine Receptor ($\alpha 7$ nAChR) Expression in Bone Marrow-Derived Non-T Cells Is Required for the Inflammatory Reflex. Molecular Medicine, 2012, 18, 539-543.	1.9	133
11	Noninvasive sub-organ ultrasound stimulation for targeted neuromodulation. Nature Communications, 2019, 10, 952.	5.8	121
12	Cytokine-specific Neurograms in the Sensory Vagus Nerve. Bioelectronic Medicine, 2016, 3, 7-17.	1.0	108
13	Essential Neuroscience in Immunology. Journal of Immunology, 2017, 198, 3389-3397.	0.4	99
14	Involvement of Neural Transient Receptor Potential Channels in Peripheral Inflammation. Frontiers in Immunology, 2020, 11, 590261.	2.2	82
15	Post-sepsis syndrome – an evolving entity that afflicts survivors of sepsis. Molecular Medicine, 2020, 26, 6.	1.9	80
16	Brain Region-Specific Alterations in the Gene Expression of Cytokines, Immune Cell Markers and Cholinergic System Components during Peripheral Endotoxin-Induced Inflammation. Molecular Medicine, 2014, 20, 601-611.	1.9	79
17	Identification of a brainstem locus that inhibits tumor necrosis factor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29803-29810.	3.3	76
18	Blood pressure regulation by CD4+ lymphocytes expressing choline acetyltransferase. Nature Biotechnology, 2016, 34, 1066-1071.	9.4	74

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19	Forebrain Cholinergic Dysfunction and Systemic and Brain Inflammation in Murine Sepsis Survivors. <i>Frontiers in Immunology</i> , 2017, 8, 1673.	2.2	74
20	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.	1.0	65
21	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.	2.0	64
22	Galantamine alleviates inflammation and insulin resistance in patients with metabolic syndrome in a randomized trial. <i>JCI Insight</i> , 2017, 2, .	2.3	64
23	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.	1.4	58
24	Investigational treatment of rheumatoid arthritis with a vibrotactile device applied to the external ear. <i>Bioelectronic Medicine</i> , 2019, 5, 4.	1.0	55
25	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 585.	2.2	55
26	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.	2.9	54
27	Cytokine-specific Neurograms in the Sensory Vagus Nerve. <i>Bioelectronic Medicine</i> , 2016, 3, 7-17.	1.0	50
28	Adenylyl Cyclase 6 Mediates Inhibition of TNF in the Inflammatory Reflex. <i>Frontiers in Immunology</i> , 2018, 9, 2648.	2.2	49
29	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. <i>Molecular Medicine</i> , 2015, 21, 951-958.	1.9	45
30	Standardization of methods to record Vagus nerve activity in mice. <i>Bioelectronic Medicine</i> , 2018, 4, 3.	1.0	43
31	Identification of Pigment Epithelium-Derived Factor as an Adipocyte-Derived Inflammatory Factor. <i>Molecular Medicine</i> , 2012, 18, 1161-1168.	1.9	42
32	Specific vagus nerve stimulation parameters alter serum cytokine levels in the absence of inflammation. <i>Bioelectronic Medicine</i> , 2020, 6, 8.	1.0	40
33	High mobility group box-1 induces pro-inflammatory signaling in human nucleus pulposus cells via toll-like receptor 4-dependent pathway. <i>Journal of Orthopaedic Research</i> , 2019, 37, 220-231.	1.2	39
34	Regulating innate immunity with dopamine and electroacupuncture. <i>Nature Medicine</i> , 2014, 20, 239-241.	15.2	38
35	HMGB1 released from nociceptors mediates inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
36	Galantamine Attenuates Type 1 Diabetes and Inhibits Anti-Insulin Antibodies in Nonobese Diabetic Mice. <i>Molecular Medicine</i> , 2015, 21, 702-708.	1.9	29

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37	Identification of ethyl pyruvate as a NLRP3 inflammasome inhibitor that preserves mitochondrial integrity. <i>Molecular Medicine</i> , 2018, 24, 8.	1.9	29
38	Stimulation of the hepatoportal nerve plexus with focused ultrasound restores glucose homeostasis in diabetic mice, rats and swine. <i>Nature Biomedical Engineering</i> , 2022, 6, 683-705.	11.6	28
39	Neuro-immune interactions in inflammation and host defense: Implications for transplantation. <i>American Journal of Transplantation</i> , 2018, 18, 556-563.	2.6	25
40	Sequestering HMGB1 via DNA-Conjugated Beads Ameliorates Murine Colitis. <i>PLoS ONE</i> , 2014, 9, e103992.	1.1	24
41	Neuronal Circuits Modulate Antigen Flow Through Lymph Nodes. <i>Bioelectronic Medicine</i> , 2016, 3, 18-28.	1.0	23
42	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. <i>Frontiers in Immunology</i> , 2018, 9, 2032.	2.2	22
43	Targeted peripheral focused ultrasound stimulation attenuates obesity-induced metabolic and inflammatory dysfunctions. <i>Scientific Reports</i> , 2021, 11, 5083.	1.6	22
44	A fully implantable wireless bidirectional neuromodulation system for mice. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113886.	5.3	21
45	The HIV Protease Inhibitor Saquinavir Inhibits HMGB1-Driven Inflammation by Targeting the Interaction of Cathepsin V with TLR4/MyD88. <i>Molecular Medicine</i> , 2015, 21, 749-757.	1.9	17
46	Immunization Elicits Antigen-Specific Antibody Sequestration in Dorsal Root Ganglia Sensory Neurons. <i>Frontiers in Immunology</i> , 2018, 9, 638.	2.2	15
47	Buprenorphine Markedly Elevates a Panel of Surrogate Markers in a Murine Model of Sepsis. <i>Shock</i> , 2019, 52, 550-553.	1.0	14
48	Control of inflammation using non-invasive neuromodulation: past, present and promise. <i>International Immunology</i> , 2022, 34, 119-128.	1.8	11
49	Emetine Di-HCl Attenuates Type 1 Diabetes Mellitus in Mice. <i>Molecular Medicine</i> , 2016, 22, 585-596.	1.9	5
50	The Fourth Bioelectronic Medicine Summit –Technology Targeting Molecular Mechanisms– current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021, 7, 7.	1.0	5
51	HMGB1 Is a Key Modulator Of Stress Erythropoiesis During Sepsis. <i>Blood</i> , 2013, 122, 8-8.	0.6	5
52	Systemic administration of choline acetyltransferase decreases blood pressure in murine hypertension. <i>Molecular Medicine</i> , 2021, 27, 133.	1.9	5
53	Evidence of Long-range nerve pathways connecting and coordinating activity in secondary lymph organs. <i>Bioelectronic Medicine</i> , 2020, 6, 21.	1.0	4
54	Optogenetic activation of fiber-specific compound action potentials in the mouse vagus nerve. , 2019, , .		3

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55	Vagus Nerve Stimulation: A Potential Therapeutic Role in Childhood Nephrotic Syndrome?. American Journal of Nephrology, 2022, 53, 290-296.	1.4	2
56	Famotidine exerts anti-inflammatory effects via a vagus nerve-dependent mechanism. FASEB Journal, 2022, 36, .	0.2	1
57	Introduction: Electronic Medicine in Immunology Special Issue Part 2. International Immunology, 0, , .	1.8	0
58	The Role of Sensory Nerves in Modulating Antigen Specific Immune Responses. FASEB Journal, 2019, 33, 859.8.	0.2	0
59	High Intensity Focused Ultrasound Treatment Attenuates Disease Progression in a Mouse Model of Non-Alcoholic Steatohepatitis. FASEB Journal, 2019, 33, 582.1.	0.2	0
60	Optogenetic Stimulation of Cholinergic Neurons in the Brainstem Induces Splenic Nerve Activity and Attenuates Systemic Inflammation. FASEB Journal, 2019, 33, 740.5.	0.2	0
61	Protective Effects of Pegylated Choline Acetyltransferase in a Murine Model of DSS Colitis. FASEB Journal, 2022, 36, .	0.2	0
62	Vagus Nerve Sensory Neurons Respond Distinctly to Specific Inflammatory Mediators. FASEB Journal, 2022, 36, .	0.2	0