Sangeeta S Chavan

List of Publications by Year
in descending order

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62 papers	4,885 citations	126907 33 h-index	149698 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.	7.1	742
2	Mechanisms and Therapeutic Relevance of Neuro-immune Communication. Immunity, 2017, 46, 927-942.	14.3	445
3	Molecular and Functional Neuroscience in Immunity. Annual Review of Immunology, 2018, 36, 783-812.	21.8	304
4	The microbiota regulate neuronal function and fear extinction learning. Nature, 2019, 574, 543-548.	27.8	302
5	MD-2 is required for disulfide HMGB1â€“dependent TLR4 signaling. Journal of Experimental Medicine, 2015, 212, 5-14.	8.5	295
6	High Mobility Group Box Protein 1 (HMGB1): The Prototypical Endogenous Danger Molecule. Molecular Medicine, 2015, 21, S6-S12.	4.4	275
7	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. Molecular Medicine, 2012, 18, 930-937.	4.4	172
8	Î±7 Nicotinic Acetylcholine Receptor Signaling Inhibits Inflammasome Activation by Preventing Mitochondrial DNA Release. Molecular Medicine, 2014, 20, 350-358.	4.4	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.	7.1	147
10	Î±7 Nicotinic Acetylcholine Receptor (Î±7nAChR) Expression in Bone Marrow-Derived Non-T Cells Is Required for the Inflammatory Reflex. Molecular Medicine, 2012, 18, 539-543.	4.4	133
11	Noninvasive sub-organ ultrasound stimulation for targeted neuromodulation. Nature Communications, 2019, 10, 952.	12.8	121
12	Cytokine-specific Neurograms in the Sensory Vagus Nerve. Bioelectronic Medicine, 2016, 3, 7-17.	2.3	108
13	Essential Neuroscience in Immunology. Journal of Immunology, 2017, 198, 3389-3397.	0.8	99
14	Involvement of Neural Transient Receptor Potential Channels in Peripheral Inflammation. Frontiers in Immunology, 2020, 11, 590261.	4.8	82
15	Post-sepsis syndrome â€“ an evolving entity that afflicts survivors of sepsis. Molecular Medicine, 2020, 26, 6.	4.4	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.	4.4	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.	7.1	76
18	Blood pressure regulation by CD4+ lymphocytes expressing choline acetyltransferase. Nature Biotechnology, 2016, 34, 1066-1071.	17.5	74

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19	Forebrain Cholinergic Dysfunction and Systemic and Brain Inflammation in Murine Sepsis Survivors. Frontiers in Immunology, 2017, 8, 1673.	4.8	74
20	Single-Pulse and Unidirectional Electrical Activation of the Cervical Vagus Nerve Reduces Tumor Necrosis Factor in Endotoxemia. Bioelectronic Medicine, 2015, 2, 37-42.	2.3	65
21	Xanomeline suppresses excessive pro-inflammatory cytokine responses through neural signal-mediated pathways and improves survival in lethal inflammation. Brain, Behavior, and Immunity, 2015, 44, 19-27.	4.1	64
22	Galantamine alleviates inflammation and insulin resistance in patients with metabolic syndrome in a randomized trial. JCI Insight, 2017, 2, .	5.0	64
23	Cholinergic Control of Inflammation, Metabolic Dysfunction, and Cognitive Impairment in Obesity-Associated Disorders: Mechanisms and Novel Therapeutic Opportunities. Frontiers in Neuroscience, 2019, 13, 263.	2.8	58
24	Investigational treatment of rheumatoid arthritis with a vibrotactile device applied to the external ear. Bioelectronic Medicine, 2019, 5, 4.	2.3	55
25	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. Frontiers in Immunology, 2019, 10, 585.	4.8	55
26	Bioelectronic Medicine: From Preclinical Studies on the Inflammatory Reflex to New Approaches in Disease Diagnosis and Treatment. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a034140.	6.2	54
27	Cytokine-specific Neurograms in the Sensory Vagus Nerve. Bioelectronic Medicine, 2016, 3, 7-17.	2.3	50
28	Adenylyl Cyclase 6 Mediates Inhibition of TNF in the Inflammatory Reflex. Frontiers in Immunology, 2018, 9, 2648.	4.8	49
29	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. Molecular Medicine, 2015, 21, 951-958.	4.4	45
30	Standardization of methods to record Vagus nerve activity in mice. Bioelectronic Medicine, 2018, 4, 3.	2.3	43
31	Identification of Pigment Epithelium-Derived Factor as an Adipocyte-Derived Inflammatory Factor. Molecular Medicine, 2012, 18, 1161-1168.	4.4	42
32	Specific vagus nerve stimulation parameters alter serum cytokine levels in the absence of inflammation. Bioelectronic Medicine, 2020, 6, 8.	2.3	40
33	High mobility group boxâ€1 induces proâ€inflammatory signaling in human nucleus pulposus cells via tollâ€like receptor 4â€dependent pathway. Journal of Orthopaedic Research, 2019, 37, 220-231.	2.3	39
34	Regulating innate immunity with dopamine and electroacupuncture. Nature Medicine, 2014, 20, 239-241.	30.7	38
35	HMGB1 released from nociceptors mediates inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	34
36	Galantamine Attenuates Type 1 Diabetes and Inhibits Anti-Insulin Antibodies in Nonobese Diabetic Mice. Molecular Medicine, 2015, 21, 702-708.	4.4	29

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37	Identification of ethyl pyruvate as a NLRP3 inflammasome inhibitor that preserves mitochondrial integrity. Molecular Medicine, 2018, 24, 8.	4.4	29
38	Stimulation of the hepatoportal nerve plexus with focused ultrasound restores glucose homoeostasis in diabetic mice, rats and swine. Nature Biomedical Engineering, 2022, 6, 683-705.	22.5	28
39	Neuro-immune interactions in inflammation and host defense: Implications for transplantation. American Journal of Transplantation, 2018, 18, 556-563.	4.7	25
40	Sequestering HMGB1 via DNA-Conjugated Beads Ameliorates Murine Colitis. PLoS ONE, 2014, 9, e103992.	2.5	24
41	Neuronal Circuits Modulate Antigen Flow Through Lymph Nodes. Bioelectronic Medicine, 2016, 3, 18-28.	2.3	23
42	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. Frontiers in Immunology, 2018, 9, 2032.	4.8	22
43	Targeted peripheral focused ultrasound stimulation attenuates obesity-induced metabolic and inflammatory dysfunctions. Scientific Reports, 2021, 11, 5083.	3.3	22
44	A fully implantable wireless bidirectional neuromodulation system for mice. Biosensors and Bioelectronics, 2022, 200, 113886.	10.1	21
45	The HIV Protease Inhibitor Saquinavir Inhibits HMGBl-Driven Inflammation by Targeting the Interaction of Cathepsin V with TLR4/MyD88. Molecular Medicine, 2015, 21, 749-757.	4.4	17
46	Immunization Elicits Antigen-Specific Antibody Sequestration in Dorsal Root Ganglia Sensory Neurons. Frontiers in Immunology, 2018, 9, 638.	4.8	15
47	Buprenorphine Markedly Elevates a Panel of Surrogate Markers in a Murine Model of Sepsis. Shock, 2019, 52, 550-553.	2.1	14
48	Control of inflammation using non-invasive neuromodulation: past, present and promise. International Immunology, 2022, 34, 119-128.	4.0	11
49	Emetine Di-HCl Attenuates Type 1 Diabetes Mellitus in Mice. Molecular Medicine, 2016, 22, 585-596.	4.4	5
50	The Fourth Bioelectronic Medicine Summit â€œTechnology Targeting Molecular Mechanismsâ€: current progress, challenges, and charting the future. Bioelectronic Medicine, 2021, 7, 7.	2.3	5
51	HMGB1 Is a Key Modulator Of Stress Erythropoiesis During Sepsis. Blood, 2013, 122, 8-8.	1.4	5
52	Systemic administration of choline acetyltransferase decreases blood pressure in murine hypertension. Molecular Medicine, 2021, 27, 133.	4.4	5
53	Evidence of Long-range nerve pathways connecting and coordinating activity in secondary lymph organs. Bioelectronic Medicine, 2020, 6, 21.	2.3	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.	3.1	2
56	Famotidine exerts antiâ€inflammatory effects via a vagus nerveâ€dependent mechanism. FASEB Journal, 2022, 36, .	0.5	1
57	Introduction: Electronic Medicine in Immunology Special Issue Part 2. International Immunology, 0, , .	4.0	0
58	The Role of Sensory Nerves in Modulating Antigen Specific Immune Responses. FASEB Journal, 2019, 33, 859.8.	0.5	0
59	High Intensity Focused Ultrasound Treatment Attenuates Disease Progression in a Mouse Model of Nonâ€Alcoholic Steatohepatitis. FASEB Journal, 2019, 33, 582.1.	0.5	0
60	Optogenetic Stimulation of Cholinergic Neurons in the Brainstem Induces Splenic Nerve Activity and Attenuates Systemic Inflammation. FASEB Journal, 2019, 33, 740.5.	0.5	0
61	Protective Effects of Pegylated Choline Acetyltransferase in a Murine Model of DSS Colitis. FASEB Journal, 2022, 36, .	0.5	0
62	Vagus Nerve Sensory Neurons Respond Distinctly to Specific Inflammatory Mediators. FASEB Journal, 2022, 36, .	0.5	0