

# Sangeeta S Chavan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Control of inflammation using non-invasive neuromodulation: past, present and promise. <i>International Immunology</i> , 2022, 34, 119-128.	4.0	11
2	A fully implantable wireless bidirectional neuromodulation system for mice. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113886.	10.1	21
3	Vagus Nerve Stimulation: A Potential Therapeutic Role in Childhood Nephrotic Syndrome?. <i>American Journal of Nephrology</i> , 2022, 53, 290-296.	3.1	2
4	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.	22.5	28
5	Protective Effects of Pegylated Choline Acetyltransferase in a Murine Model of DSS Colitis. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
6	Famotidine exerts anti-inflammatory effects via a vagus nerve-dependent mechanism. <i>FASEB Journal</i> , 2022, 36, .	0.5	1
7	Vagus Nerve Sensory Neurons Respond Distinctly to Specific Inflammatory Mediators. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
8	Targeted peripheral focused ultrasound stimulation attenuates obesity-induced metabolic and inflammatory dysfunctions. <i>Scientific Reports</i> , 2021, 11, 5083.	3.3	22
9	The Fourth Bioelectronic Medicine Summit –Technology Targeting Molecular Mechanisms– current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021, 7, 7.	2.3	5
10	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
11	Systemic administration of choline acetyltransferase decreases blood pressure in murine hypertension. <i>Molecular Medicine</i> , 2021, 27, 133.	4.4	5
12	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
13	Post-sepsis syndrome – an evolving entity that afflicts survivors of sepsis. <i>Molecular Medicine</i> , 2020, 26, 6.	4.4	80
14	Involvement of Neural Transient Receptor Potential Channels in Peripheral Inflammation. <i>Frontiers in Immunology</i> , 2020, 11, 590261.	4.8	82
15	Evidence of Long-range nerve pathways connecting and coordinating activity in secondary lymph organs. <i>Bioelectronic Medicine</i> , 2020, 6, 21.	2.3	4
16	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
17	Specific vagus nerve stimulation parameters alter serum cytokine levels in the absence of inflammation. <i>Bioelectronic Medicine</i> , 2020, 6, 8.	2.3	40
18	Optogenetic activation of fiber-specific compound action potentials in the mouse vagus nerve. , 2019, , .		3

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19	Investigational treatment of rheumatoid arthritis with a vibrotactile device applied to the external ear. <i>Bioelectronic Medicine</i> , 2019, 5, 4.	2.3	55
20	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
21	Noninvasive sub-organ ultrasound stimulation for targeted neuromodulation. <i>Nature Communications</i> , 2019, 10, 952.	12.8	121
22	Forebrain Cholinergic Signaling Regulates Innate Immune Responses and Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 585.	4.8	55
23	The microbiota regulate neuronal function and fear extinction learning. <i>Nature</i> , 2019, 574, 543-548.	27.8	302
24	Buprenorphine Markedly Elevates a Panel of Surrogate Markers in a Murine Model of Sepsis. <i>Shock</i> , 2019, 52, 550-553.	2.1	14
25	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.	2.3	39
26	The Role of Sensory Nerves in Modulating Antigen Specific Immune Responses. <i>FASEB Journal</i> , 2019, 33, 859.8.	0.5	0
27	High Intensity Focused Ultrasound Treatment Attenuates Disease Progression in a Mouse Model of Non-Alcoholic Steatohepatitis. <i>FASEB Journal</i> , 2019, 33, 582.1.	0.5	0
28	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
29	Molecular and Functional Neuroscience in Immunity. <i>Annual Review of Immunology</i> , 2018, 36, 783-812.	21.8	304
30	Identification of ethyl pyruvate as a NLRP3 inflammasome inhibitor that preserves mitochondrial integrity. <i>Molecular Medicine</i> , 2018, 24, 8.	4.4	29
31	Standardization of methods to record Vagus nerve activity in mice. <i>Bioelectronic Medicine</i> , 2018, 4, 3.	2.3	43
32	Neuro-immune interactions in inflammation and host defense: Implications for transplantation. <i>American Journal of Transplantation</i> , 2018, 18, 556-563.	4.7	25
33	Adenylyl Cyclase 6 Mediates Inhibition of TNF in the Inflammatory Reflex. <i>Frontiers in Immunology</i> , 2018, 9, 2648.	4.8	49
34	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. <i>Frontiers in Immunology</i> , 2018, 9, 2032.	4.8	22
35	Immunization Elicits Antigen-Specific Antibody Sequestration in Dorsal Root Ganglia Sensory Neurons. <i>Frontiers in Immunology</i> , 2018, 9, 638.	4.8	15
36	Identification of cytokine-specific sensory neural signals by decoding murine vagus nerve activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4843-E4852.	7.1	147

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37	Essential Neuroscience in Immunology. <i>Journal of Immunology</i> , 2017, 198, 3389-3397.	0.8	99
38	Mechanisms and Therapeutic Relevance of Neuro-immune Communication. <i>Immunity</i> , 2017, 46, 927-942.	14.3	445
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	Galantamine alleviates inflammation and insulin resistance in patients with metabolic syndrome in a randomized trial. <i>JCI Insight</i> , 2017, 2, .	5.0	64
41	Neuronal Circuits Modulate Antigen Flow Through Lymph Nodes. <i>Bioelectronic Medicine</i> , 2016, 3, 18-28.	2.3	23
42	Emetine Di-HCl Attenuates Type 1 Diabetes Mellitus in Mice. <i>Molecular Medicine</i> , 2016, 22, 585-596.	4.4	5
43	Cytokine-specific Neurograms in the Sensory Vagus Nerve. <i>Bioelectronic Medicine</i> , 2016, 3, 7-17.	2.3	108
44	Vagus nerve stimulation inhibits cytokine production and attenuates disease severity in rheumatoid arthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8284-8289.	7.1	742
45	Blood pressure regulation by CD4+ lymphocytes expressing choline acetyltransferase. <i>Nature Biotechnology</i> , 2016, 34, 1066-1071.	17.5	74
46	Cytokine-specific Neurograms in the Sensory Vagus Nerve. <i>Bioelectronic Medicine</i> , 2016, 3, 7-17.	2.3	50
47	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. <i>Molecular Medicine</i> , 2015, 21, 951-958.	4.4	45
48	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
49	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.	4.4	17
50	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
51	High Mobility Group Box Protein 1 (HMGB1): The Prototypical Endogenous Danger Molecule. <i>Molecular Medicine</i> , 2015, 21, S6-S12.	4.4	275
52	MD-2 is required for disulfide HMGB1-dependent TLR4 signaling. <i>Journal of Experimental Medicine</i> , 2015, 212, 5-14.	8.5	295
53	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
54	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

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55	$\alpha 7$ Nicotinic Acetylcholine Receptor Signaling Inhibits Inflammasome Activation by Preventing Mitochondrial DNA Release. <i>Molecular Medicine</i> , 2014, 20, 350-358.	4.4	169
56	Regulating innate immunity with dopamine and electroacupuncture. <i>Nature Medicine</i> , 2014, 20, 239-241.	30.7	38
57	Sequestering HMGB1 via DNA-Conjugated Beads Ameliorates Murine Colitis. <i>PLoS ONE</i> , 2014, 9, e103992.	2.5	24
58	HMGB1 Is a Key Modulator Of Stress Erythropoiesis During Sepsis. <i>Blood</i> , 2013, 122, 8-8.	1.4	5
59	$\alpha 7$ 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, 539-543.	4.4	133
60	Identification of Pigment Epithelium-Derived Factor as an Adipocyte-Derived Inflammatory Factor. <i>Molecular Medicine</i> , 2012, 18, 1161-1168.	4.4	42
61	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. <i>Molecular Medicine</i> , 2012, 18, 930-937.	4.4	172
62	Introduction: Electronic Medicine in Immunology Special Issue Part 2. <i>International Immunology</i> , 0, , .	4.0	0