

Matthew G Frank

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

6,997
citations

61857

43
h-index

123241

61
g-index

65
all docs

65
docs citations

65
times ranked

7682
citing authors

#	ARTICLE	IF	CITATIONS
1	Minocycline attenuates mechanical allodynia and proinflammatory cytokine expression in rat models of pain facilitation. <i>Pain</i> , 2005, 115, 71-83.	2.0	597
2	Dynamic microglial alterations underlie stress-induced depressive-like behavior and suppressed neurogenesis. <i>Molecular Psychiatry</i> , 2014, 19, 699-709.	4.1	529
3	Microglia serve as a neuroimmune substrate for stress-induced potentiation of CNS pro-inflammatory cytokine responses. <i>Brain, Behavior, and Immunity</i> , 2007, 21, 47-59.	2.0	502
4	A Role for Proinflammatory Cytokines and Fractalkine in Analgesia, Tolerance, and Subsequent Pain Facilitation Induced by Chronic Intrathecal Morphine. <i>Journal of Neuroscience</i> , 2004, 24, 7353-7365.	1.7	387
5	mRNA up-regulation of MHC II and pivotal pro-inflammatory genes in normal brain aging. <i>Neurobiology of Aging</i> , 2006, 27, 717-722.	1.5	291
6	Glucocorticoids mediate stress-induced priming of microglial pro-inflammatory responses. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 337-345.	2.0	257
7	Prior exposure to glucocorticoids sensitizes the neuroinflammatory and peripheral inflammatory responses to <i>E. coli</i> lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 19-30.	2.0	250
8	Microglia inflammatory responses are controlled by an intrinsic circadian clock. <i>Brain, Behavior, and Immunity</i> , 2015, 45, 171-179.	2.0	207
9	Time course of hippocampal IL-1 β and memory consolidation impairments in aging rats following peripheral infection. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 46-54.	2.0	199
10	Intracisternal Interleukin-1 Receptor Antagonist Prevents Postoperative Cognitive Decline and Neuroinflammatory Response in Aged Rats. <i>Journal of Neuroscience</i> , 2012, 32, 14641-14648.	1.7	196
11	Stress sounds the alarmin: The role of the danger-associated molecular pattern HMGB1 in stress-induced neuroinflammatory priming. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 1-7.	2.0	178
12	Stress Induces the Danger-Associated Molecular Pattern HMGB-1 in the Hippocampus of Male Sprague Dawley Rats: A Priming Stimulus of Microglia and the NLRP3 Inflammasome. <i>Journal of Neuroscience</i> , 2015, 35, 316-324.	1.7	177
13	Danger Signals and Inflammasomes: Stress-Evoked Sterile Inflammation in Mood Disorders. <i>Neuropsychopharmacology</i> , 2017, 42, 36-45.	2.8	160
14	Repeated intrathecal injections of plasmid DNA encoding interleukin-10 produce prolonged reversal of neuropathic pain. <i>Pain</i> , 2006, 126, 294-308.	2.0	150
15	Rapid isolation of highly enriched and quiescent microglia from adult rat hippocampus: Immunophenotypic and functional characteristics. <i>Journal of Neuroscience Methods</i> , 2006, 151, 121-130.	1.3	149
16	Amygdala Regulation of Immediate-Early Gene Expression in the Hippocampus Induced by Contextual Fear Conditioning. <i>Journal of Neuroscience</i> , 2006, 26, 1616-1623.	1.7	137
17	Chronic exposure to exogenous glucocorticoids primes microglia to pro-inflammatory stimuli and induces NLRP3 mRNA in the hippocampus. <i>Psychoneuroendocrinology</i> , 2014, 40, 191-200.	1.3	136
18	Stress-induced glucocorticoids as a neuroendocrine alarm signal of danger. <i>Brain, Behavior, and Immunity</i> , 2013, 33, 1-6.	2.0	132

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19	Little Exercise, Big Effects: Reversing Aging and Infection-Induced Memory Deficits, and Underlying Processes. <i>Journal of Neuroscience</i> , 2011, 31, 11578-11586.	1.7	128
20	Stress-induced neuroinflammatory priming: A liability factor in the etiology of psychiatric disorders. <i>Neurobiology of Stress</i> , 2016, 4, 62-70.	1.9	112
21	The redox state of the alarmin HMGB1 is a pivotal factor in neuroinflammatory and microglial priming: A role for the NLRP3 inflammasome. <i>Brain, Behavior, and Immunity</i> , 2016, 55, 215-224.	2.0	106
22	The Alarmin HMGB1 Mediates Age-Induced Neuroinflammatory Priming. <i>Journal of Neuroscience</i> , 2016, 36, 7946-7956.	1.7	103
23	Aging sensitizes rapidly isolated hippocampal microglia to LPS ex vivo. <i>Journal of Neuroimmunology</i> , 2010, 226, 181-184.	1.1	88
24	Stress- and glucocorticoid-induced priming of neuroinflammatory responses: Potential mechanisms of stress-induced vulnerability to drugs of abuse. <i>Brain, Behavior, and Immunity</i> , 2011, 25, S21-S28.	2.0	87
25	Microglia: Neuroimmune-sensors of stress. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 176-185.	2.3	86
26	SARS-CoV-2 spike S1 subunit induces neuroinflammatory, microglial and behavioral sickness responses: Evidence of PAMP-like properties. <i>Brain, Behavior, and Immunity</i> , 2022, 100, 267-277.	2.0	86
27	Release of Plasmid DNA-Encoding IL-10 from PLGA Microparticles Facilitates Long-Term Reversal of Neuropathic Pain Following a Single Intrathecal Administration. <i>Pharmaceutical Research</i> , 2010, 27, 841-854.	1.7	85
28	Pain Intensity and Duration Can Be Enhanced by Prior Challenge: Initial Evidence Suggestive of a Role of Microglial Priming. <i>Journal of Pain</i> , 2010, 11, 1004-1014.	0.7	85
29	Neuroinflammatory priming to stress is differentially regulated in male and female rats. <i>Brain, Behavior, and Immunity</i> , 2018, 70, 257-267.	2.0	85
30	Uncontrollable, But Not Controllable, Stress Desensitizes 5-HT _{1A} Receptors in the Dorsal Raphe Nucleus. <i>Journal of Neuroscience</i> , 2011, 31, 14107-14115.	1.7	74
31	IL-1RA blocks E. coli-induced suppression of Arc and long-term memory in aged F344—BN F1 rats. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 254-262.	2.0	72
32	Antidepressants Augment Natural Killer Cell Activity: In vivo and in vitro. <i>Neuropsychobiology</i> , 1999, 39, 18-24.	0.9	70
33	Blocking toll-like receptor 2 and 4 signaling during a stressor prevents stress-induced priming of neuroinflammatory responses to a subsequent immune challenge. <i>Brain, Behavior, and Immunity</i> , 2013, 32, 112-121.	2.0	70
34	Aging-related changes in neuroimmune-endocrine function: Implications for hippocampal-dependent cognition. <i>Hormones and Behavior</i> , 2012, 62, 219-227.	1.0	66
35	Immunization with <i>Mycobacterium vaccae</i> induces an anti-inflammatory milieu in the CNS: Attenuation of stress-induced microglial priming, alarmins and anxiety-like behavior. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 352-363.	2.0	66
36	Greater glucocorticoid receptor activation in hippocampus of aged rats sensitizes microglia. <i>Neurobiology of Aging</i> , 2015, 36, 1483-1495.	1.5	62

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37	The danger-associated molecular pattern HMGB1 mediates the neuroinflammatory effects of methamphetamine. <i>Brain, Behavior, and Immunity</i> , 2016, 51, 99-108.	2.0	60
38	Stress-induced neuroinflammatory priming is time of day dependent. <i>Psychoneuroendocrinology</i> , 2016, 66, 82-90.	1.3	58
39	Stress disinhibits microglia via down-regulation of CD200R: A mechanism of neuroinflammatory priming. <i>Brain, Behavior, and Immunity</i> , 2018, 69, 62-73.	2.0	58
40	Stress and aging act through common mechanisms to elicit neuroinflammatory priming. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 133-148.	2.0	57
41	Interleukin-6 mediates low-threshold mechanical allodynia induced by intrathecal HIV-1 envelope glycoprotein gp120. <i>Brain, Behavior, and Immunity</i> , 2007, 21, 660-667.	2.0	54
42	Glucocorticoids Mediate Short-Term High-Fat Diet Induction of Neuroinflammatory Priming, the NLRP3 Inflammasome, and the Danger Signal HMGB1. <i>ENeuro</i> , 2016, 3, ENEURO.0113-16.2016.	0.9	54
43	Prior exposure to glucocorticoids potentiates lipopolysaccharide induced mechanical allodynia and spinal neuroinflammation. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 1408-1415.	2.0	52
44	<i>Mycobacterium vaccae</i> immunization protects aged rats from surgery-elicited neuroinflammation and cognitive dysfunction. <i>Neurobiology of Aging</i> , 2018, 71, 105-114.	1.5	45
45	Memory impairments in healthy aging: Role of aging-induced microglial sensitization. , 2010, 1, 212-231.		44
46	The permissive role of glucocorticoids in neuroinflammatory priming. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2015, 22, 300-305.	1.2	39
47	Immunological priming potentiates non-viral anti-inflammatory gene therapy treatment of neuropathic pain. <i>Gene Therapy</i> , 2009, 16, 1210-1222.	2.3	31
48	Pattern recognition receptors mediate pro-inflammatory effects of extracellular mitochondrial transcription factor A (TFAM). <i>Molecular and Cellular Neurosciences</i> , 2018, 89, 71-79.	1.0	30
49	Characterization of the temporo-spatial effects of chronic bilateral intrahippocampal cannulae on interleukin-1 β . <i>Journal of Neuroscience Methods</i> , 2007, 161, 265-272.	1.3	28
50	A novel platform for in vivo detection of cytokine release within discrete brain regions. <i>Brain, Behavior, and Immunity</i> , 2018, 71, 18-22.	2.0	28
51	Acute stress induces chronic neuroinflammatory, microglial and behavioral priming: A role for potentiated NLRP3 inflammasome activation. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 32-42.	2.0	28
52	Age at onset of major depressive disorder predicts reductions in NK cell number and activity. <i>Journal of Affective Disorders</i> , 2002, 71, 159-167.	2.0	25
53	Could Probiotics Be Used to Mitigate Neuroinflammation?. <i>ACS Chemical Neuroscience</i> , 2019, 10, 13-15.	1.7	25
54	Prior laparotomy or corticosterone potentiates lipopolysaccharide-induced fever and sickness behaviors. <i>Journal of Neuroimmunology</i> , 2011, 239, 53-60.	1.1	23

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55	Glucocorticoids mediate stress induction of the alarmin HMGB1 and reduction of the microglia checkpoint receptor CD200R1 in limbic brain structures. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 678-687.	2.0	18
56	IL-1RA injected intra-cisterna magna confers extended prophylaxis against lipopolysaccharide-induced neuroinflammatory and sickness responses. <i>Journal of Neuroimmunology</i> , 2012, 252, 33-39.	1.1	17
57	Stress-induced glucocorticoids suppress the antisense molecular regulation of FGF-2 expression. <i>Psychoneuroendocrinology</i> , 2007, 32, 376-384.	1.3	16
58	Comparing the effects of two different strains of mycobacteria, <i>Mycobacterium vaccae</i> NCTC 11659 and <i>M. vaccae</i> ATCC 15483, on stress-resilient behaviors and lipid-immune signaling in rats. <i>Brain, Behavior, and Immunity</i> , 2021, 91, 212-229.	2.0	12
59	Levels of Monocyte Reactive Oxygen Species Are Associated with Reduced Natural Killer Cell Activity in Major Depressive Disorder. <i>Neuropsychobiology</i> , 2001, 44, 1-6.	0.9	10
60	Acute stress induces the rapid and transient induction of caspase-1, gasdermin D and release of constitutive IL-1 β protein in dorsal hippocampus. <i>Brain, Behavior, and Immunity</i> , 2020, 90, 70-80.	2.0	9
61	The role of hepatic and splenic macrophages in <i>E. coli</i> -induced memory impairments in aged rats. <i>Brain, Behavior, and Immunity</i> , 2015, 43, 60-67.	2.0	7
62	Alzheimer's Disease: Protective Effects of <i>Mycobacterium vaccae</i> , a Soil-Derived Mycobacterium with Anti-Inflammatory and Anti-Tubercular Properties, on the Proteomic Profiles of Plasma and Cerebrospinal Fluid in Rats. <i>Journal of Alzheimer's Disease</i> , 2020, 78, 965-987.	1.2	4
63	170. Characterization of the neuroendocrine system in healthy aged rats. <i>Brain, Behavior, and Immunity</i> , 2012, 26, S47.	2.0	0