

Stuart J Mcdonald

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,479
citations

304743

22
h-index

361022

35
g-index

60
all docs

60
docs citations

60
times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	The NLRP3 inflammasome in traumatic brain injury: potential as a biomarker and therapeutic target. <i>Journal of Neuroinflammation</i> , 2020, 17, 104.	7.2	131
2	The potential for animal models to provide insight into mild traumatic brain injury: Translational challenges and strategies. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 76, 396-414.	6.1	125
3	The effect of concomitant peripheral injury on traumatic brain injury pathobiology and outcome. <i>Journal of Neuroinflammation</i> , 2016, 13, 90.	7.2	102
4	Beyond the Brain: Peripheral Interactions after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 770-781.	3.4	73
5	Neurological heterotopic ossification: Current understanding and future directions. <i>Bone</i> , 2018, 109, 35-42.	2.9	70
6	Tibial Fracture Exacerbates Traumatic Brain Injury Outcomes and Neuroinflammation in a Novel Mouse Model of Multitrauma. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1339-1347.	4.3	64
7	Treatment with an interleukin-1 receptor antagonist mitigates neuroinflammation and brain damage after polytrauma. <i>Brain, Behavior, and Immunity</i> , 2017, 66, 359-371.	4.1	59
8	Traumatic Brain Injury Results in Cellular, Structural and Functional Changes Resembling Motor Neuron Disease. <i>Cerebral Cortex</i> , 2017, 27, 4503-4515.	2.9	50
9	Prolonged elevation of serum neurofilament light after concussion in male Australian football players. <i>Biomarker Research</i> , 2021, 9, 4.	6.8	44
10	Closed head experimental traumatic brain injury increases size and bone volume of callus in mice with concomitant tibial fracture. <i>Scientific Reports</i> , 2016, 6, 34491.	3.3	37
11	Clinical Relevance of Behavior Testing in Animal Models of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 2381-2400.	3.4	36
12	Repeated mild traumatic brain injuries induce persistent changes in plasma protein and magnetic resonance imaging biomarkers in the rat. <i>Scientific Reports</i> , 2019, 9, 14626.	3.3	35
13	Aged rats have an altered immune response and worse outcomes after traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 536-550.	4.1	35
14	The Known Unknowns: An Overview of the State of Blood-Based Protein Biomarkers of Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 2652-2666.	3.4	35
15	The influence of immunological stressors on traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2018, 69, 618-628.	4.1	34
16	The need to incorporate aged animals into the preclinical modeling of neurological conditions. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 109, 114-128.	6.1	33
17	Oculomotor Cognitive Control Abnormalities in Australian Rules Football Players with a History of Concussion. <i>Journal of Neurotrauma</i> , 2018, 35, 730-738.	3.4	29
18	Diffusion MRI abnormalities in adolescent rats given repeated mild traumatic brain injury. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1588-1598.	3.7	27

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19	Behavioral, axonal, and proteomic alterations following repeated mild traumatic brain injury: Novel insights using a clinically relevant rat model. <i>Neurobiology of Disease</i> , 2021, 148, 105151.	4.4	27
20	Experimental Traumatic Brain Injury Induces Bone Loss in Rats. <i>Journal of Neurotrauma</i> , 2016, 33, 2154-2160.	3.4	26
21	Transactive Response DNA-Binding Protein 43 Abnormalities after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 87-99.	3.4	26
22	Neurological heterotopic ossification: novel mechanisms, prognostic biomarkers and prophylactic therapies. <i>Bone Research</i> , 2020, 8, 42.	11.4	26
23	Mild Closed-Head Injury in Conscious Rats Causes Transient Neurobehavioral and Glial Disturbances: A Novel Experimental Model of Concussion. <i>Journal of Neurotrauma</i> , 2019, 36, 2260-2271.	3.4	25
24	Serum Protein Biomarker Findings Reflective of Oxidative Stress and Vascular Abnormalities in Male, but Not Female, Collision Sport Athletes. <i>Frontiers in Neurology</i> , 2020, 11, 549624.	2.4	20
25	Diffusion Imaging Reveals Sex Differences in the White Matter Following Sports-Related Concussion. <i>Cerebral Cortex</i> , 2021, 31, 4411-4419.	2.9	20
26	Mild Traumatic Brain Injury in Adolescent Mice Alters Skull Bone Properties to Influence a Subsequent Brain Impact at Adulthood: A Pilot Study. <i>Frontiers in Neurology</i> , 2018, 9, 372.	2.4	18
27	Temporal profile and utility of serum neurofilament light in a rat model of mild traumatic brain injury. <i>Experimental Neurology</i> , 2021, 341, 113698.	4.1	17
28	A novel rat model of heterotopic ossification after polytrauma with traumatic brain injury. <i>Bone</i> , 2020, 133, 115263.	2.9	16
29	Targeting the Cerebrovascular System: Next-Generation Biomarkers and Treatment for Mild Traumatic Brain Injury. <i>Neuroscientist</i> , 2022, 28, 594-612.	3.5	15
30	Early fracture callus displays smooth muscle-like viscoelastic properties ex vivo: Implications for fracture healing. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1508-1513.	2.3	14
31	Gambogic amide, a selective TrkA agonist, does not improve outcomes from traumatic brain injury in mice. <i>Brain Injury</i> , 2018, 32, 257-268.	1.2	14
32	The genetic ablation of tau improves long-term, but not short-term, functional outcomes after experimental traumatic brain injury in mice. <i>Brain Injury</i> , 2020, 34, 131-139.	1.2	14
33	Thymosin β_4 administration enhances fracture healing in mice. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1277-1282.	2.3	13
34	Shortened telomeres and serum protein biomarker abnormalities in collision sport athletes regardless of concussion history and sex. <i>Journal of Concussion</i> , 2020, 4, 205970022097560.	0.6	13
35	Elevated Serum Interleukin-1 β Levels in Male, but not Female, Collision Sport Athletes with a Concussion History. <i>Journal of Neurotrauma</i> , 2021, 38, 1350-1357.	3.4	13
36	β_1 adrenergic receptor agonist, phenylephrine, actively contracts early rat rib fracture callus ex vivo. <i>Journal of Orthopaedic Research</i> , 2011, 29, 740-745.	2.3	10

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37	Serum Neurofilament Light as a Biomarker of Traumatic Brain Injury in the Presence of Concomitant Peripheral Injury. <i>Biomarker Insights</i> , 2021, 16, 117727192110534.	2.5	10
38	A Concomitant Muscle Injury Does Not Worsen Traumatic Brain Injury Outcomes in Mice. <i>Frontiers in Neurology</i> , 2018, 9, 1089.	2.4	9
39	The selective TrkA agonist, gambogic amide, promotes osteoblastic differentiation and improves fracture healing in mice. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2019, 19, 94-103.	0.1	9
40	Decrease in Plasma miR-27a and miR-221 After Concussion in Australian Football Players. <i>Biomarker Insights</i> , 2022, 17, 117727192210813.	2.5	9
41	A rat model of valproate teratogenicity from chronic oral treatment during pregnancy. <i>Epilepsia</i> , 2020, 61, 1291-1300.	5.1	8
42	Assessing the Long-Term Impact of Concussion upon Cognition: A 5-Year Prospective Investigation. <i>Archives of Clinical Neuropsychology</i> , 2020, 35, 482-490.	0.5	8
43	Pain in the Developing Brain: Early Life Factors Alter Nociception and Neurobiological Function in Adolescent Rats. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab014.	1.6	8
44	Prospective increases in depression symptoms and markers of inflammation increase coronary heart disease risk - The Whitehall II cohort study. <i>Journal of Psychosomatic Research</i> , 2021, 151, 110657.	2.6	8
45	Meta-Analysis of Grainyhead-Like Dependent Transcriptional Networks: A Roadmap for Identifying Novel Conserved Genetic Pathways. <i>Genes</i> , 2019, 10, 876.	2.4	7
46	White and Gray Matter Abnormalities in Australian Footballers With a History of Sports-Related Concussion: An MRI Study. <i>Cerebral Cortex</i> , 2021, 31, 5331-5338.	2.9	7
47	Micro-RNA levels and symptom profile after mild traumatic brain injury: A longitudinal cohort study. <i>Journal of Clinical Neuroscience</i> , 2022, 95, 81-87.	1.5	7
48	Transient expression of myofibroblast-like cells in rat rib fracture callus. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 93-98.	3.3	6
49	The effectiveness of separating theory and practicum as a conduit to learning physiology. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2013, 37, 153-156.	1.6	6
50	Activation of the Protein Kinase R ^ε -Like Endoplasmic Reticulum Kinase (PERK) Pathway of the Unfolded Protein Response after Experimental Traumatic Brain Injury and Treatment with a PERK Inhibitor. <i>Neurotrauma Reports</i> , 2021, 2, 330-342.	1.4	5
51	Within subject rise in serum TNF α to IL-10 ratio is associated with poorer attention, decision-making and working memory in jockeys. <i>Comprehensive Psychoneuroendocrinology</i> , 2022, 10, 100131.	1.7	5
52	Bone Health in Rats With Temporal Lobe Epilepsy in the Absence of Anti-Epileptic Drugs. <i>Frontiers in Pharmacology</i> , 2019, 10, 1278.	3.5	4
53	Cognitive ocular motor deficits and white matter damage chronically after sports-related concussion. <i>Brain Communications</i> , 2021, 3, fcab213.	3.3	4
54	Depression symptoms mediate the association between workplace stress and interleukin 6 in women, but not men: The Whitehall II study. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 12, 100215.	2.5	4

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55	Systemic treatment with human amnion epithelial cells after experimental traumatic brain injury. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 5, 100072.	2.5	3
56	Experimental traumatic brain injury does not lead to lung infection. <i>Journal of Neuroimmunology</i> , 2020, 343, 577239.	2.3	3
57	Gut microbiome depletion and repetitive mild traumatic brain injury differentially modify bone development in male and female adolescent rats. <i>Bone Reports</i> , 2021, 15, 101123.	0.4	2
58	Treadmill Exercise before and during Pregnancy Improves Bone Deficits in Pregnant Growth Restricted Rats without the Exacerbated Effects of High Fat Diet. <i>Nutrients</i> , 2019, 11, 1236.	4.1	1
59	The TrkB agonist, 7,8-dihydroxyflavone, impairs fracture healing in mice. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2021, 21, 263-271.	0.1	0