

# Sandy R Shultz

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

4,930  
citations

71102

41  
h-index

114465

63  
g-index

123  
all docs

123  
docs citations

123  
times ranked

4916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammation in epileptogenesis after traumatic brain injury. <i>Journal of Neuroinflammation</i> , 2017, 14, 10.	7.2	194
2	Intracerebroventricular injection of propionic acid, an enteric bacterial metabolic end-product, impairs social behavior in the rat: Implications for an animal model of autism. <i>Neuropharmacology</i> , 2008, 54, 901-911.	4.1	185
3	Repeated Mild Lateral Fluid Percussion Brain Injury in the Rat Causes Cumulative Long-Term Behavioral Impairments, Neuroinflammation, and Cortical Loss in an Animal Model of Repeated Concussion. <i>Journal of Neurotrauma</i> , 2012, 29, 281-294.	3.4	155
4	Sodium selenate reduces hyperphosphorylated tau and improves outcomes after traumatic brain injury. <i>Brain</i> , 2015, 138, 1297-1313.	7.6	131
5	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
6	Can structural or functional changes following traumatic brain injury in the rat predict epileptic outcome?. <i>Epilepsia</i> , 2013, 54, 1240-1250.	5.1	129
7	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
8	Intracerebroventricular injections of the enteric bacterial metabolic product propionic acid impair cognition and sensorimotor ability in the Long-Evans rat: Further development of a rodent model of autism. <i>Behavioural Brain Research</i> , 2009, 200, 33-41.	2.2	123
9	Progesterone treatment reduces neuroinflammation, oxidative stress and brain damage and improves long-term outcomes in a rat model of repeated mild traumatic brain injury. <i>Journal of Neuroinflammation</i> , 2015, 12, 238.	7.2	112
10	Sex matters: repetitive mild traumatic brain injury in adolescent rats. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 640-654.	3.7	105
11	The effect of concomitant peripheral injury on traumatic brain injury pathobiology and outcome. <i>Journal of Neuroinflammation</i> , 2016, 13, 90.	7.2	102
12	Sodium selenate retards epileptogenesis in acquired epilepsy models reversing changes in protein phosphatase 2A and hyperphosphorylated tau. <i>Brain</i> , 2016, 139, 1919-1938.	7.6	100
13	Sub-concussive brain injury in the Long-Evans rat induces acute neuroinflammation in the absence of behavioral impairments. <i>Behavioural Brain Research</i> , 2012, 229, 145-152.	2.2	97
14	A single mild fluid percussion injury induces short-term behavioral and neuropathological changes in the Long-Evans rat: Support for an animal model of concussion. <i>Behavioural Brain Research</i> , 2011, 224, 326-335.	2.2	88
15	Inflammation in Traumatic Brain Injury: Roles for Toxic A1 Astrocytes and Microglial-Astrocytic Crosstalk. <i>Neurochemical Research</i> , 2019, 44, 1410-1424.	3.3	82
16	Sex differences in object location memory and spatial navigation in Long-Evans rats. <i>Animal Cognition</i> , 2007, 11, 129-137.	1.8	80
17	A CD11d Monoclonal Antibody Treatment Reduces Tissue Injury and Improves Neurological Outcome after Fluid Percussion Brain Injury in Rats. <i>Journal of Neurotrauma</i> , 2012, 29, 2375-2392.	3.4	77
18	Affective, neurocognitive and psychosocial disorders associated with traumatic brain injury and post-traumatic epilepsy. <i>Neurobiology of Disease</i> , 2019, 123, 27-41.	4.4	76

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19	Beyond the Brain: Peripheral Interactions after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 770-781.	3.4	73
20	Behavioral, blood and magnetic resonance imaging biomarkers of experimental mild traumatic brain injury. <i>Scientific Reports</i> , 2016, 6, 28713.	3.3	72
21	Neurological heterotopic ossification: Current understanding and future directions. <i>Bone</i> , 2018, 109, 35-42.	2.9	70
22	Pre-Clinical Testing of Therapies for Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2737-2754.	3.4	68
23	Treatment with an anti-CD11d integrin antibody reduces neuroinflammation and improves outcome in a rat model of repeated concussion. <i>Journal of Neuroinflammation</i> , 2013, 10, 26.	7.2	66
24	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
25	Granulocyte-Macrophage Colony-Stimulating Factor Is Neuroprotective in Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2014, 31, 976-983.	3.4	63
26	Social dysfunction after pediatric traumatic brain injury: A translational perspective. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 64, 196-214.	6.1	63
27	Infections after a traumatic brain injury: The complex interplay between the immune and neurological systems. <i>Brain, Behavior, and Immunity</i> , 2019, 79, 63-74.	4.1	63
28	Experimental Traumatic Brain Injury Results in Long-Term Recovery of Functional Responsiveness in Sensory Cortex but Persisting Structural Changes and Sensorimotor, Cognitive, and Emotional Deficits. <i>Journal of Neurotrauma</i> , 2015, 32, 1333-1346.	3.4	62
29	Sodium selenate, a protein phosphatase 2A activator, mitigates hyperphosphorylated tau and improves repeated mild traumatic brain injury outcomes. <i>Neuropharmacology</i> , 2016, 108, 382-393.	4.1	60
30	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
31	Deletion of the type-1 interferon receptor in APPSWE/PS1 <sup>E9</sup> mice preserves cognitive function and alters glial phenotype. <i>Acta Neuropathologica Communications</i> , 2016, 4, 72.	5.2	58
32	Chronic traumatic encephalopathy neuropathology might not be inexorably progressive or unique to repetitive neurotrauma. <i>Brain</i> , 2019, 142, 3672-3693.	7.6	57
33	Intracerebroventricular injection of propionic acid, an enteric metabolite implicated in autism, induces social abnormalities that do not differ between seizure-prone (FAST) and seizure-resistant (SLOW) rats. <i>Behavioural Brain Research</i> , 2015, 278, 542-548.	2.2	56
34	Changes in Apparent Fiber Density and Track-Weighted Imaging Metrics in White Matter following Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 2109-2118.	3.4	55
35	A preliminary video analysis of concussion in the National Rugby League. <i>Brain Injury</i> , 2015, 29, 1182-1185.	1.2	54
36	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

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37	Is the glymphatic system the missing link between sleep impairments and neurological disorders? Examining the implications and uncertainties. <i>Progress in Neurobiology</i> , 2021, 198, 101917.	5.7	50
38	CD11d integrin blockade reduces the systemic inflammatory response syndrome after traumatic brain injury in rats. <i>Experimental Neurology</i> , 2015, 271, 409-422.	4.1	49
39	Repetitive Mild Traumatic Brain Injury Alters Glymphatic Clearance Rates in Limbic Structures of Adolescent Female Rats. <i>Scientific Reports</i> , 2020, 10, 6254.	3.3	48
40	Hyperphosphorylated Tau is Implicated in Acquired Epilepsy and Neuropsychiatric Comorbidities. <i>Molecular Neurobiology</i> , 2014, 49, 1532-1539.	4.0	46
41	Repeated mild traumatic brain injury can cause acute neurologic impairment without overt structural damage in juvenile rats. <i>PLoS ONE</i> , 2018, 13, e0197187.	2.5	46
42	Modelling traumatic brain injury and posttraumatic epilepsy in rodents. <i>Neurobiology of Disease</i> , 2019, 123, 8-19.	4.4	46
43	Sex-dependent changes in neuronal morphology and psychosocial behaviors after pediatric brain injury. <i>Behavioural Brain Research</i> , 2017, 319, 48-62.	2.2	45
44	Prolonged elevation of serum neurofilament light after concussion in male Australian football players. <i>Biomarker Research</i> , 2021, 9, 4.	6.8	44
45	The Acute Phase of Mild Traumatic Brain Injury Is Characterized by a Distance-Dependent Neuronal Hypoactivity. <i>Journal of Neurotrauma</i> , 2014, 31, 1881-1895.	3.4	43
46	Targeting high-mobility group box protein 1 (HMGB1) in pediatric traumatic brain injury: Chronic neuroinflammatory, behavioral, and epileptogenic consequences. <i>Experimental Neurology</i> , 2019, 320, 112979.	4.1	38
47	Neuroimaging the Epileptogenic Process. <i>Neurotherapeutics</i> , 2014, 11, 347-357.	4.4	37
48	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
49	Age-dependent release of high-mobility group protein-1 and cellular neuroinflammation after traumatic brain injury in mice. <i>Journal of Comparative Neurology</i> , 2019, 527, 1102-1117.	1.6	37
50	Telomere length and advanced diffusion MRI as biomarkers for repetitive mild traumatic brain injury in adolescent rats. <i>NeuroImage: Clinical</i> , 2018, 18, 315-324.	2.7	36
51	Clinical Relevance of Behavior Testing in Animal Models of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 2381-2400.	3.4	36
52	MR Spectroscopy Findings in Retired Professional Rugby League Players. <i>International Journal of Sports Medicine</i> , 2017, 38, 241-252.	1.7	35
53	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
54	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

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55	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
56	The influence of immunological stressors on traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2018, 69, 618-628.	4.1	34
57	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
58	The biological significance and clinical utility of emerging blood biomarkers for traumatic brain injury. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 130, 433-447.	6.1	33
59	Accelerated kindling epileptogenesis in Tg4510 tau transgenic mice, but not in tau knockout mice. <i>Epilepsia</i> , 2017, 58, e136-e141.	5.1	30
60	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
61	Harmonization of lateral fluid-percussion injury model production and post-injury monitoring in a preclinical multicenter biomarker discovery study on post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 151, 7-16.	1.6	28
62	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
63	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
64	Experimental Traumatic Brain Injury Induces Bone Loss in Rats. <i>Journal of Neurotrauma</i> , 2016, 33, 2154-2160.	3.4	26
65	Transactive Response DNA-Binding Protein 43 Abnormalities after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 87-99.	3.4	26
66	Targeting neurodegeneration to prevent post-traumatic epilepsy. <i>Neurobiology of Disease</i> , 2019, 123, 100-109.	4.4	26
67	Neurological heterotopic ossification: novel mechanisms, prognostic biomarkers and prophylactic therapies. <i>Bone Research</i> , 2020, 8, 42.	11.4	26
68	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
69	Harmonization of pipeline for preclinical multicenter MRI biomarker discovery in a rat model of post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 150, 46-57.	1.6	25
70	Harmonization of the pipeline for seizure detection to phenotype post-traumatic epilepsy in a preclinical multicenter study on post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 156, 106131.	1.6	24
71	Disease-modifying effects of a novel T-type calcium channel antagonist, Z944, in a model of temporal lobe epilepsy. <i>Progress in Neurobiology</i> , 2019, 182, 101677.	5.7	23
72	Enriched environment and the effect of age on ischemic brain damage. <i>Brain Research</i> , 2007, 1170, 31-38.	2.2	22

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73	Sport related concussion – Potential for biomarkers to improve acute management. <i>Journal of Clinical Neuroscience</i> , 2018, 56, 1-6.	1.5	20
74	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
75	White Matter Abnormalities in Retired Professional Rugby League Players with a History of Concussion. <i>Journal of Neurotrauma</i> , 2021, 38, 983-988.	3.4	20
76	Diffusion Imaging Reveals Sex Differences in the White Matter Following Sports-Related Concussion. <i>Cerebral Cortex</i> , 2021, 31, 4411-4419.	2.9	20
77	Differences in white matter structure between seizure prone (FAST) and seizure resistant (SLOW) rat strains. <i>Neurobiology of Disease</i> , 2017, 104, 33-40.	4.4	18
78	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
79	Harmonization of pipeline for preclinical multicenter plasma protein and miRNA biomarker discovery in a rat model of post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 149, 92-101.	1.6	17
80	The Neurological Consequences of Engaging in Australian Collision Sports. <i>Journal of Neurotrauma</i> , 2020, 37, 792-809.	3.4	17
81	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
82	A novel rat model of heterotopic ossification after polytrauma with traumatic brain injury. <i>Bone</i> , 2020, 133, 115263.	2.9	16
83	Harmonization of pipeline for detection of HFOs in a rat model of post-traumatic epilepsy in preclinical multicenter study on post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 156, 106110.	1.6	15
84	Targeting the Cerebrovascular System: Next-Generation Biomarkers and Treatment for Mild Traumatic Brain Injury. <i>Neuroscientist</i> , 2022, 28, 594-612.	3.5	15
85	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
86	Elimination of vesicular zinc alters the behavioural and neuroanatomical effects of social defeat stress in mice. <i>Neurobiology of Stress</i> , 2018, 9, 199-213.	4.0	14
87	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
88	Workshop on Neurobiology of Epilepsy appraisal: New systemic imaging technologies to study the brain in experimental models of epilepsy. <i>Epilepsia</i> , 2014, 55, 819-828.	5.1	13
89	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
90	The interaction of the circadian and immune system: Desynchrony as a pathological outcome to traumatic brain injury. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2020, 9, 100058.	2.8	13

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91	Elevated Serum Interleukin-1 $\beta$ 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
92	Propionic Acid Animal Model of Autism. , 2014, , 1755-1778.		13
93	Neuroanatomical differences in FAST and SLOW rat strains with differential vulnerability to kindling and behavioral comorbidities. <i>Epilepsy and Behavior</i> , 2016, 65, 42-48.	1.7	12
94	Inhibitory neuronal changes following a mixed diffuseâ€ƒfocal model of traumatic brain injury. <i>Journal of Comparative Neurology</i> , 2020, 528, 175-198.	1.6	12
95	A systemic immune challenge to model hospital-acquired infections independently regulates immune responses after pediatric traumatic brain injury. <i>Journal of Neuroinflammation</i> , 2021, 18, 72.	7.2	10
96	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
97	A Concomitant Muscle Injury Does Not Worsen Traumatic Brain Injury Outcomes in Mice. <i>Frontiers in Neurology</i> , 2018, 9, 1089.	2.4	9
98	Decrease in Plasma miR-27a and miR-221 After Concussion in Australian Football Players. <i>Biomarker Insights</i> , 2022, 17, 117727192210813.	2.5	9
99	Concussion incidence in amateur Australian Rules Footballers. <i>Journal of Clinical Neuroscience</i> , 2018, 56, 88-89.	1.5	8
100	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
101	Pediatric traumatic brain injury and a subsequent transient immune challenge independently influenced chronic outcomes in male mice. <i>Brain, Behavior, and Immunity</i> , 2022, 100, 29-47.	4.1	8
102	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
103	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
104	Sub-acute Changes on MRI Measures of Cerebral Blood Flow and Venous Oxygen Saturation in Concussed Australian Rules Footballers. <i>Sports Medicine - Open</i> , 2022, 8, 45.	3.1	7
105	Investigating the cumulative effects of $\delta^9$ -tetrahydrocannabinol and repetitive mild traumatic brain injury on adolescent rats. <i>Brain Communications</i> , 2020, 2, fcaa042.	3.3	6
106	Animal Models of Acquired Epilepsy and Tauopathies. , 2017, , 1031-1041.		5
107	Informatics tools to assess the success of procedural harmonization in preclinical multicenter biomarker discovery study on post-traumatic epileptogenesis. <i>Epilepsy Research</i> , 2019, 150, 17-26.	1.6	5
108	Contrast enhanced magnetic resonance imaging highlights neurovasculature changes following experimental traumatic brain injury in the rat. <i>Scientific Reports</i> , 2020, 10, 21252.	3.3	5

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109	Activation of the Protein Kinase 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
110	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
111	Catastrophic consequences: can the feline parasite <i>Toxoplasma gondii</i> prompt the purrfect neuroinflammatory storm following traumatic brain injury?. <i>Journal of Neuroinflammation</i> , 2020, 17, 222.	7.2	4
112	Cognitive ocular motor deficits and white matter damage chronically after sports-related concussion. <i>Brain Communications</i> , 2021, 3, fcab213.	3.3	4
113	Serum Protein Biomarkers of Inflammation, Oxidative Stress, and Cerebrovascular and Glial Injury in Concussed Australian Football Players. <i>Journal of Neurotrauma</i> , 2022, 39, 800-808.	3.4	4
114	Level of knowledge and attitude towards sport-related concussion among the general public. <i>British Journal of Sports Medicine</i> , 2017, 51, A68.1-A68.	6.7	3
115	Neuroendocrine Whiplash: Slamming the Breaks on Anabolic-Androgenic Steroids Following Repetitive Mild Traumatic Brain Injury in Rats May Worsen Outcomes. <i>Frontiers in Neurology</i> , 2019, 10, 481.	2.4	3
116	Examining the Effects of Anabolic-Androgenic Steroids on Repetitive Mild Traumatic Brain Injury (RmTBI) Outcomes in Adolescent Rats. <i>Brain Sciences</i> , 2020, 10, 258.	2.3	3
117	Experimental traumatic brain injury does not lead to lung infection. <i>Journal of Neuroimmunology</i> , 2020, 343, 577239.	2.3	3
118	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
119	Clinically Relevant Outcome Measures for Experimental Traumatic Brain Injury (TBI) Studies. <i>Neuroinformatics</i> , 2019, , 263-294.	0.3	0
120	Cover Image, Volume 527, Issue 5. <i>Journal of Comparative Neurology</i> , 2019, 527, C1.	1.6	0
121	Aging, the immune response, and traumatic brain injury. , 2022, , 149-159.		0