

# Shawn N Whitehead

## List of Publications by Year in descending order

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75  
papers

2,180  
citations

257357

24  
h-index

265120

42  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preventing dementia by preventing stroke: The Berlin Manifesto. <i>Alzheimer's and Dementia</i> , 2019, 15, 961-984.	0.4	200
2	Mechanisms of lysophosphatidylcholine-induced demyelination: A primary lipid disrupting myelinopathy. <i>Glia</i> , 2018, 66, 327-347.	2.5	124
3	Vascular risk factors and Alzheimer's disease. <i>Expert Review of Neurotherapeutics</i> , 2008, 8, 743-750.	1.4	106
4	Amyloid Burden, Neuroinflammation, and Links to Cognitive Decline After Ischemic Stroke. <i>Stroke</i> , 2014, 45, 2825-2829.	1.0	93
5	Antihypertensive treatment can prevent stroke and cognitive decline. <i>Nature Reviews Neurology</i> , 2013, 9, 174-178.	4.9	88
6	Oxidized phosphatidylcholines found in multiple sclerosis lesions mediate neurodegeneration and are neutralized by microglia. <i>Nature Neuroscience</i> , 2021, 24, 489-503.	7.1	85
7	Progressive Increase in Infarct Size, Neuroinflammation, and Cognitive Deficits in the Presence of High Levels of Amyloid. <i>Stroke</i> , 2007, 38, 3245-3250.	1.0	76
8	Imaging Mass Spectrometry Detection of Gangliosides Species in the Mouse Brain following Transient Focal Cerebral Ischemia and Long-Term Recovery. <i>PLoS ONE</i> , 2011, 6, e20808.	1.1	75
9	Interaction Between a Rat Model of Cerebral Ischemia and A $\beta$ -Amyloid Toxicity. <i>Stroke</i> , 2005, 36, 107-112.	1.0	74
10	Effects of pyrrolidine dithiocarbamate on beta-amyloid (25-35)-induced inflammatory responses and memory deficits in the rat. <i>Neurobiology of Disease</i> , 2006, 23, 140-151.	2.1	65
11	Amyloid- $\beta$ <sub>42</sub> signals tau hyperphosphorylation and compromises neuronal viability by disrupting alkylacylglycerophosphocholine metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20936-20941.	3.3	64
12	Neurovascular unit dysregulation, white matter disease, and executive dysfunction: the shared triad of vascular cognitive impairment and Alzheimer disease. <i>GeroScience</i> , 2020, 42, 445-465.	2.1	50
13	1,6-Diphenyl-1,3,5-hexatriene (DPH) as a Novel Matrix for MALDI MS Imaging of Fatty Acids, Phospholipids, and Sulfatides in Brain Tissues. <i>Analytical Chemistry</i> , 2017, 89, 12828-12836.	3.2	41
14	Prefrontal Ischemia in the Rat Leads to Secondary Damage and Inflammation in Remote Gray and White Matter Regions. <i>Frontiers in Neuroscience</i> , 2016, 10, 81.	1.4	40
15	Neuropilin 1 Directly Interacts with Fer Kinase to Mediate Semaphorin 3A-induced Death of Cortical Neurons. <i>Journal of Biological Chemistry</i> , 2010, 285, 9908-9918.	1.6	39
16	Increased Expression of Simple Ganglioside Species GM2 and GM3 Detected by MALDI Imaging Mass Spectrometry in a Combined Rat Model of A $\beta$ Toxicity and Stroke. <i>PLoS ONE</i> , 2015, 10, e0130364.	1.1	38
17	HIV protease inhibitors modulate apoptosis signaling in vitro and in vivo. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007, 12, 969-977.	2.2	37
18	Membrane-lipid homeostasis in a prodromal rat model of Alzheimer's disease: Characteristic profiles in ganglioside distributions during aging detected using MALDI imaging mass spectrometry. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1327-1338.	1.1	34

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19	Comorbid Rat Model of Ischemia and $A\beta$ Amyloid Toxicity: Striatal and Cortical Degeneration. <i>Brain Pathology</i> , 2015, 25, 24-32.	2.1	33
20	Interaction Between a Rat Model of Cerebral Ischemia and $A\beta$ Amyloid Toxicity. <i>Stroke</i> , 2005, 36, 1782-1789.	1.0	32
21	Left atrial microvascular endothelial dysfunction, myocardial inflammation and fibrosis after selective insular cortex ischemic stroke. <i>International Journal of Cardiology</i> , 2019, 292, 148-155.	0.8	32
22	Sublimation of DAN Matrix for the Detection and Visualization of Gangliosides in Rat Brain Tissue for MALDI Imaging Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	29
23	Ganglioside Detection from Formalin-Fixed Human Brain Tissue Utilizing MALDI Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 479-487.	1.2	27
24	Brain health: Key to health, productivity, and well-being. <i>Alzheimer's and Dementia</i> , 2022, 18, 1396-1407.	0.4	27
25	Identification and Quantitation of Changes in the Platelet Activating Factor Family of Glycerophospholipids over the Course of Neuronal Differentiation by High-Performance Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8539-8548.	3.2	26
26	Triflusal reduces cerebral ischemia induced inflammation in a combined mouse model of Alzheimer's disease and stroke. <i>Brain Research</i> , 2010, 1366, 246-256.	1.1	26
27	Differential Anatomical Expression of Ganglioside GM1 Species Containing d18:1 or d20:1 Sphingosine Detected by MALDI Imaging Mass Spectrometry in Mature Rat Brain. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 155.	0.9	26
28	Age-dependent and regional heterogeneity in the long-chain base of A-series gangliosides observed in the rat brain using MALDI Imaging. <i>Scientific Reports</i> , 2017, 7, 16135.	1.6	26
29	Effects of Triflusal and Aspirin in a Rat Model of Cerebral Ischemia. <i>Stroke</i> , 2007, 38, 381-387.	1.0	25
30	Impaired behavioural flexibility related to white matter microgliosis in the TgAPP21 rat model of Alzheimer disease. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 25-34.	2.0	24
31	Targeted Antioxidant, Catalase-SKL, Reduces Beta Amyloid Toxicity in the Rat Brain. <i>Brain Pathology</i> , 2017, 27, 86-94.	2.1	23
32	Linking stroke-induced heart injury and neurogenic atrial fibrillation: a hypothesis to be proven. <i>Journal of Electrocardiology</i> , 2018, 51, 430-432.	0.4	22
33	White matter hyperintensities and longitudinal cognitive decline in cognitively normal populations and across diagnostic categories: A meta-analysis, systematic review, and recommendations for future study harmonization. <i>Alzheimer's and Dementia</i> , 2023, 19, 194-207.	0.4	22
34	Milder Alzheimer's disease pathology in heart failure and atrial fibrillation. <i>Alzheimer's and Dementia</i> , 2017, 13, 770-777.	0.4	20
35	Behavioural inflexibility in a comorbid rat model of striatal ischemic injury and mutant hAPP overexpression. <i>Behavioural Brain Research</i> , 2017, 333, 267-275.	1.2	18
36	Detection of Amyloid Beta ( $A\beta$ ) Oligomeric Composition Using Matrix-Assisted Laser Desorption Ionization Mass Spectrometry (MALDI MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 786-795.	1.2	18

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37	Membrane raft disruption results in neuritic retraction prior to neuronal death in cortical neurons. <i>BioScience Trends</i> , 2012, 6, 183-191.	1.1	18
38	Disruption of CIC-2 expression is associated with progressive neurodegeneration in aging mice. <i>Neuroscience</i> , 2010, 167, 154-162.	1.1	17
39	Age-Dependent Effect of $\beta$ -Amyloid Toxicity on Basal Forebrain Cholinergic Neurons and Inflammation in the Rat Brain. <i>Brain Pathology</i> , 2015, 25, 531-542.	2.1	17
40	Danegaptide Enhances Astrocyte Gap Junctional Coupling and Reduces Ischemic Reperfusion Brain Injury in Mice. <i>Biomolecules</i> , 2020, 10, 353.	1.8	17
41	Transient and bilateral increase in Neuropilin-1, Fer kinase and collapsin response mediator proteins within membrane rafts following unilateral occlusion of the middle cerebral artery in mouse. <i>Brain Research</i> , 2010, 1344, 209-216.	1.1	16
42	APP21 transgenic rats develop age-dependent cognitive impairment and microglia accumulation within white matter tracts. <i>Journal of Neuroinflammation</i> , 2018, 15, 241.	3.1	16
43	Imaging of Neurotransmitters and Small Molecules in Brain Tissues Using Laser Desorption/Ionization Mass Spectrometry Assisted with Zinc Oxide Nanoparticles. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1065-1079.	1.2	16
44	GABAB Receptor Agonist R-Baclofen Reverses Altered Auditory Reactivity and Filtering in the <i>Cntnap2</i> Knock-Out Rat. <i>Frontiers in Integrative Neuroscience</i> , 2021, 15, 710593.	1.0	16
45	Subtle learning and memory impairment in an idiopathic rat model of Alzheimer's disease utilizing cholinergic depletions and $\beta$ -amyloid. <i>Brain Research</i> , 2016, 1646, 12-24.	1.1	15
46	Imaging mass spectrometry allows for neuroanatomic-specific detection of gangliosides in the healthy and diseased brain. <i>Analyst</i> , The, 2020, 145, 2473-2481.	1.7	15
47	Identification of lysophosphatidylcholine (LPC) and platelet activating factor (PAF) from PC12 cells and mouse cortex using liquid chromatography/multi-stage mass spectrometry (LC/MS <sup>3</sup> ). <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3579-3587.	0.7	14
48	Assessing the Effects of Acute Amyloid $\beta$ Oligomer Exposure in the Rat. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1390.	1.8	13
49	Special topic section: linkages among cerebrovascular, cardiovascular, and cognitive disorders: Preventing dementia by preventing stroke: The Berlin Manifesto. <i>International Journal of Stroke</i> , 2019, , 174749301987191.	2.9	13
50	Post-mortem 7 Tesla MRI detection of white matter hyperintensities: A multidisciplinary voxel-wise comparison of imaging and histological correlates. <i>NeuroImage: Clinical</i> , 2020, 27, 102340.	1.4	13
51	TSPO PET detects acute neuroinflammation but not diffuse chronically activated MHCII microglia in the rat. <i>EJNMMI Research</i> , 2020, 10, 113.	1.1	13
52	Pathophysiology and Risk of Atrial Fibrillation Detected after Ischemic Stroke (PARADISE): A Translational, Integrated, and Transdisciplinary Approach. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 606-619.	0.7	12
53	Increased Expression of GM1 Detected by Electrospray Mass Spectrometry in Rat Primary Embryonic Cortical Neurons Exposed to Glutamate Toxicity. <i>Analytical Chemistry</i> , 2016, 88, 7844-7852.	3.2	11
54	Matrix-assisted laser desorption/ionization imaging mass spectrometry of intraperitoneally injected danegaptide (ZP1609) for treatment of stroke-reperfusion injury in mice. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 951-958.	0.7	11

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55	Brain Targeting and Toxicological Assessment of the Extracellular Vesicle-Packaged Antioxidant Catalase-SKL Following Intranasal Administration in Mice. <i>Neurotoxicity Research</i> , 2021, 39, 1418-1429.	1.3	11
56	Cerebral endothelial expression of Robo1 affects brain infiltration of polymorphonuclear neutrophils during mouse stroke recovery. <i>Neurobiology of Disease</i> , 2013, 54, 24-31.	2.1	10
57	Characterization of Behaviour and Remote Degeneration Following Thalamic Stroke in the Rat. <i>International Journal of Molecular Sciences</i> , 2015, 16, 13921-13936.	1.8	10
58	Chloroquine Restores Ganglioside Homeostasis and Improves Pathological and Behavioral Outcomes Post-stroke in the Rat. <i>Molecular Neurobiology</i> , 2019, 56, 3552-3562.	1.9	10
59	White Matter Degenerationâ€”A Treatable Target?. <i>JAMA Neurology</i> , 2020, 77, 793.	4.5	10
60	Endothelium-dependent impairments to cerebral vascular reactivity with type 2 diabetes mellitus in the Goto-Kakizaki rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R149-R159.	0.9	8
61	In Vitro Validation of Intratumoral Modulation Therapy for Glioblastoma. <i>Anticancer Research</i> , 2016, 36, 71-80.	0.5	7
62	Microvessel stenosis, enlarged perivascular spaces, and fibrinogen deposition are associated with ischemic periventricular white matter hyperintensities. <i>Brain Pathology</i> , 2022, 32, e13017.	2.1	6
63	Hypertension and Pathogenic hAPP Independently Induce White Matter Astrocytosis and Cognitive Impairment in the Rat. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 82.	1.7	5
64	Regional Lipid Expression Abnormalities Identified Using MALDI IMS Correspond to MRI-Defined White Matter Hyperintensities within Post-mortem Human Brain Tissues. <i>Analytical Chemistry</i> , 2021, 93, 2652-2659.	3.2	5
65	Microglial Inflammation and Cognitive Dysfunction in Comorbid Rat Models of Striatal Ischemic Stroke and Alzheimerâ€™s Disease: Effects of Antioxidant Catalase-SKL on Behavioral and Cellular Pathology. <i>Neuroscience</i> , 2022, , .	1.1	5
66	Spectroscopy detects skeletal muscle microvascular dysfunction during onset of sepsis in a rat fecal peritonitis model. <i>Scientific Reports</i> , 2022, 12, 6339.	1.6	5
67	Precocious White Matter Inflammation and Behavioural Inflexibility Precede Learning and Memory Impairment in the TgAPP21 Rat Model of Alzheimer Disease. <i>Molecular Neurobiology</i> , 2021, 58, 5014-5030.	1.9	4
68	Editorial Focus: White matter-associated microglia (WAMs) represent an important link between aging, white matter disease and microglial activity. <i>GeroScience</i> , 2022, 44, 63-65.	2.1	4
69	Motor and Hippocampal Dependent Spatial Learning and Reference Memory Assessment in a Transgenic Rat Model of Alzheimer's Disease with Stroke. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	2
70	Lateralization of the control of cardiovascular autonomic function and left atrial injury after selective right and left insular stroke. <i>International Journal of Cardiology</i> , 2019, 294, 15.	0.8	2
71	Expanding the horizon of research into the pathogenesis of the white matter diseases: Proceedings of the 2021 Annual Workshop of the Albert Research Institute for White Matter and Cognition. <i>GeroScience</i> , 2022, 44, 25-37.	2.1	1
72	Investigating White Matter Inflammatory Cells and their Relationship with Betaâ€™Amyloid in Alzheimer's Disease. <i>FASEB Journal</i> , 2022, 36, .	0.2	1

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73	Targeting white matter microgliosis using minocycline in a co-morbid preclinical rat model of Alzheimer's disease and stroke. FASEB Journal, 2020, 34, 1-1.	0.2	0
74	Mild Cognitive Impairment in the Presence of Depressive Symptoms Related to Impaired Cerebrovascular Function in the Obese Zucker Rat. FASEB Journal, 2020, 34, 1-1.	0.2	0
75	Developments in NEW triad research. Aging, 2022, 14, 3726-3727.	1.4	0