

Fiona E Harrison

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,702
citations

29
h-index

51
g-index

63
ext. papers

3,219
ext. citations

4.8
avg, IF

5.46
L-index

#	Paper	IF	Citations
60	Vitamin C function in the brain: vital role of the ascorbate transporter SVCT2. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 719-30	7.8	409
59	Endogenous anxiety and stress responses in water maze and Barnes maze spatial memory tasks. <i>Behavioural Brain Research</i> , 2009 , 198, 247-51	3.4	243
58	Impaired spatial learning in the APPSwe + PSEN1DeltaE9 bigenic mouse model of Alzheimer's disease. <i>Genes, Brain and Behavior</i> , 2007 , 6, 54-65	3.6	239
57	Role of vitamin C in the function of the vascular endothelium. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 2068-83	8.4	174
56	Spatial and nonspatial escape strategies in the Barnes maze. <i>Learning and Memory</i> , 2006 , 13, 809-19	2.8	133
55	Elimination of GD3 synthase improves memory and reduces amyloid-beta plaque load in transgenic mice. <i>Neurobiology of Aging</i> , 2009 , 30, 1777-91	5.6	100
54	A critical review of vitamin C for the prevention of age-related cognitive decline and Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2012 , 29, 711-26	4.3	97
53	Shared Neuropathological Characteristics of Obesity, Type 2 Diabetes and Alzheimer's Disease: Impacts on Cognitive Decline. <i>Nutrients</i> , 2015 , 7, 7332-57	6.7	78
52	Elevated oxidative stress and sensorimotor deficits but normal cognition in mice that cannot synthesize ascorbic acid. <i>Journal of Neurochemistry</i> , 2008 , 106, 1198-208	6	75
51	Vitamin C deficiency in the brain impairs cognition, increases amyloid accumulation and deposition, and oxidative stress in APP/PSEN1 and normally aging mice. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 570-81	5.7	70
50	Vitamin C facilitates dopamine neuron differentiation in fetal midbrain through TET1- and JMJD3-dependent epigenetic control manner. <i>Stem Cells</i> , 2015 , 33, 1320-32	5.8	69
49	Brain manganese and the balance between essential roles and neurotoxicity. <i>Journal of Biological Chemistry</i> , 2020 , 295, 6312-6329	5.4	66
48	Vitamin C reduces spatial learning deficits in middle-aged and very old APP/PSEN1 transgenic and wild-type mice. <i>Pharmacology Biochemistry and Behavior</i> , 2009 , 93, 443-50	3.9	64
47	Ascorbic acid and the brain: rationale for the use against cognitive decline. <i>Nutrients</i> , 2014 , 6, 1752-81	6.7	60
46	Low vitamin C and increased oxidative stress and cell death in mice that lack the sodium-dependent vitamin C transporter SVCT2. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 821-9	7.8	57
45	Antioxidants and cognitive training interact to affect oxidative stress and memory in APP/PSEN1 mice. <i>Nutritional Neuroscience</i> , 2009 , 12, 203-18	3.6	56
44	Reversal of high fat diet-induced obesity improves glucose tolerance, inflammatory response, amyloid accumulation and cognitive decline in the APP/PSEN1 mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2017 , 100, 87-98	7.5	55

43	Ascorbic acid attenuates scopolamine-induced spatial learning deficits in the water maze. <i>Behavioural Brain Research</i> , 2009 , 205, 550-8	3.4	52
42	Autism-linked dopamine transporter mutation alters striatal dopamine neurotransmission and dopamine-dependent behaviors. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3407-3419	15.9	47
41	Low ascorbic acid and increased oxidative stress in gulo(-/-) mice during development. <i>Brain Research</i> , 2010 , 1349, 143-52	3.7	46
40	Markers of oxidative damage to lipids, nucleic acids and proteins and antioxidant enzymes activities in Alzheimer's disease brain: A meta-analysis in human pathological specimens. <i>Free Radical Biology and Medicine</i> , 2018 , 115, 351-360	7.8	45
39	Vitamin C distribution and retention in the mouse brain. <i>Brain Research</i> , 2010 , 1348, 181-6	3.7	45
38	Differential regulation of the ascorbic acid transporter SVCT2 during development and in response to ascorbic acid depletion. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 737-42	3.4	43
37	Mitochondrial dysfunction in the APP/PSEN1 mouse model of Alzheimer's disease and a novel protective role for ascorbate. <i>Free Radical Biology and Medicine</i> , 2017 , 112, 515-523	7.8	36
36	Behavioral and monoamine changes following severe vitamin C deficiency. <i>Journal of Neurochemistry</i> , 2013 , 124, 363-75	6	35
35	Antioxidant supplementation ameliorates molecular deficits in Smith-Lemli-Opitz syndrome. <i>Biological Psychiatry</i> , 2014 , 75, 215-22	7.9	34
34	Treatment with a β -ketoaldehyde scavenger prevents working memory deficits in hApoE4 mice. <i>Journal of Alzheimer's Disease</i> , 2011 , 27, 49-59	4.3	32
33	Low brain ascorbic acid increases susceptibility to seizures in mouse models of decreased brain ascorbic acid transport and Alzheimer's disease. <i>Epilepsy Research</i> , 2015 , 110, 20-5	3	31
32	Antioxidants prevent inflammation and preserve the optic projection and visual function in experimental neurotrauma. <i>Cell Death and Disease</i> , 2018 , 9, 1097	9.8	29
31	Vitamin C deficiency increases basal exploratory activity but decreases scopolamine-induced activity in APP/PSEN1 transgenic mice. <i>Pharmacology Biochemistry and Behavior</i> , 2010 , 94, 543-52	3.9	24
30	Differential proteomic and behavioral effects of long-term voluntary exercise in wild-type and APP-overexpressing transgenics. <i>Neurobiology of Disease</i> , 2015 , 78, 45-55	7.5	23
29	Intravenous ascorbate improves spatial memory in middle-aged APP/PSEN1 and wild type mice. <i>Behavioural Brain Research</i> , 2014 , 264, 34-42	3.4	20
28	Increased expression of SVCT2 in a new mouse model raises ascorbic acid in tissues and protects against paraquat-induced oxidative damage in lung. <i>PLoS ONE</i> , 2012 , 7, e35623	3.7	15
27	Altered glutamate clearance in ascorbate deficient mice increases seizure susceptibility and contributes to cognitive impairment in APP/PSEN1 mice. <i>Neurobiology of Aging</i> , 2018 , 71, 241-254	5.6	12
26	Cell-free hemoglobin augments acute kidney injury during experimental sepsis. <i>American Journal of Physiology - Renal Physiology</i> , 2019 , 317, F922-F929	4.3	12

25	Behavioral and serotonergic response changes in the Dhcr7-HET mouse model of Smith-Lemli-Opitz syndrome. <i>Pharmacology Biochemistry and Behavior</i> , 2013 , 106, 101-8	3.9	11
24	Huntington $\bar{\tau}$ disease genotype suppresses global manganese-responsive processes in pre-manifest and manifest YAC128 mice. <i>Metallomics</i> , 2020 , 12, 1118-1130	4.5	10
23	Combined vitamin C and E deficiency induces motor defects in gulo(-)/SVCT2(+/-) mice. <i>Nutritional Neuroscience</i> , 2013 , 16, 160-73	3.6	9
22	Ascorbate deficiency decreases dopamine release in gulo and APP/PSEN1 mice. <i>Journal of Neurochemistry</i> , 2021 , 157, 656-665	6	6
21	Oxidative stress, serotonergic changes and decreased ultrasonic vocalizations in a mouse model of Smith-Lemli-Opitz syndrome. <i>Genes, Brain and Behavior</i> , 2017 , 16, 619-626	3.6	5
20	Vitamin C is a source of oxoaldehyde and glycative stress in age-related cataract and neurodegenerative diseases. <i>Aging Cell</i> , 2020 , 19, e13176	9.9	5
19	Vitamin C activation of the biosynthesis of epoxyeicosatrienoic acids. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2012 , 3, 204-218	0.9	5
18	A Cecal Slurry Mouse Model of Sepsis Leads to Acute Consumption of Vitamin C in the Brain. <i>Nutrients</i> , 2020 , 12,	6.7	5
17	Oxidative Stress Levels in the Brain Are Determined by Post-Mortem Interval and Ante-Mortem Vitamin C State but Not Alzheimer $\bar{\tau}$ Disease Status. <i>Nutrients</i> , 2018 , 10,	6.7	4
16	Behavioural and neurochemical effects of scurvy in gulo knockout mice. <i>Journal for Maritime Research</i> , 2013 , 15, 107-114	0.1	2
15	Improved synthesis of an ergothioneine PET radioligand for imaging oxidative stress in Alzheimer $\bar{\tau}$ disease.. <i>FEBS Letters</i> , 2022 ,	3.8	2
14	Effects of Acrylic Tunnel Enrichment on Anxiety-Like Behavior, Neurogenesis, and Physiology of C57BL/6J Mice. <i>Journal of the American Association for Laboratory Animal Science</i> , 2021 , 60, 44-53	1.3	2
13	YAC128 mouse model of Huntington disease is protected against subtle chronic manganese (Mn)-induced behavioral and neuropathological changes. <i>NeuroToxicology</i> , 2021 , 87, 94-105	4.4	2
12	Autism-Associated Variant in the SLC6A3 Gene Alters the Oral Microbiome and Metabolism in a Murine Model. <i>Frontiers in Psychiatry</i> , 2021 , 12, 655451	5	1
11	Decreased content of ascorbic acid (vitamin C) in the brain of knockout mouse models of Na ⁺ ,K ⁺ -ATPase-related neurologic disorders. <i>PLoS ONE</i> , 2021 , 16, e0246678	3.7	1
10	Targeted and Untargeted Mass Spectrometry Reveals the Impact of High-Fat Diet on Peripheral Amino Acid Regulation in a Mouse Model of Alzheimer $\bar{\tau}$ Disease. <i>Journal of Proteome Research</i> , 2021 , 20, 4405-4414	5.6	1
9	A novel antioxidant ergothioneine PET radioligand for in vivo imaging applications. <i>Scientific Reports</i> , 2021 , 11, 18450	4.9	1
8	Epigenetic Remodeling by Vitamin C Potentiates the Differentiation of Mouse and Human Plasma Cells		1

7	Manganese-induced hyperactivity and dopaminergic dysfunction depend on age, sex and YAC128 genotype.. <i>Pharmacology Biochemistry and Behavior</i> , 2022 , 213, 173337	3.9	o
6	Altered synaptic glutamate homeostasis contributes to cognitive decline in young APP/PSEN1 mice. <i>Neurobiology of Disease</i> , 2021 , 158, 105486	7.5	o
5	Impaired amygdala-based learning and decreased anxiety in a murine model of pseudohypoparathyroidism type 1A. <i>Behavioural Brain Research</i> , 2019 , 367, 53-58	3.4	
4	Serotonin Transporter Ala276 Mouse: Novel Model to Assess the Neurochemical and Behavioral Impact of Thr276 Phosphorylation In Vivo. <i>Neurochemical Research</i> , 2021 , 1	4.6	
3	P3-210: CARDIOVASCULAR FUNCTION IS COMPROMISED IN APP/PSEN1 MICE COMPARED TO AGE-MATCHED WILDTYPE MICE 2018 , 14, P1150-P1151		
2	P1-239: AORTIC WALL STRUCTURE IS DISORGANIZED AND FRAGMENTED IN APP/PSEN1 COMPARED TO AGE-MATCHED WILDTYPE MICE 2018 , 14, P370-P370		
1	Targeted and untargeted mass spectrometry reveals impact of high fat diet on peripheral amino acid regulation in a mouse model of Alzheimer's disease.. <i>Alzheimers and Dementia</i> , 2021 , 17 Suppl 2, e058428	1.2	