

# Sandra J Hewett

## List of Publications by Citations

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61  
papers

3,157  
citations

29  
h-index

56  
g-index

67  
ext. papers

3,452  
ext. citations

5  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
61	The cystine/glutamate antiporter system x(c)(-) in health and disease: from molecular mechanisms to novel therapeutic opportunities. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 18, 522-55	8.4	473
60	Selective potentiation of NMDA-induced neuronal injury following induction of astrocytic iNOS. <i>Neuron</i> , <b>1994</b> , 13, 487-94	13.9	281
59	Mechanisms of the antioxidant effects of nitric oxide. <i>Antioxidants and Redox Signaling</i> , <b>2001</b> , 3, 203-13	8.4	269
58	Chemotherapy for the brain: the antitumor antibiotic mithramycin prolongs survival in a mouse model of Huntington's disease. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 10335-42	6.6	162
57	Interferon-gamma and interleukin-1 beta induce nitric oxide formation from primary mouse astrocytes. <i>Neuroscience Letters</i> , <b>1993</b> , 164, 229-32	3.3	107
56	Interleukin-1beta: a bridge between inflammation and excitotoxicity?. <i>Journal of Neurochemistry</i> , <b>2008</b> , 106, 1-23	6	105
55	A microtiter trypan blue absorbance assay for the quantitative determination of excitotoxic neuronal injury in cell culture. <i>Journal of Neuroscience Methods</i> , <b>2000</b> , 100, 157-63	3	103
54	Characterization of an improved procedure for the removal of microglia from confluent monolayers of primary astrocytes. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 150, 128-37	3	95
53	System x(c)- activity and astrocytes are necessary for interleukin-1 beta-mediated hypoxic neuronal injury. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 10094-105	6.6	90
52	Inhibition of nitric oxide formation does not protect murine cortical cell cultures from N-methyl-D-aspartate neurotoxicity. <i>Brain Research</i> , <b>1993</b> , 625, 337-41	3.7	76
51	SIN-1-induced cytotoxicity in mixed cortical cell culture: peroxynitrite-dependent and -independent induction of excitotoxic cell death. <i>Journal of Neurochemistry</i> , <b>2001</b> , 79, 445-55	6	70
50	Main path and byways: non-vesicular glutamate release by system xc(-) as an important modifier of glutamatergic neurotransmission. <i>Journal of Neurochemistry</i> , <b>2015</b> , 135, 1062-79	6	68
49	Contributions of cyclooxygenase-2 to neuroplasticity and neuropathology of the central nervous system <b>2006</b> , 112, 335-57		67
48	Potentiation of oxygen-glucose deprivation-induced neuronal death after induction of iNOS. <i>Stroke</i> , <b>1996</b> , 27, 1586-91	6.7	64
47	Regulation of system x(c)(-)activity and expression in astrocytes by interleukin-1β implications for hypoxic neuronal injury. <i>Glia</i> , <b>2010</b> , 58, 1806-15	9	63
46	Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. <i>Methods in Enzymology</i> , <b>2002</b> , 359, 84-105	1.7	63
45	TGF-beta1 potentiates astrocytic nitric oxide production by expanding the population of astrocytes that express NOS-2. <i>Glia</i> , <b>2006</b> , 54, 566-77	9	57

44	Inhibition of System Xc(-) Transporter Attenuates Autoimmune Inflammatory Demyelination. <i>Journal of Immunology</i> , <b>2015</b> , 195, 450-463	5.3	56
43	Analysis of the neuroprotective effects of various nitric oxide donor compounds in murine mixed cortical cell culture. <i>Journal of Neurochemistry</i> , <b>1999</b> , 72, 1843-52	6	51
42	Interleukin-1 $\beta$ in Central Nervous System Injury and Repair <b>2012</b> , 1, 195-211		49
41	Inducible nitric oxide synthase expression in cultures enriched for mature oligodendrocytes is due to microglia. <i>Journal of Neuroscience Research</i> , <b>1999</b> , 56, 189-98	4.4	45
40	Hypoxia modulates nitric oxide-induced regulation of NMDA receptor currents and neuronal cell death. <i>American Journal of Physiology - Cell Physiology</i> , <b>1999</b> , 277, C673-83	5.4	38
39	Interferon-gamma reduces cyclooxygenase-2-mediated prostaglandin E2 production from primary mouse astrocytes independent of nitric oxide formation. <i>Journal of Neuroimmunology</i> , <b>1999</b> , 94, 134-43	3.5	35
38	Interleukin-1 $\beta$ protects astrocytes against oxidant-induced injury via an NF- $\kappa$ B-dependent upregulation of glutathione synthesis. <i>Glia</i> , <b>2015</b> , 63, 1568-80	9	32
37	Changes in secondary glutamate release underlie the developmental regulation of excitotoxic neuronal cell death. <i>Neuroscience</i> , <b>2005</b> , 132, 929-42	3.9	32
36	Oral treatment with rofecoxib reduces hippocampal excitotoxic neurodegeneration. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 319, 1219-24	4.7	31
35	Neurotoxicity of nitroxyl: insights into HNO and NO biochemical imbalance. <i>Free Radical Biology and Medicine</i> , <b>2005</b> , 39, 1478-88	7.8	31
34	Potassium-evoked glutamate release liberates arachidonic acid from cortical neurons. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 43881-7	5.4	31
33	Prophylactic, prandial rofecoxib treatment lacks efficacy against acute PTZ-induced seizure generation and kindling acquisition. <i>Epilepsia</i> , <b>2011</b> , 52, 273-83	6.4	30
32	Interleukin-1 $\beta$ potentiates neuronal injury in a variety of injury models involving energy deprivation. <i>Journal of Neuroimmunology</i> , <b>2005</b> , 161, 93-100	3.5	29
31	Pre-conditioning induces the precocious differentiation of neonatal astrocytes to enhance their neuroprotective properties. <i>ASN Neuro</i> , <b>2011</b> , 3, e00062	5.3	28
30	Passive transfer of Lambert-Eaton myasthenic syndrome induces dihydropyridine sensitivity of ICa in mouse motor nerve terminals. <i>Journal of Neurophysiology</i> , <b>1998</b> , 80, 1056-69	3.2	28
29	Nitroxyl exacerbates ischemic cerebral injury and oxidative neurotoxicity. <i>Journal of Neurochemistry</i> , <b>2009</b> , 110, 1766-73	6	26
28	TGF beta 1 and TNF alpha potentiate nitric oxide production in astrocyte cultures by recruiting distinct subpopulations of cells to express NOS-2. <i>Neurochemistry International</i> , <b>2008</b> , 52, 962-71	4.4	26
27	Murine encephalitogenic lymphoid cells induce nitric oxide synthase in primary astrocytes. <i>Journal of Neuroimmunology</i> , <b>1996</b> , 64, 201-8	3.5	26

26	Naproxen reduces excitotoxic neurodegeneration in vivo with an extended therapeutic window. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 309, 1060-6	4.7	24
25	Neuromodulatory role of endogenous interleukin-1 $\beta$ in acute seizures: possible contribution of cyclooxygenase-2. <i>Neurobiology of Disease</i> , <b>2012</b> , 45, 234-42	7.5	23
24	Non-cell autonomous influence of the astrocyte system on hypoglycaemic neuronal cell death. <i>ASN Neuro</i> , <b>2012</b> , 4,	5.3	22
23	Expression of the neurofibromatosis 1 (NF1) gene in reactive astrocytes in vitro. <i>NeuroReport</i> , <b>1995</b> , 6, 1565-8	1.7	21
22	Effects of charge and lipophilicity on mercurial-induced reduction of $^{45}\text{Ca}^{2+}$ uptake in isolated nerve terminals of the rat. <i>Toxicology and Applied Pharmacology</i> , <b>1992</b> , 113, 267-73	4.6	21
21	Generation of primary astrocyte cultures devoid of contaminating microglia. <i>Methods in Molecular Biology</i> , <b>2012</b> , 814, 61-79	1.4	19
20	Differential modulation of prostaglandin H synthase-2 by nitric oxide-related species in intact cells. <i>Biochemistry</i> , <b>2001</b> , 40, 11533-42	3.2	19
19	Specificity of Lambert-Eaton myasthenic syndrome immunoglobulin for nerve terminal calcium channels. <i>Brain Research</i> , <b>1992</b> , 599, 324-32	3.7	19
18	Smad3-dependent signaling underlies the TGF- $\beta$ -mediated enhancement in astrocytic iNOS expression. <i>Glia</i> , <b>2010</b> , 58, 1282-91	9	15
17	Enhanced release of synaptic glutamate underlies the potentiation of oxygen-glucose deprivation-induced neuronal injury after induction of NOS-2. <i>Experimental Neurology</i> , <b>2004</b> , 190, 91-101	5.7	13
16	Disruption of synaptosomal calcium channel function by Lambert-Eaton myasthenic immunoglobulin is serum-dependent. <i>Brain Research</i> , <b>1992</b> , 599, 317-23	3.7	12
15	Serum and plasma from patients with Lambert-Eaton Myasthenic Syndrome reduce depolarization-dependent uptake of $^{45}\text{Ca}^{2+}$ into rat cortical synaptosomes. <i>Brain Research</i> , <b>1991</b> , 566, 320-4	3.7	12
14	Spontaneous Glutamatergic Synaptic Activity Regulates Constitutive COX-2 Expression in Neurons: OPPOSING ROLES FOR THE TRANSCRIPTION FACTORS CREB (cAMP RESPONSE ELEMENT BINDING) PROTEIN AND Sp1 (STIMULATORY PROTEIN-1). <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 27279-27288	5.4	11
13	Interleukin 1 $\beta$ Regulation of the System xc- Substrate-specific Subunit, xCT, in Primary Mouse Astrocytes Involves the RNA-binding Protein HuR. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 1643-1651	5.4	11
12	Cytosolic phospholipase A2 alpha inhibition prevents neuronal NMDA receptor-stimulated arachidonic acid mobilization and prostaglandin production but not subsequent cell death. <i>Journal of Neurochemistry</i> , <b>2008</b> , 106, 1828-40	6	11
11	TGF-beta1 reduces the heterogeneity of astrocytic cyclooxygenase-2 and nitric oxide synthase-2 gene expression in a stimulus-independent manner. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2008</b> , 85, 115-24	3.7	11
10	Influence of glutamate and GABA transport on brain excitatory/inhibitory balance. <i>Experimental Biology and Medicine</i> , <b>2021</b> , 246, 1069-1083	3.7	10
9	Mice deficient in L-12/15 lipoxygenase show increased vulnerability to 3-nitropropionic acid neurotoxicity. <i>Neuroscience Letters</i> , <b>2017</b> , 643, 65-69	3.3	9

8	Interleukin-1 $\beta$ Protects Neurons against Oxidant-Induced Injury via the Promotion of Astrocyte Glutathione Production. <i>Antioxidants</i> , <b>2018</b> , 7,	7.1	9
7	A Cytotoxic, Co-operative Interaction Between Energy Deprivation and Glutamate Release From System xc <sup>-</sup> Mediates Aglycemic Neuronal Cell Death. <i>ASN Neuro</i> , <b>2015</b> , 7,	5.3	7
6	Induction of nitric oxide synthase-2 expression and measurement of nitric oxide production in enriched primary cortical astrocyte cultures. <i>Methods in Molecular Biology</i> , <b>2012</b> , 814, 251-63	1.4	6
5	Decreased epileptogenesis in mice lacking the System x transporter occurs in association with a reduction in AMPA receptor subunit GluA1. <i>Epilepsia Open</i> , <b>2019</b> , 4, 133-143	4	4
4	Relationship between NMDA receptor expression and MPP <sup>+</sup> toxicity in cultured dopaminergic cells. <i>Journal of Neuroscience Research</i> , <b>2003</b> , 73, 811-7	4.4	4
3	Mice lacking L-12/15-lipoxygenase show increased mortality during kindling despite demonstrating resistance to epileptogenesis. <i>Epilepsia Open</i> , <b>2018</b> , 3, 255-263	4	3
2	Sexually dimorphic and brain region-specific transporter adaptations in system x null mice. <i>Neurochemistry International</i> , <b>2020</b> , 141, 104888	4.4	1
1	P2X7-dependent constitutive Interleukin-1 $\beta$ release from pyramidal neurons of the normal mouse hippocampus: Evidence for a role in maintenance of the innate seizure threshold.. <i>Neurobiology of Disease</i> , <b>2022</b> , 105689	7.5	0