Bethann A Mclaughlin

List of Publications by Year
in descending order

54	5,653	186265	189892
papers	citations	28 h-index	50 g-index

56	56	56	12583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	Induction of Neuronal Apoptosis by Thiol Oxidation. Journal of Neurochemistry, 2002, 75, 1878-1888.	3.9	347
3	Caspase 3 activation is essential for neuroprotection in preconditioning. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 715-720.	7.1	261
4	p38 Activation Is Required Upstream of Potassium Current Enhancement and Caspase Cleavage in Thiol Oxidant-Induced Neuronal Apoptosis. Journal of Neuroscience, 2001, 21, 3303-3311.	3.6	156
5	Toxicity of Dopamine to Striatal Neurons In Vitro and Potentiation of Cell Death by a Mitochondrial Inhibitor. Journal of Neurochemistry, 1998, 70, 2406-2415.	3.9	155
6	Electrophilic Cyclopentenone Neuroprostanes Are Anti-inflammatory Mediators Formed from the Peroxidation of the Ï‰-3 Polyunsaturated Fatty Acid Docosahexaenoic Acid. Journal of Biological Chemistry, 2008, 283, 19927-19935.	3.4	122
7	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
8	Manganese exposure is cytotoxic and alters dopaminergic and GABAergic neurons within the basal ganglia. Journal of Neurochemistry, 2009, 110, 378-389.	3.9	108
9	Methylmalonate toxicity in primary neuronal cultures. Neuroscience, 1998, 86, 279-290.	2.3	98
10	In VitroNeurotoxicity of Methylisothiazolinone, a Commonly Used Industrial and Household Biocide, Proceeds via a Zinc and Extracellular Signal-Regulated Kinase Mitogen-Activated Protein Kinase-Dependent Pathway. Journal of Neuroscience, 2002, 22, 7408-7416.	3.6	77
11	The kinder side of killer proteases: Caspase activation contributes to neuroprotection and CNS remodeling. Apoptosis: an International Journal on Programmed Cell Death, 2004, 9, 111-121.	4.9	75
12	Cyclopentenone isoprostanes are novel bioactive products of lipid oxidation which enhance neurodegeneration. Journal of Neurochemistry, 2006, 97, 1301-1313.	3.9	75
13	The selective p38 inhibitor SB-239063 protects primary neurons from mild to moderate excitotoxic injury. European Journal of Pharmacology, 2002, 447, 37-42.	3.5	57
14	Neurovascular unit on a chip: implications for translational applications. Stem Cell Research and Therapy, 2013, 4, S18.	5.5	56
15	Increasing gender diversity in the STEM research workforce. Science, 2019, 366, 692-695.	12.6	52
16	Cyclopentenone Eicosanoids as Mediators of Neurodegeneration: A Pathogenic Mechanism of Oxidative Stress-Mediated and Cyclooxygenase-Mediated Neurotoxicity. Brain Pathology, 2005, 15, 149-158.	4.1	51
17	Evidence of excitotoxicity in the brain of the ornithine carbamoyltransferase deficient sparse fur mouse. Developmental Brain Research, 1995, 90, 35-44.	1.7	43
18	Neurotoxic lipid peroxidation species formed by ischemic stroke increase injury. Free Radical Biology and Medicine, 2009, 47, 1422-1431.	2.9	38

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19	Essential Role of the Redox-Sensitive Kinase p66^{shc}in Determining Energetic and Oxidative Status and Cell Fate in Neuronal Preconditioning. Journal of Neuroscience, 2010, 30, 5242-5252.	3.6	35
20	Neurotoxic Potential of Depleted Uraniumâ€"Effects in Primary Cortical Neuron Cultures and in Caenorhabditis elegans. Toxicological Sciences, 2007, 99, 553-565.	3.1	34
21	Selective inhibitors of apoptotic caspases: implications for novel therapeutic strategies. Drug Discovery Today, 2001, 6, 85-91.	6.4	33
22	C-Terminus of Heat Shock Cognate 70 Interacting Protein Increases Following Stroke and Impairs Survival Against Acute Oxidative Stress. Antioxidants and Redox Signaling, 2011, 14, 1787-1801.	5.4	31
23	Silent Cerebral Small Vessel Disease in Restless Legs Syndrome. Sleep, 2016, 39, 1371-1377.	1.1	31
24	Neuronal Preconditioning Requires the Mitophagic Activity of C-terminus of HSC70-Interacting Protein. Journal of Neuroscience, 2018, 38, 6825-6840.	3.6	31
25	Killer Proteases and Little Strokesâ€"How the Things that do not Kill You Make You Stronger. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 655-668.	4.3	30
26	New Approaches to Neuroprotection in Infant Heart Surgery. Pediatric Research, 2010, 68, 1-9.	2.3	30
27	Neuron specific metabolic adaptations following multi-day exposures to oxygen glucose deprivation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 1095-1104.	3.8	30
28	Redox modification of proteins as essential mediators of CNS autophagy and mitophagy. FEBS Letters, 2013, 587, 2291-2298.	2.8	30
29	Enrichment of Elevated Plasma F2t-Isoprostane Levels in Individuals with Autism Who Are Stratified by Presence of Gastrointestinal Dysfunction. PLoS ONE, 2013, 8, e68444.	2.5	30
30	Assembly Dynamics and Stoichiometry of the Apoptosis Signal-regulating Kinase (ASK) Signalosome in Response to Electrophile Stress. Molecular and Cellular Proteomics, 2016, 15, 1947-1961.	3.8	29
31	The fatty acid oxidation product 15â€A_{3t}â€Isoprostane is a potent inhibitor of NFÎºB transcription and macrophage transformation. Journal of Neurochemistry, 2011, 119, 604-616.	3.9	26
32	Slit modulates cerebrovascular inflammation and mediates neuroprotection against global cerebral ischemia. Experimental Neurology, 2007, 207, 186-194.	4.1	25
33	CHIP Is an Essential Determinant of Neuronal Mitochondrial Stress Signaling. Antioxidants and Redox Signaling, 2015, 23, 535-549.	5.4	25
34	Haploinsufficiency of the E3 Ubiquitin Ligase C-Terminus of Heat Shock Cognate 70 Interacting Protein (CHIP) Produces Specific Behavioral Impairments. PLoS ONE, 2012, 7, e36340.	2.5	24
35	Electrophilic Cyclopentenone Isoprostanes in Neurodegeneration. Journal of Molecular Neuroscience, 2007, 33, 80-86.	2.3	18
36	Metabolic Multianalyte Microphysiometry Reveals Extracellular Acidosis is an Essential Mediator of Neuronal Preconditioning. ACS Chemical Neuroscience, 2012, 3, 510-518.	3.5	18

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37	The ubiquitin-proteasome system as a drug target in cerebrovascular disease: therapeutic potential of proteasome inhibitors. Current Opinion in Investigational Drugs, 2005, 6, 686-99.	2.3	17
38	Perioperative Plasma F2-Isoprostane Levels Correlate With Markers of Impaired Ventilation in Infants With Single-Ventricle Physiology Undergoing Stage 2 Surgical Palliation on the Cardiopulmonary Bypass. Pediatric Cardiology, 2012, 33, 562-568.	1.3	14
39	Assessing Neuronal Bioenergetic Status. Methods in Molecular Biology, 2011, 758, 215-235.	0.9	13
40	Alteration of Isocitrate Dehydrogenase Following Acute Ischemic Injury as a Means to Improve Cellular Energetic Status in Neuroadaptation. CNS and Neurological Disorders - Drug Targets, 2013, 12, 849-860.	1.4	12
41	The Role of Central Nervous System Development in Late-Onset Neurodegenerative Disorders. Developmental Neuroscience, 2012, 34, 129-139.	2.0	10
42	Analysis of a Nitroreductase-Based Hypoxia Sensor in Primary Neuronal Cultures. ACS Chemical Neuroscience, 2016, 7, 1188-1191.	3.5	10
43	Dynamic Phosphorylation of Apoptosis Signal Regulating Kinase 1 (ASK1) in Response to Oxidative and Electrophilic Stress. Chemical Research in Toxicology, 2016, 29, 2175-2183.	3.3	10
44	Intraarterial administration of norcantharidin attenuates ischemic stroke damage in rodents when given at the time of reperfusion: novel uses of endovascular capabilities. Journal of Neurosurgery, 2016, 125, 152-159.	1.6	9
45	p66shc's role as an essential mitophaghic molecule in controlling neuronal redox and energetic tone. Autophagy, 2010, 6, 948-949.	9.1	8
46	Poised for Success: Implementation of Sound Conditioning Strategies to Promote Endogenous Protective Responses to Stroke in Patients. Translational Stroke Research, 2013, 4, 104-113.	4.2	8
47	Analysis of Protein Targets by Oxidative Stress Using the OxyBlot and Biotinâ€“Avidin-Capture Methodology. Neuromethods, 2011, , 365-381.	0.3	6
48	Alterations in the E3 ligases Parkin and CHIP result in unique metabolic signaling defects and mitochondrial quality control issues. Neurochemistry International, 2018, 117, 139-155.	3.8	6
49	Protein kinases and light: unlikely partners in a receptor localization puzzle. Physiology and Behavior, 2002, 77, 533-536.	2.1	5
50	Wagging the dogâ€•moving closer to features defined by basic scientists, the protection of prodromal transient ischaemic attacks reveals itself. European Journal of Neurology, 2008, 15, 755-756.	3.3	1
51	Dopamine Neurotoxicity and Neurodegeneration. , 0, , 195-231.		1
52	PII-5Development of a novel liquid chromatography-mass spectrometric assay to measure formation of highly reactive cyclopentenone isoprostanes in vivo. Clinical Pharmacology and Therapeutics, 2006, 79, P36-P36.	4.7	0
53	Genetic Models of Parkinsonâ€™s Disease. , 2015, , 289-314.		0
54	Defending harassers harms victims. Science, 2019, 363, 355-355.	12.6	0