

Ian Vj Murray

List of Publications by Year in descending order

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43
papers

4,809
citations

218592

26
h-index

254106

43
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43
all docs

43
docs citations

43
times ranked

6208
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative Damage Linked to Neurodegeneration by Selective alpha -Synuclein Nitration in Synucleinopathy Lesions. <i>Science</i> , 2000, 290, 985-989.	6.0	1,498
2	A Hydrophobic Stretch of 12 Amino Acid Residues in the Middle of β -Synuclein Is Essential for Filament Assembly. <i>Journal of Biological Chemistry</i> , 2001, 276, 2380-2386.	1.6	865
3	Role of β -Synuclein Carboxy-Terminus on Fibril Formation in Vitro. <i>Biochemistry</i> , 2003, 42, 8530-8540.	1.2	314
4	The maize lipoxygenase, <i>ZmLOX10</i> , mediates green leaf volatile, jasmonate and herbivore-induced plant volatile production for defense against insect attack. <i>Plant Journal</i> , 2013, 74, 59-73.	2.8	217
5	β -Synuclein gene alterations in dementia with Lewy bodies. <i>Neurology</i> , 2004, 63, 805-811.	1.5	159
6	Oxidative Stress and Cell Membranes in the Pathogenesis of Alzheimer's Disease. <i>Physiology</i> , 2011, 26, 54-69.	1.6	123
7	Reduced Body Weight, Adipose Tissue, and Leptin Levels Despite Increased Energy Intake in Female Mice Lacking Acylation-Stimulating Protein ¹ . <i>Endocrinology</i> , 2000, 141, 1041-1049.	1.4	112
8	Promotion of Oxidative Lipid Membrane Damage by Amyloid β Proteins. <i>Biochemistry</i> , 2005, 44, 12606-12613.	1.2	107
9	Age-dependent synuclein pathology following traumatic brain injury in mice. <i>Experimental Neurology</i> , 2003, 184, 214-224.	2.0	103
10	Membrane-mediated Amyloidogenesis and the Promotion of Oxidative Lipid Damage by Amyloid β Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 9335-9345.	1.6	96
11	Vascular and metabolic dysfunction in Alzheimer's disease: a review. <i>Experimental Biology and Medicine</i> , 2011, 236, 772-782.	1.1	93
12	Protein misfolding and aggregation in neurodegenerative diseases: a review of pathogenesis, novel detection strategies, and potential therapeutics. <i>Reviews in the Neurosciences</i> , 2019, 30, 339-358.	1.4	84
13	Islet Amyloid Polypeptide (IAPP): A Second Amyloid in Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2014, 11, 928-940.	0.7	76
14	β -synuclein modulates α -synuclein neurotoxicity by reducing α -synuclein protein expression. <i>Human Molecular Genetics</i> , 2006, 15, 3002-3011.	1.4	75
15	TNF-dependent hepatic steatosis and liver degeneration caused by mutation of zebrafish <i>s-adenosylhomocysteine hydrolase</i> . <i>Development (Cambridge)</i> , 2009, 136, 865-875.	1.2	75
16	Promotion of Amyloid β Protein Misfolding and Fibrillogenesis by a Lipid Oxidation Product. <i>Journal of Molecular Biology</i> , 2008, 377, 1236-1250.	2.0	72
17	Acylation Stimulating Protein (ASP) Deficiency Alters Postprandial and Adipose Tissue Metabolism in Male Mice. <i>Journal of Biological Chemistry</i> , 1999, 274, 36219-36225.	1.6	71
18	Early Synergy between $A\beta_{42}$ and Oxidatively Damaged Membranes in Promoting Amyloid Fibril Formation by $A\beta_{40}$. <i>Journal of Biological Chemistry</i> , 2003, 278, 36277-36284.	1.6	53

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19	Mice lacking acylation stimulating protein (ASP) have delayed postprandial triglyceride clearance. <i>Journal of Lipid Research</i> , 1999, 40, 1671-6.	2.0	50
20	Enhanced triglyceride clearance with intraperitoneal human acylation stimulating protein in C57BL/6 mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E474-E480.	1.8	49
21	Evaluation of Metabolic and Synaptic Dysfunction Hypotheses of Alzheimer's Disease (AD): A Meta-Analysis of CSF Markers. <i>Current Alzheimer Research</i> , 2018, 15, 164-181.	0.7	49
22	Ornithine lipid is required for optimal steady-state amounts of c-type cytochromes in <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 2006, 61, 418-435.	1.2	39
23	Mass spectrometric analysis demonstrates that BODIPY 581/591 C11 overestimates and inhibits oxidative lipid damage. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1392-1397.	1.3	36
24	Functional bioactive recombinant acylation stimulating protein is distinct from C3a anaphylatoxin. <i>Journal of Lipid Research</i> , 1997, 38, 2492-501.	2.0	36
25	A mechanistic link between oxidative stress and membrane mediated amyloidogenesis revealed by infrared spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1913-1922.	1.4	31
26	Synphilin in normal human brains and in synucleinopathies: studies with new antibodies. <i>Acta Neuropathologica</i> , 2003, 105, 177-184.	3.9	29
27	Potential role of β -synuclein in neurodegeneration: studies in a rat animal model. <i>Journal of Neurochemistry</i> , 2012, 122, 812-822.	2.1	29
28	Amyloid- β Metabolite Sensing: Biochemical Linking of Glycation Modification and Misfolding. <i>Journal of Alzheimer's Disease</i> , 2012, 30, 63-73.	1.2	26
29	Adenosine Triphosphate (ATP) Reduces Amyloid- β Protein Misfolding in vitro. <i>Journal of Alzheimer's Disease</i> , 2014, 41, 561-574.	1.2	25
30	Hydralazine Modifies $A\beta$ Fibril Formation and Prevents Modification by Lipids <i>in Vitro</i> . <i>Biochemistry</i> , 2010, 49, 10371-10380.	1.2	24
31	Probing and Trapping a Sensitive Conformation: Amyloid- β Fibrils, Oligomers, and Dimers. <i>Journal of Alzheimer's Disease</i> , 2012, 32, 197-215.	1.2	23
32	Amyloid β peptides modify the expression of antioxidant repair enzymes and a potassium channel in the septohippocampal system. <i>Neurobiology of Aging</i> , 2013, 34, 2071-2076.	1.5	22
33	Amyloid Plaque-Associated Oxidative Degradation of Uniformly Radiolabeled Arachidonic Acid. <i>ACS Chemical Neuroscience</i> , 2016, 7, 367-377.	1.7	22
34	Acylation-stimulating protein (ASP): structure-function determinants of cell surface binding and triacylglycerol synthetic activity. <i>Biochemical Journal</i> , 1999, 342, 41.	1.7	21
35	Small Molecules and Alzheimer's Disease: Misfolding, Metabolism and Imaging. <i>Current Alzheimer Research</i> , 2015, 12, 445-461.	0.7	21
36	Synucleinopathies: a pathological and molecular review. <i>Clinical Neuroscience Research</i> , 2001, 1, 445-455.	0.8	20

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37	Lipid Oxidation and Modification of Amyloid- β^2 (A β^2) in vitro and in vivo. Journal of Alzheimer's Disease, 2010, 22, 593-607.	1.2	18
38	Glycogen and amyloid-beta: key players in the shift from neuronal hyperactivity to hypoactivity observed in Alzheimer's disease?. Neural Regeneration Research, 2015, 10, 1023.	1.6	17
39	Ruthenium Red Colorimetric and Birefringent Staining of Amyloid- β^2 Aggregates in Vitro and in Tg2576 Mice. ACS Chemical Neuroscience, 2013, 4, 379-384.	1.7	13
40	Effect of a small-group, active learning, tutorial-based, in-course enrichment program on student performance in medical physiology. American Journal of Physiology - Advances in Physiology Education, 2019, 43, 339-344.	0.8	6
41	Amyloids as Sensors and Protectors (ASAP) Hypothesis. Journal of Alzheimer's Disease, 2012, 29, 503-514.	1.2	5
42	Using lectures to identify student misconceptions: a study on the paradoxical effects of hyperkalemia on vascular smooth muscle. American Journal of Physiology - Advances in Physiology Education, 2020, 44, 15-20.	0.8	3
43	Medical student misconceptions in cardiovascular physiology. American Journal of Physiology - Advances in Physiology Education, 2021, 45, 241-249.	0.8	2