

Brian M Polster

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6561266/publications.pdf>

Version: 2024-02-01

54
papers

3,940
citations

147801

31
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

6941
citing authors

#	ARTICLE	IF	CITATIONS
1	The Non-Specific Drp1 Inhibitor Mdivi-1 Has Modest Biochemical Antioxidant Activity. <i>Antioxidants</i> , 2022, 11, 450.	5.1	15
2	Intrinsic epigenetic control of angiogenesis in induced pluripotent stem cell-derived endothelium regulates vascular regeneration. <i>Npj Regenerative Medicine</i> , 2022, 7, 28.	5.2	2
3	ALS/FTD mutations in UBQLN2 are linked to mitochondrial dysfunction through loss-of-function in mitochondrial protein import. <i>Human Molecular Genetics</i> , 2021, 30, 1230-1246.	2.9	10
4	Parkin-independent mitophagy via Drp1-mediated outer membrane severing and inner membrane ubiquitination. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	29
5	Mithramycin selectively attenuates DNA-damage-induced neuronal cell death. <i>Cell Death and Disease</i> , 2020, 11, 587.	6.3	8
6	Idebenone Has Distinct Effects on Mitochondrial Respiration in Cortical Astrocytes Compared to Cortical Neurons Due to Differential NQO1 Activity. <i>Journal of Neuroscience</i> , 2020, 40, 4609-4619.	3.6	30
7	Mapping mitochondrial respiratory chain deficiencies by respirometry: Beyond the Mito Stress Test. <i>Experimental Neurology</i> , 2020, 328, 113282.	4.1	16
8	Targeting breast cancer metabolism with a novel inhibitor of mitochondrial ATP synthesis. <i>Oncotarget</i> , 2020, 11, 3863-3885.	1.8	13
9	Fetal Programming and Sexual Dimorphism of Mitochondrial Protein Expression and Activity of Hearts of Prenatally Hypoxic Guinea Pig Offspring. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	13
10	Platelets in preeclamptic pregnancies fail to exhibit the decrease in mitochondrial oxygen consumption rate seen in normal pregnancies. <i>Bioscience Reports</i> , 2018, 38, .	2.4	7
11	Mitochondria in the nervous system: From health to disease, part II. <i>Neurochemistry International</i> , 2018, 117, 1-4.	3.8	6
12	Role of hypoxia in Diffuse Large B-cell Lymphoma: Metabolic repression and selective translation of HK2 facilitates development of DLBCL. <i>Scientific Reports</i> , 2018, 8, 744.	3.3	36
13	Sex differences in the mitochondrial bioenergetics of astrocytes but not microglia at a physiologically relevant brain oxygen tension. <i>Neurochemistry International</i> , 2018, 117, 82-90.	3.8	24
14	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572.	11.2	120
15	Comparing effects of CDK inhibition and E2F1/2 ablation on neuronal cell death pathways in vitro and after traumatic brain injury. <i>Cell Death and Disease</i> , 2018, 9, 1121.	6.3	17
16	Prenatal hypoxia impairs cardiac mitochondrial and ventricular function in guinea pig offspring in a sex-related manner. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1232-R1241.	1.8	24
17	An <i>in vitro</i> model yields new insights into chronic traumatic encephalopathy: damaged astrocytes stop thrombospondin to the injury. <i>Journal of Neurochemistry</i> , 2017, 140, 531-535.	3.9	2
18	The Putative Drp1 Inhibitor mdivi-1 Is a Reversible Mitochondrial Complex I Inhibitor that Modulates Reactive Oxygen Species. <i>Developmental Cell</i> , 2017, 40, 583-594.e6.	7.0	406

#	ARTICLE	IF	CITATIONS
19	Mitochondria in the nervous system: From health to disease, Part I. <i>Neurochemistry International</i> , 2017, 109, 1-4.	3.8	7
20	Inhibition of Bcl-xL prevents pro-death actions of \hat{I}^{N} -Bcl-xL at the mitochondrial inner membrane during glutamate excitotoxicity. <i>Cell Death and Differentiation</i> , 2017, 24, 1963-1974.	11.2	38
21	Mitochondrial E3 ubiquitin ligase MARCH5 controls mitochondrial fission and cell sensitivity to stress-induced apoptosis through regulation of MiD49 protein. <i>Molecular Biology of the Cell</i> , 2016, 27, 349-359.	2.1	117
22	Targeting $\langle \text{sc} \rangle \text{DDX} \langle / \text{sc} \rangle 3$ with a small molecule inhibitor for lung cancer therapy. <i>EMBO Molecular Medicine</i> , 2015, 7, 648-669.	6.9	189
23	Permeability transition pore-dependent and PARP-mediated depletion of neuronal pyridine nucleotides during anoxia and glucose deprivation. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 53-61.	2.3	12
24	Low micromolar concentrations of the superoxide probe MitoSOX uncouple neural mitochondria and inhibit complex IV. <i>Free Radical Biology and Medicine</i> , 2015, 86, 250-258.	2.9	60
25	The RUNX2 Transcription Factor Negatively Regulates SIRT6 Expression to Alter Glucose Metabolism in Breast Cancer Cells. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2210-2226.	2.6	56
26	Idebenone and neuroprotection: antioxidant, pro-oxidant, or electron carrier?. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 111-118.	2.3	99
27	Use of Potentiometric Fluorophores in the Measurement of Mitochondrial Reactive Oxygen Species. <i>Methods in Enzymology</i> , 2014, 547, 225-250.	1.0	62
28	Cyclin D1 Represses Gluconeogenesis via Inhibition of the Transcriptional Coactivator PGC1 $\hat{\pm}$. <i>Diabetes</i> , 2014, 63, 3266-3278.	0.6	51
29	NADPH oxidase- and mitochondria-derived reactive oxygen species in proinflammatory microglial activation: a bipartisan affair?. <i>Free Radical Biology and Medicine</i> , 2014, 76, 34-46.	2.9	160
30	Augmentation of Normal and Glutamate-Impaired Neuronal Respiratory Capacity by Exogenous Alternative Biofuels. <i>Translational Stroke Research</i> , 2013, 4, 643-651.	4.2	19
31	AIF, reactive oxygen species, and neurodegeneration: A $\hat{\text{e}}$ complex $\hat{\text{e}}$ problem. <i>Neurochemistry International</i> , 2013, 62, 695-702.	3.8	50
32	Magnesium Sulfate Protects Against the Bioenergetic Consequences of Chronic Glutamate Receptor Stimulation. <i>PLoS ONE</i> , 2013, 8, e79982.	2.5	35
33	Improved Mitochondrial Function with Diet-Induced Increase in Either Docosahexaenoic Acid or Arachidonic Acid in Membrane Phospholipids. <i>PLoS ONE</i> , 2012, 7, e34402.	2.5	72
34	Quantitative imaging of mitochondrial and cytosolic free zinc levels in an in vitro model of ischemia/reperfusion. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 253-263.	2.3	57
35	Protein Aggregation and Multiple Organelle Damage After Brain Ischemia. , 2012, , 101-116.		3
36	Investigation of Mitochondrial Dysfunction by Sequential Microplate-Based Respiration Measurements from Intact and Permeabilized Neurons. <i>PLoS ONE</i> , 2012, 7, e34465.	2.5	52

#	ARTICLE	IF	CITATIONS
37	Rapid Detection of an ABT-737-Sensitive Primed for Death State in Cells Using Microplate-Based Respirometry. PLoS ONE, 2012, 7, e42487.	2.5	7
38	Mitochondrial Mechanisms of Neural Cell Death in Cerebral Ischemia. , 2011, , 153-163.		2
39	Adaptation of microplate-based respirometry for hippocampal slices and analysis of respiratory capacity. Journal of Neuroscience Research, 2011, 89, 1979-1988.	2.9	47
40	The dynamin-related GTPase Opa1 is required for glucose-stimulated ATP production in pancreatic beta cells. Molecular Biology of the Cell, 2011, 22, 2235-2245.	2.1	142
41	Perilipin 5, a lipid droplet-associated protein, provides physical and metabolic linkage to mitochondria. Journal of Lipid Research, 2011, 52, 2159-2168.	4.2	365
42	Dietary supplementation with docosahexaenoic acid, but not eicosapentaenoic acid, dramatically alters cardiac mitochondrial phospholipid fatty acid composition and prevents permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1555-1562.	1.0	68
43	Reactive oxygen species regulation by AIF- and complex I-depleted brain mitochondria. Free Radical Biology and Medicine, 2009, 46, 939-947.	2.9	58
44	Real-time visualization of cytoplasmic calpain activation and calcium deregulation in acute glutamate excitotoxicity. Journal of Neurochemistry, 2009, 110, 990-1004.	3.9	33
45	Solid Phase Synthesis of Dual Labeled Peptides: Development of Cell Permeable Calpain Specific Substrates. International Journal of Peptide Research and Therapeutics, 2007, 13, 83-91.	1.9	4
46	Zinc-Dependent Multi-Conductance Channel Activity in Mitochondria Isolated from Ischemic Brain. Journal of Neuroscience, 2006, 26, 6851-6862.	3.6	93
47	Calpain I Induces Cleavage and Release of Apoptosis-inducing Factor from Isolated Mitochondria. Journal of Biological Chemistry, 2005, 280, 6447-6454.	3.4	375
48	Proapoptotic N-truncated BCL-xL protein activates endogenous mitochondrial channels in living synaptic terminals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13590-13595.	7.1	95
49	Mitochondrial mechanisms of neural cell apoptosis. Journal of Neurochemistry, 2004, 90, 1281-1289.	3.9	295
50	Viral Bcl-2 homologs and their role in virus replication and associated diseases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1644, 211-227.	4.1	67
51	Inhibition of Bax-Induced Cytochrome c Release from Neural Cell and Brain Mitochondria by Dibucaine and Propranolol. Journal of Neuroscience, 2003, 23, 2735-2743.	3.6	73
52	Bax, along with Lipid Conspirators, Allows Cytochrome c to Escape Mitochondria. Molecular Cell, 2002, 10, 963-965.	9.7	41
53	Regulation of hydrogen peroxide production by brain mitochondria by calcium and Bax. Journal of Neurochemistry, 2002, 83, 220-228.	3.9	215
54	Mitochondrial Precursor Signal Peptide Induces a Unique Permeability Transition and Release of Cytochrome c from Liver and Brain Mitochondria. Archives of Biochemistry and Biophysics, 2001, 386, 251-260.	3.0	34