

Gary Fiskum

List of Publications by Year in descending order

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102
papers

6,978
citations

47006

47
h-index

58581

82
g-index

103
all docs

103
docs citations

103
times ranked

7009
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Participation in Ischemic and Traumatic Neural Cell Death. <i>Journal of Neurotrauma</i> , 2000, 17, 843-855.	3.4	328
2	Mitochondria in Neurodegeneration: Acute Ischemia and Chronic Neurodegenerative Diseases. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 351-369.	4.3	324
3	Mitochondrial calcium and oxidative stress as mediators of ischemic brain injury. <i>Cell Calcium</i> , 2004, 36, 257-264.	2.4	298
4	Mitochondrial mechanisms of neural cell apoptosis. <i>Journal of Neurochemistry</i> , 2004, 90, 1281-1289.	3.9	295
5	Cerebral Ischemia and Reperfusion: Prevention of Brain Mitochondrial Injury by Lidoflazine. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1987, 7, 752-758.	4.3	255
6	Mitochondrial Mechanisms of Neural Cell Death and Neuroprotective Interventions in Parkinson's Disease. <i>Annals of the New York Academy of Sciences</i> , 2003, 991, 111-119.	3.8	216
7	Regulation of hydrogen peroxide production by brain mitochondria by calcium and Bax. <i>Journal of Neurochemistry</i> , 2002, 83, 220-228.	3.9	215
8	Shift of the Cellular Oxidation-Reduction Potential in Neural Cells Expressing Bcl-2. <i>Journal of Neurochemistry</i> , 1996, 67, 1259-1267.	3.9	203
9	Normoxic Resuscitation after Cardiac Arrest Protects against Hippocampal Oxidative Stress, Metabolic Dysfunction, and Neuronal Death. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 821-835.	4.3	193
10	Normoxic Ventilation After Cardiac Arrest Reduces Oxidation of Brain Lipids and Improves Neurological Outcome. <i>Stroke</i> , 1998, 29, 1679-1686.	2.0	185
11	Oximetry-Guided Reoxygenation Improves Neurological Outcome After Experimental Cardiac Arrest. <i>Stroke</i> , 2006, 37, 3008-3013.	2.0	184
12	Calcium induced release of mitochondrial cytochrome c by different mechanisms selective for brain versus liver. <i>Cell Death and Differentiation</i> , 1999, 6, 825-832.	11.2	177
13	Protection Against Ischemic Brain Injury by Inhibition of Mitochondrial Oxidative Stress. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 347-352.	2.3	137
14	Pyruvate dehydrogenase complex: Metabolic link to ischemic brain injury and target of oxidative stress. <i>Journal of Neuroscience Research</i> , 2005, 79, 240-247.	2.9	136
15	Hyperoxic Reperfusion After Global Ischemia Decreases Hippocampal Energy Metabolism. <i>Stroke</i> , 2007, 38, 1578-1584.	2.0	135
16	Cytochrome release from brain mitochondria is independent of the mitochondrial permeability transition. <i>FEBS Letters</i> , 1998, 439, 373-376.	2.8	134
17	Novel Mitochondrial Targets for Neuroprotection. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1362-1376.	4.3	128
18	Postischemic inhibition of cerebral cortex pyruvate dehydrogenase. <i>Free Radical Biology and Medicine</i> , 1994, 16, 811-820.	2.9	125

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19	Cyclosporin A-insensitive Permeability Transition in Brain Mitochondria. <i>Journal of Biological Chemistry</i> , 2003, 278, 27382-27389.	3.4	123
20	Mitochondrial mechanisms of cell death and neuroprotection in pediatric ischemic and traumatic brain injury. <i>Experimental Neurology</i> , 2009, 218, 371-380.	4.1	122
21	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
22	BH3 Death Domain Peptide Induces Cell Type-selective Mitochondrial Outer Membrane Permeability. <i>Journal of Biological Chemistry</i> , 2001, 276, 37887-37894.	3.4	119
23	Sulforaphane protects astrocytes against oxidative stress and delayed death caused by oxygen and glucose deprivation. <i>Glia</i> , 2009, 57, 645-656.	4.9	118
24	Mechanisms of Ischemic Neuroprotection by Acetyl-L-carnitine. <i>Annals of the New York Academy of Sciences</i> , 2005, 1053, 153-161.	3.8	112
25	Bcl-2 Protects Neural Cells from Cyanide/Hypoglycemia-Induced Lipid Oxidation, Mitochondrial Injury, and Loss of Viability. <i>Journal of Neurochemistry</i> , 1995, 65, 2432-2440.	3.9	109
26	Mechanisms of impaired mitochondrial energy metabolism in acute and chronic neurodegenerative disorders. <i>Journal of Neuroscience Research</i> , 2007, 85, 3407-3415.	2.9	103
27	Neuroprotection by Acetyl-L-Carnitine after Traumatic Injury to the Immature Rat Brain. <i>Developmental Neuroscience</i> , 2010, 32, 480-487.	2.0	102
28	Metabolism of acetyl-L-carnitine for energy and neurotransmitter synthesis in the immature rat brain. <i>Journal of Neurochemistry</i> , 2010, 114, 820-831.	3.9	90
29	Hyperoxic Reperfusion after Global Cerebral Ischemia Promotes Inflammation and Long-Term Hippocampal Neuronal Death. <i>Journal of Neurotrauma</i> , 2010, 27, 753-762.	3.4	87
30	Mitochondrial dysfunction early after traumatic brain injury in immature rats. <i>Journal of Neurochemistry</i> , 2007, 101, 1248-1257.	3.9	86
31	Redox Mechanisms of Cytoprotection by Bcl-2. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 508-514.	5.4	82
32	Nrf2 activators provide neuroprotection against 6-hydroxydopamine toxicity in rat organotypic nigrostriatal cocultures. <i>Journal of Neuroscience Research</i> , 2009, 87, 1659-1669.	2.9	81
33	Bcl-2 family proteins regulate mitochondrial reactive oxygen production and protect against oxidative stress. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1845-1853.	2.9	77
34	Sulforaphane protects immature hippocampal neurons against death caused by exposure to hemin or to oxygen and glucose deprivation. <i>Journal of Neuroscience Research</i> , 2010, 88, 1355-1363.	2.9	75
35	Sulforaphane inhibits mitochondrial permeability transition and oxidative stress. <i>Free Radical Biology and Medicine</i> , 2011, 51, 2164-2171.	2.9	74
36	Inhibition of Bax-Induced Cytochrome c Release from Neural Cell and Brain Mitochondria by Dibucaine and Propranolol. <i>Journal of Neuroscience</i> , 2003, 23, 2735-2743.	3.6	73

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37	Postischemic hyperoxia reduces hippocampal pyruvate dehydrogenase activity. <i>Free Radical Biology and Medicine</i> , 2006, 40, 1960-1970.	2.9	72
38	Heterogeneity of the calcium-induced permeability transition in isolated non-synaptic brain mitochondria. <i>Journal of Neurochemistry</i> , 2002, 83, 1297-1308.	3.9	71
39	Inhibition of postcardiac arrest brain protein oxidation by acetyl-L-carnitine. <i>Free Radical Biology and Medicine</i> , 1993, 15, 667-670.	2.9	67
40	Sex-dependent mitochondrial respiratory impairment and oxidative stress in a rat model of neonatal hypoxic-ischemic encephalopathy. <i>Journal of Neurochemistry</i> , 2016, 137, 714-729.	3.9	67
41	Influence of aging on membrane permeability transition in brain mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 3-10.	2.3	62
42	The Potential Role of Mitochondria in Pediatric Traumatic Brain Injury. <i>Developmental Neuroscience</i> , 2006, 28, 432-446.	2.0	59
43	Delayed cerebral oxidative glucose metabolism after traumatic brain injury in young rats. <i>Journal of Neurochemistry</i> , 2009, 109, 189-197.	3.9	57
44	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
45	Early and Sustained Alterations in Cerebral Metabolism after Traumatic Brain Injury in Immature Rats. <i>Journal of Neurotrauma</i> , 2008, 25, 603-614.	3.4	54
46	Early processing of Bid and caspase-6, -8, -10, -14 in the canine brain during cardiac arrest and resuscitation. <i>Experimental Neurology</i> , 2004, 189, 261-279.	4.1	49
47	Cyclosporin a Increases Mitochondrial Calcium Uptake Capacity in Cortical Astrocytes but not Cerebellar Granule Neurons. <i>Journal of Bioenergetics and Biomembranes</i> , 2006, 38, 43-47.	2.3	49
48	Brain mitochondria from rats treated with sulforaphane are resistant to redox-regulated permeability transition. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 491-497.	2.3	49
49	Neuroprotective Effects of Acetyl-L-Carnitine After Stroke in Rats. <i>Annals of Emergency Medicine</i> , 1997, 29, 758-765.	0.6	47
50	Neuronal Subclass-Selective Loss of Pyruvate Dehydrogenase Immunoreactivity Following Canine Cardiac Arrest and Resuscitation. <i>Experimental Neurology</i> , 2000, 161, 115-126.	4.1	47
51	Mechanisms of Ischemic Neuroprotection by Acetyl-L-carnitine. <i>Annals of the New York Academy of Sciences</i> , 2005, 1053, 153-161.	3.8	44
52	Hyperoxia promotes astrocyte cell death after oxygen and glucose deprivation. <i>Glia</i> , 2008, 56, 801-808.	4.9	40
53	Postischemic Oxidative Stress Promotes Mitochondrial Metabolic Failure in Neurons and Astrocytes. <i>Annals of the New York Academy of Sciences</i> , 2008, 1147, 129-138.	3.8	39
54	Mitochondrial response to calcium in the developing brain. <i>Developmental Brain Research</i> , 2004, 151, 141-148.	1.7	35

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55	Transcriptional activation of antioxidant gene expression by Nrf2 protects against mitochondrial dysfunction and neuronal death associated with acute and chronic neurodegeneration. <i>Experimental Neurology</i> , 2020, 328, 113247.	4.1	35
56	Postnatal developmental regulation of Bcl-2 family proteins in brain mitochondria. <i>Journal of Neuroscience Research</i> , 2008, 86, 1267-1276.	2.9	34
57	Neuroprotection through Stimulation of Mitochondrial Antioxidant Protein Expression. <i>Journal of Alzheimer's Disease</i> , 2010, 20, S427-S437.	2.6	33
58	Normoxic ventilatory resuscitation following controlled cortical impact reduces peroxynitrite-mediated protein nitration in the hippocampus. <i>Journal of Neurosurgery</i> , 2008, 108, 124-131.	1.6	31
59	Simulated Aeromedical Evacuation Exacerbates Experimental Brain Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 1292-1302.	3.4	29
60	Cerebral Glucose Metabolism in an Immature Rat Model of Pediatric Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2013, 30, 2066-2072.	3.4	27
61	Sex dependent alterations in mitochondrial electron transport chain proteins following neonatal rat cerebral hypoxic-ischemia. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 591-598.	2.3	24
62	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
63	Alteration of Voltage-Dependent Calcium Channels in Canine Brain during Global Ischemia and Reperfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992, 12, 418-424.	4.3	23
64	A fluorescence-based technique for screening compounds that protect against damage to brain mitochondria. <i>Brain Research Protocols</i> , 2004, 13, 176-182.	1.6	22
65	Hyperhomocysteinemia-Induced Oxidative Stress Exacerbates Cortical Traumatic Brain Injury Outcomes in Rats. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 487-503.	3.3	22
66	Effects of FK506 and cyclosporin a on calcium ionophore-induced mitochondrial depolarization and cytosolic calcium in astrocytes and neurons. <i>Journal of Neuroscience Research</i> , 2011, 89, 1973-1978.	2.9	20
67	Bcl-2 and Ca ²⁺ -mediated mitochondrial dysfunction in neural cell death. <i>Biochemical Society Symposia</i> , 1999, 66, 33-41.	2.7	20
68	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
69	Calcium uptake and cytochrome c release from normal and ischemic brain mitochondria. <i>Neurochemistry International</i> , 2018, 117, 15-22.	3.8	18
70	Aeromedical evacuation-relevant hypobaric worsens axonal and neurologic injury in rats after underbody blast-induced hyperacceleration. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, S35-S42.	2.1	15
71	A review and synthesis of correlates of fatigue in osteoarthritis. <i>International Journal of Orthopaedic and Trauma Nursing</i> , 2019, 33, 4-10.	0.9	15
72	Increased Activation of L-Type Voltage-Dependent Calcium Channels Is Associated with Glycine Enhancement of N-Methyl-D-Aspartate-Stimulated Dopamine Release in Global Cerebral Ischemia/Reperfusion. <i>Journal of Neurochemistry</i> , 1994, 63, 215-221.	3.9	13

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73	Delayed therapy of experimental global cerebral ischemia with acetyl-L-carnitine in dogs. <i>Neuroscience Letters</i> , 2005, 378, 82-87.	2.1	13
74	Anoxia-Induced Changes in Pyridine Nucleotide Redox State in Cortical Neurons and Astrocytes. <i>Neurochemical Research</i> , 2007, 32, 799-806.	3.3	13
75	Effect of cardiopulmonary bypass on platelet mitochondrial respiration and correlation with aggregation and bleeding: a pilot study. <i>Perfusion (United Kingdom)</i> , 2016, 31, 508-515.	1.0	13
76	Visualization and quantification of NAD(H) in brain sections by a novel histo-enzymatic nitrotetrazolium blue staining technique. <i>Brain Research</i> , 2010, 1316, 112-119.	2.2	12
77	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
78	Neuropathology and neurobehavioral alterations in a rat model of traumatic brain injury to occupants of vehicles targeted by underbody blasts. <i>Experimental Neurology</i> , 2017, 289, 9-20.	4.1	10
79	Central Nervous System Changes Induced by Underbody Blast-Induced Hyperacceleration: An <i>in Vivo</i> Diffusion Tensor Imaging and Magnetic Resonance Spectroscopy Study. <i>Journal of Neurotrauma</i> , 2017, 34, 1972-1980.	3.4	9
80	Rat Model of Brain Injury to Occupants of Vehicles Targeted by Land Mines: Mitigation by Elastomeric Frame Designs. <i>Journal of Neurotrauma</i> , 2018, 35, 1192-1203.	3.4	9
81	Post-stroke fatigue as an indicator of underlying bioenergetics alterations. <i>Journal of Bioenergetics and Biomembranes</i> , 2019, 51, 165-174.	2.3	9
82	ATP synthesis is coupled to rat liver mitochondrial RNA synthesis. <i>Molecular and Cellular Biochemistry</i> , 2001, 221, 3-10.	3.1	8
83	Rat model of brain injury caused by under-vehicle blast-induced hyperacceleration. <i>Journal of Trauma and Acute Care Surgery</i> , 2014, 77, S83-S87.	2.1	8
84	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
85	Hypobaric-Induced Oxidative Stress Facilitates Homocysteine Transsulfuration and Promotes Glutathione Oxidation in Rats with Mild Traumatic Brain Injury. <i>Journal of Central Nervous System Disease</i> , 2021, 13, 117957352098819.	1.9	6
86	Hypobaric Exposure Worsens Cardiac Function and Endothelial Injury in AN Animal Model of Polytrauma: Implications for Aeromedical Evacuation. <i>Shock</i> , 2021, 56, 601-610.	2.1	6
87	Oximetry-Guided normoxic resuscitation following canine cardiac arrest reduces cerebellar Purkinje neuronal damage. <i>Resuscitation</i> , 2019, 140, 23-28.	3.0	5
88	Effect of hypobaric and hyperoxia during sepsis on survival and energy metabolism. <i>Journal of Trauma and Acute Care Surgery</i> , 2018, 85, S68-S76.	2.1	4
89	Air-Evacuation-Relevant Hypobaric Following Traumatic Brain Injury Plus Hemorrhagic Shock in Rats Increases Mortality and Injury to the Gut, Lungs, and Kidneys. <i>Shock</i> , 2021, 56, 793-802.	2.1	4
90	Enhancing Metabolic Imaging of Energy Metabolism in Traumatic Brain Injury Using Hyperpolarized [1-13C]Pyruvate and Dichloroacetate. <i>Metabolites</i> , 2021, 11, 335.	2.9	4

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91	A Nonlethal Murine Flame Burn Model Leads to a Transient Reduction in Host Defenses and Enhanced Susceptibility to Lethal <i>Pseudomonas aeruginosa</i> Infection. <i>Infection and Immunity</i> , 2021, 89, e0009121.	2.2	4
92	Combined traumatic brain injury and hemorrhagic shock in ferrets leads to structural, neurochemical, and functional impairments. <i>Journal of Neurotrauma</i> , 2022, , .	3.4	4
93	Oxygen: could there be too much of a good thing?. <i>British Journal of Hospital Medicine (London,)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 0.5 3		
94	Mitochondrial Mechanisms of Neural Cell Death in Cerebral Ischemia. , 2011, , 153-163.		2
95	A non-lethal full-thickness flame burn produces a seroma beneath the forming eschar thereby promoting <i>Pseudomonas aeruginosa</i> sepsis in mice. <i>Journal of Burn Care and Research</i> , 2021, , .	0.4	2
96	Hyperoxidation of NAD(P)H redox state after anoxia and reoxygenation: Effects of nitric oxide and PARP-1 inhibition. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S77-S77.	4.3	1
97	Introduction: Mitochondria and Neuroprotectionâ€™In Memory of Albert L. Lehninger. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 275-276.	2.3	0
98	Ultrastructural Analysis of Platelets During Storage in Different Buffers. <i>Microscopy and Microanalysis</i> , 2018, 24, 1250-1251.	0.4	0
99	Editorial: Mitochondria and neurological diseases. <i>Experimental Neurology</i> , 2020, 334, 113467.	4.1	0
100	Normoxic resuscitation after cardiac arrest protects against hippocampal oxidative stress, metabolic failure, and neuronal death. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S42-S42.	4.3	0
101	Neuroprotection after Cardiac Arrest by Avoiding Acute Hyperoxia and by Antioxidant Genomic Postconditioning. <i>Oxidative Stress and Disease</i> , 2009, , .	0.3	0
102	Mitochondrial Antioxidants in Neuroprotection. <i>Oxidative Stress and Disease</i> , 2012, , 469-492.	0.3	0