Antonio Galina

List of Publications by Year
in descending order

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79 papers	3,363 citations	218592 26 h-index	149623 56 g-index
80 all docs	80 docs citations	80 times ranked	5852 citing authors

#	Article	IF	Citations
1	CD38 Dictates Age-Related NAD Decline and Mitochondrial Dysfunction through an SIRT3-Dependent Mechanism. Cell Metabolism, 2016, 23, 1127-1139.	7.2	581
2	Mitochondrial Bound Hexokinase Activity as a Preventive Antioxidant Defense. Journal of Biological Chemistry, 2004, 279, 39846-39855.	1.6	245
3	Mitochondrial Creatine Kinase Activity Prevents Reactive Oxygen Species Generation. Journal of Biological Chemistry, 2006, 281, 37361-37371.	1.6	167
4	Inhibition of energy-producing pathways of HepG2 cells by 3-bromopyruvate1. Biochemical Journal, 2009, 417, 717-726.	1.7	155
5	Altered Oxygen Metabolism Associated to Neurogenesis of Induced Pluripotent Stem Cells Derived from a Schizophrenic Patient. Cell Transplantation, 2012, 21, 1547-1559.	1.2	150
6	Bioenergetic failure of human peripheral blood monocytes in patients with septic shock is mediated by reduced F1Fo adenosine-5â€²-triphosphate synthase activity*. Critical Care Medicine, 2011, 39, 1056-1063.	0.4	148
7	Mesenchymal stem cells and cell-derived extracellular vesicles protect hippocampal neurons from oxidative stress and synapse damage induced by amyloid-Î² oligomers. Journal of Biological Chemistry, 2018, 293, 1957-1975.	1.6	146
8	Succinate dehydrogenase (mitochondrial complex <scp>II</scp>) is a source of reactive oxygen species in plants and regulates development and stress responses. New Phytologist, 2015, 208, 776-789.	3.5	129
9	Sepsis induces brain mitochondrial dysfunction. Critical Care Medicine, 2008, 36, 1925-1932.	0.4	125
10	Zika virus infection leads to mitochondrial failure, oxidative stress and DNA damage in human iPSC-derived astrocytes. Scientific Reports, 2020, 10, 1218.	1.6	95
11	Extracellular vesicles derived from human Whartonâ€™s jelly mesenchymal stem cells protect hippocampal neurons from oxidative stress and synapse damage induced by amyloid-Î² oligomers. Stem Cell Research and Therapy, 2019, 10, 332.	2.4	86
12	Amyloid-Î² Triggers the Release of Neuronal Hexokinase 1 from Mitochondria. PLoS ONE, 2010, 5, e15230.	1.1	86
13	Phosphoglucomutase Is an in Vivo Lithium Target in Yeast. Journal of Biological Chemistry, 2001, 276, 37794-37801.	1.6	73
14	Reactive oxygen species generation is modulated by mitochondrial kinases: Correlation with mitochondrial antioxidant peroxidases in rat tissues. Biochimie, 2008, 90, 1566-1577.	1.3	68
15	How does the metabolism of tumour cells differ from that of normal cells. Bioscience Reports, 2013, 33, .	1.1	59
16	Reactive Oxygen Species Production by Potato Tuber Mitochondria Is Modulated by Mitochondrially Bound Hexokinase Activity. Plant Physiology, 2009, 149, 1099-1110.	2.3	54
17	Subcellular distribution and kinetic properties of cytosolic and nonâ€cytosolic hexokinases in maize seedling roots: implications for hexose phosphorylation. Journal of Experimental Botany, 2001, 52, 1191-1201.	2.4	51
18	Glucose metabolism during embryogenesis of the hard tick Boophilus microplus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 528-533.	0.8	51

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19	Mitochondrial Dysfunction Induced by Different Organochalchogens Is Mediated by Thiol Oxidation and Is Not Dependent of the Classical Mitochondrial Permeability Transition Pore Opening. Toxicological Sciences, 2010, 117, 133-143.	1.4	48
20	Energy Metabolism in H460 Lung Cancer Cells: Effects of Histone Deacetylase Inhibitors. PLoS ONE, 2011, 6, e22264.	1.1	45
21	Effect of the antitumoral alkylating agent 3-bromopyruvate on mitochondrial respiration: role of mitochondrially bound hexokinase. Journal of Bioenergetics and Biomembranes, 2012, 44, 39-49.	1.0	38
22	Blood-Feeding Induces Reversible Functional Changes in Flight Muscle Mitochondria of Aedes aegypti Mosquito. PLoS ONE, 2009, 4, e7854.	1.1	36
23	High Intensity Interval Training (HIIT) Induces Specific Changes in Respiration and Electron Leakage in the Mitochondria of Different Rat Skeletal Muscles. PLoS ONE, 2015, 10, e0131766.	1.1	33
24	Modulation of Trypanosoma rangeli ecto-phosphatase activity by hydrogen peroxide. Free Radical Biology and Medicine, 2009, 47, 152-158.	1.3	31
25	Neuroprotection from optic nerve injury and modulation of oxidative metabolism by transplantation of active mitochondria to the retina. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165686.	1.8	31
26	Insulin prevents mitochondrial generation of H2O2 in rat brain. Experimental Neurology, 2013, 247, 66-72.	2.0	28
27	Hexokinase activity alters sugar-nucleotide formation in maize root homogenates. Phytochemistry, 2000, 53, 29-37.	1.4	27
28	Diphenyl diselenide protects endothelial cells against oxidized low density lipoprotein-induced injury: Involvement of mitochondrial function. Biochimie, 2014, 105, 172-181.	1.3	25
29	The synergism of high-intensity intermittent exercise and every-other-day intermittent fasting regimen on energy metabolism adaptations includes hexokinase activity and mitochondrial efficiency. PLoS ONE, 2018, 13, e0202784.	1.1	24
30	Nitric oxide inhibits succinate dehydrogenase-driven oxygen consumption in potato tuber mitochondria in an oxygen tension-independent manner. Biochemical Journal, 2013, 449, 263-273.	1.7	23
31	Mitochondria: 3-bromopyruvate vs. mitochondria? A small molecule that attacks tumors by targeting their bioenergetic diversity. International Journal of Biochemistry and Cell Biology, 2014, 54, 266-271.	1.2	23
32	The Impact of Stem Cells on Electron Fluxes, Proton Translocation, and ATP Synthesis in Kidney Mitochondria after Ischemia/Reperfusion. Cell Transplantation, 2014, 23, 207-220.	1.2	21
33	Molecular characterisation of a NADH ubiquinone oxidoreductase subunit 5 from Schistosoma mansoni and inhibition of mitochondrial respiratory chain function by testosterone. Molecular and Cellular Biochemistry, 1999, 202, 149-158.	1.4	18
34	Proton Transport in Maize Tonoplasts Supported by Fructose-1,6-Bisphosphate Cleavage. Pyrophosphate-Dependent Phosphofructokinase as a Pyrophosphate-Regenerating System. Plant Physiology, 2003, 133, 885-892.	2.3	18
35	Physical Exercise Exacerbates Memory Deficits Induced by Intracerebroventricular STZ but Improves Insulin Regulation of H2O2 Production in Mice Synaptosomes. Journal of Alzheimer's Disease, 2012, 30, 889-898.	1.2	18
36	Unveiling the effects of berenil, a DNA-binding drug, on Trypanosoma cruzi: implications for kDNA ultrastructure and replication. Parasitology Research, 2015, 114, 419-430.	0.6	18

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37	Decrement in resting and insulinâ€stimulated soleus muscle mitochondrial respiration is an early event in dietâ€induced obesity in mice. Experimental Physiology, 2019, 104, 306-321.	0.9	18
38	Expression Profile of Rat Hippocampal Neurons Treated with the Neuroprotective Compound 2,4-Dinitrophenol: Up-Regulation of cAMP Signaling Genes. Neurotoxicity Research, 2010, 18, 112-123.	1.3	17
39	The Symbiotic Bacterium Fuels the Energy Metabolism of the Host Trypanosomatid Strigomonas culicis. Protist, 2017, 168, 253-269.	0.6	17
40	3-Bromopyruvate inhibits calcium uptake by sarcoplasmic reticulum vesicles but not SERCA ATP hydrolysis activity. International Journal of Biochemistry and Cell Biology, 2012, 44, 801-807.	1.2	16
41	Low oxygen alters mitochondrial function and response to oxidative stress in human neural progenitor cells. PeerJ, 2015, 3, e1486.	0.9	16
42	Brown adipose tissue mitochondria: modulation by GDP and fatty acids depends on the respiratory substrates. Bioscience Reports, 2012, 32, 53-59.	1.1	15
43	Short-term starvation is a strategy to unravel the cellular capacity of oxidizing specific exogenous/endogenous substrates in mitochondria. Journal of Biological Chemistry, 2017, 292, 14176-14187.	1.6	15
44	Mitotherapy: Unraveling a Promising Treatment for Disorders of the Central Nervous System and Other Systemic Conditions. Cells, 2021, 10, 1827.	1.8	15
45	Pluripotent stem cells as a model to study oxygen metabolism in neurogenesis and neurodevelopmental disorders. Archives of Biochemistry and Biophysics, 2013, 534, 3-10.	1.4	14
46	Glutamine Therapy Reduces Inflammation and Extracellular Trap Release in Experimental Acute Respiratory Distress Syndrome of Pulmonary Origin. Nutrients, 2019, 11, 831.	1.7	14
47	Guanosine Neuroprotection of Presynaptic Mitochondrial Calcium Homeostasis in a Mouse Study with Amyloid-Î² Oligomers. Molecular Neurobiology, 2020, 57, 4790-4809.	1.9	14
48	Mesenchymal Stromal Cells From Emphysematous Donors and Their Extracellular Vesicles Are Unable to Reverse Cardiorespiratory Dysfunction in Experimental Severe Emphysema. Frontiers in Cell and Developmental Biology, 2021, 9, 661385.	1.8	14
49	Sugar phosphorylation modulates ADP inhibition of maize mitochondrial hexokinase. Physiologia Plantarum, 1999, 105, 17-23.	2.6	13
50	Hepatic Glycogen Synthesis in the Absence of Glucokinase. Journal of Biological Chemistry, 2008, 283, 5642-5649.	1.6	13
51	Maternal intake oftrans-unsaturated or interesterified fatty acids during pregnancy and lactation modifies mitochondrial bioenergetics in the liver of adult offspring in mice. British Journal of Nutrition, 2017, 118, 41-52.	1.2	13
52	Hyperglycemia in a type 1 Diabetes Mellitus model causes a shift in mitochondria coupled-glucose phosphorylation and redox metabolism in rat brain. Free Radical Biology and Medicine, 2020, 160, 796-806.	1.3	13
53	Heat of PPi Hydrolysis Varies Depending on the Enzyme Used. Journal of Biological Chemistry, 2004, 279, 45613-45617.	1.6	11
54	Perinatal Asphyxia and Brain Development: Mitochondrial Damage Without Anatomical or Cellular Losses. Molecular Neurobiology, 2018, 55, 8668-8679.	1.9	11

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55	Coupling of GABA Metabolism to Mitochondrial Glucose Phosphorylation. Neurochemical Research, 2022, 47, 470-480.	1.6	11
56	Rapid regulation of substrate use for oxidative phosphorylation during a single session of high intensity interval or aerobic exercises in different rat skeletal muscles. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 217, 40-50.	0.7	10
57	Mitochondriaâ€coupled glucose phosphorylation develops after birth to modulate H 2 O 2 release and calcium handling in rat brain. Journal of Neurochemistry, 2019, 149, 624-640.	2.1	10
58	Mitochondria-Bound Hexokinase (mt-HK) Activity Differ in Cortical and Hypothalamic Synaptosomes: Differential Role of mt-HK in H2O2 Depuration. Molecular Neurobiology, 2018, 55, 5889-5900.	1.9	9
59	2,4-dinitrophenol induces neural differentiation of murine embryonic stem cells. Stem Cell Research, 2013, 11, 1407-1416.	0.3	8
60	Reversal of oxidative phosphorylation in submitochondrial particles using glucose 6-phosphate and hexokinase as an ATP regenerating system. FEBS Letters, 1992, 308, 197-201.	1.3	7
61	Valproate Disturbs Morphology and Mitochondrial Membrane Potential in Human Neural Cells. Applied in Vitro Toxicology, 2015, 1, 254-261.	0.6	6
62	Energization by multiple substrates and calcium challenge reveal dysfunctions in brain mitochondria in a model related to acute psychosis. Journal of Bioenergetics and Biomembranes, 2020, 52, 1-15.	1.0	6
63	Acute Myocardial Infarction Reduces Respiration in Rat Cardiac Fibers, despite Adipose Tissue Mesenchymal Stromal Cell Transplant. Stem Cells International, 2020, 2020, 1-19.	1.2	6
64	Mitochondrial pyruvate carrier as a key regulator of fever and neuroinflammation. Brain, Behavior, and Immunity, 2021, 92, 90-101.	2.0	6
65	Type 2 diabetes mellitus alters cardiac mitochondrial content and function in a non-obese mice model. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20191340.	0.3	6
66	The Maxwell Demon in Biological Systems.. Annals of the New York Academy of Sciences, 1992, 671, 19-31.	1.8	5
67	Characterization of non-cytosolic hexokinase activity in white skeletal muscle from goldfish (Carassius auratus L.) and the effect of cold acclimation. Bioscience Reports, 2010, 30, 413-423.	1.1	5
68	Mortality of septic shock patients is associated with impaired mitochondrial oxidative coupling efficiency in lymphocytes: a prospective cohort study. Intensive Care Medicine Experimental, 2021, 9, 39.	0.9	5
69	3-Bromopyruvate: A new strategy for inhibition of glycolytic enzymes in Leishmania amazonensis. Experimental Parasitology, 2021, 229, 108154.	0.5	5
70	Physical exercise improves mitochondrial function in ovariectomized rats. Journal of Endocrinology, 2022, 254, 77-90.	1.2	5
71	Intense physical exercise potentiates glucose inhibitory effect over food intake of male Wistar rats. Experimental Physiology, 2018, 103, 1076-1086.	0.9	3
72	Inhibition of energy metabolism by 3-bromopyruvate in the hard tick Rhipicephalus microplus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 218, 55-61.	1.3	3

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73	A Protocol to Study Mitochondrial Function in Human Neural Progenitors and iPSCâ€Derived Astrocytes. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2020, 85, e97.	1.1	3
74	NOD Mice Recapitulate the Cardiac Disturbances Observed in Type 1 Diabetes. Journal of Cardiovascular Translational Research, 2021, 14, 271-282.	1.1	3
75	Dopamine signaling impairs ROS modulation by mitochondrial hexokinase in human neural progenitor cells. Bioscience Reports, 2021, 41, .	1.1	3
76	Maize tonoplast PPi-dependent H+/Ca2+ exchange: two Ks for Ca2+ and inhibition by thapsigargin. Biochemical and Biophysical Research Communications, 2003, 307, 472-476.	1.0	2
77	The yeast protein Ubx4p contributes to mitochondrial respiration and lithiumâ€“galactoseâ€“mediated activation of the unfolded protein response. Journal of Biological Chemistry, 2020, 295, 3773-3782.	1.6	2
78	Bone Marrow Mononuclear Cells Restore Normal Mitochondrial Ca²⁺ Handling and Ca²⁺-Induced Depolarization of the Internal Mitochondrial Membrane by Inhibiting the Permeability Transition Pore After Ischemia/Reperfusion. Cell Transplantation, 2022, 31, 096368972210858.	1.2	1
79	Role of Mitochondria in Head and Neck Cancer. , 2013, , 949-975.		0