Marcus Fernandes Oliveira

List of Publications by Year
in descending order

80 papers	5,081 citations	101543 36 h-index	91884 69 g-index
85 all docs	85 docs citations	85 times ranked	7562 citing authors

#	Article	IF	Citations
1	Involvement of political and socio-economic factors in the spatial and temporal dynamics of COVID-19 outcomes in Brazil: A population-based study. The Lancet Regional Health Americas, 2022, 10, 100221.	2.6	29
2	Responsible Science Assessment: downplaying indexes, boosting quality. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20191513.	0.8	6
3	Mechanical Permeabilization as a New Method for Assessment of Mitochondrial Function in Insect Tissues. Methods in Molecular Biology, 2021, 2276, 67-85.	0.9	3
4	Cytochrome c Oxidase at Full Thrust: Regulation and Biological Consequences to Flying Insects. Cells, 2021, 10, 470.	4.1	4
5	Reduction of host cell mitochondrial activity as Mycobacterium lepraeâ€™s strategy to evade host innate immunity. Immunological Reviews, 2021, 301, 193-208.	6.0	18
6	Aedes aegypti post-emergence transcriptome: Unveiling the molecular basis for the hematophagic and gonotrophic capacitation. PLoS Neglected Tropical Diseases, 2021, 15, e0008915.	3.0	3
7	Lung tumor growth promotion by tobacco-specific nitrosamines involves the Î²2-adrenergic receptors-dependent stimulation of mitochondrial REDOX signaling. Antioxidants and Redox Signaling, 2021, , .	5.4	2
8	Emerging roles of Î²-cell mitochondria in type-2-diabetes. Molecular Aspects of Medicine, 2020, 71, 100843.	6.4	39
9	Mitochondria: New developments in pathophysiology. Molecular Aspects of Medicine, 2020, 71, 100841.	6.4	3
10	Acetylsalicylic acid and salicylic acid present anticancer properties against melanoma by promoting nitric oxide-dependent endoplasmic reticulum stress and apoptosis. Scientific Reports, 2020, 10, 19617.	3.3	21
11	A simple and reliable method for longitudinal assessment of untethered mosquito induced flight activity. Journal of Insect Physiology, 2020, 126, 104098.	2.0	5
12	Assessment of mitochondrial physiology of murine white adipose tissue by mechanical permeabilization and lipid depletion. Analytical Biochemistry, 2020, 611, 113935.	2.4	1
13	NCLX prevents cell death during adrenergic activation of the brown adipose tissue. Nature Communications, 2020, 11, 3347.	12.8	31
14	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. EMBO Reports, 2020, 21, e49634.	4.5	31
15	Mitochondrial glycerol phosphate oxidation is modulated by adenylates through allosteric regulation of cytochrome c oxidase activity in mosquito flight muscle. Insect Biochemistry and Molecular Biology, 2019, 114, 103226.	2.7	9
16	Highly aggressive behavior induced by social stress is associated to reduced cytochrome c oxidase activity in mice brain cortex. Neurochemistry International, 2019, 126, 210-217.	3.8	6
17	A method for assessing mitochondrial physiology using mechanically permeabilized flight muscle of Aedes aegypti mosquitoes. Analytical Biochemistry, 2019, 576, 33-41.	2.4	14
18	Mitochondria Bound to Lipid Droplets Have Unique Bioenergetics, Composition, and Dynamics that Support Lipid Droplet Expansion. Cell Metabolism, 2018, 27, 869-885.e6.	16.2	359

#	Article	IF	Citations
19	Modulation of mitochondrial metabolism as a biochemical trait in blood feeding organisms: the redox vampire hypothesis redux. Cell Biology International, 2018, 42, 683-700.	3.0	10
20	Perinatal Asphyxia and Brain Development: Mitochondrial Damage Without Anatomical or Cellular Losses. Molecular Neurobiology, 2018, 55, 8668-8679.	4.0	11
21	Heme crystallization in a Chagas disease vector acts as a redox-protective mechanism to allow insect reproduction and parasite infection. PLoS Neglected Tropical Diseases, 2018, 12, e0006661.	3.0	11
22	Is â€œPreparation for Oxidative Stressâ€•a Case of Physiological Conditioning Hormesis?. Frontiers in Physiology, 2018, 9, 945.	2.8	66
23	Hemoglobin metabolism by-products are associated with an inflammatory response in patients with hemorrhagic stroke. Revista Brasileira De Terapia Intensiva, 2018, 30, 21-27.	0.3	21
24	Mfn2 deletion in brown adipose tissue protects from insulin resistance and impairs thermogenesis. EMBO Reports, 2017, 18, 1123-1138.	4.5	89
25	Heme modulates Trypanosoma cruzi bioenergetics inducing mitochondrial ROS production. Free Radical Biology and Medicine, 2017, 108, 183-191.	2.9	41
26	Current Trends and Research Challenges Regarding â€œPreparation for Oxidative Stressâ€• Frontiers in Physiology, 2017, 8, 702.	2.8	46
27	Molecular, Cellular and Clinical Aspects of Intracerebral Hemorrhage: Are the Enemies Within?. Current Neuropharmacology, 2016, 14, 392-402.	2.9	51
28	Sexual Preferences in Nutrient Utilization Regulate Oxygen Consumption and Reactive Oxygen Species Generation in Schistosoma mansoni: Potential Implications for Parasite Redox Biology. PLoS ONE, 2016, 11, e0158429.	2.5	12
29	Detergent-Mediated Formation of Î²-Hematin: Heme Crystallization Promoted by Detergents Implicates Nanostructure Formation for Use as a Biological Mimic. Crystal Growth and Design, 2016, 16, 2542-2551.	3.0	12
30	Amino acids trigger down-regulation of superoxide via TORC pathway in the midgut of Rhodnius prolixus. Bioscience Reports, 2016, 36, .	2.4	18
31	Subversion of Schwann Cell Glucose Metabolism by Mycobacterium leprae. Journal of Biological Chemistry, 2016, 291, 21375-21387.	3.4	41
32	Classical ROS-dependent and early/rapid ROS-independent release of Neutrophil Extracellular Traps triggered by Leishmania parasites. Scientific Reports, 2016, 5, 18302.	3.3	207
33	Extracellular Redox Regulation of Intracellular Reactive Oxygen Generation, Mitochondrial Function and Lipid Turnover in Cultured Human Adipocytes. PLoS ONE, 2016, 11, e0164011.	2.5	22
34	Mitochondrial Physiology in the Major Arbovirus Vector Aedes aegypti: Substrate Preferences and Sexual Differences Define Respiratory Capacity and Superoxide Production. PLoS ONE, 2015, 10, e0120600.	2.5	45
35	Unsaturated Glycerophospholipids Mediate Heme Crystallization: Biological Implications for Hemozoin Formation in the Kissing Bug Rhodnius prolixus. PLoS ONE, 2014, 9, e88976.	2.5	12
36	Mitochondria: Biological roles in platelet physiology and pathology. International Journal of Biochemistry and Cell Biology, 2014, 50, 156-160.	2.8	60

#	Article	IF	Citations
37	Exercise-induced cardioprotection is impaired by anabolic steroid treatment through a redox-dependent mechanism. Journal of Steroid Biochemistry and Molecular Biology, 2013, 138, 267-272.	2.5	25
38	Silencing of Maternal Heme-binding Protein Causes Embryonic Mitochondrial Dysfunction and Impairs Embryogenesis in the Blood Sucking Insect Rhodnius prolixus. Journal of Biological Chemistry, 2013, 288, 29323-29332.	3.4	31
39	In vivo detection of free radicals in mouse septic encephalopathy using molecular MRI and immuno-spin trapping. Free Radical Biology and Medicine, 2013, 65, 828-837.	2.9	26
40	Dengue induces platelet activation, mitochondrial dysfunction and cell death through mechanisms that involve DC-SIGN and caspases. Journal of Thrombosis and Haemostasis, 2013, 11, 951-962.	3.8	165
41	Platelets mediate increased endothelium permeability in dengue through NLRP3-inflammasome activation. Blood, 2013, 122, 3405-3414.	1.4	276
42	Mitochondrial Reactive Oxygen Species Modulate Mosquito Susceptibility to Plasmodium Infection. PLoS ONE, 2012, 7, e41083.	2.5	35
43	Energy metabolism affects susceptibility of Anopheles gambiae mosquitoes to Plasmodium infection. Insect Biochemistry and Molecular Biology, 2011, 41, 349-355.	2.7	25
44	Heme-Induced ROS in Trypanosoma Cruzi Activates CaMKII-Like That Triggers Epimastigote Proliferation. One Helpful Effect of ROS. PLoS ONE, 2011, 6, e25935.	2.5	43
45	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.	0.9	148
46	On the mechanisms involved in biological heme crystallization. Journal of Bioenergetics and Biomembranes, 2011, 43, 93-99.	2.3	20
47	A comparative assessment of mitochondrial function in epimastigotes and bloodstream trypomastigotes of Trypanosoma cruzi. Journal of Bioenergetics and Biomembranes, 2011, 43, 651-661.	2.3	51
48	Sepsis-Associated Encephalopathy: A Magnetic Resonance Imaging and Spectroscopy Study. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 440-448.	4.3	76
49	Increase on the Initial Soluble Heme Levels in Acidic Conditions Is an Important Mechanism for Spontaneous Heme Crystallization In Vitro. PLoS ONE, 2010, 5, e12694.	2.5	28
50	Cognitive Dysfunction Is Sustained after Rescue Therapy in Experimental Cerebral Malaria, and Is Reduced by Additive Antioxidant Therapy. PLoS Pathogens, 2010, 6, e1000963.	4.7	91
51	Bioimaging of copper alterations in the aging mouse brain by autoradiography, laser ablation inductively coupled plasma mass spectrometry and immunohistochemistry. Metallomics, 2010, 2, 348.	2.4	59
52	On the physico-chemical and physiological requirements of hemozoin formation promoted by perimicrovillar membranes in Rhodnius prolixus midgut. Insect Biochemistry and Molecular Biology, 2010, 40, 284-292.	2.7	23
53	Sn-protoporphyrin inhibits both heme degradation and hemozoin formation in Rhodnius prolixus midgut. Insect Biochemistry and Molecular Biology, 2010, 40, 855-860.	2.7	7
54	Blood-Feeding Induces Reversible Functional Changes in Flight Muscle Mitochondria of Aedes aegypti Mosquito. PLoS ONE, 2009, 4, e7854.	2.5	36

#	Article	IF	Citations
55	Interference with Hemozoin Formation Represents an Important Mechanism of Schistosomicidal Action of Antimalarial Quinoline Methanols. PLoS Neglected Tropical Diseases, 2009, 3, e477.	3.0	74
56	Reactive Oxygen Species Production by Potato Tuber Mitochondria Is Modulated by Mitochondrially Bound Hexokinase Activity. Plant Physiology, 2009, 149, 1099-1110.	4.8	54
57	The effects on Trypanosoma cruzi of novel synthetic naphthoquinones are mediated by mitochondrial dysfunction. Free Radical Biology and Medicine, 2009, 47, 644-653.	2.9	90
58	On the Fate of Extracellular Hemoglobin and Heme in Brain. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1109-1120.	4.3	48
59	Effects of a putrescine analog on Giardia lamblia. Parasitology Research, 2008, 103, 363-370.	1.6	10
60	Reactive oxygen species generation is modulated by mitochondrial kinases: Correlation with mitochondrial antioxidant peroxidases in rat tissues. Biochimie, 2008, 90, 1566-1577.	2.6	68
61	The putrescine analogue 1,4-diamino-2-butanone affects polyamine synthesis, transport, ultrastructure and intracellular survival in Leishmania amazonensis. Microbiology (United Kingdom), 2008, 154, 3104-3111.	1.8	53
62	Sepsis induces brain mitochondrial dysfunction. Critical Care Medicine, 2008, 36, 1925-1932.	0.9	125
63	Characterization of Heme as Activator of Toll-like Receptor 4. Journal of Biological Chemistry, 2007, 282, 20221-20229.	3.4	479
64	Effects of retinoids and juvenoids on moult and on phenoloxidase activity in the blood-sucking insect Rhodnius prolixus. Acta Tropica, 2007, 103, 222-230.	2.0	31
65	Heme crystallization in the midgut of triatomine insects. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 146, 168-174.	2.6	20
66	Perimicrovillar membranes promote hemozoin formation into Rhodnius prolixus midgut. Insect Biochemistry and Molecular Biology, 2007, 37, 523-531.	2.7	23
67	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood flukeSchistosoma mansoni. FEBS Letters, 2007, 581, 1742-1750.	2.8	48
68	Adaptations against heme toxicity in blood-feeding arthropods. Insect Biochemistry and Molecular Biology, 2006, 36, 322-335.	2.7	336
69	Nandrolone decanoate impairs exercise-induced cardioprotection: Role of antioxidant enzymes. Journal of Steroid Biochemistry and Molecular Biology, 2006, 99, 223-230.	2.5	53
70	Putrescine analogue cytotoxicity against Trypanosoma cruzi. Parasitology Research, 2006, 98, 99-105.	1.6	39
71	Mitochondrial Creatine Kinase Activity Prevents Reactive Oxygen Species Generation. Journal of Biological Chemistry, 2006, 281, 37361-37371.	3.4	167
72	Structural and morphological characterization of hemozoin produced bySchistosoma mansoniandRhodnius prolixus. FEBS Letters, 2005, 579, 6010-6016.	2.8	112

#	Article	IF	Citations
73	Mitochondrial Bound Hexokinase Activity as a Preventive Antioxidant Defense. Journal of Biological Chemistry, 2004, 279, 39846-39855.	3.4	245
74	Inhibition of Heme Aggregation by Chloroquine ReducesSchistosoma mansoniInfection. Journal of Infectious Diseases, 2004, 190, 843-852.	4.0	72
75	On the pro-oxidant effects of haemozoin. FEBS Letters, 2002, 512, 139-144.	2.8	50
76	Vampires, Pasteur and reactive oxygen species. FEBS Letters, 2002, 525, 3-6.	2.8	37
77	Azathioprine Inhibits Vaccinia Virus Replication in Both BSC-40 and Rag Cell Lines Acting on Different Stages of Virus Cycle. Virology, 2002, 300, 79-91.	2.4	13
78	Haemozoin in Schistosoma mansoni. Molecular and Biochemical Parasitology, 2000, 111, 217-221.	1.1	115
79	Haemozoin formation in the midgut of the blood-sucking insectRhodnius prolixus. FEBS Letters, 2000, 477, 95-98.	2.8	71
80	Haem detoxification by an insect. Nature, 1999, 400, 517-518.	27.8	120