

Marcus Fernandes Oliveira

List of Publications by Year in descending order

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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	Characterization of Heme as Activator of Toll-like Receptor 4. <i>Journal of Biological Chemistry</i> , 2007, 282, 20221-20229.	3.4	479
2	Mitochondria Bound to Lipid Droplets Have Unique Bioenergetics, Composition, and Dynamics that Support Lipid Droplet Expansion. <i>Cell Metabolism</i> , 2018, 27, 869-885.e6.	16.2	359
3	Adaptations against heme toxicity in blood-feeding arthropods. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 322-335.	2.7	336
4	Platelets mediate increased endothelium permeability in dengue through NLRP3-inflammasome activation. <i>Blood</i> , 2013, 122, 3405-3414.	1.4	276
5	Mitochondrial Bound Hexokinase Activity as a Preventive Antioxidant Defense. <i>Journal of Biological Chemistry</i> , 2004, 279, 39846-39855.	3.4	245
6	Classical ROS-dependent and early/rapid ROS-independent release of Neutrophil Extracellular Traps triggered by Leishmania parasites. <i>Scientific Reports</i> , 2016, 5, 18302.	3.3	207
7	Mitochondrial Creatine Kinase Activity Prevents Reactive Oxygen Species Generation. <i>Journal of Biological Chemistry</i> , 2006, 281, 37361-37371.	3.4	167
8	Dengue induces platelet activation, mitochondrial dysfunction and cell death through mechanisms that involve DC-SIGN and caspases. <i>Journal of Thrombosis and Haemostasis</i> , 2013, 11, 951-962.	3.8	165
9	Bioenergetic failure of human peripheral blood monocytes in patients with septic shock is mediated by reduced F1Fo adenosine-5-triphosphate synthase activity*. <i>Critical Care Medicine</i> , 2011, 39, 1056-1063.	0.9	148
10	Sepsis induces brain mitochondrial dysfunction. <i>Critical Care Medicine</i> , 2008, 36, 1925-1932.	0.9	125
11	Haem detoxification by an insect. <i>Nature</i> , 1999, 400, 517-518.	27.8	120
12	Haemozoin in <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , 2000, 111, 217-221.	1.1	115
13	Structural and morphological characterization of hemozoin produced by <i>Schistosoma mansoni</i> and <i>Rhodnius prolixus</i> . <i>FEBS Letters</i> , 2005, 579, 6010-6016.	2.8	112
14	Cognitive Dysfunction Is Sustained after Rescue Therapy in Experimental Cerebral Malaria, and Is Reduced by Additive Antioxidant Therapy. <i>PLoS Pathogens</i> , 2010, 6, e1000963.	4.7	91
15	The effects on <i>Trypanosoma cruzi</i> of novel synthetic naphthoquinones are mediated by mitochondrial dysfunction. <i>Free Radical Biology and Medicine</i> , 2009, 47, 644-653.	2.9	90
16	Mfn2 deletion in brown adipose tissue protects from insulin resistance and impairs thermogenesis. <i>EMBO Reports</i> , 2017, 18, 1123-1138.	4.5	89
17	Sepsis-Associated Encephalopathy: A Magnetic Resonance Imaging and Spectroscopy Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 440-448.	4.3	76
18	Interference with Hemozoin Formation Represents an Important Mechanism of Schistosomicidal Action of Antimalarial Quinoline Methanols. <i>PLoS Neglected Tropical Diseases</i> , 2009, 3, e477.	3.0	74

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19	Inhibition of Heme Aggregation by Chloroquine Reduces <i>Schistosoma mansoni</i> Infection. <i>Journal of Infectious Diseases</i> , 2004, 190, 843-852.	4.0	72
20	Haemozoin formation in the midgut of the blood-sucking insect <i>Rhodnius prolixus</i> . <i>FEBS Letters</i> , 2000, 477, 95-98.	2.8	71
21	Reactive oxygen species generation is modulated by mitochondrial kinases: Correlation with mitochondrial antioxidant peroxidases in rat tissues. <i>Biochimie</i> , 2008, 90, 1566-1577.	2.6	68
22	Is "Preparation for Oxidative Stress" a Case of Physiological Conditioning Hormesis?. <i>Frontiers in Physiology</i> , 2018, 9, 945.	2.8	66
23	Mitochondria: Biological roles in platelet physiology and pathology. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 50, 156-160.	2.8	60
24	Bioimaging of copper alterations in the aging mouse brain by autoradiography, laser ablation inductively coupled plasma mass spectrometry and immunohistochemistry. <i>Metallomics</i> , 2010, 2, 348.	2.4	59
25	Reactive Oxygen Species Production by Potato Tuber Mitochondria Is Modulated by Mitochondrially Bound Hexokinase Activity. <i>Plant Physiology</i> , 2009, 149, 1099-1110.	4.8	54
26	Nandrolone decanoate impairs exercise-induced cardioprotection: Role of antioxidant enzymes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2006, 99, 223-230.	2.5	53
27	The putrescine analogue 1,4-diamino-2-butanone affects polyamine synthesis, transport, ultrastructure and intracellular survival in <i>Leishmania amazonensis</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 3104-3111.	1.8	53
28	A comparative assessment of mitochondrial function in epimastigotes and bloodstream trypomastigotes of <i>Trypanosoma cruzi</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 651-661.	2.3	51
29	Molecular, Cellular and Clinical Aspects of Intracerebral Hemorrhage: Are the Enemies Within?. <i>Current Neuropharmacology</i> , 2016, 14, 392-402.	2.9	51
30	On the pro-oxidant effects of haemozoin. <i>FEBS Letters</i> , 2002, 512, 139-144.	2.8	50
31	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood fluke <i>Schistosoma mansoni</i> . <i>FEBS Letters</i> , 2007, 581, 1742-1750.	2.8	48
32	On the Fate of Extracellular Hemoglobin and Heme in Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1109-1120.	4.3	48
33	Current Trends and Research Challenges Regarding "Preparation for Oxidative Stress". <i>Frontiers in Physiology</i> , 2017, 8, 702.	2.8	46
34	Mitochondrial Physiology in the Major Arbovirus Vector <i>Aedes aegypti</i> : Substrate Preferences and Sexual Differences Define Respiratory Capacity and Superoxide Production. <i>PLoS ONE</i> , 2015, 10, e0120600.	2.5	45
35	Heme-Induced ROS in <i>Trypanosoma Cruzi</i> Activates CaMKII-Like That Triggers Epimastigote Proliferation. One Helpful Effect of ROS. <i>PLoS ONE</i> , 2011, 6, e25935.	2.5	43
36	Subversion of Schwann Cell Glucose Metabolism by <i>Mycobacterium leprae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 21375-21387.	3.4	41

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37	Heme modulates <i>Trypanosoma cruzi</i> bioenergetics inducing mitochondrial ROS production. <i>Free Radical Biology and Medicine</i> , 2017, 108, 183-191.	2.9	41
38	Putrescine analogue cytotoxicity against <i>Trypanosoma cruzi</i> . <i>Parasitology Research</i> , 2006, 98, 99-105.	1.6	39
39	Emerging roles of β^2 -cell mitochondria in type-2-diabetes. <i>Molecular Aspects of Medicine</i> , 2020, 71, 100843.	6.4	39
40	Vampires, Pasteur and reactive oxygen species. <i>FEBS Letters</i> , 2002, 525, 3-6.	2.8	37
41	Blood-Feeding Induces Reversible Functional Changes in Flight Muscle Mitochondria of <i>Aedes aegypti</i> Mosquito. <i>PLoS ONE</i> , 2009, 4, e7854.	2.5	36
42	Mitochondrial Reactive Oxygen Species Modulate Mosquito Susceptibility to <i>Plasmodium</i> Infection. <i>PLoS ONE</i> , 2012, 7, e41083.	2.5	35
43	Effects of retinoids and juvenoids on moult and on phenoloxidase activity in the blood-sucking insect <i>Rhodnius prolixus</i> . <i>Acta Tropica</i> , 2007, 103, 222-230.	2.0	31
44	Silencing of Maternal Heme-binding Protein Causes Embryonic Mitochondrial Dysfunction and Impairs Embryogenesis in the Blood Sucking Insect <i>Rhodnius prolixus</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 29323-29332.	3.4	31
45	NCLX prevents cell death during adrenergic activation of the brown adipose tissue. <i>Nature Communications</i> , 2020, 11, 3347.	12.8	31
46	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. <i>EMBO Reports</i> , 2020, 21, e49634.	4.5	31
47	Involvement of political and socio-economic factors in the spatial and temporal dynamics of COVID-19 outcomes in Brazil: A population-based study. <i>The Lancet Regional Health Americas</i> , 2022, 10, 100221.	2.6	29
48	Increase on the Initial Soluble Heme Levels in Acidic Conditions Is an Important Mechanism for Spontaneous Heme Crystallization In Vitro. <i>PLoS ONE</i> , 2010, 5, e12694.	2.5	28
49	In vivo detection of free radicals in mouse septic encephalopathy using molecular MRI and immuno-spin trapping. <i>Free Radical Biology and Medicine</i> , 2013, 65, 828-837.	2.9	26
50	Energy metabolism affects susceptibility of <i>Anopheles gambiae</i> mosquitoes to <i>Plasmodium</i> infection. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 349-355.	2.7	25
51	Exercise-induced cardioprotection is impaired by anabolic steroid treatment through a redox-dependent mechanism. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 138, 267-272.	2.5	25
52	Perimicrovillar membranes promote hemozoin formation into <i>Rhodnius prolixus</i> midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 523-531.	2.7	23
53	On the physico-chemical and physiological requirements of hemozoin formation promoted by perimicrovillar membranes in <i>Rhodnius prolixus</i> midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 284-292.	2.7	23
54	Extracellular Redox Regulation of Intracellular Reactive Oxygen Generation, Mitochondrial Function and Lipid Turnover in Cultured Human Adipocytes. <i>PLoS ONE</i> , 2016, 11, e0164011.	2.5	22

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55	Acetylsalicylic acid and salicylic acid present anticancer properties against melanoma by promoting nitric oxide-dependent endoplasmic reticulum stress and apoptosis. <i>Scientific Reports</i> , 2020, 10, 19617.	3.3	21
56	Hemoglobin metabolism by-products are associated with an inflammatory response in patients with hemorrhagic stroke. <i>Revista Brasileira De Terapia Intensiva</i> , 2018, 30, 21-27.	0.3	21
57	Heme crystallization in the midgut of triatomine insects. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007, 146, 168-174.	2.6	20
58	On the mechanisms involved in biological heme crystallization. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 93-99.	2.3	20
59	Amino acids trigger down-regulation of superoxide via TORC pathway in the midgut of <i>Rhodnius prolixus</i> . <i>Bioscience Reports</i> , 2016, 36, .	2.4	18
60	Reduction of host cell mitochondrial activity as <i>Mycobacterium leprae</i> strategy to evade host innate immunity. <i>Immunological Reviews</i> , 2021, 301, 193-208.	6.0	18
61	A method for assessing mitochondrial physiology using mechanically permeabilized flight muscle of <i>Aedes aegypti</i> mosquitoes. <i>Analytical Biochemistry</i> , 2019, 576, 33-41.	2.4	14
62	Azathioprine Inhibits Vaccinia Virus Replication in Both BSC-40 and Rag Cell Lines Acting on Different Stages of Virus Cycle. <i>Virology</i> , 2002, 300, 79-91.	2.4	13
63	Unsaturated Glycerophospholipids Mediate Heme Crystallization: Biological Implications for Hemozoin Formation in the Kissing Bug <i>Rhodnius prolixus</i> . <i>PLoS ONE</i> , 2014, 9, e88976.	2.5	12
64	Sexual Preferences in Nutrient Utilization Regulate Oxygen Consumption and Reactive Oxygen Species Generation in <i>Schistosoma mansoni</i> : Potential Implications for Parasite Redox Biology. <i>PLoS ONE</i> , 2016, 11, e0158429.	2.5	12
65	Detergent-Mediated Formation of β -Hematin: Heme Crystallization Promoted by Detergents Implicates Nanostructure Formation for Use as a Biological Mimic. <i>Crystal Growth and Design</i> , 2016, 16, 2542-2551.	3.0	12
66	Perinatal Asphyxia and Brain Development: Mitochondrial Damage Without Anatomical or Cellular Losses. <i>Molecular Neurobiology</i> , 2018, 55, 8668-8679.	4.0	11
67	Heme crystallization in a Chagas disease vector acts as a redox-protective mechanism to allow insect reproduction and parasite infection. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006661.	3.0	11
68	Effects of a putrescine analog on <i>Giardia lamblia</i> . <i>Parasitology Research</i> , 2008, 103, 363-370.	1.6	10
69	Modulation of mitochondrial metabolism as a biochemical trait in blood feeding organisms: the redox vampire hypothesis redux. <i>Cell Biology International</i> , 2018, 42, 683-700.	3.0	10
70	Mitochondrial glycerol phosphate oxidation is modulated by adenylates through allosteric regulation of cytochrome c oxidase activity in mosquito flight muscle. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 114, 103226.	2.7	9
71	Sn-protoporphyrin inhibits both heme degradation and hemozoin formation in <i>Rhodnius prolixus</i> midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 855-860.	2.7	7
72	Highly aggressive behavior induced by social stress is associated to reduced cytochrome c oxidase activity in mice brain cortex. <i>Neurochemistry International</i> , 2019, 126, 210-217.	3.8	6

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73	Responsible Science Assessment: downplaying indexes, boosting quality. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20191513.	0.8	6
74	A simple and reliable method for longitudinal assessment of untethered mosquito induced flight activity. Journal of Insect Physiology, 2020, 126, 104098.	2.0	5
75	Cytochrome c Oxidase at Full Thrust: Regulation and Biological Consequences to Flying Insects. Cells, 2021, 10, 470.	4.1	4
76	Mitochondria: New developments in pathophysiology. Molecular Aspects of Medicine, 2020, 71, 100841.	6.4	3
77	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
78	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
79	Lung tumor growth promotion by tobacco-specific nitrosamines involves the β 2-adrenergic receptors-dependent stimulation of mitochondrial REDOX signaling. Antioxidants and Redox Signaling, 2021, , .	5.4	2
80	Assessment of mitochondrial physiology of murine white adipose tissue by mechanical permeabilization and lipid depletion. Analytical Biochemistry, 2020, 611, 113935.	2.4	1