

Marcus F Oliveira

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

3,017
citations

29
h-index

54
g-index

64
ext. papers

3,515
ext. citations

6
avg, IF

4.66
L-index

#	Paper	IF	Citations
59	Characterization of heme as activator of Toll-like receptor 4. <i>Journal of Biological Chemistry</i> , 2007 , 282, 20221-9	5.4	393
58	Adaptations against heme toxicity in blood-feeding arthropods. <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 322-35	4.5	246
57	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	24.6	217
56	Mitochondrial bound hexokinase activity as a preventive antioxidant defense: steady-state ADP formation as a regulatory mechanism of membrane potential and reactive oxygen species generation in mitochondria. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39846-55	5.4	204
55	Mitochondrial creatine kinase activity prevents reactive oxygen species generation: antioxidant role of mitochondrial kinase-dependent ADP re-cycling activity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 37361-71	5.4	138
54	Bioenergetic failure of human peripheral blood monocytes in patients with septic shock is mediated by reduced F1Fo adenosine-5-triphosphatase activity. <i>Critical Care Medicine</i> , 2011 , 39, 1056-63	1.4	117
53	Haem detoxification by an insect. <i>Nature</i> , 1999 , 400, 517-8	50.4	109
52	Sepsis induces brain mitochondrial dysfunction. <i>Critical Care Medicine</i> , 2008 , 36, 1925-32	1.4	104
51	Haemozoin in <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , 2000 , 111, 217-21	1.9	98
50	Structural and morphological characterization of hemozoin produced by <i>Schistosoma mansoni</i> and <i>Rhodnius prolixus</i> . <i>FEBS Letters</i> , 2005 , 579, 6010-6	3.8	96
49	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, 644-53	7.8	82
48	Inhibition of heme aggregation by chloroquine reduces <i>Schistosoma mansoni</i> infection. <i>Journal of Infectious Diseases</i> , 2004 , 190, 843-52	7	65
47	Interference with hemozoin formation represents an important mechanism of schistosomicidal action of antimalarial quinoline methanols. <i>PLoS Neglected Tropical Diseases</i> , 2009 , 3, e477	4.8	64
46	Mfn2 deletion in brown adipose tissue protects from insulin resistance and impairs thermogenesis. <i>EMBO Reports</i> , 2017 , 18, 1123-1138	6.5	63
45	Sepsis-associated encephalopathy: a magnetic resonance imaging and spectroscopy study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 440-8	7.3	63
44	Haemozoin formation in the midgut of the blood-sucking insect <i>Rhodnius prolixus</i> . <i>FEBS Letters</i> , 2000 , 477, 95-8	3.8	61
43	Reactive oxygen species generation is modulated by mitochondrial kinases: correlation with mitochondrial antioxidant peroxidases in rat tissues. <i>Biochimie</i> , 2008 , 90, 1566-77	4.6	57

42	Nandrolone decanoate impairs exercise-induced cardioprotection: role of antioxidant enzymes. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2006 , 99, 223-30	5.1	47
41	Is "Preparation for Oxidative Stress" a Case of Physiological Conditioning Hormesis?. <i>Frontiers in Physiology</i> , 2018 , 9, 945	4.6	44
40	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, 651-61	3.7	43
39	On the pro-oxidant effects of haemozoin. <i>FEBS Letters</i> , 2002 , 512, 139-44	3.8	43
38	On the fate of extracellular hemoglobin and heme in brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1109-20	7.3	42
37	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood fluke <i>Schistosoma mansoni</i> . <i>FEBS Letters</i> , 2007 , 581, 1742-50	3.8	40
36	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	2.9	39
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	3.7	38
34	Molecular, Cellular and Clinical Aspects of Intracerebral Hemorrhage: Are the Enemies Within?. <i>Current Neuropharmacology</i> , 2016 , 14, 392-402	7.6	36
33	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	3.7	33
32	Vampires, Pasteur and reactive oxygen species. Is the switch from aerobic to anaerobic metabolism a preventive antioxidant defence in blood-feeding parasites?. <i>FEBS Letters</i> , 2002 , 525, 3-6	3.8	32
31	Current Trends and Research Challenges Regarding "Preparation for Oxidative Stress". <i>Frontiers in Physiology</i> , 2017 , 8, 702	4.6	31
30	Blood-feeding induces reversible functional changes in flight muscle mitochondria of <i>Aedes aegypti</i> mosquito. <i>PLoS ONE</i> , 2009 , 4, e7854	3.7	28
29	Mitochondrial reactive oxygen species modulate mosquito susceptibility to <i>Plasmodium</i> infection. <i>PLoS ONE</i> , 2012 , 7, e41083	3.7	27
28	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, 29323-32	5.4	26
27	Energy metabolism affects susceptibility of <i>Anopheles gambiae</i> mosquitoes to <i>Plasmodium</i> infection. <i>Insect Biochemistry and Molecular Biology</i> , 2011 , 41, 349-55	4.5	22
26	Perimicrovillar membranes promote hemozoin formation into <i>Rhodnius prolixus</i> midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2007 , 37, 523-31	4.5	22
25	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	7.8	21

24	Heme modulates <i>Trypanosoma cruzi</i> bioenergetics inducing mitochondrial ROS production. <i>Free Radical Biology and Medicine</i> , 2017 , 108, 183-191	7.8	20
23	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, 267-72	5.1	20
22	On the mechanisms involved in biological heme crystallization. <i>Journal of Bioenergetics and Biomembranes</i> , 2011 , 43, 93-9	3.7	18
21	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, 284-92	4.5	18
20	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	3.7	16
19	Heme crystallization in the midgut of triatomine insects. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007 , 146, 168-174	3.2	16
18	Emerging roles of cell mitochondria in type-2-diabetes. <i>Molecular Aspects of Medicine</i> , 2020 , 71, 100843	16.7	15
17	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	1.2	14
16	Amino acids trigger down-regulation of superoxide via TORC pathway in the midgut of <i>Rhodnius prolixus</i> . <i>Bioscience Reports</i> , 2016 , 36,	4.1	14
15	NCLX prevents cell death during adrenergic activation of the brown adipose tissue. <i>Nature Communications</i> , 2020 , 11, 3347	17.4	13
14	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	3.7	11
13	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	4.8	9
12	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. <i>EMBO Reports</i> , 2020 , 21, e49634	6.5	9
11	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	3.1	7
10	Detergent-Mediated Formation of 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	3.5	7
9	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	3.7	5
8	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	4.5	4
7	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	4.5	3

6	Blocking mitochondrial pyruvate import causes energy wasting via futile lipid cycling in brown fat		2
5	NCLX prevents cell death during adrenergic activation of the brown adipose tissue		1
4	Assessment of mitochondrial physiology of murine white adipose tissue by mechanical permeabilization and lipid depletion. <i>Analytical Biochemistry</i> , 2020 , 611, 113935	3.1	1
3	A simple and reliable method for longitudinal assessment of untethered mosquito induced flight activity. <i>Journal of Insect Physiology</i> , 2020 , 126, 104098	2.4	0
2	Mechanical Permeabilization as a New Method for Assessment of Mitochondrial Function in Insect Tissues. <i>Methods in Molecular Biology</i> , 2021 , 2276, 67-85	1.4	0
1	<i>Aedes aegypti</i> post-emergence transcriptome: Unveiling the molecular basis for the hematophagic and gonotrophic capacitation. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0008915	4.8	0