Pedro L Oliveira

List of Publications by Year in descending order

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123 papers	6,587 citations	50276 46 h-index	74163 75 g-index
131 all docs	131 docs citations	131 times ranked	5401 citing authors

#	Article	IF	Citations
1	On the use of inhibitors of 4â€hydroxyphenylpyruvate dioxygenase as a vectorâ€selective insecticide in the control of mosquitoes. Pest Management Science, 2022, 78, 692-702.	3.4	8
2	Beyond the eye: Kynurenine pathway impairment causes midgut homeostasis dysfunction and survival and reproductive costs in blood-feeding mosquitoes. Insect Biochemistry and Molecular Biology, 2022, 142, 103720.	2.7	15
3	Atypical strategies for cuticle pigmentation in the blood-feeding hemipteran Rhodnius prolixus. Genetics, 2022, 221, .	2.9	5
4	Coxiella Endosymbiont of Rhipicephalus microplus Modulates Tick Physiology With a Major Impact in Blood Feeding Capacity. Frontiers in Microbiology, 2022, 13, 868575.	3.5	10
5	An insight into the functional role of antioxidant and detoxification enzymes in adult Rhipicephalus microplus female ticks. Parasitology International, 2021, 81, 102274.	1.3	7
6	Repurposing the orphan drug nitisinone to control the transmission of African trypanosomiasis. PLoS Biology, 2021, 19, e3000796.	5.6	12
7	Blood Digestion in Triatomine Insects. True Bugs (Heteroptera) of the Neotropics, 2021, , 265-284.	1.2	3
8	Rhodnius prolixus uses the peptidoglycan recognition receptor rpPGRP-LC/LA to detect Gram-negative bacteria and activate the IMD pathway. Current Research in Insect Science, 2021, 1, 100006.	1.7	11
9	â€œUrate and NOX5 Control Blood Digestion in the Hematophagous Insect Rhodnius prolixusâ€. Frontiers in Physiology, 2021, 12, 633093.	2.8	9
10	Non-immune Traits Triggered by Blood Intake Impact Vectorial Competence. Frontiers in Physiology, 2021, 12, 638033.	2.8	6
11	A physiologic overview of the organ-specific transcriptome of the cattle tick Rhipicephalus microplus. Scientific Reports, 2020, 10, 18296.	3.3	23
12	Non-canonical transcriptional regulation of heme oxygenase in Aedes aegypti. Scientific Reports, 2019, 9, 13726.	3.3	24
13	The relationship between oxidant levels and gut physiology in a litter-feeding termite. Scientific Reports, 2019, 9, 670.	3.3	5
14	Haem Biology in Metazoan Parasites â€“ â€˜The Bright Side of Haemâ€™. Trends in Parasitology, 2019, 35, 213-225.	3.3	17
15	DOPA decarboxylase is essential for cuticle tanning in Rhodnius prolixus (Hemiptera: Reduviidae), affecting ecdysis, survival and reproduction. Insect Biochemistry and Molecular Biology, 2019, 108, 24-31.	2.7	28
16	Rhodnius prolixus: Identification of missing components of the IMD immune signaling pathway and functional characterization of its role in eliminating bacteria. PLoS ONE, 2019, 14, e0214794.	2.5	37
17	The redox-sensing gene Nrf2 affects intestinal homeostasis, insecticide resistance, and Zika virus susceptibility in the mosquito Aedes aegypti. Journal of Biological Chemistry, 2018, 293, 9053-9063.	3.4	38
18	Editorial overview: Molecular physiology: from omics data encyclopedia to physiology â€˜short storiesâ€™. Current Opinion in Insect Science, 2018, 29, vi-viii.	4.4	0

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19	Regulation of midgut cell proliferation impacts Aedes aegypti susceptibility to dengue virus. PLoS Neglected Tropical Diseases, 2018, 12, e0006498.	3.0	53
20	Silencing of Iron and Heme-Related Genes Revealed a Paramount Role of Iron in the Physiology of the Hematophagous Vector Rhodnius prolixus. Frontiers in Genetics, 2018, 9, 19.	2.3	18
21	Transcriptomic analyses uncover emerging roles of mucins, lysosome/secretory addressing and detoxification pathways in insect midguts. Current Opinion in Insect Science, 2018, 29, 34-40.	4.4	30
22	Developmental roles of tyrosine metabolism enzymes in the blood-sucking insect Rhodnius prolixus. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162607.	2.6	28
23	The Dose Makes the Poison: Nutritional Overload Determines the Life Traits of Blood-Feeding Arthropods. Trends in Parasitology, 2017, 33, 633-644.	3.3	79
24	A Coxiella mutualist symbiont is essential to the development of Rhipicephalus microplus. Scientific Reports, 2017, 7, 17554.	3.3	110
25	Evolutionary origin and function of NOX4-art, an arthropod specific NADPH oxidase. BMC Evolutionary Biology, 2017, 17, 92.	3.2	14
26	Microbiota activates IMD pathway and limits Sindbis infection in Aedes aegypti. Parasites and Vectors, 2017, 10, 103.	2.5	71
27	Immune-related redox metabolism of embryonic cells of the tick Rhipicephalus microplus (BME26) in response to infection with Anaplasma marginale. Parasites and Vectors, 2017, 10, 613.	2.5	26
28	Catalase protects Aedes aegypti from oxidative stress and increases midgut infection prevalence of Dengue but not Zika. PLoS Neglected Tropical Diseases, 2017, 11, e0005525.	3.0	58
29	Polyphenol-Rich Diets Exacerbate AMPK-Mediated Autophagy, Decreasing Proliferation of Mosquito Midgut Microbiota, and Extending Vector Lifespan. PLoS Neglected Tropical Diseases, 2016, 10, e0005034.	3.0	15
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	Tyrosine Detoxification Is an Essential Trait in the Life History of Blood-Feeding Arthropods. Current Biology, 2016, 26, 2188-2193.	3.9	61
32	Identification of a selenium-dependent glutathione peroxidase in the blood-sucking insect Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2016, 69, 105-114.	2.7	15
33	Experimental Infection of Rhodnius prolixus (Hemiptera, Triatominae) with Mycobacterium leprae Indicates Potential for Leprosy Transmission. PLoS ONE, 2016, 11, e0156037.	2.5	23
34	Monitoring of the Parasite Load in the Digestive Tract of Rhodnius prolixus by Combined qPCR Analysis and Imaging Techniques Provides New Insights into the Trypanosome Life Cycle. PLoS Neglected Tropical Diseases, 2015, 9, e0004186.	3.0	60
35	ATP Binding Cassette Transporter Mediates Both Heme and Pesticide Detoxification in Tick Midgut Cells. PLoS ONE, 2015, 10, e0134779.	2.5	50
36	Heme Signaling Impacts Global Gene Expression, Immunity and Dengue Virus Infectivity in Aedes aegypti. PLoS ONE, 2015, 10, e0135985.	2.5	60

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37	Genome of Rhodnius prolixus , an insect vector of Chagas disease, reveals unique adaptations to hematophagy and parasite infection. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14936-14941.	7.1	329
38	The use of a chemically defined artificial diet as a tool to study Aedes aegypti physiology. Journal of Insect Physiology, 2015, 83, 1-7.	2.0	35
39	Genetically Modifying the Insect Gut Microbiota to Control Chagas Disease Vectors through Systemic RNAi. PLoS Neglected Tropical Diseases, 2015, 9, e0003358.	3.0	91
40	Allosteric regulation of the Plasmodium falciparum cysteine protease falcipain-2 by heme. Archives of Biochemistry and Biophysics, 2015, 573, 92-99.	3.0	13
41	Functional studies of TcRjl, a novel GTPase of Trypanosoma cruzi , reveals phenotypes related with MAPK activation during parasite differentiation and after heterologous expression in Drosophila model system. Biochemical and Biophysical Research Communications, 2015, 467, 115-120.	2.1	7
42	An Insight into the Transcriptome of the Digestive Tract of the Bloodsucking Bug, Rhodnius prolixus. PLoS Neglected Tropical Diseases, 2014, 8, e2594.	3.0	184
43	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
44	Tick Heme-Binding Aspartic Proteinase. , 2013, , 108-109.		0
45	Ovarian Dual Oxidase (Duox) Activity Is Essential for Insect Eggshell Hardening and Waterproofing. Journal of Biological Chemistry, 2013, 288, 35058-35067.	3.4	34
46	The Role of Reactive Oxygen Species in Anopheles aquasalis Response to Plasmodium vivax Infection. PLoS ONE, 2013, 8, e57014.	2.5	68
47	Foreword. Memorias Do Instituto Oswaldo Cruz, 2013, 108, 1-1.	1.6	5
48	Multi-antigenic vaccine against the cattle tick Rhipicephalus (Boophilus) microplus: A field evaluation. Vaccine, 2012, 30, 6912-6917.	3.8	56
49	Rhipicephalus (Boophilus) microplus embryo proteins as target for tick vaccine. Veterinary Immunology and Immunopathology, 2012, 148, 149-156.	1.2	40
50	OKB, a novel family of brain-gut neuropeptides from insects. Insect Biochemistry and Molecular Biology, 2012, 42, 466-473.	2.7	56
51	The Antioxidant Role of Xanthurenic Acid in the Aedes aegypti Midgut during Digestion of a Blood Meal. PLoS ONE, 2012, 7, e38349.	2.5	51
52	Mitochondrial Reactive Oxygen Species Modulate Mosquito Susceptibility to Plasmodium Infection. PLoS ONE, 2012, 7, e41083.	2.5	35
53	Energy metabolism affects susceptibility of Anopheles gambiae mosquitoes to Plasmodium infection. Insect Biochemistry and Molecular Biology, 2011, 41, 349-355.	2.7	25
54	Transcriptome and gene expression profile of ovarian follicle tissue of the triatomine bug Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2011, 41, 823-831.	2.7	49

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55	Blood Meal-Derived Heme Decreases ROS Levels in the Midgut of Aedes aegypti and Allows Proliferation of Intestinal Microbiota. PLoS Pathogens, 2011, 7, e1001320.	4.7	272
56	Heme-Oxygenases during Erythropoiesis in K562 and Human Bone Marrow Cells. PLoS ONE, 2011, 6, e21358.	2.5	21
57	Antioxidant pathways are up-regulated during biological nitrogen fixation to prevent ROS-induced nitrogenase inhibition in Gluconacetobacter diazotrophicus. Archives of Microbiology, 2010, 192, 835-841.	2.2	37
58	In vivouptake of a haem analogue Zn protoporphyrin IX by the human malaria parasiteP. falciparum-infected red blood cells. Cell Biology International, 2010, 34, 859-865.	3.0	13
59	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
60	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
61	Blood-Feeding Induces Reversible Functional Changes in Flight Muscle Mitochondria of Aedes aegypti Mosquito. PLoS ONE, 2009, 4, e7854.	2.5	36
62	Trypanosoma brucei brucei: Effects of ferrous iron and heme on ecto-nucleoside triphosphate diphosphohydrolase activity. Experimental Parasitology, 2009, 121, 137-143.	1.2	10
63	On the Fate of Extracellular Hemoglobin and Heme in Brain. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1109-1120.	4.3	48
64	BYC, an atypical aspartic endopeptidase from Rhipicephalus (Boophilus) microplus eggs. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 149, 599-607.	1.6	22
65	An extraovarian aspartic protease accumulated in tick oocytes with vitellin-degradation activity. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 151, 392-399.	1.6	37
66	Characterization of Heme as Activator of Toll-like Receptor 4. Journal of Biological Chemistry, 2007, 282, 20221-20229.	3.4	479
67	Heme requirement and intracellular trafficking in Trypanosoma cruzi epimastigotes. Biochemical and Biophysical Research Communications, 2007, 355, 16-22.	2.1	64
68	Heme crystallization in the midgut of triatomine insects. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 146, 168-174.	2.6	20
69	Perimicrovillar membranes promote hemozoin formation into Rhodnius prolixus midgut. Insect Biochemistry and Molecular Biology, 2007, 37, 523-531.	2.7	23
70	Extracellular lipid droplets promote hemozoin crystallization in the gut of the blood flukeSchistosoma mansoni. FEBS Letters, 2007, 581, 1742-1750.	2.8	48
71	Biglutaminyl-Biliverdin IX Alpha as a Heme Degradation Product in the Dengue Fever Insect-VectorAedes aegyptiâ€. Biochemistry, 2007, 46, 6822-6829.	2.5	32
72	Oxidative stress impairs heme detoxification in the midgut of the cattle tick, Rhipicephalus (Boophilus) microplus. Molecular and Biochemical Parasitology, 2007, 151, 81-88.	1.1	49

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73	Identification of theAedesaegyptiPeritrophic Matrix Protein AeIMUCI as a Heme-Binding Proteinâ€. Biochemistry, 2006, 45, 9540-9549.	2.5	92
74	Adaptations against heme toxicity in blood-feeding arthropods. Insect Biochemistry and Molecular Biology, 2006, 36, 322-335.	2.7	336
75	Vaccination of bovines with recombinant Boophilus Yolk pro-Cathepsin. Veterinary Immunology and Immunopathology, 2006, 114, 341-345.	1.2	49
76	Purification and antigenicity of two recombinant forms of Boophilus microplus yolk pro-cathepsin expressed in inclusion bodies. Protein Expression and Purification, 2006, 45, 107-114.	1.3	14
77	A heme-degradation pathway in a blood-sucking insect. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8030-8035.	7.1	88
78	Tracing heme in a living cell: hemoglobin degradation and heme traffic in digest cells of the cattle tick Boophilus microplus. Journal of Experimental Biology, 2005, 208, 3093-3101.	1.7	128
79	Structural and morphological characterization of hemozoin produced bySchistosoma mansoniandRhodnius prolixus. FEBS Letters, 2005, 579, 6010-6016.	2.8	112
80	Inhibition of Heme Aggregation by Chloroquine ReducesSchistosoma mansoniInfection. Journal of Infectious Diseases, 2004, 190, 843-852.	4.0	72
81	A comparative study of patenting activity in U.S. and Brazilian scientific institutions. Scientometrics, 2004, 61, 323-338.	3.0	38
82	Crystallization and preliminary X-ray diffraction analysis of HeLp, a heme lipoprotein from the hemolymph of the cattle tickBoophilus microplus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1639-1640.	2.5	1
83	HeLp, a heme-transporting lipoprotein with an antioxidant role. Insect Biochemistry and Molecular Biology, 2004, 34, 81-87.	2.7	34
84	Proteolytic activity of Boophilus microplus Yolk pro-Cathepsin D (BYC) is coincident with cortical acidification during embryogenesis. Insect Biochemistry and Molecular Biology, 2004, 34, 443-449.	2.7	46
85	Tick heme-binding aspartic proteinase. , 2004, , 76-77.		0
86	Heparan sulfate glycosaminoglycan expression in the intestinal tract and ovary of fully engorged adult females of the cattle tick Boophilus microplus and in their laid eggs. Molecular and Biochemical Parasitology, 2003, 130, 163-166.	1.1	6
87	Changes in salivary nitrophorin profile during the life cycle of the blood-sucking bug Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2003, 33, 23-28.	2.7	33
88	A new intracellular pathway of haem detoxification in the midgut of the cattle tick Boophilus microplus: aggregation inside a specialized organelle, the hemosome. Journal of Experimental Biology, 2003, 206, 1707-1715.	1.7	107
89	Neutrophil activation by heme: implications for inflammatory processes. Blood, 2002, 99, 4160-4165.	1.4	258
90	On the pro-oxidant effects of haemozoin. FEBS Letters, 2002, 512, 139-144.	2.8	50

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91	Vampires, Pasteur and reactive oxygen species. FEBS Letters, 2002, 525, 3-6.	2.8	37
92	Aedes aegypti peritrophic matrix and its interaction with heme during blood digestion. Insect Biochemistry and Molecular Biology, 2002, 32, 517-523.	2.7	101
93	Rhodnius heme-binding protein (RHBP) is a heme source for embryonic development in the blood-sucking bug Rhodnius prolixus (Hemiptera, Reduviidae). Insect Biochemistry and Molecular Biology, 2002, 32, 361-367.	2.7	16
94	Cyclic nucleotide-independent phosphorylation of Vitellin by casein kinase II purified from Rhodnius prolixus oocytes. Insect Biochemistry and Molecular Biology, 2002, 32, 847-857.	2.7	11
95	On the biosynthesis of Rhodnius prolixus heme-binding protein. Insect Biochemistry and Molecular Biology, 2002, 32, 1533-1541.	2.7	26
96	Heme biosynthesis and oogenesis in the blood-sucking bug, Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2001, 31, 359-364.	2.7	28
97	The Brazilian investment in science and technology. Brazilian Journal of Medical and Biological Research, 2001, 34, 1521-1530.	1.5	16
98	Crystallization and preliminary X-ray study of haem-binding protein from the bloodsucking insectRhodnius prolixus. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 860-861.	2.5	1
99	Hydrogen peroxide detoxification in the midgut of the blood-sucking insect,Rhodnius prolixus. Archives of Insect Biochemistry and Physiology, 2001, 48, 63-71.	1.5	93
100	Production of Reactive Oxygen Species by Hemocytes from the Cattle Tick Boophilus microplus. Experimental Parasitology, 2001, 99, 66-72.	1.2	79
101	Haemozoin in Schistosoma mansoni. Molecular and Biochemical Parasitology, 2000, 111, 217-221.	1.1	115
102	A Heme-binding Aspartic Proteinase from the Eggs of the Hard TickBoophilus microplus. Journal of Biological Chemistry, 2000, 275, 28659-28665.	3.4	66
103	HeLp, a Heme Lipoprotein from the Hemolymph of the Cattle Tick,Boophilus microplus. Journal of Biological Chemistry, 2000, 275, 36584-36589.	3.4	97
104	Haemozoin formation in the midgut of the blood-sucking insectRhodnius prolixus. FEBS Letters, 2000, 477, 95-98.	2.8	71
105	Urate Synthesis in the Blood-sucking Insect Rhodnius prolixus. Journal of Biological Chemistry, 1999, 274, 9673-9676.	3.4	20
106	Haem detoxification by an insect. Nature, 1999, 400, 517-518.	27.8	120
107	A missing metabolic pathway in the cattle tick Boophilus microplus. Current Biology, 1999, 9, 703-706.	3.9	103
108	Extracellular glutathione peroxidase from the blood-sucking bug,Rhodnius prolixus. , 1999, 41, 171-177.		12

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109	Uptake ofRhodnius heme-binding protein (RHBP) by the ovary ofRhodnius prolixus. Archives of Insect Biochemistry and Physiology, 1998, 39, 133-143.	1.5	37
110	Immunization of bovines with an aspartic proteinase precursor isolated from Boophilus microplus eggs. Veterinary Immunology and Immunopathology, 1998, 66, 331-341.	1.2	66
111	Isolation of an aspartic proteinase precursor from the egg of a hard tick, Boophilus microplus. Parasitology, 1998, 116, 525-532.	1.5	69
112	Uptake of Rhodnius hemeâ€binding protein (RHBP) by the ovary of Rhodnius prolixus. Archives of Insect Biochemistry and Physiology, 1998, 39, 133-143.	1.5	2
113	Role of Phospholipids in the Protein Stability of an Insect Lipoprotein, Lipophorin from Rhodnius prolixus. Biochemistry, 1997, 36, 11216-11222.	2.5	6
114	Urate Protects a Blood-Sucking Insect Against Hemin-Induced Oxidative Stress. Free Radical Biology and Medicine, 1997, 22, 209-214.	2.9	61
115	A Heme-binding Protein from Hemolymph and Oocytes of the Blood-sucking Insect, Rhodnius prolixus. Journal of Biological Chemistry, 1995, 270, 10897-10901.	3.4	82
116	Antioxidant Role of Rhodnius prolixus Heme-binding Protein. Journal of Biological Chemistry, 1995, 270, 10893-10896.	3.4	94
117	Protein phosphorylation in Rhodnius prolixus oocytes: Identification of a type II casein kinase. Insect Biochemistry and Molecular Biology, 1993, 23, 815-823.	2.7	9
118	Identification of yolk platelet-associated hydrolases in the oocytes ofRhodnius prolixus. Archives of Insect Biochemistry and Physiology, 1992, 21, 253-262.	1.5	38
119	Lipophorin from Rhodnius prolixus: Purification and partial characterization. Insect Biochemistry, 1989, 19, 153-161.	1.8	38
120	Lipophorin and oÃ¶genesis in Rhodnius prolixus: Transfer of phospholipids. Journal of Insect Physiology, 1989, 35, 19-27.	2.0	62
121	The roles of haemolymphatic lipoproteins in the oogenesis of Rhodnius prolixus. Memorias Do Instituto Oswaldo Cruz, 1987, 82, 89-92.	1.6	6
122	Uptake of yolk proteins in Rhodnius prolixus. Journal of Insect Physiology, 1986, 32, 859-866.	2.0	69
123	Characterization of vitellin and vitellogenin from Rhodnius prolixus. Insect Biochemistry, 1985, 15, 543-550.	1.8	58