CÃ©lia Regina da Silva Garcia

List of Publications by Year
in descending order

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110 papers	3,193 citations	117453 34 h-index	197535 49 g-index
115 all docs	115 docs citations	115 times ranked	3041 citing authors

#	Article	IF	Citations
1	Calcium-dependent modulation by melatonin of the circadian rhythm in malarial parasites.. Nature Cell Biology, 2000, 2, 466-468.	4.6	178
2	Calcium signaling in a low calcium environment. Journal of Cell Biology, 2003, 161, 103-110.	2.3	133
3	Cyclic AMP and calcium interplay as second messengers in melatonin-dependent regulation of Plasmodium falciparum cell cycle. Journal of Cell Biology, 2005, 170, 551-557.	2.3	119
4	Melatonin and IP3-induced Ca2+ Release from Intracellular Stores in the Malaria Parasite Plasmodium falciparum within Infected Red Blood Cells. Journal of Biological Chemistry, 2011, 286, 5905-5912.	1.6	97
5	Sequence and domain organization of scruin, an actin-cross-linking protein in the acrosomal process of Limulus sperm.. Journal of Cell Biology, 1995, 128, 51-60.	2.3	73
6	Inositol 1,4,5-Trisphosphate Induced Ca2+Release from Chloroquine-Sensitive and -Insensitive Intracellular Stores in the Intraerythrocytic Stage of the Malaria ParasiteP. chabaudi. Biochemical and Biophysical Research Communications, 1998, 245, 155-160.	1.0	71
7	Addition of thiols to o-quinone methide: New 2-hydroxy-3-phenylsulfanylmethyl[1,4]naphthoquinones and their activity against the human malaria parasite Plasmodium falciparum (3D7). European Journal of Medicinal Chemistry, 2013, 59, 48-53.	2.6	71
8	Plasmodium falciparum malaria parasites display a THG-sensitive Ca2+ pool. Cell Calcium, 2003, 33, 137-144.	1.1	64
9	Calcium Signaling throughout the Toxoplasma gondii Lytic Cycle. Journal of Biological Chemistry, 2015, 290, 26914-26926.	1.6	63
10	Calcium Homeostasis and Signaling in the Blood-stage Malaria Parasite. Parasitology Today, 1999, 15, 488-491.	3.1	62
11	Tertian and Quartan Fevers: Temporal Regulation in Malarial Infection. Journal of Biological Rhythms, 2001, 16, 436-443.	1.4	62
12	The malaria parasite mitochondrion senses cytosolic Ca2+ fluctuations. Biochemical and Biophysical Research Communications, 2004, 321, 138-144.	1.0	62
13	Plasmodium in the Postgenomic Era: New Insights into the Molecular Cell Biology of Malaria Parasites. International Review of Cell and Molecular Biology, 2008, 266, 85-156.	1.6	62
14	Synthesis and Antiplasmodial Activity of Betulinic Acid and Ursolic Acid Analogues. Molecules, 2012, 17, 12003-12014.	1.7	61
15	Products of tryptophan catabolism induce Ca2+ release and modulate the cell cycle of Plasmodium falciparum malaria parasites. Journal of Pineal Research, 2005, 39, 224-230.	3.4	59
16	Acidic calcium pools in intraerythrocytic malaria parasites. European Journal of Cell Biology, 1998, 76, 133-138.	1.6	57
17	The Structurally Related Auxin and Melatonin Tryptophanâ€Derivatives and their Roles in Arabidopsis thaliana and in the Human Malaria Parasite Plasmodium falciparum. Journal of Eukaryotic Microbiology, 2013, 60, 646-651.	0.8	54
18	Human malarial parasite, Plasmodium falciparum, displays capacitative calcium entry: 2-aminoethyl diphenylborinate blocks the signal transduction pathway of melatonin action on the P. falciparum cell cycle. Journal of Pineal Research, 2007, 43, 360-364.	3.4	53

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19	Regulation of multidrug resistance-associated protein 2 by calcium signaling in mouse liver. Hepatology, 2010, 52, 327-337.	3.6	53
20	Exposure of Plasmodium sporozoites to the intracellular concentration of potassium enhances infectivity and reduces cell passage activity. Molecular and Biochemical Parasitology, 2007, 156, 32-40.	0.5	52
21	Inhibition of invasion and intraerythrocytic development ofPlasmodium falciparum by kinase inhibitors. Experientia, 1996, 52, 621-623.	1.2	51
22	Purinergic signalling is involved in the malaria parasite Plasmodium falciparum invasion to red blood cells. Purinergic Signalling, 2010, 6, 365-372.	1.1	49
23	InsP3 Signaling in Apicomplexan Parasites. Current Topics in Medicinal Chemistry, 2017, 17, 2158-2165.	1.0	49
24	Synthetic indole and melatonin derivatives exhibit antimalarial activity on the cell cycle of the human malaria parasite Plasmodium falciparum. European Journal of Medicinal Chemistry, 2014, 78, 375-382.	2.6	48
25	Molecular machinery of signal transduction and cell cycle regulation in Plasmodium. Molecular and Biochemical Parasitology, 2009, 165, 1-7.	0.5	47
26	N1-acetyl-N2-formyl-5-methoxykynuramine modulates the cell cycle of malaria parasites. Journal of Pineal Research, 2007, 42, 261-266.	3.4	44
27	Genome-Wide Detection of Serpentine Receptor-Like Proteins in Malaria Parasites. PLoS ONE, 2008, 3, e1889.	1.1	43
28	Biological evaluation of hydroxynaphthoquinones as anti-malarials. Malaria Journal, 2013, 12, 234.	0.8	42
29	Targeting calcium homeostasis as the therapy of Chagas' disease and leishmaniasis - a review. Tropical Biomedicine, 2011, 28, 471-81.	0.2	42
30	Cysteine-protease activity elicited by Ca2+ stimulus in Plasmodium. Molecular and Biochemical Parasitology, 2005, 141, 71-79.	0.5	41
31	Involvement of TSSA (trypomastigote small surface antigen) in Trypanosoma cruzi invasion of mammalian cells. Biochemical Journal, 2012, 444, 211-218.	1.7	39
32	Ribifolin, an Orbitide from Jatropha ribifolia, and Its Potential Antimalarial Activity. Journal of Natural Products, 2015, 78, 374-380.	1.5	39
33	Discovery of Marinoquinolines as Potent and Fast-Acting Plasmodium falciparum Inhibitors with in Vivo Activity. Journal of Medicinal Chemistry, 2018, 61, 5547-5568.	2.9	39
34	Melatonin and N-acetyl-serotonin cross the red blood cell membrane and evoke calcium mobilization in malarial parasites. Brazilian Journal of Medical and Biological Research, 2003, 36, 1583-1587.	0.7	37
35	Tumor necrosis factor reduces Plasmodium falciparum growth and activates calcium signaling in human malaria parasites. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1489-1497.	1.1	37
36	Melatonin triggers PKA activation in the rodent malaria parasite Plasmodium chabaudi. Journal of Pineal Research, 2011, 50, 64-70.	3.4	35

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37	ImagingPlasmodium falciparum-Infected Ghost and Parasite by Atomic Force Microscopy. Journal of Structural Biology, 1997, 119, 92-98.	1.3	34
38	Ubiquitin proteasome system and the atypical kinase PfPK7 are involved in melatonin signaling in Plasmodium falciparum. Journal of Pineal Research, 2012, 53, 147-153.	3.4	34
39	Unlike the synchronous Plasmodium falciparum and P. chabaudi infection, the P. berghei and P. yoelii asynchronous infections are not affected by melatonin. International Journal of General Medicine, 2009, 2, 47.	0.8	30
40	Extracellular ATP triggers proteolysis and cytosolic Ca2+ rise in Plasmodium berghei and Plasmodium yoelii malaria parasites. Malaria Journal, 2012, 11, 69.	0.8	30
41	Two series of new semisynthetic triterpene derivatives: differences in anti-malarial activity, cytotoxicity and mechanism of action. Malaria Journal, 2013, 12, 89.	0.8	30
42	Human malaria parasites display a receptor for activated C kinase ortholog. Biochemical and Biophysical Research Communications, 2003, 306, 995-1001.	1.0	29
43	Porphyrin Derivative Nanoformulations for Therapy and Antiparasitic Agents. Molecules, 2020, 25, 2080.	1.7	28
44	Investigation of antimalarial activity, cytotoxicity and action mechanism of piperazine derivatives of betulinic acid. Tropical Medicine and International Health, 2015, 20, 29-39.	1.0	27
45	Flow cytometry as a tool for analyzing changes in Plasmodium falciparum cell cycle following treatment with indol compounds. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 959-964.	1.1	26
46	Hybrid Scaffolds Built From PET and Collagen as a Model For Vascular Graft Architecture. Macromolecular Bioscience, 2012, 12, 1660-1670.	2.1	26
47	Plasmodium falciparum GPCR-like receptor SR25 mediates extracellular K+ sensing coupled to Ca2+ signaling and stress survival. Scientific Reports, 2017, 7, 9545.	1.6	26
48	Melatonin activates <scp>FIS</scp>1, <scp>DYN</scp>1, and <scp>DYN</scp>2 Plasmodium falciparum relatedâ€genes for mitochondria fission: Mitoemeraldâ€<scp>GFP</scp> as a tool to visualize mitochondria structure. Journal of Pineal Research, 2019, 66, e12484.	3.4	25
49	Evidence for Regulation of Hemoglobin Metabolism and Intracellular Ionic Flux by the Plasmodium falciparum Chloroquine Resistance Transporter. Scientific Reports, 2018, 8, 13578.	1.6	24
50	Interruption of the blood-stage cycle of the malaria parasite, Plasmodium chabaudi, by protein tyrosine kinase inhibitors. Brazilian Journal of Medical and Biological Research, 2003, 36, 1465-1469.	0.7	23
51	Antimalarial drugs disrupt ion homeostasis in malarial parasites. Memorias Do Instituto Oswaldo Cruz, 2007, 102, 329-334.	0.8	23
52	The PfNFâ€YB transcription factor is a downstream target of melatonin and cAMP signalling in the human malaria parasite Plasmodium falciparum. Journal of Pineal Research, 2013, 54, 145-153.	3.4	23
53	Dissociation of F-actin induced by hydrostatic pressure. FEBS Journal, 1992, 209, 1005-1011.	0.2	21
54	Generation of second messengers in Plasmodium. Microbes and Infection, 2012, 14, 787-795.	1.0	21

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55	The plasmodium receptor for activated C kinase protein inhibits Ca2+ signaling in mammalian cells. Biochemical and Biophysical Research Communications, 2009, 389, 586-592.	1.0	19
56	Blocking IP 3 signal transduction pathways inhibits melatonin-induced Ca 2+ signals and impairs P. falciparum development and proliferation in erythrocytes. Cell Calcium, 2018, 72, 81-90.	1.1	19
57	Combination of Bioactive Polymeric Membranes and Stem Cells for Periodontal Regeneration: In Vitro and In Vivo Analyses. PLoS ONE, 2016, 11, e0152412.	1.1	19
58	The role of melatonin in parasite biology. Molecular and Biochemical Parasitology, 2012, 181, 1-6.	0.5	18
59	Encapsulation of metalloporphyrins improves their capacity to block the viability of the human malaria parasite Plasmodium falciparum. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 351-358.	1.7	17
60	Ghost protein damage by peroxynitrite and its protection by melatonin. Brazilian Journal of Medical and Biological Research, 2000, 33, 11-17.	0.7	16
61	Signal transduction in red bloodcells of the lizards Ameiva ameiva and Tupinambis merianae (Squamata, Teiidae). Cell Calcium, 2001, 29, 439-445.	1.1	16
62	New Molecular Targets and Strategies for Antimalarial Discovery. Current Medicinal Chemistry, 2019, 26, 4380-4402.	1.2	16
63	Signaling transcript profile of the asexual intraerythrocytic development cycle of Plasmodium falciparum induced by melatonin and cAMP. Genes and Cancer, 2016, 7, 323-339.	0.6	16
64	Melatonin-Induced Temporal Up-Regulation of Gene Expression Related to Ubiquitin/Proteasome System (UPS) in the Human Malaria Parasite Plasmodium falciparum. International Journal of Molecular Sciences, 2014, 15, 22320-22330.	1.8	15
65	Insights into cytochrome bc1 complex binding mode of antimalarial 2-hydroxy-1,4-naphthoquinones through molecular modelling. Memorias Do Instituto Oswaldo Cruz, 2017, 112, 299-308.	0.8	15
66	Release of Plasmodium sporozoites requires proteins with histone-fold dimerization domains. Nature Communications, 2016, 7, 13846.	5.8	14
67	Ubiquitin Proteasome System as a Potential Drug Target for Malaria. Current Topics in Medicinal Chemistry, 2018, 18, 315-320.	1.0	14
68	Plasmodium falciparum Knockout for the GPCR-Like PfSR25 Receptor Displays Greater Susceptibility to 1,2,3-Triazole Compounds That Block Malaria Parasite Development. Biomolecules, 2020, 10, 1197.	1.8	14
69	P2Y₁ Receptor Activation Enhances the Rate of Rat Pinealocyte-Induced Extracellular Acidification via a Calcium-Dependent Mechanism. Pharmacology, 2003, 69, 33-37.	0.9	13
70	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.	1.4	13
71	Melatonin Signaling and Its Modulation of PfNF-YB Transcription Factor Expression in Plasmodium falciparum. International Journal of Molecular Sciences, 2013, 14, 13704-13718.	1.8	13
72	Intracellular Ca2+ Signaling in Protozoan Parasites: An Overview with a Focus on Mitochondria. International Journal of Molecular Sciences, 2021, 22, 469.	1.8	13

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73	Desynchronizing Plasmodium Cell Cycle Increases Chloroquine Protection at Suboptimal Doses. The Open Parasitology Journal, 2008, 2, 55-58.	1.7	13
74	Antimalarials and the fight against malaria in Brazil. Therapeutics and Clinical Risk Management, 2009, 5, 311.	0.9	12
75	FRET peptides reveal differential proteolytic activation in intraerythrocytic stages of the malaria parasites Plasmodium berghei and Plasmodium yoelii. International Journal for Parasitology, 2011, 41, 363-372.	1.3	12
76	Biliverdin targets enolase and eukaryotic initiation factor 2 (eIF2Î±) to reduce the growth of intraerythrocytic development of the malaria parasite Plasmodium falciparum. Scientific Reports, 2016, 6, 22093.	1.6	12
77	Identification of Plasmodium berghei Oocyst Rupture Protein 2 (ORP2) domains involved in sporozoite egress from the oocyst. International Journal for Parasitology, 2018, 48, 1127-1136.	1.3	12
78	Characterization of Ca2 transport activity associated with a nonâ€mitochondrial calcium pool in the rodent malaria parasite P. chabaudi. IUBMB Life, 1997, 42, 919-925.	1.5	11
79	Calcium signaling in lizard red blood cells. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 779-787.	0.8	11
80	The genetic Ca2+ sensor GCaMP3 reveals multiple Ca2+ stores differentially coupled to Ca2+ entry in the human malaria parasite Plasmodium falciparum. Journal of Biological Chemistry, 2020, 295, 14998-15012.	1.6	11
81	Interaction of spin-labeled nucleotides with sarcoplasmic reticulum adenosine triphosphatase. Biochemistry, 1988, 27, 5923-5927.	1.2	10
82	An external sensing system in Plasmodium falciparum-infected erythrocytes. Malaria Journal, 2016, 15, 103.	0.8	10
83	A nuclear protein, PfMORC confers melatonin dependent synchrony of the human malaria parasite P. falciparum in the asexual stage. Scientific Reports, 2021, 11, 2057.	1.6	10
84	The Plasmodium falciparum eIK1 kinase (PfeIK1) is central for melatonin synchronization in the human malaria parasite. Melatotosil blocks melatonin action on parasite cell cycle. Journal of Pineal Research, 2020, 69, e12685.	3.4	9
85	Role of Melatonin in the Synchronization of Asexual Forms in the Parasite Plasmodium falciparum. Biomolecules, 2020, 10, 1243.	1.8	9
86	Red blood cells of the lizards Ameiva ameiva (Squamata, Teiidae) display multiple mechanisms to control cytosolic calcium. Cell Calcium, 2002, 31, 79-87.	1.1	8
87	Signal transduction in Plasmodium-Red Blood Cells interactions and in cytoadherence. Anais Da Academia Brasileira De Ciencias, 2012, 84, 555-572.	0.3	8
88	The Knockout for G Protein-Coupled Receptor-Like PfSR25 Increases the Susceptibility of Malaria Parasites to the Antimalarials Lumefantrine and Piperaquine but Not to Medicine for Malaria Venture Compounds. Frontiers in Microbiology, 2021, 12, 638869.	1.5	8
89	Genome-wide analysis of the human malaria parasitePlasmodium falciparumtranscription factor PfNF-YB shows interaction with a CCAAT motif. Oncotarget, 2017, 8, 113987-114001.	0.8	8
90	Activation of a P2Y4-like purinoceptor triggers an increase in cytosolic [Ca2+] in the red blood cells of the lizard Ameiva ameiva (Squamata, Teiidae). Brazilian Journal of Medical and Biological Research, 2005, 38, 5-10.	0.7	7

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91	The GCaMP3 â€“ A GFP-based calcium sensor for imaging calcium dynamics in the human malaria parasite Plasmodium falciparum. MethodsX, 2014, 1, 151-154.	0.7	7
92	Targeting Plasmodium falciparum protein kinases with adenosine analogueâ€“oligoarginine conjugates. Experimental Parasitology, 2014, 138, 55-62.	0.5	7
93	Strategies for Development of Antimalarials Based on Encapsulated Porphyrin Derivatives. Mini-Reviews in Medicinal Chemistry, 2015, 14, 1055-1071.	1.1	7
94	Plasmodium falciparum GFP-E-NTPDase expression at the intraerythrocytic stages and its inhibition blocks the development of the human malaria parasite. Purinergic Signalling, 2017, 13, 267-277.	1.1	6
95	Antimalarial Activity of Piperidine Alkaloids fromSenna spectabilisand Semisynthetic Derivatives. Journal of the Brazilian Chemical Society, 2014, , .	0.6	5
96	Probing the Nucleotide Binding Sites of Sarcoplasmic Reticulum Atpase by Photoaffinity Labeling. Biophysical Journal, 1986, 49, 108-109.	0.2	4
97	Growing Latin American Science. Science, 2012, 338, 1127-1127.	6.0	4
98	Melatonin action in Plasmodium infection: Searching for molecules that modulate the asexual cycle as a strategy to impair the parasite cycle. Journal of Pineal Research, 2021, 70, e12700.	3.4	4
99	Divergent calcium signaling in RBCs from Tropidurus torquatus (Squamata â€“ Tropiduridae) strengthen classification in lizard evolution. BMC Physiology, 2007, 7, 7.	3.6	3
100	Molecular basis of synchronous replication of malaria parasites in the blood stage. Current Opinion in Microbiology, 2021, 63, 210-215.	2.3	3
101	Evidences of G Coupled-Protein Receptor (GPCR) Signaling in the human Malaria Parasite Plasmodium falciparum for Sensing its Microenvironment and the Role of Purinergic Signaling in Malaria Parasites. Current Topics in Medicinal Chemistry, 2021, 21, 171-180.	1.0	3
102	Evidence of G-Protein-Coupled Receptors (GPCR) in the Parasitic Protozoa Plasmodium falciparumâ€”Sensing the Host Environment and Coupling within Its Molecular Signaling Toolkit. International Journal of Molecular Sciences, 2021, 22, 12381.	1.8	3
103	Decoding the Role of Melatonin Structure on Plasmodium falciparum Human Malaria Parasites Synchronization Using 2-Sulfenylindoles Derivatives. Biomolecules, 2022, 12, 638.	1.8	2
104	Employing Transgenic Parasite Strains to Study the Ca2+ Dynamics in the Human Malaria Parasite Plasmodium falciparum. Methods in Molecular Biology, 2019, 1925, 157-162.	0.4	1
105	Malaria parasites and circadian rhythm: New insights into an old puzzle. Current Research in Microbial Sciences, 2021, 2, 100017.	1.4	1
106	Molecular and cellular approaches to understanding pathogenâ€“host interactions in neglected diseases. Current Opinion in Microbiology, 2009, 12, 392-393.	2.3	0
107	REPLY to Nanomedicine: NMB, 2015; 11:1035. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1036-1037.	1.7	0
108	Receptors in Health and Diseases: Purinergic Signaling in Parasites. Current Topics in Medicinal Chemistry, 2021, 21, 169-170.	1.0	0

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109	Melatonin: Therapeutic Value and Neuroprotection in Stroke. , 2014, , 124-137.		0
110	Identifying Plasmodium falciparum receptor activation using bioluminescence resonance energy transfer (BRET)-based biosensors in HEK293 cells. Methods in Cell Biology, 2021, 166, 223-233.	0.5	0