

Roberto Docampo

List of Publications by Year in descending order

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228
papers

12,417
citations

17440

63
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36028

97
g-index

347
all docs

347
docs citations

347
times ranked

7715
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific chemotherapy of Chagas disease: controversies and advances. Trends in Parasitology, 2003, 19, 495-501.	3.3	487
2	Polyphosphate modulates blood coagulation and fibrinolysis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 903-908.	7.1	487
3	Acidocalcisomes ? conserved from bacteria to man. Nature Reviews Microbiology, 2005, 3, 251-261.	28.6	396
4	Human Platelet Dense Granules Contain Polyphosphate and Are Similar to Acidocalcisomes of Bacteria and Unicellular Eukaryotes. Journal of Biological Chemistry, 2004, 279, 44250-44257.	3.4	375
5	Bisphosphonates Inhibit the Growth of Trypanosoma brucei, Trypanosoma cruzi, Leishmania donovani, Toxoplasma gondii, and Plasmodium falciparum: A Potential Route to Chemotherapy. Journal of Medicinal Chemistry, 2001, 44, 909-916.	6.4	312
6	Acidic calcium stores open for business: expanding the potential for intracellular Ca ²⁺ signaling. Trends in Cell Biology, 2010, 20, 277-286.	7.9	233
7	Sensitivity of parasites to free radical damage by antiparasitic drugs. Chemico-Biological Interactions, 1990, 73, 1-27.	4.0	192
8	The Polyphosphate Bodies of Chlamydomonas reinhardtii Possess a Proton-pumping Pyrophosphatase and Are Similar to Acidocalcisomes. Journal of Biological Chemistry, 2001, 276, 46196-46203.	3.4	184
9	CRISPR/Cas9-Induced Disruption of Paraflagellar Rod Protein 1 and 2 Genes in Trypanosoma cruzi Reveals Their Role in Flagellar Attachment. MBio, 2015, 6, e01012.	4.1	172
10	Identification of Organelles in Bacteria Similar to Acidocalcisomes of Unicellular Eukaryotes. Journal of Biological Chemistry, 2003, 278, 29971-29978.	3.4	164
11	Design, Synthesis, and Biological Evaluation of Aryloxyethyl Thiocyanate Derivatives against Trypanosoma cruzi. Journal of Medicinal Chemistry, 2002, 45, 3984-3999.	6.4	145
12	Calcium regulation in protozoan parasites. Current Opinion in Microbiology, 2003, 6, 359-364.	5.1	140
13	Presence of a Plant-like Proton-pumping Pyrophosphatase in Acidocalcisomes of Trypanosoma cruzi. Journal of Biological Chemistry, 1998, 273, 22151-22158.	3.4	139
14	Acidocalcisomes. Cell Calcium, 2011, 50, 113-119.	2.4	137
15	Rapid Changes in Polyphosphate Content within Acidocalcisomes in Response to Cell Growth, Differentiation, and Environmental Stress in Trypanosoma cruzi. Journal of Biological Chemistry, 2001, 276, 26114-26121.	3.4	136
16	Trypanosoma cruzi Contains Major Pyrophosphate Stores, and Its Growth in Vitro and in Vivo Is Blocked by Pyrophosphate Analogs. Journal of Biological Chemistry, 1999, 274, 33609-33615.	3.4	134
17	Bisphosphonates Are Potent Inhibitors of Trypanosoma cruzi Farnesyl Pyrophosphate Synthase. Journal of Biological Chemistry, 2001, 276, 33930-33937.	3.4	134
18	Structure and mechanism of the farnesyl diphosphate synthase from Trypanosoma cruzi: Implications for drug design. Proteins: Structure, Function and Bioinformatics, 2005, 62, 80-88.	2.6	123

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19	Polyphosphate Is a Novel Pro-inflammatory Regulator of Mast Cells and Is Located in Acidocalcisomes. <i>Journal of Biological Chemistry</i> , 2012, 287, 28435-28444.	3.4	119
20	In Vivo Activities of Farnesyl Pyrophosphate Synthase Inhibitors against <i>Leishmania donovani</i> and <i>Toxoplasma gondii</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 929-931.	3.2	115
21	Acidocalcisomes and a vacuolar H ⁺ -pyrophosphatase in malaria parasites. <i>Biochemical Journal</i> , 2000, 347, 243-253.	3.7	111
22	Essential regulation of cell bioenergetics in <i>Trypanosoma brucei</i> by the mitochondrial calcium uniporter. <i>Nature Communications</i> , 2013, 4, 2865.	12.8	111
23	Acidocalcisomes and the Contractile Vacuole Complex Are Involved in Osmoregulation in <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 52270-52281.	3.4	104
24	A Functional Aquaporin Co-Localizes with the Vacuolar Proton Pyrophosphatase to Acidocalcisomes and the Contractile Vacuole Complex of <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 38673-38682.	3.4	103
25	Intracellular Ca ²⁺ Pool Content and Signaling and Expression of a Calcium Pump Are Linked to Virulence in <i>Leishmania mexicana amazonensis</i> Amastigotes. <i>Journal of Biological Chemistry</i> , 1997, 272, 9464-9473.	3.4	102
26	In Situ Compositional Analysis of Acidocalcisomes in <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 1997, 272, 28020-28029.	3.4	101
27	Current chemotherapy of human African trypanosomiasis. <i>Parasitology Research</i> , 2003, 90, S10-S13.	1.6	101
28	<i>Leishmania</i> salvage and remodelling of host sphingolipids in amastigote survival and acidocalcisome biogenesis. <i>Molecular Microbiology</i> , 2005, 55, 1566-1578.	2.5	101
29	Evolution of acidocalcisomes and their role in polyphosphate storage and osmoregulation in eukaryotic microbes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 775-784.	4.0	98
30	Ca ²⁺ Content and Expression of an Acidocalcisomal Calcium Pump Are Elevated in Intracellular Forms of <i>Trypanosoma cruzi</i> . <i>Molecular and Cellular Biology</i> , 1998, 18, 2309-2323.	2.3	97
31	A Vacuolar-type H ⁺ -Pyrophosphatase Governs Maintenance of Functional Acidocalcisomes and Growth of the Insect and Mammalian Forms of <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 37369-37376.	3.4	97
32	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	19.0	97
33	Characterization of a Vacuolar Pyrophosphatase in <i>Trypanosoma brucei</i> and Its Localization to Acidocalcisomes. <i>Molecular and Cellular Biology</i> , 1999, 19, 7712-7723.	2.3	95
34	Acidocalcisomes Are Functionally Linked to the Contractile Vacuole of <i>Dictyostelium discoideum</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 8146-8153.	3.4	89
35	Lipid peroxidation and the generation of free radicals, superoxide anion, and hydrogen peroxide in I ² -lapachone-treated <i>Trypanosoma cruzi</i> epimastigotes. <i>Archives of Biochemistry and Biophysics</i> , 1978, 186, 292-297.	3.0	88
36	Acidocalcisomes of <i>Trypanosoma brucei</i> have an inositol 1,4,5-trisphosphate receptor that is required for growth and infectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1887-1892.	7.1	87

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37	CRISPR/Cas9-mediated endogenous C-terminal Tagging of <i>Trypanosoma cruzi</i> Genes Reveals the Acidocalcisome Localization of the Inositol 1,4,5-Trisphosphate Receptor. <i>Journal of Biological Chemistry</i> , 2016, 291, 25505-25515.	3.4	87
38	The H ⁺ -pyrophosphatase of <i>Rhodospirillum rubrum</i> Is Predominantly Located in Polyphosphate-rich Acidocalcisomes. <i>Journal of Biological Chemistry</i> , 2004, 279, 51193-51202.	3.4	86
39	³¹ P NMR Spectroscopy of <i>Trypanosoma brucei</i> , <i>Trypanosoma cruzi</i> , and <i>Leishmania major</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 28356-28362.	3.4	85
40	Farnesyl Pyrophosphate Synthase Is an Essential Enzyme in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 17075-17083.	3.4	79
41	Polyphosphate and Its Diverse Functions in Host Cells and Pathogens. <i>PLoS Pathogens</i> , 2013, 9, e1003230.	4.7	79
42	Antiparasitic activity of risidronate in a murine model of acute Chagasâ€™ disease. <i>International Journal of Antimicrobial Agents</i> , 2004, 23, 286-290.	2.5	78
43	Different Roles of Mitochondrial Calcium Uniporter Complex Subunits in Growth and Infectivity of <i>Trypanosoma cruzi</i> . <i>MBio</i> , 2017, 8, .	4.1	78
44	Proteomic Analysis of the Acidocalcisome, an Organelle Conserved from Bacteria to Human Cells. <i>PLoS Pathogens</i> , 2014, 10, e1004555.	4.7	77
45	Biochemical and ultrastructural alterations produced by miconazole and econazole in <i>Trypanosoma cruzi</i> . <i>Molecular and Biochemical Parasitology</i> , 1981, 3, 169-180.	1.1	76
46	Presence of a vacuolar H ⁺ -pyrophosphatase in promastigotes of <i>Leishmania donovani</i> and its localization to a different compartment from the vacuolar H ⁺ -ATPase. <i>Biochemical Journal</i> , 1999, 340, 759-766.	3.7	76
47	A Novel Phosphatidylinositol-Phospholipase C of <i>Trypanosoma cruzi</i> That Is Lipid Modified and Activated during Trypomastigote to Amastigote Differentiation. <i>Journal of Biological Chemistry</i> , 2000, 275, 6428-6438.	3.4	76
48	Selective in vitro effects of the farnesyl pyrophosphate synthase inhibitor risidronate on <i>Trypanosoma cruzi</i> . <i>International Journal of Antimicrobial Agents</i> , 2004, 23, 273-285.	2.5	76
49	Design and Synthesis of Aryloxyethyl Thiocyanate Derivatives as Potent Inhibitors of <i>Trypanosoma cruzi</i> Proliferation. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 1826-1840.	6.4	74
50	A Pyrophosphatase Regulating Polyphosphate Metabolism in Acidocalcisomes Is Essential for <i>Trypanosoma brucei</i> Virulence in Mice. <i>Journal of Biological Chemistry</i> , 2004, 279, 3420-3425.	3.4	74
51	Bisphosphonates as Chemotherapeutic Agents Against Trypanosomatid and Apicomplexan Parasites.. <i>Current Drug Targets Infectious Disorders</i> , 2001, 1, 51-61.	2.1	72
52	Synthesis and biological evaluation of 1-amino-1,1-bisphosphonates derived from fatty acids against <i>Trypanosoma cruzi</i> targeting farnesyl pyrophosphate synthase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 4685-4690.	2.2	72
53	The Role of Acidocalcisomes in Parasitic Protists ¹ . <i>Journal of Eukaryotic Microbiology</i> , 2009, 56, 208-213.	1.7	72
54	<i>Trypanosoma cruzi</i> : Ultrastructural and metabolic alterations of epimastigotes by Î²-lapachone. <i>Experimental Parasitology</i> , 1977, 42, 142-149.	1.2	71

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55	Trypanosoma brucei Vacuolar Transporter Chaperone 4 (TbVtc4) Is an Acidocalcisome Polyphosphate Kinase Required for in Vivo Infection. Journal of Biological Chemistry, 2013, 288, 34205-34216.	3.4	71
56	A plant-like vacuolar H ⁺ -pyrophosphatase in Plasmodium falciparum. FEBS Letters, 1999, 460, 217-220.	2.8	70
57	Sodium-proton exchange stimulates Ca ²⁺ release from acidocalcisomes of Trypanosoma brucei. Biochemical Journal, 1996, 315, 265-270.	3.7	69
58	Acidocalcisomes of eukaryotes. Current Opinion in Cell Biology, 2016, 41, 66-72.	5.4	69
59	Identification of Contractile Vacuole Proteins in Trypanosoma cruzi. PLoS ONE, 2011, 6, e18013.	2.5	69
60	A contractile vacuole complex is involved in osmoregulation in Trypanosoma cruzi. Experimental Parasitology, 2008, 118, 17-24.	1.2	68
61	Characterization of Isolated Acidocalcisomes of Trypanosoma cruzi. Journal of Biological Chemistry, 2000, 275, 24215-24221.	3.4	66
62	The Streamlined Genome of Phytomonas spp. Relative to Human Pathogenic Kinetoplastids Reveals a Parasite Tailored for Plants. PLoS Genetics, 2014, 10, e1004007.	3.5	66
63	Calcium homeostasis in Trypanosoma cruzi amastigotes: presence of inositol phosphates and lack of an inositol 1,4,5-trisphosphate-sensitive calcium pool. Molecular and Biochemical Parasitology, 1992, 52, 251-261.	1.1	65
64	Bisphosphonates derived from fatty acids are potent inhibitors of Trypanosoma cruzi farnesyl pyrophosphate synthase. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 3231-3235.	2.2	65
65	The fine structure of acidocalcisomes in Trypanosoma cruzi. Parasitology Research, 2000, 86, 373-384.	1.6	64
66	Radical Cure of Experimental Cutaneous Leishmaniasis by the Bisphosphonate Pamidronate. Journal of Infectious Diseases, 2002, 186, 138-140.	4.0	64
67	Squalene Synthase As a Target for Chagas Disease Therapeutics. PLoS Pathogens, 2014, 10, e1004114.	4.7	64
68	Characteristics of Ca ²⁺ transport by Trypanosoma cruzi mitochondria in situ. Archives of Biochemistry and Biophysics, 1989, 272, 122-129.	3.0	63
69	Energization-dependent Ca ²⁺ accumulation in Trypanosoma brucei bloodstream and procyclic trypomastigotes mitochondria. Molecular and Biochemical Parasitology, 1992, 56, 251-257.	1.1	63
70	Calcium signaling in trypanosomatid parasites. Cell Calcium, 2015, 57, 194-202.	2.4	63
71	Polyphosphate and acidocalcisomes. Biochemical Society Transactions, 2016, 44, 1-6.	3.4	62
72	Proteomics in <i>Trypanosoma cruzi</i> – localization of novel proteins to various organelles. Proteomics, 2008, 8, 2735-2749.	2.2	60

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73	The Acidocalcisome as a Target for Chemotherapeutic Agents in Protozoan Parasites. <i>Current Pharmaceutical Design</i> , 2008, 14, 882-888.	1.9	60
74	Bisphosphonate Inhibition of the Exopolyphosphatase Activity of the <i>Trypanosoma brucei</i> Soluble Vacuolar Pyrophosphatase. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6128-6139.	6.4	59
75	Ablation of a small transmembrane protein of <i>Trypanosoma brucei</i> (TbVTC1) involved in the synthesis of polyphosphate alters acidocalcisome biogenesis and function, and leads to a cytokinesis defect. <i>Biochemical Journal</i> , 2007, 407, 161-170.	3.7	59
76	Risedronate metal complexes potentially active against Chagas disease. <i>Journal of Inorganic Biochemistry</i> , 2010, 104, 1252-1258.	3.5	58
77	New Insights into Roles of Acidocalcisomes and Contractile Vacuole Complex in Osmoregulation in Protists. <i>International Review of Cell and Molecular Biology</i> , 2013, 305, 69-113.	3.2	57
78	The Sterol Composition of <i>Trypanosoma cruzi</i> Changes After Growth in Different Culture Media and Results in Different Sensitivity to Digitonin-Permeabilization. <i>Journal of Eukaryotic Microbiology</i> , 2001, 48, 588-594.	1.7	56
79	<i>Trypanosoma brucei</i> Plasma Membrane-Type Ca ²⁺ -ATPase 1 (TbPMC1) and 2 (TbPMC2) Genes Encode Functional Ca ²⁺ -ATPases Localized to the Acidocalcisomes and Plasma Membrane, and Essential for Ca ²⁺ Homeostasis and Growth. <i>Journal of Biological Chemistry</i> , 2004, 279, 14427-14439.	3.4	56
80	Genome Editing by CRISPR/Cas9: A Game Change in the Genetic Manipulation of Protists. <i>Journal of Eukaryotic Microbiology</i> , 2016, 63, 679-690.	1.7	55
81	Subcellular localization of phosphoenolpyruvate carboxykinase in the trypanosomatids <i>Trypanosoma cruzi</i> and <i>Crithidia fasciculata</i> . <i>Molecular and Biochemical Parasitology</i> , 1982, 6, 151-160.	1.1	53
82	SQ109, a New Drug Lead for Chagas Disease. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1950-1961.	3.2	51
83	Cloning and functional expression of a gene encoding a vacuolar-type proton-translocating pyrophosphatase from <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 2000, 351, 281-288.	3.7	50
84	Effect of thapsigargin on calcium homeostasis in <i>Trypanosoma cruzi</i> trypomastigotes and epimastigotes. <i>Molecular and Biochemical Parasitology</i> , 1993, 59, 305-313.	1.1	49
85	Bisphosphonates derived from fatty acids are potent growth inhibitors of <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 789-792.	2.2	48
86	The Interplay between Folding-facilitating Mechanisms in <i>Trypanosoma cruzi</i> Endoplasmic Reticulum. <i>Molecular Biology of the Cell</i> , 2003, 14, 3529-3540.	2.1	48
87	Trypanosomes and the solution to a 50-year mitochondrial calcium mystery. <i>Trends in Parasitology</i> , 2012, 28, 31-37.	3.3	48
88	Structure-Activity Relationship of New Growth Inhibitors of <i>Trypanosoma cruzi</i> . <i>Journal of Medicinal Chemistry</i> , 1998, 41, 1540-1554.	6.4	47
89	Synthesis and biological evaluation of 2-alkylaminoethyl-1,1-bisphosphonic acids against <i>Trypanosoma cruzi</i> and <i>Toxoplasma gondii</i> targeting farnesyl diphosphate synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 3283-3290.	3.0	47
90	31P NMR of Apicomplexans and the Effects of Risedronate on <i>Cryptosporidium parvum</i> Growth. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 632-637.	2.1	46

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91	Design, synthesis and biological evaluation of sulfur-containing 1,1-bisphosphonic acids as antiparasitic agents. <i>European Journal of Medicinal Chemistry</i> , 2013, 60, 431-440.	5.5	46
92	The role of a H ⁺ -ATPase in the regulation of cytoplasmic pH in <i>Trypanosoma cruzi</i> epimastigotes. <i>Biochemical Journal</i> , 1996, 318, 103-109.	3.7	45
93	Presence of a vacuolar H ⁺ -pyrophosphatase in promastigotes of <i>Leishmania donovani</i> and its localization to a different compartment from the vacuolar H ⁺ -ATPase. <i>Biochemical Journal</i> , 1999, 340, 759.	3.7	44
94	Presence of a Na ⁺ /H ⁺ exchanger in acidocalcisomes of <i>Leishmania donovani</i> and their alkalization by anti-leishmanial drugs. <i>FEBS Letters</i> , 2000, 473, 203-206.	2.8	44
95	Polyphosphate Content and Fine Structure of Acidocalcisomes of <i>Plasmodium falciparum</i> . <i>Microscopy and Microanalysis</i> , 2004, 10, 563-567.	0.4	44
96	Mechanism of Action of 4-Phenoxyphenoxyethyl Thiocyanate (WC-9) against <i>Trypanosoma cruzi</i> , the Causative Agent of Chagas's Disease. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 2047-2050.	3.2	43
97	Target of Rapamycin (TOR)-like 1 Kinase Is Involved in the Control of Polyphosphate Levels and Acidocalcisome Maintenance in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 24131-24140.	3.4	43
98	Adaptor Protein-3 (AP-3) Complex Mediates the Biogenesis of Acidocalcisomes and Is Essential for Growth and Virulence of <i>Trypanosoma brucei</i> *. <i>Journal of Biological Chemistry</i> , 2011, 286, 36619-36630.	3.4	43
99	Functional expression of a vacuolar-type H ⁺ -ATPase in the plasma membrane and intracellular vacuoles of <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 1998, 332, 695-702.	3.7	42
100	Role for a P-type H ⁺ -ATPase in the acidification of the endocytic pathway of <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 2005, 392, 467-474.	3.7	42
101	Calcium-sensitive pyruvate dehydrogenase phosphatase is required for energy metabolism, growth, differentiation, and infectivity of <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 17402-17417.	3.4	42
102	Calcium- and polyphosphate-containing acidic granules of sea urchin eggs are similar to acidocalcisomes, but are not the targets for NAADP. <i>Biochemical Journal</i> , 2010, 429, 485-495.	3.7	41
103	Localization and Developmental Regulation of a Dispersed Gene Family 1 Protein in <i>Trypanosoma cruzi</i> . <i>Infection and Immunity</i> , 2010, 78, 231-240.	2.2	41
104	Synthesis and biological evaluation of new 2-alkylaminoethyl-1,1-bisphosphonic acids against <i>Trypanosoma cruzi</i> and <i>Toxoplasma gondii</i> targeting farnesyl diphosphate synthase. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2211-2217.	3.0	41
105	TcSCA Complements Yeast Mutants Defective in Ca ²⁺ Pumps and Encodes a Ca ²⁺ -ATPase That Localizes to the Endoplasmic Reticulum of <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 32437-32445.	3.4	40
106	Cloning and functional expression of a gene encoding a vacuolar-type proton-translocating pyrophosphatase from <i>Trypanosoma cruzi</i> . <i>Biochemical Journal</i> , 2000, 351, 281.	3.7	39
107	An Acidocalcisomal Exopolyphosphatase from <i>Leishmania major</i> with High Affinity for Short Chain Polyphosphate. <i>Journal of Biological Chemistry</i> , 2002, 277, 50899-50906.	3.4	39
108	Hyperosmotic Stress Induces Aquaporin-dependent Cell Shrinkage, Polyphosphate Synthesis, Amino Acid Accumulation, and Global Gene Expression Changes in <i>Trypanosoma cruzi</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 43959-43971.	3.4	39

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109	Defining the role of a FYVE domain in the localization and activity of a cAMP phosphodiesterase implicated in osmoregulation in <i>Trypanosoma cruzi</i> . Molecular Microbiology, 2011, 79, 50-62.	2.5	38
110	Acidocalcisomes and a vacuolar H ⁺ -pyrophosphatase in malaria parasites. Biochemical Journal, 2000, 347, 243.	3.7	37
111	Acidocalcisomes of Trypanosomatids have Species-Specific Elemental Composition. Protist, 2004, 155, 395-405.	1.5	37
112	A Lipid-modified Phosphoinositide-specific Phospholipase C (TcPI-PLC) Is Involved in Differentiation of Trypomastigotes to Amastigotes of Trypanosoma cruzi. Journal of Biological Chemistry, 2005, 280, 16235-16243.	3.4	37
113	Acylation-dependent Export of Trypanosoma cruzi Phosphoinositide-specific Phospholipase C to the Outer Surface of Amastigotes. Journal of Biological Chemistry, 2010, 285, 30906-30917.	3.4	37
114	MICU1 and MICU2 Play an Essential Role in Mitochondrial Ca ²⁺ Uptake, Growth, and Infectivity of the Human Pathogen Trypanosoma cruzi. MBio, 2019, 10, .	4.1	37
115	Endogenous C-terminal Tagging by CRISPR/Cas9 in Trypanosoma cruzi. Bio-protocol, 2017, 7, .	0.4	37
116	A pyruvate-proton symport and an H ⁺ -ATPase regulate the intracellular pH of Trypanosoma brucei at different stages of its life cycle. Biochemical Journal, 2000, 346, 53-62.	3.7	36
117	A Solanesyl-diphosphate Synthase Localizes in Glycosomes of Trypanosoma cruzi. Journal of Biological Chemistry, 2006, 281, 39339-39348.	3.4	35
118	Chemical Validation of Phosphodiesterase C as a Chemotherapeutic Target in <i>Trypanosoma cruzi</i> , the Etiological Agent of Chagas' Disease. Antimicrobial Agents and Chemotherapy, 2010, 54, 3738-3745.	3.2	35
119	Inorganic polyphosphate interacts with nucleolar and glycosomal proteins in trypanosomatids. Molecular Microbiology, 2018, 110, 973-994.	2.5	35
120	Two types of H ⁺ -ATPase are involved in the acidification of internal compartments in Trypanosoma cruzi. Biochemical Journal, 1998, 331, 583-589.	3.7	34
121	The Acidocalcisome Vacuolar Transporter Chaperone 4 Catalyzes the Synthesis of Polyphosphate in Insect-stages of <i>Trypanosoma brucei</i> and <i>T. cruzi</i> . Journal of Eukaryotic Microbiology, 2014, 61, 155-165.	1.7	34
122	Characterization of Farnesylated Protein Tyrosine Phosphatase TcPRL-1 from Trypanosoma cruzi. Eukaryotic Cell, 2005, 4, 1550-1561.	3.4	33
123	Overexpression of a Zn ²⁺ -sensitive Soluble Exopolyphosphatase from Trypanosoma cruzi Depletes Polyphosphate and Affects Osmoregulation. Journal of Biological Chemistry, 2007, 282, 32501-32510.	3.4	33
124	Molecular and Electrophysiological Characterization of a Novel Cation Channel of Trypanosoma cruzi. PLoS Pathogens, 2012, 8, e1002750.	4.7	33
125	Magic-angle spinning ³¹ P NMR spectroscopy of condensed phosphates in parasitic protozoa: visualizing the invisible. FEBS Letters, 2002, 523, 207-212.	2.8	32
126	Dynamics of polymorphism of acidocalcisomes in Leishmania parasites. Histochemistry and Cell Biology, 2004, 121, 407-418.	1.7	32

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127	A Trypanosoma cruzi Phosphatidylinositol 3-Kinase (TcVps34) Is Involved in Osmoregulation and Receptor-mediated Endocytosis. Journal of Biological Chemistry, 2008, 283, 31541-31550.	3.4	32
128	Bisphosphonate metal complexes as selective inhibitors of Trypanosoma cruzi farnesyl diphosphate synthase. Dalton Transactions, 2012, 41, 6468.	3.3	32
129	The origin and evolution of the acidocalcisome and its interactions with other organelles. Molecular and Biochemical Parasitology, 2016, 209, 3-9.	1.1	32
130	5-Diphosphoinositol pentakisphosphate (5-IP7) regulates phosphate release from acidocalcisomes and yeast vacuoles. Journal of Biological Chemistry, 2018, 293, 19101-19112.	3.4	32
131	IP3 receptor-mediated Ca ²⁺ release from acidocalcisomes regulates mitochondrial bioenergetics and prevents autophagy in Trypanosoma cruzi. Cell Calcium, 2020, 92, 102284.	2.4	32
132	Proton and sodium pumps regulate the plasma membrane potential of different stages of Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2002, 120, 127-139.	1.1	31
133	Fluorine-containing aryloxyethyl thiocyanate derivatives are potent inhibitors of Trypanosoma cruzi and Toxoplasma gondii proliferation. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5068-5071.	2.2	31
134	Acidocalcisomes as Calcium- and Polyphosphate-Storage Compartments during Embryogenesis of the Insect Rhodnius prolixus Stahl. PLoS ONE, 2011, 6, e27276.	2.5	31
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