Paul A M Michels

List of Publications by Year
in descending order

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234	16,782	22132	18115
papers	citations	59 h-index	120 g-index

240	240	240	19426
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
2	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	4.3	2,064
3	Evolution of glycolysis. Progress in Biophysics and Molecular Biology, 1993, 59, 105-235.	1.4	420
4	6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase: head-to-head with a bifunctional enzyme that controls glycolysis. Biochemical Journal, 2004, 381, 561-579.	1.7	336
5	Metabolic functions of glycosomes in trypanosomatids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1463-1477.	1.9	270
6	Growth of chromosome ends in multiplying trypanosomes. Nature, 1983, 303, 592-597.	13.7	250
7	RNA splicing is required to make the messenger RNA for a variant surface antigen in trypanosomes. Nucleic Acids Research, 1982, 10, 3591-3604.	6.5	199
8	Synergistic effects of substrate-induced conformational changes in phosphoglycerate kinase activation. Nature, 1997, 385, 275-278.	13.7	197
9	Plant-like traits associated with metabolism of Trypanosoma parasites. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1067-1071.	3.3	195
10	Glycolysis in Bloodstream Form Trypanosoma brucei Can Be Understood in Terms of the Kinetics of the Glycolytic Enzymes. Journal of Biological Chemistry, 1997, 272, 3207-3215.	1.6	194
11	Glycolysis as a target for the design of new anti-trypanosome drugs. Drug Resistance Updates, 2001, 4, 50-65.	6.5	192
12	Chromosome rearrangements in trypanosoma brucei. Cell, 1984, 39, 213-221.	13.5	167
13	What Controls Glycolysis in Bloodstream Form Trypanosoma brucei?. Journal of Biological Chemistry, 1999, 274, 14551-14559.	1.6	159
14	Evolution of energy metabolism and its compartmentation in Kinetoplastida. Parasites and Vectors, 2003, 2, 11.	1.9	153
15	Generation of an electrochemical proton gradient in bacteria by the excretion of metabolic end products. FEMS Microbiology Letters, 1979, 5, 357-364.	0.7	148
16	Autophagy in protists. Autophagy, 2011, 7, 127-158.	4.3	148
17	Experimental and in Silico Analyses of Glycolytic Flux Control in Bloodstream Form Trypanosoma brucei. Journal of Biological Chemistry, 2005, 280, 28306-28315.	1.6	141
18	Many trypanosome messenger RNAs share a common 5â€² terminal sequence. Nucleic Acids Research, 1984, 12, 3777-3790.	6.5	134

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19	Metabolic compartmentation in African trypanosomes. Parasitology Today, 1996, 12, 465-471.	3.1	125
20	Activation of the genes for variant surface glycoproteins 117 and 118 in Trypanosoma brucei. Journal of Molecular Biology, 1983, 166, 537-556.	2.0	124
21	Compartmentation prevents a lethal turbo-explosion of glycolysis in trypanosomes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17718-17723.	3.3	123
22	Roles of triosephosphate isomerase and aerobic metabolism in Trypanosoma brucei. Biochemical Journal, 2001, 357, 117-125.	1.7	115
23	Trypanosomes of subgenus trypanozoon are diploid for housekeeping genes. Molecular and Biochemical Parasitology, 1985, 16, 231-242.	0.5	113
24	Autophagy in parasitic protists: Unique features and drug targets. Molecular and Biochemical Parasitology, 2011, 177, 83-99.	0.5	111
25	Metabolic control analysis of glycolysis in trypanosomes as an approach to improve selectivity and effectiveness of drugs. Molecular and Biochemical Parasitology, 2000, 106, 1-10.	0.5	101
26	Turnover of glycosomes during life-cycle differentiation ofTrypanosoma brucei. Autophagy, 2008, 4, 294-308.	4.3	101
27	Glucosephosphate isomerase from Trypanosoma brucei. Cloning and characterization of the gene and analysis of the enzyme. FEBS Journal, 1989, 184, 455-464.	0.2	98
28	Structural and mutagenesis studies of leishmania triosephosphate isomerase: a point mutation can convert a mesophilic enzyme into a superstable enzyme without losing catalytic power. Protein Engineering, Design and Selection, 1999, 12, 243-250.	1.0	97
29	Biogenesis, maintenance and dynamics of glycosomes in trypanosomatid parasites. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1038-1048.	1.9	96
30	Contribution of glucose transport to the control of the glycolytic flux in Trypanosoma brucei. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10098-10103.	3.3	94
31	Biogenesis of peroxisomes and glycosomes: trypanosomatid glycosome assembly is a promising new drug target. FEMS Microbiology Reviews, 2004, 28, 603-643.	3.9	93
32	NMR Spectroscopic Analysis of the First Two Steps of the Pentose-Phosphate Pathway Elucidates the Role of 6-Phosphogluconolactonase. Journal of Biological Chemistry, 2001, 276, 34840-34846.	1.6	90
33	Differential expression of glycosomal and mitochondrial proteins in the two major life-cycle stages of Trypanosoma brucei. Molecular and Biochemical Parasitology, 2008, 158, 189-201.	0.5	90
34	Enolase: A Key Player in the Metabolism and a Probable Virulence Factor of Trypanosomatid Parasitesâ€"Perspectives for Its Use as a Therapeutic Target. Enzyme Research, 2011, 2011, 1-14.	1.8	90
35	Roles of triosephosphate isomerase and aerobic metabolism in Trypanosoma brucei. Biochemical Journal, 2001, 357, 117.	1.7	89
36	ATP Generation in the Trypanosoma brucei Procyclic Form. Journal of Biological Chemistry, 2003, 278, 49625-49635.	1.6	89

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37	Molecular and biochemical characterization of hexokinase from Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2003, 126, 251-262.	0.5	88
38	The structure of pyruvate kinase from Leishmania mexicana reveals details of the allosteric transition and unusual effector specificity 1 1Edited by I. A. Wilson. Journal of Molecular Biology, 1999, 291, 615-635.	2.0	87
39	When, how and why glycolysis became compartmentalised in the Kinetoplastea. A new look at an ancient organelle. International Journal for Parasitology, 2012, 42, 1-20.	1.3	87
40	Genetic nomenclature for Trypanosoma and Leishmania. Molecular and Biochemical Parasitology, 1998, 97, 221-224.	0.5	83
41	Telomere conversion in trypanosomes. Nucleic Acids Research, 1983, 11, 8149-8165.	6.5	80
42	The cytosolic and glycosomal isoenzymes of glyceraldehyde-3-phosphate dehydrogenase in Trypanosoma brucei have a distant evolutionary relationship. FEBS Journal, 1991, 198, 421-428.	0.2	80
43	Extracellular functions of glycolytic enzymes of parasites: Unpredicted use of ancient proteins. Molecular and Biochemical Parasitology, 2014, 193, 75-81.	0.5	80
44	Molecular Characterization of the First Two Enzymes of the Pentose-phosphate Pathway of Trypanosoma brucei. Journal of Biological Chemistry, 2000, 275, 27559-27565.	1.6	77
45	Structures of Type 2 Peroxisomal Targeting Signals in Two Trypanosomatid Aldolases. Journal of Molecular Biology, 2000, 300, 697-707.	2.0	76
46	Selective Inhibition of Trypanosomal Glyceraldehyde-3-phosphate Dehydrogenase by Protein Structure-Based Design: Toward New Drugs for the Treatment of Sleeping Sickness. Journal of Medicinal Chemistry, 1994, 37, 3605-3613.	2.9	75
47	The Uptake and Metabolism of Amino Acids, and Their Unique Role in the Biology of Pathogenic Trypanosomatids. Pathogens, 2018, 7, 36.	1.2	73
48	The cytosolic and glycosomal glyceraldehyde-3-phosphate dehydrogenase from Trypanosoma brucei. Kinetic properties and comparison with homologous enzymes. FEBS Journal, 1991, 198, 429-435.	0.2	71
49	Complex I of Trypanosomatidae: does it exist?. Trends in Parasitology, 2008, 24, 310-317.	1.5	71
50	Enzymes of carbohydrate metabolism as potential drug targets. International Journal for Parasitology, 2001, 31, 482-490.	1.3	70
51	Allosteric Mechanism of Pyruvate Kinase from Leishmania mexicana Uses a Rock and Lock Model. Journal of Biological Chemistry, 2010, 285, 12892-12898.	1.6	70
52	Pulsed field gradient electrophoresis of DNA digested in agarose allows the sizing of the large duplication unit of a surface antigen gene in trypanosomes. Gene, 1986, 42, 313-322.	1.0	69
53	Virtual Screening Identification of Nonfolate Compounds, Including a CNS Drug, as Antiparasitic Agents Inhibiting Pteridine Reductase. Journal of Medicinal Chemistry, 2011, 54, 211-221.	2.9	68
54	Characterization of the role of the receptors PEX5 and PEX7 in the import of proteins into glycosomes of Trypanosoma brucei. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 521-535.	1.9	66

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55	Trypanosome variant surface glycoprotein genes expressed early in infection. Journal of Molecular Biology, 1985, 182, 383-396.	2.0	65
56	Enolase from Trypanosoma brucei, from the Amitochondriate Protist Mastigamoeba balamuthi, and from the Chloroplast and Cytosol of Euglena gracilis: Pieces in the Evolutionary Puzzle of the Eukaryotic Glycolytic Pathway. Molecular Biology and Evolution, 2000, 17, 989-1000.	3.5	65
57	The Trypanocidal Drug Suramin and Other Trypan Blue Mimetics Are Inhibitors of Pyruvate Kinases and Bind to the Adenosine Site. Journal of Biological Chemistry, 2011, 286, 31232-31240.	1.6	65
58	Overexpression of trypanosomal triosephosphate isomerase in Escherichia coli and characterisation of a dimer-interface mutant. FEBS Journal, 1993, 211, 703-710.	0.2	64
59	Kinetic characterization, structure modelling studies and crystallization of Trypanosoma brucei enolase. FEBS Journal, 2003, 270, 3205-3213.	0.2	64
60	Autophagy and Related processes in Trypanosomatids: Insights from Genomic and Bioinformatic Analyses. Autophagy, 2006, 2, 107-118.	4.3	64
61	Structure, function, and biogenesis of glycosomes in Kinetoplastida. Journal of Bioenergetics and Biomembranes, 1994, 26, 205-212.	1.0	62
62	Peroxisomes, glyoxysomes and glycosomes (Review). Molecular Membrane Biology, 2005, 22, 133-145.	2.0	61
63	Design, synthesis and trypanocidal activity of lead compounds based on inhibitors of parasite glycolysis. Bioorganic and Medicinal Chemistry, 2008, 16, 5050-5061.	1.4	61
64	Cytosolic NADPH Homeostasis in Glucose-starved Procyclic Trypanosoma brucei Relies on Malic Enzyme and the Pentose Phosphate Pathway Fed by Gluconeogenic Flux. Journal of Biological Chemistry, 2013, 288, 18494-18505.	1.6	61
65	The Electrochemical Proton Gradient Generated by Light in Membrane Vesicles and Chromatophores from Rhodopseudomonas sphaeroides. FEBS Journal, 1978, 85, 147-155.	0.2	59
66	Molecular cloning and analysis of two tandemly linked genes for pyruvate kinase of Trypanosoma brucei. FEBS Journal, 1991, 200, 19-27.	0.2	59
67	Synthesis and evaluation of novel prenylated chalcone derivatives as anti-leishmanial and anti-trypanosomal compounds. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3342-3345.	1.0	58
68	Transport of Amino Acids in Membrane Vesicles of Rhodopseudomonas spheroides Energized by Respiratory and Cyclic Electron Flow. FEBS Journal, 1975, 55, 397-406.	0.2	57
69	A paradigm shift: The mitoproteomes of procyclic and bloodstream Trypanosoma brucei are comparably complex. PLoS Pathogens, 2017, 13, e1006679.	2.1	57
70	The control of variant surface antigen synthesis in trypanosomes. FEBS Journal, 1983, 137, 383-389.	0.2	56
71	Autophagy in protists: examples of secondary loss, lineage-specific innovations, and the conundrum of remodeling a single mitochondrion. Autophagy, 2009, 5, 784-794.	4.3	56
72	Characterization of the expression-linked gene copies of variant surface glycoprotein 118 in two independently isolated clones ofTrypanosoma brucel. Nucleic Acids Research, 1982, 10, 2353-2366.	6.5	55

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73	Horizontal gene transfer in trypanosomatids. Trends in Parasitology, 2007, 23, 470-476.	1.5	54
74	Characterization of the genes for fructose-bisphosphate aldolase in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1988, 29, 65-75.	0.5	53
75	The Glycosomal ATP-Dependent Phosphofructokinase of Trypanosoma Brucei must have Evolved from an Ancestral Pyrophosphate-Dependent Enzyme. FEBS Journal, 1997, 250, 698-704.	0.2	53
76	Molecular analysis of the cytosolic and glycosomal glyceraldehyde-3-phosphate dehydrogenase in Leishmania mexicana. Molecular and Biochemical Parasitology, 1992, 55, 115-126.	0.5	52
77	Naphthoquinone Derivatives Exert Their Antitrypanosomal Activity via a Multi-Target Mechanism. PLoS Neglected Tropical Diseases, 2013, 7, e2012.	1.3	52
78	Structural and functional properties of chromatophores and membrane vesicles from Rhodepseudomonas sphaeroides. Biochimica Et Biophysica Acta - Biomembranes, 1978, 507, 353-368.	1.4	51
79	Molecular analysis of glyceraldehyde-3-phosphate dehydrogenase in Trypanoplasma borelli: An evolutionary scenario of subcellular compartmentation in Kinetoplastida. Journal of Molecular Evolution, 1995, 40, 443-454.	0.8	50
80	A potential target enzyme for trypanocidal drugs revealed by the crystal structure of NAD-dependent glycerol-3-phosphate dehydrogenase from Leishmania mexicana. Structure, 2000, 8, 541-552.	1.6	50
81	Antitrypanosomal compounds from the essential oil and extracts of Keetia leucantha leaves with inhibitor activity on Trypanosoma brucei glyceraldehyde-3-phosphate dehydrogenase. Phytomedicine, 2013, 20, 270-274.	2.3	50
82	Characterization of Trypanosoma brucei PEX14 and its role in the import of glycosomal matrix proteins. FEBS Journal, 2003, 270, 2059-2067.	0.2	49
83	Trypanosoma bruceiglycosomal ABC transporters: identification and membrane targeting. Molecular Membrane Biology, 2006, 23, 157-172.	2.0	48
84	Structural Insights into the Recognition of Peroxisomal Targeting Signal 1 by Trypanosoma brucei Peroxin 5. Journal of Molecular Biology, 2008, 381, 867-880.	2.0	48
85	Toward the Development of Dualâ€Targeted Glyceraldehydeâ€3â€phosphate Dehydrogenase/Trypanothione Reductase Inhibitors against Trypanosoma brucei and Trypanosoma cruzi. ChemMedChem, 2014, 9, 371-382.	1.6	48
86	Immunochemical analysis of membrane vesicles and chromatophores ofRhodopseudomonas sphaeroidesby crossed immunoelectrophoresis. FEBS Letters, 1979, 107, 300-307.	1.3	47
87	Comparison and Evolutionary Analysis of the Glycosomal Glyceraldehyde-3-Phosphate Dehydrogenase from Different Kinetoplastida. Journal of Molecular Evolution, 1998, 47, 728-738.	0.8	47
88	Leishmania mexicana: Molecular cloning and characterization of enolase. Experimental Parasitology, 2007, 116, 241-251.	0.5	47
89	Peroxisomes in parasitic protists. Molecular and Biochemical Parasitology, 2016, 209, 35-45.	0.5	47
90	Rewiring and regulation of cross-compartmentalized metabolism in protists. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 831-845.	1.8	46

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91	Evolution, dynamics and specialized functions of glycosomes in metabolism and development of trypanosomatids. Current Opinion in Microbiology, 2014, 22, 79-87.	2.3	46
92	Channel-Forming Activities in the Glycosomal Fraction from the Bloodstream Form of Trypanosoma brucei. PLoS ONE, 2012, 7, e34530.	1.1	46
93	Regulation and control of compartmentalized glycolysis in bloodstream formTrypanosoma brucei. Journal of Bioenergetics and Biomembranes, 1995, 27, 513-525.	1.0	45
94	An unexpected extended conformation for the third TPR motif of the peroxin PEX5 from Trypanosoma brucei. Journal of Molecular Biology, 2001, 307, 271-282.	2.0	45
95	Trypanosoma brucei contains a 2,3-bisphosphoglycerate independent phosphoglycerate mutase. FEBS Journal, 2000, 267, 1464-1472.	0.2	44
96	Inhibition of Trypanosoma brucei glucose-6-phosphate dehydrogenase by human steroids and their effects on the viability of cultured parasites. Bioorganic and Medicinal Chemistry, 2009, 17, 2483-2489.	1.4	44
97	A domino effect in drug action: from metabolic assault towards parasite differentiation. Molecular Microbiology, 2011, 79, 94-108.	1.2	44
98	An allostatic mechanism for M2 pyruvate kinase as an amino-acid sensor. Biochemical Journal, 2018, 475, 1821-1837.	1.7	44
99	Characteristics of trypanosome variant antigen genes active in the tsetse fly. Nucleic Acids Research, 1985, 13, 4661-4676.	6.5	43
100	Molecular and biochemical characterization of novel glucokinases from Trypanosoma cruzi and Leishmania spp.. Molecular and Biochemical Parasitology, 2007, 156, 235-245.	0.5	43
101	Translocation of solutes and proteins across the glycosomal membrane of trypanosomes; possibilities and limitations for targeting with trypanocidal drugs. Parasitology, 2013, 140, 1-20.	0.7	43
102	The glycosomes of the Kinetoplastida. Biochimie, 1993, 75, 231-234.	1.3	42
103	Structure-Based Selectivity Optimization of Piperidineâ€“Pteridine Derivatives as Potent Leishmania Pteridine Reductase Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 8318-8329.	2.9	42
104	Identification and characterization of three peroxinsâ€”PEX6, PEX10 and PEX12â€”involved in glycosome biogenesis in Trypanosoma brucei. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 6-17.	1.9	40
105	Glycerol kinase of Trypanosoma brucei. FEBS Journal, 2000, 267, 2323-2333.	0.2	39
106	Genetic validation of aldolase and glyceraldehyde-3-phosphate dehydrogenase as drug targets in Trypanosoma brucei. Molecular and Biochemical Parasitology, 2010, 169, 50-54.	0.5	39
107	Analysis of the Sequence Motifs Responsible for the Interactions of Peroxins 14 and 5, Which Are Involved in Glycosome Biogenesis in Trypanosoma brucei. Biochemistry, 2003, 42, 10915-10922.	1.2	38
108	The crystal structure of glucose-6-phosphate isomerase from Leishmaniaâ€ƒmexicana reveals novel active site features. FEBS Journal, 2004, 271, 2765-2772.	0.2	38

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109	The Crystal Structure of ATP-bound Phosphofructokinase from Trypanosoma brucei Reveals Conformational Transitions Different from those of Other Phosphofructokinases. Journal of Molecular Biology, 2009, 385, 1519-1533.	2.0	38
110	Selective Irreversible Inhibition of Fructose 1,6-Bisphosphate Aldolase fromTrypanosoma brucei. Journal of Medicinal Chemistry, 2006, 49, 1499-1502.	2.9	37
111	Comparison of the peroxisomal matrix protein import system of different organisms. Exploration of possibilities for developing inhibitors of the import system of trypanosomatids for anti-parasite chemotherapy. European Journal of Cell Biology, 2010, 89, 621-637.	1.6	37
112	Glycosomal ABC transporters of Trypanosoma brucei: Characterisation of their expression, topology and substrate specificity. International Journal for Parasitology, 2011, 41, 429-438.	1.3	37
113	Glycosomal Targets for Anti-Trypanosomatid Drug Discovery. Current Medicinal Chemistry, 2014, 21, 1679-1706.	1.2	37
114	The evolution of kinetoplastid glycosomes. Journal of Bioenergetics and Biomembranes, 1994, 26, 213-219.	1.0	36
115	Cloning and analysis of the PTS-1 receptor in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1999, 104, 107-119.	0.5	36
116	Pyruvate kinase of Leishmania mexicana mexicana Cloning and analysis of the gene, overexpression in Escherichia coli and characterization of the enzyme. Molecular and Biochemical Parasitology, 1994, 64, 43-54.	0.5	35
117	Triose-phosphate isomerase of Leishmania mexicana mexicana Cloning and characterization of the gene, overexpression in Escherichia coli and analysis of the protein. FEBS Journal, 1994, 220, 331-338.	0.2	35
118	TrypanoCyc: a community-led biochemical pathways database for Trypanosoma brucei. Nucleic Acids Research, 2015, 43, D637-D644.	6.5	35
119	Carbohydrate metabolism in trypanosomatids: New insights revealing novel complexity, diversity and species-unique features. Experimental Parasitology, 2021, 224, 108102.	0.5	35
120	The Crystal Structure of Trypanosoma brucei Enolase: Visualisation of the Inhibitory Metal Binding Site III and Potential as Target for Selective, Irreversible Inhibition. Journal of Molecular Biology, 2003, 331, 653-665.	2.0	34
121	Compartmentation of glycolysis in trypanosomes: a potential target for new trypanocidal drugs. Biology of the Cell, 1988, 64, 157-184.	0.7	33
122	Energy coupling of facilitated transport of inorganic ions in Rhodopseudomonas sphaeroides. Journal of Bacteriology, 1982, 150, 1183-1191.	1.0	33
123	Ubiquitination of the glycosomal matrix protein receptor PEX5 in Trypanosoma brucei by PEX4 displays novel features. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3076-3092.	1.9	32
124	Proteomic analysis of glycosomes from Trypanosoma cruzi epimastigotes. Molecular and Biochemical Parasitology, 2019, 229, 62-74.	0.5	31
125	Response of 9-Aminoacridine Fluorescence to Transmembrane pH-Gradients in Chromatophores from Rhodopseudomonas sphaeroides. FEBS Journal, 1978, 92, 381-387.	0.2	30
126	Evolutionary aspects of trypanosomes: Analysis of genes. Journal of Molecular Evolution, 1986, 24, 45-52.	0.8	30

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127	Organization, sequence and stage-specific expression of the phosphoglycerate kinase genes of Leishmania mexicana mexicana1Note: Nucleotide sequence data reported in this paper are available in the EMBL, GenBankâ„¢ and DDJB data bases under the accession numbers X98486 (PGKB) and X98487 (PGKC)1. Molecular and Biochemical Parasitology, 1997, 90, 155-168.	0.5	30
128	The Crystal Structure of Trypanosoma cruzi Glucokinase Reveals Features Determining Oligomerization and Anomer Specificity of Hexose-phosphorylating Enzymes. Journal of Molecular Biology, 2007, 372, 1215-1226.	2.0	29
129	Autophagy in Trypanosomatids. Cells, 2012, 1, 346-371.	1.8	29
130	Pyruvate transport across the plasma membrane of the bloodstream form of Trypanosoma brucei is mediated by a facilitated diffusion carrier. Biochemical and Biophysical Research Communications, 1992, 184, 1028-1034.	1.0	28
131	Molecular analysis of phosphoglycerate kinase in Trypanoplasma borreli and the evolution of this enzyme in Kinetoplastida. Gene, 1998, 217, 91-99.	1.0	28
132	Identification, characterization and essentiality of the unusual peroxin 13 from Trypanosoma brucei. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 516-527.	1.9	28
133	Glucose-6-phosphate dehydrogenase is the target for the trypanocidal action of human steroids. Molecular and Biochemical Parasitology, 2011, 176, 112-115.	0.5	28
134	Nanotechnological Strategies for Treatment of Leishmaniasisâ€"A Review. Journal of Biomedical Nanotechnology, 2017, 13, 117-133.	0.5	28
135	Subcellular distribution and characterization of glucosephosphate isomerase in Leishmania mexicana mexicana. Molecular and Biochemical Parasitology, 1994, 67, 269-279.	0.5	27
136	Cloning and characterization of the NAD-linked glycerol-3-phosphate dehydrogenases of Trypanosoma brucei brucei and Leishmania mexicana mexicana and expression of the trypanosome enzyme in Escherichia coli. Molecular and Biochemical Parasitology, 1996, 76, 159-173.	0.5	27
137	Leishmania donovaniphosphofructokinase. FEBS Journal, 2002, 269, 3978-3989.	0.2	27
138	The mitochondrial FAD-dependent glycerol-3-phosphate dehydrogenase of Trypanosomatidae and the glycosomal redox balance of insect stages of Trypanosoma brucei and Leishmania spp.. Molecular and Biochemical Parasitology, 2006, 149, 155-169.	0.5	27
139	The First Crystal Structure of Phosphofructokinase from a Eukaryote: Trypanosoma brucei. Journal of Molecular Biology, 2007, 366, 1185-1198.	2.0	27
140	Identification of ML251, a Potent Inhibitor of T. brucei and T. cruzi Phosphofructokinase. ACS Medicinal Chemistry Letters, 2014, 5, 12-17.	1.3	27
141	Phosphoglycerate kinase: structural aspects and functions, with special emphasis on the enzyme from Kinetoplastea. Open Biology, 2020, 10, 200302.	1.5	27
142	The expression and intracellular distribution of phosphoglycerate kinase isoenzymes in Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2001, 118, 111-121.	0.5	26
143	Phylogenetic relationships and classification of thiolases and thiolase-like proteins of Mycobacterium tuberculosis and Mycobacterium smegmatis. Tuberculosis, 2014, 94, 405-412.	0.8	26
144	Leishmania mexicana Glycerol-3-phosphate Dehydrogenase Showed Conformational Changes Upon Binding a Bi-substrate Adduct. Journal of Molecular Biology, 2003, 329, 335-349.	2.0	25

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145	Crystal Structures of Leishmania mexicana Phosphoglycerate Mutase Suggest a One-Metal Mechanism and a New Enzyme Subclass. Journal of Molecular Biology, 2009, 394, 535-543.	2.0	25
146	An internal sequence targets Trypanosoma brucei triosephosphate isomerase to glycosomes. Molecular and Biochemical Parasitology, 2010, 171, 45-49.	0.5	25
147	The silicon trypanosome. Parasitology, 2010, 137, 1333-1341.	0.7	25
148	Fumarate hydratase isoforms of Leishmania major: Subcellular localization, structural and kinetic properties. International Journal of Biological Macromolecules, 2012, 51, 25-31.	3.6	25
149	Trypanosomes contain two highly different isoforms of peroxin PEX13 involved in glycosome biogenesis. FEBS Letters, 2012, 586, 1765-1771.	1.3	25
150	Structure, Properties, and Function of Glycosomes in Trypanosoma cruzi. Frontiers in Cellular and Infection Microbiology, 2020, 10, 25.	1.8	25
151	Exploiting the 2-Amino-1,3,4-thiadiazole Scaffold To Inhibit Trypanosoma brucei Pteridine Reductase in Support of Early-Stage Drug Discovery. ACS Omega, 2017, 2, 5666-5683.	1.6	24
152	Redox regulation of pyruvate kinase M2 by cysteine oxidation and S-nitrosation. Biochemical Journal, 2018, 475, 3275-3291.	1.7	24
153	Discovery of trypanocidal coumarins with dual inhibition of both the glycerol kinase and alternative oxidase of Trypanosoma brucei brucei. FASEB Journal, 2019, 33, 13002-13013.	0.2	24
154	Sulphate Removal Induces a Major Conformational Change in Leishmania mexicana Pyruvate Kinase in the Crystalline State. Journal of Molecular Biology, 2008, 383, 615-626.	2.0	23
155	Control and regulation of the pyrophosphate-dependent glucose metabolism in Entamoeba histolytica. Molecular and Biochemical Parasitology, 2019, 229, 75-87.	0.5	23
156	Gamma-glutamylcysteine synthetase and tryparedoxin 1 exert high control on the antioxidant system in Trypanosoma cruzi contributing to drug resistance and infectivity. Redox Biology, 2019, 26, 101231.	3.9	22
157	Characterization of the cofactor-independent phosphoglycerate mutase from Leishmania mexicana mexicana. Histidines that coordinate the two metal ions in the active site show different susceptibilities to irreversible chemical modification. FEBS Journal, 2004, 271, 1798-1810.	0.2	21
158	A new family of covalent inhibitors block nucleotide binding to the active site of pyruvate kinase. Biochemical Journal, 2012, 448, 67-72.	1.7	21
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