Paul A M Michels

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8965174/publications.pdf

Version: 2024-02-01

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	Biogenesis and metabolic homeostasis of trypanosomatid glycosomes: New insights and new questions. Journal of Eukaryotic Microbiology, 2022, 69, e12897.	0.8	11
2	Trypanosoma brucei: Metabolomics for analysis of cellular metabolism and drug discovery. Metabolomics, 2022, 18, 20.	1.4	7
3	MicroRNAs: master regulators in hostâ€“parasitic protist interactions. Open Biology, 2022, 12, .	1.5	10
4	Fast acting allosteric phosphofructokinase inhibitors block trypanosome glycolysis and cure acute African trypanosomiasis in mice. Nature Communications, 2021, 12, 1052.	5.8	21
5	Carbohydrate metabolism in trypanosomatids: New insights revealing novel complexity, diversity and species-unique features. Experimental Parasitology, 2021, 224, 108102.	0.5	35
6	Kinetic and structural studies of Trypanosoma and Leishmania phosphofructokinases show evolutionary divergence and identify AMP as a switch regulating glycolysis versus gluconeogenesis. FEBS Journal, 2020, 287, 2847-2861.	2.2	8
7	Pyruvate kinase from Plasmodium falciparum: Structural and kinetic insights into the allosteric mechanism. Biochemical and Biophysical Research Communications, 2020, 532, 370-376.	1.0	7
8	Structural and kinetic characterization of Trypanosoma congolense pyruvate kinase. Molecular and Biochemical Parasitology, 2020, 236, 111263.	0.5	1
9	Structure, Properties, and Function of Glycosomes in Trypanosoma cruzi. Frontiers in Cellular and Infection Microbiology, 2020, 10, 25.	1.8	25
10	Biochemical and transcript level differences between the three human phosphofructokinases show optimisation of each isoform for specific metabolic niches. Biochemical Journal, 2020, 477, 4425-4441.	1.7	20
11	Phosphoglycerate kinase: structural aspects and functions, with special emphasis on the enzyme from Kinetoplastea. Open Biology, 2020, 10, 200302.	1.5	27
12	Pyruvate Kinase Regulates the Pentose-Phosphate Pathway in Response to Hypoxia in Mycobacterium tuberculosis. Journal of Molecular Biology, 2019, 431, 3690-3705.	2.0	6
13	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
14	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
15	Control and regulation of the pyrophosphate-dependent glucose metabolism in Entamoeba histolytica. Molecular and Biochemical Parasitology, 2019, 229, 75-87.	0.5	23
16	Proteomic analysis of glycosomes from Trypanosoma cruzi epimastigotes. Molecular and Biochemical Parasitology, 2019, 229, 62-74.	0.5	31
17	Drug Target Selection for Trypanosoma cruzi Metabolism by Metabolic Control Analysis and Kinetic Modeling. Current Medicinal Chemistry, 2019, 26, 6652-6671.	1.2	11
18	The kinetic characteristics of human and trypanosomatid phosphofructokinases for the reverse reaction. Biochemical Journal, 2019, 476, 179-191.	1.7	10

#	Article	IF	Citations
19	Enolase from Trypanosoma cruzi is inhibited by its interaction with metallocarboxypeptidase-1 and a putative acireductone dioxygenase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 651-660.	1.1	4
20	Structure and function of Per-ARNT-Sim domains and their possible role in the life-cycle biology of Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2018, 219, 52-66.	0.5	16
21	Redox regulation of pyruvate kinase M2 by cysteine oxidation and S-nitrosation. Biochemical Journal, 2018, 475, 3275-3291.	1.7	24
22	The Uptake and Metabolism of Amino Acids, and Their Unique Role in the Biology of Pathogenic Trypanosomatids. Pathogens, 2018, 7, 36.	1.2	73
23	An allostatic mechanism for M2 pyruvate kinase as an amino-acid sensor. Biochemical Journal, 2018, 475, 1821-1837.	1.7	44
24	Crystallographic substrate binding studies ofLeishmania mexicanaSCP2-thiolase (type-2): unique features of oxyanion hole-1. Protein Engineering, Design and Selection, 2017, 30, 225-233.	1.0	5
25	Effect of ligands and redox state on phosphofructokinase quaternary structure and enzymatic activity. Lancet, The, 2017, 389, S36.	6.3	1
26	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
27	Structures of Leishmania Fructose-1,6-Bisphosphatase Reveal Species-Specific Differences in the Mechanism of Allosteric Inhibition. Journal of Molecular Biology, 2017, 429, 3075-3089.	2.0	11
28	Glycerol kinase of African trypanosomes possesses an intrinsic phosphatase activity. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2830-2842.	1.1	10
29	Nanotechnological Strategies for Treatment of Leishmaniasisâ€"A Review. Journal of Biomedical Nanotechnology, 2017, 13, 117-133.	0.5	28
30	A paradigm shift: The mitoproteomes of procyclic and bloodstream Trypanosoma brucei are comparably complex. PLoS Pathogens, 2017, 13, e1006679.	2.1	57
31	Carbon Metabolism as a Drug Target in Leishmania. RSC Drug Discovery Series, 2017, , 297-315.	0.2	1
32	Evaluation of Antigens for Development of a Serological Test for Human African Trypanosomiasis. PLoS ONE, 2016, 11, e0168074.	1.1	12
33	The SCP2-thiolase-like protein (SLP) ofTrypanosoma bruceiis an enzyme involved in lipid metabolism. Proteins: Structure, Function and Bioinformatics, 2016, 84, 1075-1096.	1.5	5
34	Peroxisomes in parasitic protists. Molecular and Biochemical Parasitology, 2016, 209, 35-45.	0.5	47
35	Trypanosoma evansi contains two auxiliary enzymes of glycolytic metabolism: Phosphoenolpyruvate carboxykinase and pyruvate phosphate dikinase. Experimental Parasitology, 2016, 165, 7-15.	0.5	7
36	Biogenesis, maintenance and dynamics of glycosomes in trypanosomatid parasites. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1038-1048.	1.9	96

#	Article	IF	Citations
37	ATG24 Represses Autophagy and Differentiation and Is Essential for Homeostasy of the Flagellar Pocket in Trypanosoma brucei. PLoS ONE, 2015, 10, e0130365.	1.1	14
38	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
39	The glycosomal-membrane associated phosphoglycerate kinase isoenzyme A plays a role in sustaining the glucose flux in Trypanosoma cruzi epimastigotes. Molecular and Biochemical Parasitology, 2015, 200, 5-8.	0.5	6
40	TrypanoCyc: a community-led biochemical pathways database for Trypanosoma brucei. Nucleic Acids Research, 2015, 43, D637-D644.	6.5	35
41	Molecular basis for the reverse reaction of <scp>A</scp>frican human trypanosomes glycerol kinase. Molecular Microbiology, 2014, 94, 1315-1329.	1.2	14
42	In or out? On the tightness of glycosomal compartmentalization of metabolites and enzymes in Trypanosoma brucei. Molecular and Biochemical Parasitology, 2014, 198, 18-28.	0.5	18
43	Structures of pyruvate kinases display evolutionarily divergent allosteric strategies. Royal Society Open Science, 2014, 1, 140120.	1.1	21
44	Identification of ML251, a Potent Inhibitor of T. brucei and T. cruzi Phosphofructokinase. ACS Medicinal Chemistry Letters, 2014, 5, 12-17.	1.3	27
45	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
46	Evolution, dynamics and specialized functions of glycosomes in metabolism and development of trypanosomatids. Current Opinion in Microbiology, 2014, 22, 79-87.	2.3	46
47	Pyruvate kinases have an intrinsic and conserved decarboxylase activity. Biochemical Journal, 2014, 458, 301-311.	1.7	6
48	Trypanosomatid phosphoglycerate mutases have multiple conformational and oligomeric states. Biochemical and Biophysical Research Communications, 2014, 450, 936-941.	1.0	9
49	Phylogenetic relationships and classification of thiolases and thiolase-like proteins of Mycobacterium tuberculosis and Mycobacterium smegmatis. Tuberculosis, 2014, 94, 405-412.	0.8	26
50	Extracellular functions of glycolytic enzymes of parasites: Unpredicted use of ancient proteins. Molecular and Biochemical Parasitology, 2014, 193, 75-81.	0.5	80
51	The phosphoglycerate kinase isoenzymes have distinct roles in the regulation of carbohydrate metabolism in Trypanosoma cruzi. Experimental Parasitology, 2014, 143, 39-47.	0.5	19
52	Glycosomal Targets for Anti-Trypanosomatid Drug Discovery. Current Medicinal Chemistry, 2014, 21, 1679-1706.	1.2	37
53	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
54	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

#	Article	IF	Citations
55	Processing of the glycosomal matrix-protein import receptor PEX5 of Trypanosoma brucei. Biochemical and Biophysical Research Communications, 2013, 431, 98-103.	1.0	4
56	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
57	Biochemical effects of riluzole on Leishmania parasites. Experimental Parasitology, 2013, 133, 250-254.	0.5	10
58	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
59	Crystal structures of SCP2-thiolases of Trypanosomatidae, human pathogens causing widespread tropical diseases: the importance for catalysis of the cysteine of the unique HDCF loop. Biochemical Journal, 2013, 455, 119-130.	1.7	20
60	`In crystallo' substrate binding triggers major domain movements and reveals magnesium as a co-activator ofTrypanosoma bruceipyruvate kinase. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1768-1779.	2.5	16
61	Biochemical characterization of highly active Trypanosoma brucei gambiense glycerol kinase, a promising drug target. Journal of Biochemistry, 2013, 154, 77-84.	0.9	14
62	Naphthoquinone Derivatives Exert Their Antitrypanosomal Activity via a Multi-Target Mechanism. PLoS Neglected Tropical Diseases, 2013, 7, e2012.	1.3	52
63	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
64	Fumarate hydratase isoforms of Leishmania major: Subcellular localization, structural and kinetic properties. International Journal of Biological Macromolecules, 2012, 51, 25-31.	3.6	25
65	Studies on the organization of the docking complex involved in matrix protein import into glycosomes of Trypanosoma brucei. Biochemical and Biophysical Research Communications, 2012, 424, 781-785.	1.0	13
66	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
67	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
68	Autophagy in Trypanosomatids. Cells, 2012, 1, 346-371.	1.8	29
69	Trypanosomes contain two highly different isoforms of peroxin PEX13 involved in glycosome biogenesis. FEBS Letters, 2012, 586, 1765-1771.	1.3	25
70	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
71	Extra-glycosomal localisation of Trypanosoma brucei hexokinase 2. International Journal for Parasitology, 2012, 42, 401-409.	1.3	13
72	Structural role of the activeâ€site metal in the conformation of Trypanosomaâ€ƒbrucei phosphoglycerate mutase. FEBS Journal, 2012, 279, 2012-2021.	2.2	18

#	Article	IF	Citations
73	Channel-Forming Activities in the Glycosomal Fraction from the Bloodstream Form of Trypanosoma brucei. PLoS ONE, 2012, 7, e34530.	1.1	46
74	Phosphoglycerate mutase from Trypanosoma brucei is hyperactivated by cobalt in vitro, but not in vivo. Metallomics, 2011, 3, 1310.	1.0	10
75	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
76	Stearoyl-CoA desaturase is an essential enzyme for the parasitic protist Trypanosoma brucei. Biochemical and Biophysical Research Communications, 2011, 412, 286-290.	1.0	8
77	Glucose-6-Phosphate Dehydrogenase of Trypanosomatids: Characterization, Target Validation, and Drug Discovery. Molecular Biology International, 2011, 2011, 1-10.	1.7	19
78	A domino effect in drug action: from metabolic assault towards parasite differentiation. Molecular Microbiology, 2011, 79, 94-108.	1.2	44
79	The NAD⁺ metabolism of Leishmania, notably the enzyme nicotinamidase involved in NAD⁺ salvage, offers prospects for development of antiâ€parasite chemotherapy. Molecular Microbiology, 2011, 82, 4-8.	1.2	10
80	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
81	Autophagy in parasitic protists: Unique features and drug targets. Molecular and Biochemical Parasitology, 2011, 177, 83-99.	0.5	111
82	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
83	The characterization and evolutionary relationships of a trypanosomal thiolase. International Journal for Parasitology, 2011, 41, 1273-1283.	1.3	17
84	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
85	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
86	Autophagy in protists. Autophagy, 2011, 7, 127-158.	4.3	148
87	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
88	An internal sequence targets Trypanosoma brucei triosephosphate isomerase to glycosomes. Molecular and Biochemical Parasitology, 2010, 171, 45-49.	0.5	25
89	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
90	An improved strategy for the crystallization ofLeishmania mexicanapyruvate kinase. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 215-218.	0.7	13

#	Article	IF	Citations
91	Overproduction, purification, crystallization and preliminary X-ray diffraction analysis ofTrypanosoma brucei gambienseglycerol kinase. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 304-308.	0.7	7
92	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
93	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
94	The evolution of organellar metabolism in unicellular eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 693-698.	1.8	4
95	The silicon trypanosome. Parasitology, 2010, 137, 1333-1341.	0.7	25
96	Genetic and Chemical Evaluation of Trypanosoma brucei Oleate Desaturase as a Candidate Drug Target. PLoS ONE, 2010, 5, e14239.	1.1	12
97	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
98	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
99	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
100	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
101	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
102	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
103	Complex I of Trypanosomatidae: does it exist?. Trends in Parasitology, 2008, 24, 310-317.	1.5	71
104	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
105	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
106	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
107	Turnover of glycosomes during life-cycle differentiation ofTrypanosoma brucei. Autophagy, 2008, 4, 294-308.	4.3	101
108	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	4.3	2,064

#	Article	IF	Citations
109	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
110	The First Crystal Structure of Phosphofructokinase from a Eukaryote: Trypanosoma brucei. Journal of Molecular Biology, 2007, 366, 1185-1198.	2.0	27
111	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
112	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
113	Leishmania mexicana: Molecular cloning and characterization of enolase. Experimental Parasitology, 2007, 116, 241-251.	0.5	47
114	Horizontal gene transfer in trypanosomatids. Trends in Parasitology, 2007, 23, 470-476.	1.5	54
115	Molecular and biochemical characterization of novel glucokinases from Trypanosoma cruzi and Leishmania spp.. Molecular and Biochemical Parasitology, 2007, 156, 235-245.	0.5	43
116	Trypanosoma bruceiglycosomal ABC transporters: identification and membrane targeting. Molecular Membrane Biology, 2006, 23, 157-172.	2.0	48
117	Selective Irreversible Inhibition of Fructose 1,6-Bisphosphate Aldolase fromTrypanosoma brucei. Journal of Medicinal Chemistry, 2006, 49, 1499-1502.	2.9	37
118	Evolutionary analysis of fructose 2,6-bisphosphate metabolism. IUBMB Life, 2006, 58, 133-141.	1.5	20
119	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
120	Metabolic functions of glycosomes in trypanosomatids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1463-1477.	1.9	270
121	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
122	Autophagy and Related processes in Trypanosomatids: Insights from Genomic and Bioinformatic Analyses. Autophagy, 2006, 2, 107-118.	4.3	64
123	6-Phosphofructo-2-kinase and fructose-2,6-bisphosphatase in Trypanosomatidae. Molecular characterization, database searches, modelling studies and evolutionary analysis. FEBS Journal, 2005, 272, 3542-3560.	2.2	13
124	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
125	Peroxisomes, glyoxysomes and glycosomes (Review). Molecular Membrane Biology, 2005, 22, 133-145.	2.0	61
126	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

#	Article	IF	Citations
127	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
128	Leishmania mexicanaglucose-6-phosphate isomerase: crystallization, molecular-replacement solution and inhibition. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 915-919.	2.5	9
129	Biogenesis of peroxisomes and glycosomes: trypanosomatid glycosome assembly is a promising new drug target. FEMS Microbiology Reviews, 2004, 28, 603-643.	3.9	93
130	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
131	Molecular and biochemical characterization of hexokinase from Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2003, 126, 251-262.	0.5	88
132	Characterization of Trypanosoma brucei PEX14 and its role in the import of glycosomal matrix proteins. FEBS Journal, 2003, 270, 2059-2067.	0.2	49
133	Kinetic characterization, structure modelling studies and crystallization of Trypanosoma brucei enolase. FEBS Journal, 2003, 270, 3205-3213.	0.2	64
134	Evolution of energy metabolism and its compartmentation in Kinetoplastida. Parasites and Vectors, 2003, 2, 11.	1.9	153
135	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
136	The Multifunctional Isopropyl Alcohol Dehydrogenase of Phytomonas sp. Could Be the Result of a Horizontal Gene Transfer from a Bacterium to the Trypanosomatid Lineage. Journal of Biological Chemistry, 2003, 278, 36169-36175.	1.6	14
137	ATP Generation in the Trypanosoma brucei Procyclic Form. Journal of Biological Chemistry, 2003, 278, 49625-49635.	1.6	89
138	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
139	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
140	Aerobic Protistsâ€”Trypanosomatidae. , 2003, , 140-153.		0
141	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
142	Exploring the Active Site ofTrypanosoma bruceiPhosphofructokinase by Inhibition Studies:Â Specific Irreversible Inhibitionâ€. Biochemistry, 2002, 41, 10183-10193.	1.2	20
143	The putative effector-binding site ofLeishmania mexicanapyruvate kinase studied by site-directed mutagenesis. FEBS Letters, 2002, 514, 255-259.	1.3	16
144	Leishmania donovaniphosphofructokinase. FEBS Journal, 2002, 269, 3978-3989.	0.2	27

#	Article	IF	Citations
145	Protein structure-based design of anti-protozoal drugs. Journal of the Brazilian Chemical Society, 2002, 13, 843-844.	0.6	8
146	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
147	Glycolysis as a target for the design of new anti-trypanosome drugs. Drug Resistance Updates, 2001, 4, 50-65.	6.5	192
148	Roles of triosephosphate isomerase and aerobic metabolism in Trypanosoma brucei. Biochemical Journal, 2001, 357, 117-125.	1.7	115
149	Roles of triosephosphate isomerase and aerobic metabolism in Trypanosoma brucei. Biochemical Journal, 2001, 357, 117.	1.7	89
150	The expression and intracellular distribution of phosphoglycerate kinase isoenzymes in Trypanosoma cruzi. Molecular and Biochemical Parasitology, 2001, 118, 111-121.	0.5	26
151	Enzymes of carbohydrate metabolism as potential drug targets. International Journal for Parasitology, 2001, 31, 482-490.	1.3	70
152	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
153	Trypanosoma brucei contains a 2,3-bisphosphoglycerate independent phosphoglycerate mutase. FEBS Journal, 2000, 267, 1464-1472.	0.2	44
154	Glycerol kinase of Trypanosoma brucei. FEBS Journal, 2000, 267, 2323-2333.	0.2	39
155	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
156	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
157	Comparative study of Leishmania mexicana and Trypanosoma brucei NAD-dependent glycerol-3-phosphate dehydrogenase. Molecular and Biochemical Parasitology, 2000, 106, 83-91.	0.5	17
158	A Family of Highly Conserved Glycosomal 2-Hydroxyacid Dehydrogenases from Phytomonas sp.. Journal of Biological Chemistry, 2000, 275, 31833-31837.	1.6	8
159	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
160	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
161	Structures of Type 2 Peroxisomal Targeting Signals in Two Trypanosomatid Aldolases. Journal of Molecular Biology, 2000, 300, 697-707.	2.0	76
162	Using Metabolic Control Analysis To Improve The Selectivity and Effectiveness of Drugs Against Parasitic Diseases. , 2000, , 157-164.		0

#	Article	IF	Citations
163	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
164	What Controls Glycolysis in Bloodstream Form Trypanosoma brucei?. Journal of Biological Chemistry, 1999, 274, 14551-14559.	1.6	159
165	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
166	Cloning and characterization of Leishmania mexicana fructose-1,6-bisphosphate aldolase. Molecular and Biochemical Parasitology, 1999, 103, 279-283.	0.5	15
167	Molecular characterisation of Trypanosoma brucei alkyl dihydroxyacetone-phosphate synthase. Molecular and Biochemical Parasitology, 1999, 104, 55-66.	0.5	20
168	Cloning and analysis of the PTS-1 receptor in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1999, 104, 107-119.	0.5	36
169	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
170	Genetic nomenclature for Trypanosoma and Leishmania. Molecular and Biochemical Parasitology, 1998, 97, 221-224.	0.5	83
171	Purification and characterisation of the phosphoglycerate kinase isoenzymes of Trypanosoma brucei expressed in Escherichia coli. BBA - Proteins and Proteomics, 1998, 1386, 179-188.	2.1	19
172	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
173	The importance of dynamic light scattering in obtaining multiple crystal forms of trypanosoma brucei PGK. Protein Science, 1998, 7, 504-507.	3.1	18
174	Molecular analysis of phosphoglycerate kinase in Trypanoplasma borreli and the evolution of this enzyme in Kinetoplastida. Gene, 1998, 217, 91-99.	1.0	28
175	Pyruvate Kinase ofTrypanosoma brucei:Overexpression, Purification, and Functional Characterization of Wild-Type and Mutated Enzyme. Protein Expression and Purification, 1998, 13, 373-382.	0.6	19
176	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
177	Synergistic effects of substrate-induced conformational changes in phosphoglycerate kinase activation. Nature, 1997, 385, 275-278.	13.7	197
178	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
179	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
180	Metabolic compartmentation in African trypanosomes. Parasitology Today, 1996, 12, 465-471.	3.1	125

#	Article	IF	Citations
181	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
182	Regulation and control of compartmentalized glycolysis in bloodstream formTrypanosoma brucei. Journal of Bioenergetics and Biomembranes, 1995, 27, 513-525.	1.0	45
183	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
184	Glycosomal Glyceraldehyde-3-phosphate Dehydrogenase of Trypanosoma brucei and Trypanosoma cruzi: Expression in Escherichia coli, Purification, and Characterization of the Enzymes. Protein Expression and Purification, 1995, 6, 244-250.	0.6	19
185	Structure, function, and biogenesis of glycosomes in Kinetoplastida. Journal of Bioenergetics and Biomembranes, 1994, 26, 205-212.	1.0	62
186	The evolution of kinetoplastid glycosomes. Journal of Bioenergetics and Biomembranes, 1994, 26, 213-219.	1.0	36
187	Subcellular distribution and characterization of glucosephosphate isomerase in Leishmania mexicana mexicana. Molecular and Biochemical Parasitology, 1994, 67, 269-279.	0.5	27
188	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
189	Purification and Characterization of the Native and the Recombinant Leishmania Mexicana Glycosomal Glyceraldehyde-3-Phosphate Dehydrogenase. FEBS Journal, 1994, 225, 143-149.	0.2	17
190	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
191	Cloning and Sequence Analysis of the Gene Encoding Pyruvate Kinase in Trypanoplasma borelli. Biochemical and Biophysical Research Communications, 1994, 201, 727-732.	1.0	14
192	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
193	Overexpression of trypanosomal triosephosphate isomerase in Escherichia coli and characterisation of a dimer-interface mutant. FEBS Journal, 1993, 211, 703-710.	0.2	64
194	Evolution of glycolysis. Progress in Biophysics and Molecular Biology, 1993, 59, 105-235.	1.4	420
195	The glycosomes of the Kinetoplastida. Biochimie, 1993, 75, 231-234.	1.3	42
196	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
197	The electrochemical proton gradient in the bloodstream form of Trypanosoma brucei is dependent on the temperature. Molecular and Biochemical Parasitology, 1992, 55, 21-27.	0.5	19
198	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

#	Article	IF	Citations
199	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
200	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
201	Molecular cloning and analysis of two tandemly linked genes for pyruvate kinase of Trypanosoma brucei. FEBS Journal, 1991, 200, 19-27.	0.2	59
202	Organization, structure and evolutionary aspects of genes in trypanosomes. Biochemical Society Transactions, 1990, 18, 727-729.	1.6	9
203	Rational Design of Trypanocidal Drugs. , 1990, , 295-304.		0
204	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
205	Cloning of a 1.8 kb repeated sequence for the identification and comparison of Giardia intestinalis isolates. European Journal of Protistology, 1989, 24, 162-167.	0.5	10
206	The glycosome of trypanosomes: Properties and biogenesis of a microbody. Experimental Parasitology, 1989, 69, 310-315.	0.5	13
207	Biogenesis and Evolutionary Origin of Peroxisomes. , 1989, , 187-195.		1
208	Characterization of the genes for fructose-bisphosphate aldolase in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1988, 29, 65-75.	0.5	53
209	Compartmentation of glycolysis in trypanosomes: a potential target for new trypanocidal drugs. Biology of the Cell, 1988, 64, 157-184.	0.7	33
210	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
211	Evolutionary aspects of trypanosomes: Analysis of genes. Journal of Molecular Evolution, 1986, 24, 45-52.	0.8	30
212	ADP-ribosyl transferase activity in Trypanosoma brucei. Molecular and Biochemical Parasitology, 1985, 14, 251-259.	0.5	19
213	Trypanosomes of subgenus trypanozoon are diploid for housekeeping genes. Molecular and Biochemical Parasitology, 1985, 16, 231-242.	0.5	113
214	Characteristics of trypanosome variant antigen genes active in the tsetse fly. Nucleic Acids Research, 1985, 13, 4661-4676.	6.5	43
215	Trypanosome variant surface glycoprotein genes expressed early in infection. Journal of Molecular Biology, 1985, 182, 383-396.	2.0	65
216	Many trypanosome messenger RNAs share a common 5â€² terminal sequence. Nucleic Acids Research, 1984, 12, 3777-3790.	6.5	134

#	Article	IF	Citations
217	Chromosome rearrangements in trypanosoma brucei. Cell, 1984, 39, 213-221.	13.5	167
218	Growth of chromosome ends in multiplying trypanosomes. Nature, 1983, 303, 592-597.	13.7	250
219	The control of variant surface antigen synthesis in trypanosomes. FEBS Journal, 1983, 137, 383-389.	0.2	56
220	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
221	Telomere conversion in trypanosomes. Nucleic Acids Research, 1983, 11, 8149-8165.	6.5	80
222	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
223	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
224	Energy coupling of facilitated transport of inorganic ions in Rhodopseudomonas sphaeroides. Journal of Bacteriology, 1982, 150, 1183-1191.	1.0	33
225	Effects of the medium composition on the components of the electrochemical proton gradient in Rhodopseudomonas sphaeroides. Archives of Microbiology, 1981, 130, 357-361.	1.0	16
226	CYTOCHROME c DEFICIENT MUTANTS OFRHODOPSEUDOMONAS CAPSULATA. FEMS Microbiology Letters, 1980, 7, 327-331.	0.7	8
227	Light-induced spectral changes of carotenoids in chromatophores of Rhodopseudomonas sphaeroides. Archives of Biochemistry and Biophysics, 1980, 201, 403-410.	1.4	6
228	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
229	Immunochemical analysis of membrane vesicles and chromatophores ofRhodopseudomonas sphaeroidesby crossed immunoelectrophoresis. FEBS Letters, 1979, 107, 300-307.	1.3	47
230	The Electrochemical Proton Gradient Generated by Light in Membrane Vesicles and Chromatophores from Rhodopseudomonas sphaeroides. FEBS Journal, 1978, 85, 147-155.	0.2	59
231	Response of 9-Aminoacridine Fluorescence to Transmembrane pH-Gradients in Chromatophores from Rhodopseudomonas sphaeroides. FEBS Journal, 1978, 92, 381-387.	0.2	30
232	Structural and functional properties of chromatophores and membrane vesicles from Rhodepseudomonas sphaeroides. Biochimica Et Biophysica Acta - Biomembranes, 1978, 507, 353-368.	1.4	51
233	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
234	Nuclear and cell division in Bacillus subtilis: dormant nucleoids in stationary-phase cells and their activation. Journal of Bacteriology, 1975, 121, 1189-1199.	1.0	16