Fred R Opperdoes

List of Publications by Citations

205 papers	12,268 citations	62 h-index	103 g-index
212 ext. papers	13,054 ext. citations	4.8 avg, IF	5.89 L-index

#	Paper	IF	Citations
205	The genome of the African trypanosome Trypanosoma brucei. *Science*, **2005**, 309, 416-22	33.3	1323
204	Localization of nine glycolytic enzymes in a microbody-like organelle in Trypanosoma brucei: the glycosome. *FEBS Letters*, **1977**, 80, 360-4	3.8	485
203	Compartmentation of carbohydrate metabolism in trypanosomes. *Annual Review of Microbiology*, **1987**, 41, 127-51	17.5	441
202	The Trypanosoma cruzi proteome. *Science*, **2005**, 309, 473-6	33.3	322
201	Retooling Leishmania metabolism: from sand fly gut to human macrophage. *FASEB Journal*, **2008**, 22, 590-602	0.9	217
200	Receptor-mediated endocytosis in the bloodstream form of Trypanosoma brucei. *Journal of Protozoology*, **1987**, 34, 465-73		200
199	Glycolytic enzymes of Trypanosoma brucei. Simultaneous purification, intraglycosomal concentrations and physical properties. *FEBS Journal*, **1986**, 157, 441-53		187
198	Purification, morphometric analysis, and characterization of the glycosomes (microbodies) of the protozoan hemoflagellate Trypanosoma brucei. *Journal of Cell Biology*, **1984**, 98, 1178-84	7.3	186
197	Plant-like traits associated with metabolism of Trypanosoma parasites. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 1067-71	11.5	173
196	Glycolysis as a target for the design of new anti-trypanosome drugs. *Drug Resistance Updates*, **2001**, 4, 50-65	23.2	172
195	Glycolysis in bloodstream form Trypanosoma brucei can be understood in terms of the kinetics of the glycolytic enzymes. *Journal of Biological Chemistry*, **1997**, 272, 3207-15	5.4	171
194	Receptors for the host low density lipoproteins on the hemoflagellate Trypanosoma brucei: purification and involvement in the growth of the parasite. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 6753-7	11.5	156
193	What controls glycolysis in bloodstream form Trypanosoma brucei?. *Journal of Biological Chemistry*, **1999**, 274, 14551-9	5.4	142
192	Metabolism of Leishmania: proven and predicted. *Trends in Parasitology*, **2007**, 23, 149-58	6.4	138
191	Natural products active against African trypanosomes: a step towards new drugs. *Natural Product Reports*, **2004**, 21, 353-64	15.1	134
190	Evolution of energy metabolism and its compartmentation in Kinetoplastida. *Parasites and Vectors*, **2003**, 2, 11		132
189	Experimental and in silico analyses of glycolytic flux control in bloodstream form Trypanosoma brucei. *Journal of Biological Chemistry*, **2005**, 280, 28306-15	5.4	128

188	The occurrence of glycosomes (microbodies) in the promastigote stage of four major Leishmania species. *Molecular and Biochemical Parasitology*, **1984**, 13, 159-72	1.9	127
187	Ether--lipid (alkyl-phospholipid) metabolism and the mechanism of action of ether--lipid analogues in Leishmania. *Molecular and Biochemical Parasitology*, **2000**, 111, 1-14	1.9	123
186	In silico prediction of the glycosomal enzymes of Leishmania major and trypanosomes. *Molecular and Biochemical Parasitology*, **2006**, 147, 193-206	1.9	122
185	Subcellular fractionation of Trypanosoma brucei bloodstream forms with special reference to hydrolases. *FEBS Journal*, **1980**, 105, 163-75		119
184	Trypanosomatidae produce acetate via a mitochondrial acetate:succinate CoA transferase. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 3036-41	11.5	117
183	Localization of glycerol-3-phosphate oxidase in the mitochondrion and particulate NAD+-linked glycerol-3-phosphate dehydrogenase in the microbodies of the bloodstream form to Trypanosoma brucei. *FEBS Journal*, **1977**, 76, 29-39		111
182	Structure-based design of submicromolar, biologically active inhibitors of trypanosomatid glyceraldehyde-3-phosphate dehydrogenase. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 4273-8	11.5	110
181	Simultaneous purification of hexokinase, class-I fructose-bisphosphate aldolase, triosephosphate isomerase and phosphoglycerate kinase from Trypanosoma brucei. *FEBS Journal*, **1984**, 144, 475-83		104
180	Glycolysis in Trypanosoma brucei. *FEBS Journal*, **1980**, 103, 623-32		104
179	New approach to screening drugs for activity against African trypanosomes. *Nature*, **1977**, 265, 270-1	50.4	99
178	Characterization of the ysa pathogenicity locus in the chromosome of Yersinia enterocolitica and phylogeny analysis of type III secretion systems. *Journal of Molecular Evolution*, **2002**, 55, 37-51	3.1	95
177	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	1.9	93
176	Subcellular compartmentation of glycolytic intermediates in Trypanosoma brucei. *FEBS Journal*, **1981**, 118, 521-6		92
175	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, 10098-103	11.5	91
174	A comparison of the glycosomes (microbodies) isolated from Trypanosoma brucei bloodstream form and cultured procyclic trypomastigotes. *Molecular and Biochemical Parasitology*, **1984**, 12, 25-35	1.9	91
173	Effects of antimycin, glucose deprivation, and serum on cultures of neurons, astrocytes, and neuroblastoma cells. *Journal of Neurochemistry*, **1985**, 44, 143-8	6	90
172	New functions for parts of the Krebs cycle in procyclic Trypanosoma brucei, a cycle not operating as a cycle. *Journal of Biological Chemistry*, **2005**, 280, 12451-60	5.4	89
171	Characterization of carbohydrate metabolism and demonstration of glycosomes in a Phytomonas sp. isolated from Euphorbia characias. *Molecular and Biochemical Parasitology*, **1992**, 54, 185-99	1.9	87

170	Glucosephosphate isomerase from Trypanosoma brucei. Cloning and characterization of the gene and analysis of the enzyme. *FEBS Journal*, **1989**, 184, 455-64		86
169	Localization of malate dehydrogenase, adenylate kinase and glycolytic enzymes in glycosomes and the threonine pathway in the mitochondrion of cultured procyclic trypomastigotes of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1981**, 4, 291-309	1.9	86
168	Kinetic properties of triose-phosphate isomerase from Trypanosoma brucei brucei. A comparison with the rabbit muscle and yeast enzymes. *FEBS Journal*, **1987**, 168, 69-74		85
167	Biochemical peculiarities of trypanosomes, African and South American. *British Medical Bulletin*, **1985**, 41, 130-6	5.4	84
166	Particle-bound enzymes in the bloodstream form of Trypanosoma brucei. *FEBS Journal*, **1977**, 76, 21-8		83
165	Genetic nomenclature for Trypanosoma and Leishmania. *Molecular and Biochemical Parasitology*, **1998**, 97, 221-4	1.9	81
164	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	1.9	81
163	The crystal structure of the "open" and the "closed" conformation of the flexible loop of trypanosomal triosephosphate isomerase. *Proteins: Structure, Function and Bioinformatics*, **1991**, 10, 33-49	4.2	79
162	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, 34840-6	5.4	78
161	Stimulation of Trypanosoma brucei pyruvate kinase by fructose 2,6-bisphosphate. *FEBS Journal*, **1985**, 153, 403-6		78
160	Recent advances in trypanosomatid research: genome organization, expression, metabolism, taxonomy and evolution. *Parasitology*, **2019**, 146, 1-27	2.7	77
159	Leptomonas seymouri: Adaptations to the Dixenous Life Cycle Analyzed by Genome Sequencing, Transcriptome Profiling and Co-infection with Leishmania donovani. *PLoS Pathogens*, **2015**, 11, e1005127	7.6	77
158	Alkaloids from Cassytha filiformis and related aporphines: antitrypanosomal activity, cytotoxicity, and interaction with DNA and topoisomerases. *Planta Medica*, **2004**, 70, 407-13	3.1	76
157	The potential use of inhibitors of glycerol-3-phosphate oxidase for chemotherapy of African trypanosomiasis. *FEBS Letters*, **1976**, 62, 169-72	3.8	73
156	The adaptability of the active site of trypanosomal triosephosphate isomerase as observed in the crystal structures of three different complexes. *Proteins: Structure, Function and Bioinformatics*, **1991**, 10, 50-69	4.2	71
155	The cytosolic and glycosomal isoenzymes of glyceraldehyde-3-phosphate dehydrogenase in Trypanosoma brucei have a distant evolutionary relationship. *FEBS Journal*, **1991**, 198, 421-8		69
154	The phosphoglycerate kinases from Trypanosoma brucei. A comparison of the glycosomal and the cytosolic isoenzymes and their sensitivity towards suramin. *FEBS Journal*, **1987**, 162, 493-500		68
153	Trypanosoma brucei: an evaluation of salicylhydroxamic acid as a trypanocidal drug. *Experimental Parasitology*, **1976**, 40, 198-205	2.1	68

152	In vitro antitrypanosomal activity of ethnopharmacologically selected Beninese plants. *Journal of Ethnopharmacology*, **2004**, 91, 37-42	5	67
151	Molecular characterization of the first two enzymes of the pentose-phosphate pathway of Trypanosoma brucei. Glucose-6-phosphate dehydrogenase and 6-phosphogluconolactonase. *Journal of Biological Chemistry*, **2000**, 275, 27559-65	5.4	67
150	The presence of four iron-containing superoxide dismutase isozymes in trypanosomatidae: characterization, subcellular localization, and phylogenetic origin in Trypanosoma brucei. *Free Radical Biology and Medicine*, **2006**, 40, 210-25	7.8	66
149	Glycosomes may provide clues to the import of peroxisomal proteins. *Trends in Biochemical Sciences* , **1988**, 13, 255-60	10.3	66
148	Localization of the initial steps in alkoxyphospholipid biosynthesis in glycosomes (microbodies) of Trypanosoma brucei. *FEBS Letters*, **1984**, 169, 35-9	3.8	66
147	The cytosolic and glycosomal glyceraldehyde-3-phosphate dehydrogenase from Trypanosoma brucei. Kinetic properties and comparison with homologous enzymes. *FEBS Journal*, **1991**, 198, 429-35		65
146	Enzymes of carbohydrate metabolism as potential drug targets. *International Journal for Parasitology*, **2001**, 31, 482-90	4.3	63
145	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, 3605-13	8.3	63
144	Antitrypanosomal activity of triterpenoids and sterols from the leaves of Strychnos spinosa and related compounds. *Journal of Natural Products*, **2007**, 70, 1360-3	4.9	62
143	The uptake of the trypanocidal drug suramin in combination with low-density lipoproteins by Trypanosoma brucei and its possible mode of action. *Acta Tropica*, **1993**, 54, 237-50	3.2	62
142	The extraordinary mitochondrion and unusual citric acid cycle in Trypanosoma brucei. *Biochemical Society Transactions*, **2005**, 33, 967-71	5.1	60
141	Perturbation of sterol biosynthesis by itraconazole and ketoconazole in Leishmania mexicana mexicana infected macrophages. *Molecular and Biochemical Parasitology*, **1989**, 33, 123-34	1.9	60
140	Complex I of Trypanosomatidae: does it exist?. *Trends in Parasitology*, **2008**, 24, 310-7	6.4	59
139	Purification, localisation and characterisation of glucose-6-phosphate dehydrogenase of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1999**, 99, 21-32	1.9	59
138	Overexpression of trypanosomal triosephosphate isomerase in Escherichia coli and characterisation of a dimer-interface mutant. *FEBS Journal*, **1993**, 211, 703-10		58
137	A novel location for two enzymes of de novo pyrimidine biosynthesis in trypanosomes and Leishmania. *FEBS Letters*, **1981**, 128, 27-9	3.8	58
136	Carbohydrate Metabolism in African Trypanosomes, with Special Reference to the Glycosome **1986**, 183-224		58
135	Genome of Leptomonas pyrrhocoris: a high-quality reference for monoxenous trypanosomatids and new insights into evolution of Leishmania. *Scientific Reports*, **2016**, 6, 23704	4.9	57

134	Drug targeting with polyalkylcyanoacrylate nanoparticles: in vitro activity of primaquine-loaded nanoparticles against intracellular Leishmania donovani. *Annals of Tropical Medicine and Parasitology*, **1992**, 86, 41-9		57
133	The streamlined genome of Phytomonas spp. relative to human pathogenic kinetoplastids reveals a parasite tailored for plants. *PLoS Genetics*, **2014**, 10, e1004007	6	56
132	Synthesis and activity of inhibitors highly specific for the glycolytic enzymes from Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1993**, 59, 201-10	1.9	56
131	Comparative Aspects of Energy Metabolism in Plant Trypanosomatids. *Journal of Eukaryotic Microbiology*, **1997**, 44, 523-529	3.6	54
130	Comparative Metabolism of Free-living Bodo saltans and Parasitic Trypanosomatids. *Journal of Eukaryotic Microbiology*, **2016**, 63, 657-78	3.6	54
129	Kinetic characterization, structure modelling studies and crystallization of Trypanosoma brucei enolase. *FEBS Journal*, **2003**, 270, 3205-13		53
128	Effects of various metabolic conditions and of the trivalent arsenical melarsen oxide on the intracellular levels of fructose 2,6-bisphosphate and of glycolytic intermediates in Trypanosoma brucei. *FEBS Journal*, **1987**, 166, 653-61		53
127	Molecular cloning and analysis of two tandemly linked genes for pyruvate kinase of Trypanosoma brucei. *FEBS Journal*, **1991**, 200, 19-27		52
126	Involvement of the glycosome of Trypanosoma brucei in carbon dioxide fixation. *FEBS Letters*, **1982** , 143, 60-4	3.8	51
125	Inhibition of glyceraldehyde-3-phosphate dehydrogenase by phosphorylated epoxides and alpha-enones. *Biochemistry*, **1994**, 33, 214-20	3.2	48
124	Characterization of the genes for fructose-bisphosphate aldolase in Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1988**, 29, 65-75	1.9	48
123	Subcellular distribution of adenylate cyclase, cyclic-AMP phosphodiesterase, protein kinases and phosphoprotein phosphatase in Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1982**, 6, 287-95	1.9	46
122	The glycosomal ATP-dependent phosphofructokinase of Trypanosoma brucei must have evolved from an ancestral pyrophosphate-dependent enzyme. *FEBS Journal*, **1997**, 250, 698-704		45
121	Horizontal gene transfer in trypanosomatids. *Trends in Parasitology*, **2007**, 23, 470-6	6.4	45
120	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, 541-52	5.2	45
119	Molecular analysis of glyceraldehyde-3-phosphate dehydrogenase in Trypanoplasma borelli: an evolutionary scenario of subcellular compartmentation in kinetoplastida. *Journal of Molecular Evolution*, **1995**, 40, 443-54	3.1	45
118	Macrophage activation by polymeric nanoparticles of polyalkylcyanoacrylates: activity against intracellular Leishmania donovani associated with hydrogen peroxide production. *Pharmaceutical Research*, **1992**, 9, 782-7	4.5	45
117	Molecular analysis of the cytosolic and glycosomal glyceraldehyde-3-phosphate dehydrogenase in Leishmania mexicana. *Molecular and Biochemical Parasitology*, **1992**, 55, 115-26	1.9	45

116	Tissue distribution and evolution of fructosamine 3-kinase and fructosamine 3-kinase-related protein. *Journal of Biological Chemistry*, **2004**, 279, 46606-13	5.4	44
115	Role of acidic compartments in Trypanosoma brucei, with special reference to low-density lipoprotein processing. *Molecular and Biochemical Parasitology*, **1993**, 58, 223-32	1.9	44
114	Glyceraldehyde-phosphate dehydrogenase from Trypanosoma brucei. Comparison of the glycosomal and cytosolic isoenzymes. *FEBS Journal*, **1987**, 162, 501-7		44
113	Molecular identification of NAT8 as the enzyme that acetylates cysteine S-conjugates to mercapturic acids. *Journal of Biological Chemistry*, **2010**, 285, 18888-98	5.4	43
112	Metabolic adaptations of Leishmania donovani in relation to differentiation, drug resistance, and drug pressure. *Molecular Microbiology*, **2013**, 90, 428-42	4.1	42
111	Trypanosoma brucei contains a 2,3-bisphosphoglycerate independent phosphoglycerate mutase. *FEBS Journal*, **2000**, 267, 1464-72		42
110	Characterization of pyruvate kinase of Trypanosoma brucei and its role in the regulation of carbohydrate metabolism. *Molecular and Biochemical Parasitology*, **1991**, 47, 19-29	1.9	41
109	Selective Inhibition of Trypanosomal Triosephosphate Isomerase by a Thiopeptide. *Angewandte Chemie International Edition in English*, **1992**, 31, 328-330		41
108	Aerobic and anaerobic glucose metabolism of Phytomonas sp. isolated from Euphorbia characias. *Molecular and Biochemical Parasitology*, **1994**, 67, 321-31	1.9	40
107	The phospholipases of Trypanosoma brucei bloodstream forms and cultured procyclics. *Molecular and Biochemical Parasitology*, **1982**, 5, 309-19	1.9	40
106	Demonstration of glycosomes (microbodies) in the Bodonid flagellate Trypanoplasma borelli (Protozoa, Kinetoplastida). *Molecular and Biochemical Parasitology*, **1988**, 30, 155-63	1.9	39
105	Trypanosoma brucei: trypanocidal effect of salicylhydroxamic acid plus glycerol in infected rats. *Experimental Parasitology*, **1979**, 48, 126-34	2.1	39
104	The dihydroxyacetonephosphate pathway for biosynthesis of ether lipids in Leishmania mexicana promastigotes. *Molecular and Biochemical Parasitology*, **1997**, 89, 61-72	1.9	37
103	The glycosomes of the Kinetoplastida. *Biochimie*, **1993**, 75, 231-4	4.6	37
102	Subcellular distribution of trypanothione reductase in bloodstream and procyclic forms of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1991**, 48, 109-12	1.9	37
101	A rapid method purifies a glycoprotein of Mr 145,000 as the LDL receptor of Trypanosoma brucei brucei. *Biochemical and Biophysical Research Communications*, **1991**, 178, 185-91	3.4	37
100	Interaction of substituted hexose analogues with the Trypanosoma brucei hexose transporter. *Biochemical Pharmacology*, **2004**, 67, 459-67	6	36
99	Subcellular localisation of dihydrolipoamide dehydrogenase and detection of lipoic acid in bloodstream forms of Trypanosoma brucei. *FEBS Journal*, **1990**, 193, 91-5		36

98	Molecular identification of N-acetylaspartylglutamate synthase and beta-citrylglutamate synthase. *Journal of Biological Chemistry*, **2010**, 285, 29826-33	5.4	35
97	The evolutionary origin of glycosomes. *Parasitology Today*, **1991**, 7, 105-9		35
96	Comparison and evolutionary analysis of the glycosomal glyceraldehyde-3-phosphate dehydrogenase from different Kinetoplastida. *Journal of Molecular Evolution*, **1998**, 47, 728-38	3.1	34
95	An M(r) 145,000 low-density lipoprotein (LDL)-binding protein is conserved throughout the Kinetoplastida order. *Molecular and Biochemical Parasitology*, **1996**, 76, 43-56	1.9	34
94	Naegleria gruberi metabolism. *International Journal for Parasitology*, **2011**, 41, 915-24	4.3	33
93	Glycerol kinase of Trypanosoma brucei. Cloning, molecular characterization and mutagenesis. *FEBS Journal*, **2000**, 267, 2323-33		33
92	Cloning and analysis of the PTS-1 receptor in Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1999**, 104, 106-19	1.9	33
91	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, 331-8		33
90	Inhibition of the glycolytic enzymes in the trypanosome: an approach in the development of new leads in the therapy of parasitic diseases **1993**, 60, 347-65		33
89	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	1.9	32
88	Identification of 2-enoyl coenzyme A hydratase and NADP(+)-dependent 3-hydroxyacyl-CoA dehydrogenase activity in glycosomes of procyclic Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1996**, 82, 107-11	1.9	30
87	Sequencing, modeling, and selective inhibition of Trypanosoma brucei hexokinase. *Chemistry and Biology*, **2002**, 9, 839-47		29
86	Structure of the complex between trypanosomal triosephosphate isomerase and N-hydroxy-4-phosphono-butanamide: binding at the active site despite an "open" flexible loop conformation. *Protein Science*, **1992**, 1, 1578-84	6.3	29
85	TrypanoCyc: a community-led biochemical pathways database for Trypanosoma brucei. *Nucleic Acids Research*, **2015**, 43, D637-44	20.1	28
84	Molecular analysis of phosphoglycerate kinase in Trypanoplasma borreli and the evolution of this enzyme in kinetoplastida. *Gene*, **1998**, 217, 91-9	3.8	28
83	Organization, sequence and stage-specific expression of the phosphoglycerate kinase genes of Leishmania mexicana mexicana. *Molecular and Biochemical Parasitology*, **1997**, 90, 155-68	1.9	26
82	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, 1028-34	3.4	26
81	Uptake and turnover of glucose in Leishmania donovani. *Molecular and Biochemical Parasitology*, **1993**, 60, 313-21	1.9	26

80	Evolution of metabolic capabilities and molecular features of diplonemids, kinetoplastids, and euglenids. *BMC Biology*, **2020**, 18, 23	7.3	25
79	Biochemical characterization of stage-specific isoforms of aspartate aminotransferases from Trypanosoma cruzi and Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **2008**, 161, 12-20	1.9	25
78	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, 159-73	1.9	25
77	Alkyl dihydroxyacetone phosphate synthase in glycosomes of Trypanosoma brucei. *Lipids and Lipid Metabolism*, **1995**, 1257, 167-73		24
76	Localization of hydrolases in cultured procyclic trypomastigotes of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1981**, 4, 311-23	1.9	24
75	The malate dehydrogenase isoforms from Trypanosoma brucei: subcellular localization and differential expression in bloodstream and procyclic forms. *International Journal for Parasitology*, **2006**, 36, 295-307	4.3	23
74	Subcellular distribution and characterization of glucosephosphate isomerase in Leishmania mexicana mexicana. *Molecular and Biochemical Parasitology*, **1994**, 67, 269-79	1.9	23
73	Mutual adjustment of glucose uptake and metabolism in Trypanosoma brucei grown in a chemostat. *Journal of Bacteriology*, **1992**, 174, 1273-9	3.5	23
72	Comparative physiology of two protozoan parasites, Leishmania donovani and Trypanosoma brucei, grown in chemostats. *Journal of Bacteriology*, **1992**, 174, 2929-34	3.5	23
71	Marinamoeba thermophila, a new marine heterolobosean amoeba growing at 50 degrees C. *European Journal of Protistology*, **2009**, 45, 231-6	3.6	22
70	Comparative studies on the biochemical properties of the malic enzymes from Trypanosoma cruzi and Trypanosoma brucei. *FEMS Microbiology Letters*, **2011**, 314, 25-33	2.9	21
69	Localisation of a 3-hydroxy-3-methylglutaryl-coenzyme A reductase in the mitochondrial matrix of Trypanosoma brucei procyclics. *Zeitschrift Fur Naturforschung - Section C Journal of Biosciences*, **2000**, 55, 473-7	1.7	21
68	Molecular mechanisms of thermal resistance of the insect trypanosomatid Crithidia thermophila. *PLoS ONE*, **2017**, 12, e0174165	3.7	20
67	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, 1798-810		20
66	Kinetic properties of fructose bisphosphate aldolase from Trypanosoma brucei compared to aldolase from rabbit muscle and Staphylococcus aureus. *Molecular and Biochemical Parasitology*, **1991**, 47, 1-9	1.9	20
65	A phosphoglycerate kinase-related gene conserved between Trypanosoma brucei and Crithidia fasciculata. *Molecular and Biochemical Parasitology*, **1992**, 50, 69-78	1.9	20
64	Evolution of vertebrate glucokinase regulatory protein from a bacterial N-acetylmuramate 6-phosphate etherase. *Biochemical Journal*, **2009**, 423, 323-32	3.8	19
63	Molecular characterisation of Trypanosoma brucei alkyl dihydroxyacetone-phosphate synthase. *Molecular and Biochemical Parasitology*, **1999**, 104, 55-66	1.9	19

62	Trypanosoma brucei brucei: antigenic stability of its LDL receptor and immunological cross-reactivity with the LDL receptor of the mammalian host. *Experimental Parasitology*, **1992**, 74, 77-86	2.1	19
61	Some kinetic properties of pyruvate kinase from Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1992**, 50, 235-43	1.9	19
60	Preliminary crystallographic studies of triosephosphate isomerase from the blood parasite Trypanosoma brucei brucei. *Journal of Molecular Biology*, **1984**, 178, 487-90	6.5	19
59	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, 244-50	2	18
58	A chemostat study on proline uptake and metabolism of Leishmania donovani. *Journal of Protozoology*, **1992**, 39, 555-8		18
57	The electrochemical proton gradient in the bloodstream form of Trypanosoma brucei is dependent on the temperature. *Molecular and Biochemical Parasitology*, **1992**, 55, 21-7	1.9	18
56	Oramoeba fumarolia gen. nov., sp. nov., a new marine heterolobosean amoeboflagellate growing at 54 ℃. *European Journal of Protistology*, **2011**, 47, 16-23	3.6	17
55	Pyruvate kinase of Trypanosoma brucei: overexpression, purification, and functional characterization of wild-type and mutated enzyme. *Protein Expression and Purification*, **1998**, 13, 373-82	2	17
54	Possible localisation of dolichol-dependent mannosyltransferase of Trypanosoma brucei to the rough endoplasmic reticulum. *Molecular and Biochemical Parasitology*, **1994**, 63, 255-64	1.9	17
53	Secretion of sucrase by Leishmania donovani. *Journal of Eukaryotic Microbiology*, **1994**, 41, 228-31	3.6	17
52	A rapid method for the isolation of intact glycosomes from Trypanosoma brucei by Percoll -gradient centrifugation in a vertical rotor. *Molecular and Biochemical Parasitology*, **1981**, 3, 181-6	1.9	16
51	Purification and characterisation of the phosphoglycerate kinase isoenzymes of Trypanosoma brucei expressed in Escherichia coli. *BBA - Proteins and Proteomics*, **1998**, 1386, 179-88		15
50	The putative effector-binding site of Leishmania mexicana pyruvate kinase studied by site-directed mutagenesis. *FEBS Letters*, **2002**, 514, 255-9	3.8	15
49	Comparative study of Leishmania mexicana and Trypanosoma brucei NAD-dependent glycerol-3-phosphate dehydrogenase. *Molecular and Biochemical Parasitology*, **2000**, 106, 83-91	1.9	15
48	Purification and characterization of the native and the recombinant Leishmania mexicana glycosomal glyceraldehyde-3-phosphate dehydrogenase. *FEBS Journal*, **1994**, 225, 143-9		15
47	Inhibition of triosephosphate isomerase from Trypanosoma brucei with cyclic hexapeptides. *FEBS Journal*, **1992**, 207, 441-7		15
46	The glycosome of trypanosomes and Leishmania. *Biochemical Society Transactions*, **1990**, 18, 729-31	5.1	15
45	Comparative genomics of Leishmania (Mundinia). *BMC Genomics*, **2019**, 20, 726	4.5	14

44	Cloning and characterization of Leishmania mexicana fructose-1,6-bisphosphate aldolase. *Molecular and Biochemical Parasitology*, **1999**, 103, 279-83	1.9	14
43	Genus-specific biochemical markers for Phytomonas spp. *Molecular and Biochemical Parasitology*, **1997**, 90, 337-42	1.9	13
42	Competitive inhibition of Trypanosoma brucei phosphoglucose isomerase by D-arabinose-5-phosphate derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2000**, 15, 509-15		13
41	Specific inhibitors for the glycolytic enzymes of Trypanosoma brucei. *Bioorganic and Medicinal Chemistry*, **1995**, 3, 1423-7	3.4	13
40	Identification of a specific epitope on the extracellular domain of the LDL-receptor of Trypanosoma brucei brucei. *Molecular and Biochemical Parasitology*, **1994**, 63, 193-202	1.9	13
39	THE GLYCOSOME. *Annals of the New York Academy of Sciences*, **1982**, 386, 543-545	6.5	13
38	Oligomycin sensitivity of the mitochondrial ATPase as a marker for fly transmissability and the presence of functional kinetoplast DNA in African trypanosomes. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1976**, 55, 25-30		13
37	Purification and characterisation of a novel iso-propanol dehydrogenase from Phytomonas sp. *Molecular and Biochemical Parasitology*, **1997**, 85, 213-9	1.9	12
36	Cloning and sequence analysis of the gene encoding pyruvate kinase in Trypanoplasma borelli. *Biochemical and Biophysical Research Communications*, **1994**, 201, 727-32	3.4	12
35	Preliminary crystallographic studies of glycosomal glyceraldehyde phosphate dehydrogenase from Trypanosoma brucei brucei. *Journal of Molecular Biology*, **1987**, 194, 573-5	6.5	12
34	Involvement of lysosomes in the uptake of macromolecular material by bloodstream forms of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1982**, 6, 181-90	1.9	12
33	Lipids Are the Preferred Substrate of the Protist Naegleria gruberi, Relative of a Human Brain Pathogen. *Cell Reports*, **2018**, 25, 537-543.e3	10.6	12
32	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, 36169-75	5.4	11
31	6-Phosphofructo-2-kinase and fructose-2,6-bisphosphatase in Trypanosomatidae. Molecular characterization, database searches, modelling studies and evolutionary analysis. *FEBS Journal*, **2005**, 272, 3542-60	5.7	11
30	Changes in the phosphoproteome of brown adipose tissue during hibernation in the ground squirrel,. *Physiological Genomics*, **2017**, 49, 462-472	3.6	10
29	Characterisation of the two malate dehydrogenases from Phytomonas sp. Purification of the glycosomal isoenzyme. *Molecular and Biochemical Parasitology*, **1997**, 89, 51-9	1.9	10
28	The trypanosomatidae: amazing organisms. *Journal of Bioenergetics and Biomembranes*, **1994**, 26, 145-6	3.7	10
27	Chemostat cultures of Leishmania donovani promastigotes and Trypanosoma brucei procyclic trypomastigotes. *Molecular and Biochemical Parasitology*, **1991**, 45, 171-3	1.9	8

26	Biological properties of amidinium sulfinic and sulfonic acid derivatives: inhibition of glycolytic enzymes of Trypanosoma brucei and protective effect on cell growth. *European Journal of Medicinal Chemistry*, **1992**, 27, 799-808	6.8	8
25	Subcellular distribution and partial characterization of the cyclic AMP-binding proteins of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1984**, 10, 231-41	1.9	8
24	Understanding the functional difference between growth arrest-specific protein 6 and protein S: an evolutionary approach. *Open Biology*, **2014**, 4,	7	7
23	Selektive Inhibierung der trypanosomalen Triosephosphat-Isomerase durch ein Thiopeptid. *Angewandte Chemie*, **1992**, 104, 343-345	3.6	7
22	Effect of oxygen and glucose availability on the glycolytic rate in neuroblastoma cells under different conditions of culture. *Neurochemistry International*, **1984**, 6, 467-73	4.4	7
21	A family of highly conserved glycosomal 2-hydroxyacid dehydrogenases from Phytomonas sp. *Journal of Biological Chemistry*, **2000**, 275, 31833-7	5.4	6
20	Carbohydrate and Energy Metabolism in Aerobic Protozoa **1995**, 19-32		6
19	: Genomic insight into Parasites Physiology. *Current Genomics*, **2018**, 19, 150-156	2.6	6
18	Phylogenetic analysis using protein sequences313-342		5
17	In Vitro Culture of Phytomonas Sp. Isolated from Euphorbia characias. Metabolic Studies by 1H NMR. *Journal of Eukaryotic Microbiology*, **1995**, 42, 314-320	3.6	5
16	Digestive Enzymes, Receptor-Mediated Endocytosis and Their Role in the Nutrition of the Bloodstream-Form Trypanosome **1987**, 51-65		5
15	Chemical modification of fructose bisphosphate aldolase from Trypanosoma brucei compared to aldolase from rabbit muscle and Staphylococcus aureus. *Molecular and Biochemical Parasitology*, **1991**, 47, 11-7	1.9	4
14	Miconazole: an inhibitor of cyanide-insensitive respiration in Trypanosoma brucei. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **1980**, 74, 423-4	2	4
13	Nonstructural Protein L* Species Specificity Supports a Mouse Origin for Vilyuisk Human Encephalitis Virus. *Journal of Virology*, **2017**, 91,	6.6	3
12	Selective interaction of glycosomal enzymes from Trypanosoma brucei with hydrophobic cyclic hexapeptides. *Biochemical and Biophysical Research Communications*, **1993**, 195, 667-72	3.4	3
11	Impairment of growth of Leishmania donovani by Trypanosoma brucei during co-culture. *Parasitology*, **1992**, 105 (Pt 3), 393-8	2.7	2
10	Toward The Development Of New Drugs For Parasitic Diseases **1983**, 191-202		2
9	The Glycosome of Trypanosomatids. *Microbiology Monographs*, **2010**, 285-298	0.8	2

List of Publications

8	Genome Analysis of and spp., Closest Phylogenetic Relatives of , Highlights the Role of Amastins in Shaping Pathogenicity. *Genes*, **2021**, 12,	4.2	2
7	Receptor-Mediated Endocytosis in Trypanosoma Brucei **1992**, 475-480		1
6	Biogenesis and Evolutionary Origin of Peroxisomes **1989**, 187-195		1
5	The Glycosome of Leishmania as a Possible Target for Chemotherapeutic Attack **1989**, 859-863		1
4	A New Model Trypanosomatid, : Genomic Perception of Its " Pandoraea novymonadis" Endosymbiont. *MBio*, **2021**, 12, e0160621	7.8	0
3	Aerobic Protists□rypanosomatidae **2003**, 140-153		
2	Using Metabolic Control Analysis To Improve The Selectivity and Effectiveness of Drugs Against Parasitic Diseases **2000**, 157-164		
1	Rational Design of Trypanocidal Drugs **1990**, 295-304		