Emile Van Schaftingen

List of Publications by Citations

211 papers	12,389 citations	63 h-index	102 g-index
217 ext. papers	13,544 ext. citations	5.9 avg, IF	6.1 L-index

#	Paper	IF	Citations
211	A kinetic study of pyrophosphate: fructose-6-phosphate phosphotransferase from potato tubers. Application to a microassay of fructose 2,6-bisphosphate. *FEBS Journal*, **1982**, 129, 191-5		558
210	Vitamin C. Biosynthesis, recycling and degradation in mammals. *FEBS Journal*, **2007**, 274, 1-22	5.7	475
209	The glucose-6-phosphatase system. *Biochemical Journal*, **2002**, 362, 513-532	3.8	290
208	Mutations in PMM2, a phosphomannomutase gene on chromosome 16p13, in carbohydrate-deficient glycoprotein type I syndrome (Jaeken syndrome). *Nature Genetics*, **1997**, 16, 88-92	36.3	284
207	Phosphomannomutase deficiency is a cause of carbohydrate-deficient glycoprotein syndrome type I. *FEBS Letters*, **1995**, 377, 318-20	3.8	264
206	Inhibition of fructose-1,6-bisphosphatase by fructose 2,6-biphosphate. *Proceedings of the National Academy of Sciences of the United States of America*, **1981**, 78, 2861-3	11.5	237
205	A new class of phosphotransferases phosphorylated on an aspartate residue in an amino-terminal DXDX(T/V) motif. *Journal of Biological Chemistry*, **1998**, 273, 14107-12	5.4	214
204	Metabolite damage and its repair or pre-emption. *Nature Chemical Biology*, **2013**, 9, 72-80	11.7	207
203	Short-term control of glucokinase activity: role of a regulatory protein. *FASEB Journal*, **1994**, 8, 414-9	0.9	201
202	The glucose-6-phosphatase system. *Biochemical Journal*, **2002**, 362, 513-32	3.8	199
201	Multiple phenotypes in phosphoglucomutase 1 deficiency. *New England Journal of Medicine*, **2014**, 370, 533-42	59.2	197
200	Control of liver 6-phosphofructokinase by fructose 2,6-bisphosphate and other effectors. *Proceedings of the National Academy of Sciences of the United States of America*, **1981**, 78, 3483-6	11.5	191
199	Control of the fructose-6-phosphate/fructose 1,6-bisphosphate cycle in isolated hepatocytes by glucose and glucagon. Role of a low-molecular-weight stimulator of phosphofructokinase. *Biochemical Journal*, **1980**, 192, 887-95	3.8	189
198	A broad spectrum of clinical presentations in congenital disorders of glycosylation I: a series of 26 cases. *Journal of Medical Genetics*, **2001**, 38, 14-9	5.8	182
197	Sequence of a putative glucose 6-phosphate translocase, mutated in glycogen storage disease type Ib. *FEBS Letters*, **1997**, 419, 235-8	3.8	165
196	3-Phosphoglycerate dehydrogenase deficiency: an inborn error of serine biosynthesis. *Archives of Disease in Childhood*, **1996**, 74, 542-5	2.2	158
195	IDH2 mutations in patients with D-2-hydroxyglutaric aciduria. *Science*, **2010**, 330, 336	33.3	152

194	Phosphomannose isomerase deficiency: a carbohydrate-deficient glycoprotein syndrome with hepatic-intestinal presentation. *American Journal of Human Genetics*, **1998**, 62, 1535-9	11	145
193	A protein from rat liver confers to glucokinase the property of being antagonistically regulated by fructose 6-phosphate and fructose 1-phosphate. *FEBS Journal*, **1989**, 179, 179-84		142
192	A gene encoding a putative FAD-dependent L-2-hydroxyglutarate dehydrogenase is mutated in L-2-hydroxyglutaric aciduria. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 16849-54	11.5	136
191	Congenital disorders of glycosylation (CDG): Quo vadis?. *European Journal of Medical Genetics*, **2018** , 61, 643-663	2.6	132
190	Mutations in the D-2-hydroxyglutarate dehydrogenase gene cause D-2-hydroxyglutaric aciduria. *American Journal of Human Genetics*, **2005**, 76, 358-60	11	130
189	Fructose-2,6-bisphosphatase from rat liver. *FEBS Journal*, **1982**, 124, 143-9		130
188	The mechanism by which glucose increases fructose 2,6-bisphosphate concentration in Saccharomyces cerevisiae. A cyclic-AMP-dependent activation of phosphofructokinase 2. *FEBS Journal*, **1984**, 145, 187-93		129
187	TMEM165 deficiency causes a congenital disorder of glycosylation. *American Journal of Human Genetics*, **2012**, 91, 15-26	11	124
186	Lack of homozygotes for the most frequent disease allele in carbohydrate-deficient glycoprotein syndrome type 1A. *American Journal of Human Genetics*, **1998**, 62, 542-50	11	124
185	Molecular identification of carnosine synthase as ATP-grasp domain-containing protein 1 (ATPGD1). *Journal of Biological Chemistry*, **2010**, 285, 9346-9356	5.4	122
184	The glucose sensor protein glucokinase is expressed in glucagon-producing alpha-cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 7036-41	11.5	120
183	Identification, cloning, and heterologous expression of a mammalian fructosamine-3-kinase. *Diabetes*, **2000**, 49, 1627-34	0.9	117
182	Molecular identification of aspartate N-acetyltransferase and its mutation in hypoacetylaspartia. *Biochemical Journal*, **2009**, 425, 127-36	3.8	116
181	Phosphofructokinase 2: the enzyme that forms fructose 2,6-bisphosphate from fructose 6-phosphate and ATP. *Biochemical and Biophysical Research Communications*, **1981**, 101, 1078-84	3.4	106
180	Newly characterized Golgi-localized family of proteins is involved in calcium and pH homeostasis in yeast and human cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6859-64	11.5	105
179	A gene on chromosome 11q23 coding for a putative glucose- 6-phosphate translocase is mutated in glycogen-storage disease types Ib and Ic. *American Journal of Human Genetics*, **1998**, 63, 976-83	11	103
178	Identification of a pathway for the utilization of the Amadori product fructoselysine in Escherichia coli. *Journal of Biological Chemistry*, **2002**, 277, 42523-9	5.4	100
177	Inactivation of phosphofructokinase 2 by cyclic AMP - dependent protein kinase. *Biochemical and Biophysical Research Communications*, **1981**, 103, 362-8	3.4	99

176	RNAi screening in glioma stem-like cells identifies PFKFB4 as a key molecule important for cancer cell survival. *Oncogene*, **2012**, 31, 3235-43	9.2	98
175	Fructosamine 3-kinase is involved in an intracellular deglycation pathway in human erythrocytes. *Biochemical Journal*, **2002**, 365, 801-8	3.8	93
174	Deficiency in SLC25A1, encoding the mitochondrial citrate carrier, causes combined D-2- and L-2-hydroxyglutaric aciduria. *American Journal of Human Genetics*, **2013**, 92, 627-31	11	92
173	Mechanistic studies of phosphoserine phosphatase, an enzyme related to P-type ATPases. *Journal of Biological Chemistry*, **1999**, 274, 33985-90	5.4	92
172	The putative glucose 6-phosphate translocase gene is mutated in essentially all cases of glycogen storage disease type I non-a. *European Journal of Human Genetics*, **1999**, 7, 717-23	5.3	91
171	The mechanism by which rat liver glucokinase is inhibited by the regulatory protein. *FEBS Journal*, **1990**, 191, 483-9		91
170	Phosphoserine aminotransferase deficiency: a novel disorder of the serine biosynthesis pathway. *American Journal of Human Genetics*, **2007**, 80, 931-7	11	90
169	Fructose 2,6-bisphosphate. *Advances in Enzymology and Related Areas of Molecular Biology*, **1987**, 59, 315-95		89
168	Cloning, sequencing and expression of rat liver 3-phosphoglycerate dehydrogenase. *Biochemical Journal*, **1997**, 323 (Pt 2), 365-70	3.8	88
167	Identification of a dehydrogenase acting on D-2-hydroxyglutarate. *Biochemical Journal*, **2004**, 381, 35-42	3.8	87
166	Synthesis of a stimulator of phosphofructokinase, most likely fructose 2,6-bisphosphate, from phosphoric acid and fructose 6-phosphoric acid. *Biochemical and Biophysical Research Communications*, **1980**, 96, 1524-31	3.4	86
165	Formation of fructose 2,6-bisphosphate from fructose 1,6-bisphosphate by intramolecular cyclisation followed by alkaline hydrolysis. *FEBS Journal*, **1981**, 117, 319-23		85
164	Pathway and regulation of erythritol formation in Leuconostoc oenos. *Journal of Bacteriology*, **1993** , 175, 3941-8	3.5	84
163	High residual activity of PMM2 in patientsSfibroblasts: possible pitfall in the diagnosis of CDG-Ia (phosphomannomutase deficiency). *American Journal of Human Genetics*, **2001**, 68, 347-54	11	82
162	Extremely conserved ATP- or ADP-dependent enzymatic system for nicotinamide nucleotide repair. *Journal of Biological Chemistry*, **2011**, 286, 41246-41252	5.4	80
161	ISPD produces CDP-ribitol used by FKTN and FKRP to transfer ribitol phosphate onto □dystroglycan. *Nature Communications*, **2016**, 7, 11534	17.4	80
160	Stimulation of Trypanosoma brucei pyruvate kinase by fructose 2,6-bisphosphate. *FEBS Journal*, **1985**, 153, 403-6		78
159	Insights into the structure and regulation of glucokinase from a novel mutation (V62M), which causes maturity-onset diabetes of the young. *Journal of Biological Chemistry*, **2005**, 280, 14105-13	5.4	76

158	The regulatory protein of liver glucokinase. *Advances in Enzyme Regulation*, **1992**, 32, 133-48		74
157	Fructose 2,6-bisphosphate in yeast. *Biochemical and Biophysical Research Communications*, **1981**, 103, 1281-7	3.4	73
156	Competitive inhibition of liver glucokinase by its regulatory protein. *FEBS Journal*, **1991**, 200, 545-51		71
155	Beneficial effects of L-serine and glycine in the management of seizures in 3-phosphoglycerate dehydrogenase deficiency. *Annals of Neurology*, **1998**, 44, 261-5	9.4	70
154	Glucokinase regulatory protein is essential for the proper subcellular localisation of liver glucokinase. *FEBS Letters*, **1999**, 456, 332-8	3.8	70
153	The regulatory protein of glucokinase. *Biochemical Society Transactions*, **1997**, 25, 136-40	5.1	69
152	Stimulation of glucose phosphorylation by fructose in isolated rat hepatocytes. *FEBS Journal*, **1989**, 179, 173-7		67
151	Fructose 2,6-bisphosphate. *Trends in Biochemical Sciences*, **1982**, 7, 329-331	10.3	67
150	Identification of fructosamine residues deglycated by fructosamine-3-kinase in human hemoglobin. *Journal of Biological Chemistry*, **2004**, 279, 27613-20	5.4	65
149	PMM (PMM1), the human homologue of SEC53 or yeast phosphomannomutase, is localized on chromosome 22q13. *Genomics*, **1997**, 40, 41-7	4.3	63
148	Regulation of glucokinase by a fructose-1-phosphate-sensitive protein in pancreatic islets. *FEBS Journal*, **1990**, 190, 539-45		62
147	The stimulation of yeast phosphofructokinase by fructose 2,6-bisphosphate. *FEBS Letters*, **1982**, 143, 137-40	3.8	62
146	A conserved phosphatase destroys toxic glycolytic side products in mammals and yeast. *Nature Chemical Biology*, **2016**, 12, 601-7	11.7	61
145	Enzymatic repair of Amadori products. *Amino Acids*, **2012**, 42, 1143-50	3.5	59
144	Increased protein glycation in fructosamine 3-kinase-deficient mice. *Biochemical Journal*, **2006**, 399, 257-68	5.8	59
143	Inhibition of phosphomannose isomerase by fructose 1-phosphate: an explanation for defective N-glycosylation in hereditary fructose intolerance. *Pediatric Research*, **1996**, 40, 764-6	3.2	59
142	Effectors of the regulatory protein acting on liver glucokinase: a kinetic investigation. *FEBS Journal*, **1991**, 200, 553-61		58
141	Metabolite proofreading, a neglected aspect of intermediary metabolism. *Journal of Inherited Metabolic Disease*, **2013**, 36, 427-34	5.4	56

140	Investigation on the mechanism by which fructose, hexitols and other compounds regulate the translocation of glucokinase in rat hepatocytes. *Biochemical Journal*, **1997**, 321 (Pt 1), 239-46	3.8	54
139	Fructose 1-phosphate and the regulation of glucokinase activity in isolated hepatocytes. *FEBS Journal*, **1990**, 192, 283-9		54
138	Purification and properties of phosphofructokinase 2/fructose 2,6-bisphosphatase from chicken liver and from pigeon muscle. *FEBS Journal*, **1986**, 159, 359-65		54
137	Fructose 2,6-bisphosphate in relation with the resumption of metabolic activity in slices of Jerusalem artichoke tubers. *FEBS Letters*, **1983**, 164, 195-200	3.8	54
136	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
135	Characterization of phosphofructokinase 2 and of enzymes involved in the degradation of fructose 2,6-bisphosphate in yeast. *FEBS Journal*, **1988**, 171, 599-608		53
134	Effect of mutations found in carbohydrate-deficient glycoprotein syndrome type IA on the activity of phosphomannomutase 2. *FEBS Letters*, **1999**, 452, 319-22	3.8	52
133	Kinetic properties and tissular distribution of mammalian phosphomannomutase isozymes. *Biochemical Journal*, **1999**, 339, 201-207	3.8	52
132	Human L-3-phosphoserine phosphatase: sequence, expression and evidence for a phosphoenzyme intermediate. *FEBS Letters*, **1997**, 408, 281-4	3.8	51
131	Identification of fructose 6-phosphate- and fructose 1-phosphate-binding residues in the regulatory protein of glucokinase. *Journal of Biological Chemistry*, **2002**, 277, 8466-73	5.4	50
130	Identification of the cDNA encoding human 6-phosphogluconolactonase, the enzyme catalyzing the second step of the pentose phosphate pathway(1). *FEBS Letters*, **1999**, 459, 223-6	3.8	49
129	Failure to eliminate a phosphorylated glucose analog leads to neutropenia in patients with G6PT and G6PC3 deficiency. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1241-1250	11.5	48
128	Amino acid conservation in animal glucokinases. Identification of residues implicated in the interaction with the regulatory protein. *Journal of Biological Chemistry*, **1996**, 271, 6292-7	5.4	47
127	Presence of a fructose-2,6-bisphosphate-insensitive pyrophosphate: fructose-6-phosphate phosphotransferase in the anaerobic protozoa Tritrichomonas foetus, Trichomonas vaginalis and Isotricha prostoma. *Molecular and Biochemical Parasitology*, **1989**, 37, 183-90	1.9	46
126	Mutations in GMPPA cause a glycosylation disorder characterized by intellectual disability and autonomic dysfunction. *American Journal of Human Genetics*, **2013**, 93, 727-34	11	45
125	Binding of mannose-binding lectin to fructosamines: a potential link between hyperglycaemia and complement activation in diabetes. *Diabetes/Metabolism Research and Reviews*, **2010**, 26, 254-60	7.5	44
124	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
123	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

122	A mammalian protein homologous to fructosamine-3-kinase is a ketosamine-3-kinase acting on psicosamines and ribulosamines but not on fructosamines. *Diabetes*, **2003**, 52, 2888-95	0.9	42
121	Purification and properties of spinach leaf phosphofructokinase 2/fructose 2,6-bisphosphatase. *FEBS Journal*, **1986**, 161, 351-7		41
120	Molecular identification of hydroxylysine kinase and of ammoniophospholyases acting on 5-phosphohydroxy-L-lysine and phosphoethanolamine. *Journal of Biological Chemistry*, **2012**, 287, 7246-55	5.4	40
119	Molecular identification of omega-amidase, the enzyme that is functionally coupled with glutamine transaminases, as the putative tumor suppressor Nit2. *Biochimie*, **2009**, 91, 1066-71	4.6	40
118	How calcium inhibits the magnesium-dependent enzyme human phosphoserine phosphatase. *FEBS Journal*, **2004**, 271, 3421-7		40
117	Treating neutropenia and neutrophil dysfunction in glycogen storage disease type Ib with an SGLT2 inhibitor. *Blood*, **2020**, 136, 1033-1043	2.2	39
116	Magnesium-dependent phosphatase-1 is a protein-fructosamine-6-phosphatase potentially involved in glycation repair. *Journal of Biological Chemistry*, **2006**, 281, 18378-85	5.4	39
115	Carbohydrate-deficient glycoprotein syndrome type IA (phosphomannomutase-deficiency). *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1999**, 1455, 155-65	6.9	39
114	Structure of the gene mutated in glycogen storage disease type Ib. *Gene*, **1999**, 227, 189-95	3.8	39
113	Demonstration of glycosomes (microbodies) in the Bodonid flagellate Trypanoplasma borelli (Protozoa, Kinetoplastida). *Molecular and Biochemical Parasitology*, **1988**, 30, 155-63	1.9	39
112	Ethylmalonyl-CoA decarboxylase, a new enzyme involved in metabolite proofreading. *Journal of Biological Chemistry*, **2011**, 286, 42992-3003	5.4	38
111	Identification of 3-deoxyglucosone dehydrogenase as aldehyde dehydrogenase 1A1 (retinaldehyde dehydrogenase 1). *Biochimie*, **2007**, 89, 369-73	4.6	38
110	A mouse model of L-2-hydroxyglutaric aciduria, a disorder of metabolite repair. *PLoS ONE*, **2015**, 10, e0119540	3.7	37
109	Evidence for glucose-6-phosphate transport in rat liver microsomes. *FEBS Letters*, **2002**, 517, 257-60	3.8	36
108	Erythritol feeds the pentose phosphate pathway via three new isomerases leading to D-erythrose-4-phosphate in Brucella. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17815-20	11.5	35
107	Molecular identification of N-acetylaspartylglutamate synthase and beta-citrylglutamate synthase. *Journal of Biological Chemistry*, **2010**, 285, 29826-33	5.4	35
106	Molecular identification of mammalian phosphopentomutase and glucose-1,6-bisphosphate synthase, two members of the alpha-D-phosphohexomutase family. *Journal of Biological Chemistry*, **2007**, 282, 31844-51	5.4	35
105	acs1 of Haemophilus influenzae type a capsulation locus region II encodes a bifunctional ribulose 5-phosphate reductase- CDP-ribitol pyrophosphorylase. *Journal of Bacteriology*, **1999**, 181, 2001-7	3.5	35

104	Molecular identification of pseudouridine-metabolizing enzymes. *Journal of Biological Chemistry*, **2008**, 283, 25238-25246	5.4	34
103	Identification of the sequence encoding N-acetylneuraminate-9-phosphate phosphatase. *Glycobiology*, **2006**, 16, 165-72	5.8	34
102	Glycerol formation after the breaking of dormancy of Phycomyces blakesleeanus spores. Role of an interconvertible glycerol-3-phosphatase. *FEBS Journal*, **1985**, 148, 399-404		34
101	Comparison of PMM1 with the phosphomannomutases expressed in rat liver and in human cells. *FEBS Letters*, **1997**, 411, 251-4	3.8	33
100	Prenatal diagnosis in CDG1 families: beware of heterogeneity. *European Journal of Human Genetics*, **1998**, 6, 99-104	5.3	33
99	Mutations responsible for 3-phosphoserine phosphatase deficiency. *European Journal of Human Genetics*, **2004**, 12, 163-6	5.3	33
98	Fructose administration stimulates glucose phosphorylation in the livers of anesthetized rats. *FASEB Journal*, **1991**, 5, 326-30	0.9	33
97	Identification of TP53-induced glycolysis and apoptosis regulator (TIGAR) as the phosphoglycolate-independent 2,3-bisphosphoglycerate phosphatase. *Biochemical Journal*, **2014**, 458, 439-48	3.8	32
96	Identification of the gene encoding hydroxyacid-oxoacid transhydrogenase, an enzyme that metabolizes 4-hydroxybutyrate. *FEBS Letters*, **2006**, 580, 2347-50	3.8	32
95	Plant ribulosamine/erythrulosamine 3-kinase, a putative protein-repair enzyme. *Biochemical Journal* , **2005**, 388, 795-802	3.8	32
94	C7orf10 encodes succinate-hydroxymethylglutarate CoA-transferase, the enzyme that converts glutarate to glutaryl-CoA. *Journal of Inherited Metabolic Disease*, **2014**, 37, 13-9	5.4	31
93	Identification of enzymes acting on alpha-glycated amino acids in Bacillus subtilis. *FEBS Letters*, **2004**, 577, 469-72	3.8	31
92	Effect of benzoate on the metabolism of fructose 2,6-bisphosphate in yeast. *FEBS Journal*, **1986**, 154, 141-5		31
91	HDHD1, which is often deleted in X-linked ichthyosis, encodes a pseudouridine-5Sphosphatase. *Biochemical Journal*, **2010**, 431, 237-44	3.8	30
90	Pyruvate kinase from Trichomonas vaginalis, an allosteric enzyme stimulated by ribose 5-phosphate and glycerate 3-phosphate. *Molecular and Biochemical Parasitology*, **1992**, 54, 13-20	1.9	30
89	D-glycerate kinase deficiency as a cause of D-glyceric aciduria. *FEBS Letters*, **1989**, 243, 127-31	3.8	30
88	On the mechanism of inhibition of neutral liver fructose 1,6-bisphosphatase by fructose 2,6-bisphosphate. *FEBS Journal*, **1983**, 134, 269-73		30
87	Metabolite Repair Enzymes Control Metabolic Damage in Glycolysis. *Trends in Biochemical Sciences*, **2020**, 45, 228-243	10.3	29

86	The stimulation of phosphofructokinase from human erythrocytes by fructose 2,6-bisphosphate. *FEBS Letters*, **1982**, 143, 141-3	3.8	28
85	Phosphate dependency of phosphofructokinase 2. *FEBS Journal*, **1985**, 148, 155-9		27
84	Occurrence and subcellular distribution of the NADPHX repair system in mammals. *Biochemical Journal*, **2014**, 460, 49-58	3.8	26
83	Mutations in phenotypically mild D-2-hydroxyglutaric aciduria. *Annals of Neurology*, **2005**, 58, 626-30	9.4	26
82	Glucose-6-phosphatase mutation G188R confers an atypical glycogen storage disease type 1b phenotype. *Pediatric Research*, **2000**, 48, 329-34	3.2	26
81	Fructosamine 3-kinase-related protein and deglycation in human erythrocytes. *Biochemical Journal*, **2004**, 382, 137-43	3.8	25
80	Cloning and sequencing of rat liver carboxylesterase ES-4 (microsomal palmitoyl-CoA hydrolase). *Biochemical Journal*, **1996**, 313 (Pt 3), 821-6	3.8	25
79	Nit1 is a metabolite repair enzyme that hydrolyzes deaminated glutathione. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3233-E3242	11.5	24
78	Metabolite proofreading in carnosine and homocarnosine synthesis: molecular identification of PM20D2 as β-alanyl-lysine dipeptidase. *Journal of Biological Chemistry*, **2014**, 289, 19726-36	5.4	24
77	2-Keto-4-methylthiobutyrate, an intermediate in the methionine salvage pathway, is a good substrate for CtBP1. *Biochemical and Biophysical Research Communications*, **2007**, 352, 903-6	3.4	24
76	High-resolution structure of human phosphoserine phosphatase in open conformation. *Acta Crystallographica Section D: Biological Crystallography*, **2003**, 59, 971-7		24
75	How many forms of glycogen storage disease type I?. *European Journal of Pediatrics*, **2000**, 159, 314-8	4.1	24
74	Structure and configuration of fructose 2,6-bisphosphate by 31P and 13C nuclear magnetic resonance. *FEBS Journal*, **1981**, 117, 325-7		24
73	Limitations of galactose therapy in phosphoglucomutase 1 deficiency. *Molecular Genetics and Metabolism Reports*, **2017**, 13, 33-40	1.8	23
72	Mammalian phosphomannomutase PMM1 is the brain IMP-sensitive glucose-1,6-bisphosphatase. *Journal of Biological Chemistry*, **2008**, 283, 33988-93	5.4	23
71	Many fructosamine 3-kinase homologues in bacteria are ribulosamine/erythrulosamine 3-kinases potentially involved in protein deglycation. *FEBS Journal*, **2007**, 274, 4360-74	5.7	23
70	Cloning and expression of a Xenopus liver cDNA encoding a fructose-phosphate-insensitive regulatory protein of glucokinase. *FEBS Journal*, **1994**, 225, 43-51		23
69	Conversion of fructose to glucose in the rabbit small intestine. A reappraisal of the direct pathway. *FEBS Journal*, **1993**, 213, 721-6		23

68	Identification of glucoselysine-6-phosphate deglycase, an enzyme involved in the metabolism of the fructation product glucoselysine. *Biochemical Journal*, **2005**, 392, 263-9	3.8	22
67	Cloning and sequencing of rat liver cDNAs encoding the regulatory protein of glucokinase. *FEBS Letters*, **1993**, 321, 111-5	3.8	22
66	NAT6 acetylates the N-terminus of different forms of actin. *FEBS Journal*, **2018**, 285, 3299-3316	5.7	21
65	Determinants of the enzymatic activity and the subcellular localization of aspartate N-acetyltransferase. *Biochemical Journal*, **2012**, 441, 105-12	3.8	21
64	The prenatal diagnosis of congenital disorders of glycosylation (CDG). *Prenatal Diagnosis*, **2004**, 24, 114-6	3.2	21
63	Rapid stimulation of free glucuronate formation by non-glucuronidable xenobiotics in isolated rat hepatocytes. *Journal of Biological Chemistry*, **2003**, 278, 36328-33	5.4	21
62	Analysis of the cooperativity of human beta-cell glucokinase through the stimulatory effect of glucose on fructose phosphorylation. *Journal of Biological Chemistry*, **2001**, 276, 3872-8	5.4	21
61	Molecular identification of Ecitrylglutamate hydrolase as glutamate carboxypeptidase 3. *Journal of Biological Chemistry*, **2011**, 286, 38220-38230	5.4	20
60	Fructoselysine 3-epimerase, an enzyme involved in the metabolism of the unusual Amadori compound psicoselysine in Escherichia coli. *Biochemical Journal*, **2004**, 378, 1047-52	3.8	20
59	Is the glucose-induced stimulation of glycolysis in pancreatic islets attributable to activation of phosphofructokinase by fructose 2,6-bisphosphate?. *FEBS Letters*, **1981**, 125, 217-9	3.8	20
58	A serine synthesis defect presenting with a Charcot-Marie-Tooth-like polyneuropathy. *Archives of Neurology*, **2012**, 69, 908-11		19
57	Evolution of vertebrate glucokinase regulatory protein from a bacterial N-acetylmuramate 6-phosphate etherase. *Biochemical Journal*, **2009**, 423, 323-32	3.8	19
56	Characterization of mammalian sedoheptulokinase and mechanism of formation of erythritol in sedoheptulokinase deficiency. *FEBS Letters*, **2008**, 582, 3330-4	3.8	19
55	Glucuronate, the precursor of vitamin C, is directly formed from UDP-glucuronate in liver. *FEBS Journal*, **2006**, 273, 1516-27	5.7	19
54	Identification, purification and separation of different isozymes of NADP-specific malic enzyme from Tritrichomonas foetus. *Molecular and Biochemical Parasitology*, **1993**, 57, 253-60	1.9	19
53	Kinetic properties and tissular distribution of mammalian phosphomannomutase isozymes. *Biochemical Journal*, **1999**, 339, 201	3.8	18
52	Coenzyme specificity of mammalian liver D-glycerate dehydrogenase. *FEBS Journal*, **1989**, 186, 355-9		18
51	Presence of fructokinase in pancreatic islets. *FEBS Letters*, **1989**, 255, 175-8	3.8	18

50	Fructosamine 3-kinase and other enzymes involved in protein deglycation. *Advances in Enzyme Regulation*, **2007**, 47, 261-9		17
49	Fructose 2,6-bisphosphate hydrolyzing enzymes in higher plants. *Plant Physiology*, **1989**, 90, 827-34	6.6	17
48	Fructose 2,6-bisphosphate versus cyclic AMP in the liver and in lower eukaryotic cells. *Current Topics in Cellular Regulation*, **1985**, 27, 399-410		16
47	Enzyme complexity in intermediary metabolism. *Journal of Inherited Metabolic Disease*, **2015**, 38, 721-7	5.4	14
46	Reaction of phosphofructokinase 2/fructose 2,6-bisphosphatase with monoclonal antibodies. A proof of the bifunctionality of the enzyme. *FEBS Journal*, **1986**, 159, 367-73		14
45	A new family of phosphotransferases related to P-type ATPases. *Trends in Biochemical Sciences*, **1998**, 23, 284	10.3	13
44	Overexpression and purification of fructose-1-phosphate kinase from Escherichia coli: application to the assay of fructose 1-phosphate. *Protein Expression and Purification*, **2000**, 19, 48-52	2	13
43	The fuel concept for insulin release: regulation of glucose phosphorylation in pancreatic islets. *Biochemical Society Transactions*, **1990**, 18, 107-8	5.1	13
42	Inborn errors of metabolite repair. *Journal of Inherited Metabolic Disease*, **2020**, 43, 14-24	5.4	13
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