Ramon Bartrons

List of Publications by Year
in descending order

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127 papers	8,793 citations	61984 43 h-index	45317 90 g-index
128 all docs	128 docs citations	128 times ranked	12284 citing authors

#	Article	IF	Citations
1	The Expression of TP53-Induced Glycolysis and Apoptosis Regulator (TIGAR) Can Be Controlled by the Antioxidant Orchestrator NRF2 in Human Carcinoma Cells. International Journal of Molecular Sciences, 2022, 23, 1905.	4.1	4
2	TP53-Induced Glycolysis and Apoptosis Regulator (TIGAR) Is Upregulated in Lymphocytes Stimulated with Concanavalin A. International Journal of Molecular Sciences, 2021, 22, 7436.	4.1	5
3	Regulation of the MDM2â€p53 pathway by the ubiquitin ligase HERC2. Molecular Oncology, 2020, 14, 69-86.	4.6	27
4	CPEB4 Increases Expression of PFKFB3 to Induce Glycolysis and Activate Mouse and Human Hepatic Stellate Cells, Promoting Liver Fibrosis. Gastroenterology, 2020, 159, 273-288.	1.3	61
5	p38Î³ MAPK Is Essential for Aerobic Glycolysis and Pancreatic Tumorigenesis. Cancer Research, 2020, 80, 3251-3264.	0.9	47
6	The ubiquitin ligase HERC1 regulates cell migration via RAF-dependent regulation of MKK3/p38 signaling. Scientific Reports, 2020, 10, 824.	3.3	19
7	Large HERCs Function as Tumor Suppressors. Frontiers in Oncology, 2019, 9, 524.	2.8	6
8	Editorial: Cancer Ecosystems. Frontiers in Oncology, 2019, 9, 718.	2.8	10
9	Tris-Acetate Polyacrylamide Gradient Gels for the Simultaneous Electrophoretic Analysis of Proteins of Very High and Low Molecular Mass. Methods in Molecular Biology, 2019, 1855, 269-277.	0.9	5
10	PI3Kâ€“Akt signaling controls PFKFB3 expression during human T-lymphocyte activation. Molecular and Cellular Biochemistry, 2018, 448, 187-197.	3.1	19
11	Leucine reduces the proliferation of MC3T3-E1 cells through DNA damage and cell senescence. Toxicology in Vitro, 2018, 48, 1-10.	2.4	7
12	The potential utility of PFKFB3 as a therapeutic target. Expert Opinion on Therapeutic Targets, 2018, 22, 659-674.	3.4	54
13	Fructose 2,6-Bisphosphate in Cancer Cell Metabolism. Frontiers in Oncology, 2018, 8, 331.	2.8	83
14	The E3 ubiquitin ligase HERC1 controls the ERK signaling pathway targeting C-RAF for degradation. Oncotarget, 2018, 9, 31531-31548.	1.8	30
15	Role of Akt/PKB and PFKFB isoenzymes in the control of glycolysis, cell proliferation and protein synthesis in mitogen-stimulated thymocytes. Cellular Signalling, 2017, 34, 23-37.	3.6	50
16	PGC-1Î± Downregulation in Steatotic Liver Enhances Ischemia-Reperfusion Injury and Impairs Ischemic Preconditioning. Antioxidants and Redox Signaling, 2017, 27, 1332-1346.	5.4	22
17	<scp>TGF</scp>â€Î²1 targets Smad, p38 <scp>MAPK</scp>, and <scp>PI</scp>3K/Akt signaling pathways to induce <scp>PFKFB</scp>3 gene expression and glycolysis in glioblastoma cells. FEBS Journal, 2017, 284, 3437-3454.	4.7	116
18	NEURL4 regulates the transcriptional activity of tumor suppressor protein p53 by modulating its oligomerization. Oncotarget, 2017, 8, 61824-61836.	1.8	17

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19	Neuregulin improves response to glucose tolerance test in control and diabetic rats. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E440-E451.	3.5	19
20	Analysis of Protein Oligomerization by Electrophoresis. Methods in Molecular Biology, 2016, 1449, 341-348.	0.9	2
21	Akt mediates <scp>TIGAR</scp> induction in HeLa cells following <scp>PFKFB</scp>3 inhibition. FEBS Letters, 2016, 590, 2915-2926.	2.8	16
22	TP53-inducible Glycolysis and Apoptosis Regulator (TIGAR) Metabolically Reprograms Carcinoma and Stromal Cells in Breast Cancer. Journal of Biological Chemistry, 2016, 291, 26291-26303.	3.4	62
23	Tris-acetate polyacrylamide gradient gel electrophoresis for the analysis of protein oligomerization. Analytical and Bioanalytical Chemistry, 2016, 408, 1715-1719.	3.7	5
24	The HERC2 ubiquitin ligase is essential for embryonic development and regulates motor coordination. Oncotarget, 2016, 7, 56083-56106.	1.8	24
25	Therapeutic ultrasound stimulates MC3T3-E1 cell proliferation through the activation of NF-ÎºB1, p38Î±, and mTOR. Lasers in Surgery and Medicine, 2015, 47, 765-772.	2.1	11
26	p38Î± function in osteoblasts influences adipose tissue homeostasis. FASEB Journal, 2015, 29, 1414-1425.	0.5	13
27	HIF-1Î± and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1463-1471.	2.4	150
28	Growth Hormone Inhibits Hepatic De Novo Lipogenesis in Adult Mice. Diabetes, 2015, 64, 3093-3103.	0.6	85
29	The E3 Ubiquitin Protein Ligase HERC2 Modulates the Activity of Tumor Protein p53 by Regulating Its Oligomerization. Journal of Biological Chemistry, 2014, 289, 14782-14795.	3.4	55
30	Capsaicin Modulates Proliferation, Migration, and Activation of Hepatic Stellate Cells. Cell Biochemistry and Biophysics, 2014, 68, 387-396.	1.8	16
31	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. Cell, 2013, 154, 651-663.	28.9	1,117
32	PFKFB3 activation in cancer cells by the p38/MK2 pathway in response to stress stimuli. Biochemical Journal, 2013, 452, 531-543.	3.7	64
33	MicroRNA-322 (miR-322) and Its Target Protein Tob2 Modulate Osterix (Osx) mRNA Stability. Journal of Biological Chemistry, 2013, 288, 14264-14275.	3.4	77
34	Akt-dependent Activation of the Heart 6-Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase (PFKFB2) Isoenzyme by Amino Acids. Journal of Biological Chemistry, 2013, 288, 10640-10651.	3.4	63
35	Contribution of S6K1/MAPK Signaling Pathways in the Response to Oxidative Stress: Activation of RSK and MSK by Hydrogen Peroxide. PLoS ONE, 2013, 8, e75523.	2.5	17
36	Sertoli-secreted FGF-2 induces PFKFB4 isozyme expression in mouse spermatogenic cells by activation of the MEK/ERK/CREB pathway. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E695-E707.	3.5	16

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37	Ubiquitinâ€“proteasome system inhibitors and AMPK regulation in hepatic cold ischaemia and reperfusion injury: possible mechanisms. Clinical Science, 2012, 123, 93-98.	4.3	18
38	Antiproliferative effect of catechin in GRX cells. Biochemistry and Cell Biology, 2012, 90, 575-584.	2.0	10
39	Progestins activate 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 (PFKFB3) in breast cancer cells. Biochemical Journal, 2012, 442, 345-356.	3.7	42
40	Trisâ€“Acetate Polyacrylamide Gradient Gels for the Simultaneous Electrophoretic Analysis of Proteins of Very High and Low Molecular Mass. Methods in Molecular Biology, 2012, 869, 205-213.	0.9	22
41	Fructose-1,6-bisphosphate Protects against Zymosan-induced Acute Lung Injury in Mice. Inflammation, 2012, 35, 1198-1203.	3.8	7
42	Fructose-1,6-Bisphosphate Reduces the Mortality in Candida albicans Bloodstream Infection and Prevents the Septic-Induced Platelet Decrease. Inflammation, 2012, 35, 1256-1261.	3.8	9
43	The use of a reversible proteasome inhibitor in a model of Reduced-Size Orthotopic Liver transplantation in rats. Experimental and Molecular Pathology, 2012, 93, 99-110.	2.1	15
44	TP53 induced glycolysis and apoptosis regulator (TIGAR) knockdown results in radiosensitization of glioma cells. Radiotherapy and Oncology, 2011, 101, 132-139.	0.6	64
45	Modulation of inflammatory response and parasitism by 15-Deoxy-Î”12,14 prostaglandin J2 in Trypanosoma cruzi-infected cardiomyocytes. International Journal for Parasitology, 2011, 41, 553-562.	3.1	31
46	The Transcriptional Activation of the Cyclooxygenase-2 Gene in Zymosan-Activated Macrophages is Dependent on NF-Kappa B, C/EBP, AP-1, and CRE Sites. Inflammation, 2011, 34, 653-658.	3.8	17
47	Conserved regulatory motifs in osteogenic gene promoters integrate cooperative effects of canonical Wnt and BMP pathways. Journal of Bone and Mineral Research, 2011, 26, 718-729.	2.8	62
48	Noncanonical BMP Signaling Regulates Cyclooxygenase-2 Transcription. Molecular Endocrinology, 2011, 25, 1006-1017.	3.7	25
49	Amino Acids Activate Mammalian Target of Rapamycin Complex 2 (mTORC2) via PI3K/Akt Signaling. Journal of Biological Chemistry, 2011, 286, 6128-6142.	3.4	164
50	Cooperation of Adenosine with Macrophage Toll-4 Receptor Agonists Leads to Increased Glycolytic Flux through the Enhanced Expression of PFKFB3 Gene. Journal of Biological Chemistry, 2011, 286, 19247-19258.	3.4	66
51	Liver Glucokinase_{A456V}Induces Potent Hypoglycemia without Dyslipidemia through a Paradoxical Induction of the Catalytic Subunit of Glucose-6-Phosphatase. International Journal of Endocrinology, 2011, 2011, 1-12.	1.5	2
52	Hypoxia inducible factor-1Î± accumulation in steatotic liver preservation: Role of nitric oxide. World Journal of Gastroenterology, 2010, 16, 3499.	3.3	49
53	Matrix Metalloproteinase 2 in Reducedâ€Size Liver Transplantation: Beyond the Matrix. American Journal of Transplantation, 2010, 10, 1167-1177.	4.7	18
54	Simultaneous electrophoretic analysis of proteins of very high and low molecular mass using Trisâ€acetate polyacrylamide gels. Electrophoresis, 2010, 31, 1318-1321.	2.4	47

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55	p38 Regulates Expression of Osteoblast-specific Genes by Phosphorylation of Osterix. Journal of Biological Chemistry, 2010, 285, 31985-31994.	3.4	109
56	Pfkfb3 is transcriptionally upregulated in diabetic mouse liver through proliferative signals. FEBS Journal, 2009, 276, 4555-4568.	4.7	36
57	Switches in 6-phosphofructo-2-kinase isoenzyme expression during rat sperm maturation. Biochemical and Biophysical Research Communications, 2009, 387, 330-335.	2.1	19
58	ERK and p38 pathways regulate amino acid signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 2241-2254.	4.1	44
59	Overexpression of ubiquitous 6-phosphofructo-2-kinase in the liver of transgenic mice results in weight gain. Biochemical and Biophysical Research Communications, 2008, 365, 291-297.	2.1	18
60	Characterization of a new liver- and kidney-specific pfkfb3 isozyme that is downregulated by cell proliferation and dedifferentiation. Biochemical and Biophysical Research Communications, 2008, 367, 748-754.	2.1	10
61	Pck1 Gene Silencing in the Liver Improves Glycemia Control, Insulin Sensitivity, and Dyslipidemia in db/db Mice. Diabetes, 2008, 57, 2199-2210.	0.6	109
62	BMP2 induction of actin cytoskeleton reorganization and cell migration requires PI3-kinase and Cdc42 activity. Journal of Cell Science, 2008, 121, 3960-3970.	2.0	106
63	Addition of adenosine monophosphate-activated protein kinase activators to University of Wisconsin solution: A way of protecting rat steatotic livers. Liver Transplantation, 2007, 13, 410-425.	2.4	55
64	Hypoxia, glucose metabolism and the Warburgâ€™s effect. Journal of Bioenergetics and Biomembranes, 2007, 39, 223-229.	2.3	210
65	Heat Shock Proteins and Mitogen-activated Protein Kinases in Steatotic Livers Undergoing Ischemia-Reperfusion: Some Answers. American Journal of Pathology, 2006, 168, 1474-1485.	3.8	55
66	Repression of SOX6 transcriptional activity by SUMO modification. FEBS Letters, 2006, 580, 1215-1221.	2.8	23
67	PFKFB3 gene silencing decreases glycolysis, induces cell-cycle delay and inhibits anchorage-independent growth in HeLa cells. FEBS Letters, 2006, 580, 3308-3314.	2.8	97
68	TIGAR, a p53-Inducible Regulator of Glycolysis and Apoptosis. Cell, 2006, 126, 107-120.	28.9	1,717
69	Simultaneous electrophoretic analysis of proteins of very high and low molecular weights using low-percentage acrylamide gel and a gradient SDS-PAGE gel. Electrophoresis, 2006, 27, 3935-3938.	2.4	17
70	Mediators of rat ischemic hepatic preconditioning after cold preservation identified by microarray analysis. Liver Transplantation, 2006, 12, 1615-1625.	2.4	14
71	Overcoming Diabetes-Induced Hyperglycemia through Inhibition of Hepatic Phosphoenolpyruvate Carboxykinase (GTP) with RNAi. Molecular Therapy, 2006, 13, 401-410.	8.2	72
72	Copolymers of poly-l-lysine with serine and tryptophan form stable DNA vectors: implications for receptor-mediated gene transfer. Journal of Controlled Release, 2005, 102, 277-291.	9.9	12

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73	Assessment of a dual regulatory role for NO in liver regeneration after partial hepatectomy: protection against apoptosis and retardation of hepatocyte proliferation. FASEB Journal, 2005, 19, 995-997.	0.5	29
74	Adenosine monophosphate-activated protein kinase and nitric oxide in rat steatotic liver transplantation. Journal of Hepatology, 2005, 43, 997-1006.	3.7	70
75	Requirement of phosphatidylinositol-4,5-bisphosphate for HERC1-mediated guanine nucleotide release from ARF proteins. FEBS Letters, 2005, 579, 343-348.	2.8	15
76	Specific expression ofpfkfb4gene in spermatogonia germ cells and analysis of its 5â€²-flanking region. FEBS Letters, 2005, 579, 357-362.	2.8	10
77	6-Phosphofructo-2-kinase (pfkfb3) Gene Promoter Contains Hypoxia-inducible Factor-1 Binding Sites Necessary for Transactivation in Response to Hypoxia. Journal of Biological Chemistry, 2004, 279, 53562-53570.	3.4	213
78	BMP-2 decreases Mash1 stability by increasing Id1 expression. EMBO Journal, 2004, 23, 3527-3537.	7.8	97
79	Activation of AMP-dependent protein kinase by hypoxia and hypothermia in the liver of frog Rana perezi. Cryobiology, 2004, 49, 190-194.	0.7	23
80	Stimulators of AMP-activated protein kinase inhibit the respiratory burst in human neutrophils. FEBS Letters, 2004, 573, 219-225.	2.8	90
81	The giant protein HERC1 is recruited to aluminum fluoride-induced actin-rich surface protrusions in HeLa cells. FEBS Letters, 2004, 559, 77-83.	2.8	9
82	Interaction between HERC1 and M2-type pyruvate kinase. FEBS Letters, 2003, 539, 78-84.	2.8	35
83	Regulation of ubiquitous 6-phosphofructo-2-kinase by the ubiquitin-proteasome proteolytic pathway during myogenic C2C12 cell differentiation. FEBS Letters, 2003, 550, 23-29.	2.8	30
84	Induction of the Sry-Related Factor SOX6 Contributes to Bone Morphogenetic Protein-2-Induced Chondroblastic Differentiation of C3H10T1/2 Cells. Molecular Endocrinology, 2003, 17, 1332-1343.	3.7	40
85	Receptor-Mediated Gene Transfer Vectors: Progress Towards Genetic Pharmaceuticals. Current Gene Therapy, 2003, 3, 468-485.	2.0	30
86	The Combination of Ischemic Preconditioning and Liver Bcl-2 Overexpression Is a Suitable Strategy to Prevent Liver and Lung Damage after Hepatic Ischemia-Reperfusion. American Journal of Pathology, 2002, 160, 2111-2122.	3.8	43
87	Insulin induces PFKFB3 gene expression in HT29 human colon adenocarcinoma cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1589, 89-92.	4.1	35
88	The human ubiquitous 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene (PFKFB3): promoter characterization and genomic structure. Gene, 2001, 264, 131-138.	2.2	37
89	HERC3 binding to and regulation by ubiquitin. FEBS Letters, 2001, 488, 74-80.	2.8	33
90	Adenosine monophosphate[ndash]activated protein kinase mediates the protective effects of ischemic preconditioning on hepatic ischemia-reperfusion injury in the rat. Hepatology, 2001, 34, 1164-1173.	7.3	158

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91	PFK-2/FBPase-2: maker and breaker of the essential biofactor fructose-2,6-bisphosphate. Trends in Biochemical Sciences, 2001, 26, 30-35.	7.5	301
92	Fructose-1,6-bisphosphate inhibits the expression of inducible nitric oxide synthase caused by oxygen-glucose deprivation through the inhibition of glutamate release in rat forebrain slices. Naunyn-Schmiedeberg's Archives of Pharmacology, 2000, 362, 208-212.	3.0	19
93	Overexpression of fructose 2,6-bisphosphatase decreases glycolysis and delays cell cycle progression. American Journal of Physiology - Cell Physiology, 2000, 279, C1359-C1365.	4.6	26
94	Interaction and Functional Cooperation of NF-Î¹B with Smads. Journal of Biological Chemistry, 2000, 275, 28937-28946.	3.4	106
95	Detection of mRNA encoding H1 receptor and iNOS by RT-PCR in autoimmune myocarditis with special reference to changes in heart contractility. International Journal of Cardiology, 2000, 76, 165-172.	1.7	7
96	6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase expression in rat brain during development. Molecular Brain Research, 2000, 75, 138-142.	2.3	15
97	Cells overexpressing fructose-2,6-bisphosphatase showed enhanced pentose phosphate pathway flux and resistance to oxidative stress. FEBS Letters, 2000, 480, 261-264.	2.8	49
98	Effect of ozone treatment on reactive oxygen species and adenosine production during hepatic ischemia-reperfusion. Free Radical Research, 2000, 33, 595-605.	3.3	67
99	The human HERC3 gene maps<footref rid="foot01">¹</footref> to chromosome 4q21 by fluorescence in situ hybridization. Cytogenetic and Genome Research, 1999, 87, 263-264.	1.1	5
100	Aspirin induces cell death and caspase-dependent phosphatidylserine externalization in HT-29 human colon adenocarcinoma cells. British Journal of Cancer, 1999, 81, 294-299.	6.4	32
101	Cloning, expression and chromosomal localization of a human testis 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene. Gene, 1999, 229, 83-89.	2.2	38
102	A zincâ€finger transcription factor induced by TGFâ€Î² promotes apoptotic cell death in epithelial Mv1Lu cells. FEBS Letters, 1999, 457, 478-482.	2.8	94
103	JunB Is Involved in the Inhibition of Myogenic Differentiation by Bone Morphogenetic Protein-2. Journal of Biological Chemistry, 1998, 273, 537-543.	3.4	94
104	Protective Effect of Nifedipine against Carrageenan-Induced Inflammation. Pharmacology, 1998, 56, 131-136.	2.2	9
105	Nitric Oxide Inhibits DNA Synthesis and Induces Activation of Poly(ADP-Ribose) Polymerase in Cultured Rat Hepatocytes. Experimental Cell Research, 1996, 228, 14-18.	2.6	13
106	Early effects of basic fibroblast growth factor on foetal rat mesencephalic cell suspensions. Neuroscience Letters, 1996, 221, 5-8.	2.1	3
107	Hepatocyte growth factor and transforming growth factor Î² regulate 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase gene expression in rat hepatocyte primary cultures. Biochemical Journal, 1996, 314, 235-240.	3.7	9
108	c-met mRNA overexpression in human hepatocellular carcinoma. Hepatology, 1994, 19, 88-91.	7.3	119

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109	Control of Fructose 2,6-Bisphosphate Metabolism by Different Mitogenic Signals in Swiss 3T3 Fibroblasts. Experimental Cell Research, 1994, 212, 93-96.	2.6	15
110	Stereotaxic Administration of 1â€Methylâ€4â€Phenylpyridinium Ion (MPP⁺) Decreases Striatal Fructose 2,6â€Bisphosphate in Rats. Journal of Neurochemistry, 1994, 62, 1913-1920.	3.9	11
111	c-met mRNA overexpression in human hepatocellular carcinoma. Hepatology, 1994, 19, 88-91.	7.3	7
112	Fructose-1,6-Bisphosphate fails to ameliorate delayed neuronal death in the CA1 area after transient forebrain ischaemia in gerbils. Neuropharmacology, 1993, 32, 1367-1371.	4.1	3
113	Protective effect of fructose 1,6-bisphosphate against carrageenan-induced inflammation. European Journal of Pharmacology, 1993, 237, 251-255.	3.5	20
114	Fructose 2,6-bisphosphate in developing rat brain. Developmental Brain Research, 1992, 66, 274-276.	1.7	5
115	HPLC analysis of hexosamine phosphates in biological samples. Journal of Proteomics, 1992, 25, 237-244.	2.4	2
116	Effect of galactosamine on hepatic carbohydrate metabolism: Protective role of fructose 1,6-bisphosphate. Hepatology, 1992, 15, 1147-1153.	7.3	73
117	Fructose 2, 6-Bisphosphate in Hypoglycemic Rat Brain. Journal of Neurochemistry, 1991, 57, 200-203.	3.9	14
118	Vanadate inhibits liver fructose-2,6-bisphosphatase. FEBS Journal, 1990, 190, 53-56.	0.2	19
119	Levels of glycerate 2,3-P2, 2,3-bisphosphoglycerate synthase and 2,3-bisphosphoglycerate phosphatase activities in rat tissues. A method to quantify blood contamination of tissue extracts. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1987, 86, 11-13.	0.2	6
120	Effects of diabetes on fructose 2,6-P2, glucose 1,6-P2 and 6-phosphofructo 2-kinase in rat liver. Biochemical and Biophysical Research Communications, 1986, 136, 498-503.	2.1	27
121	Fructose 2,6-bisphosphate and glucose 1,6-bisphosphate in erythrocytes during chicken development. FEBS Letters, 1986, 209, 254-256.	2.8	9
122	The stimulation of yeast phosphofructokinase by fructose 2,6-bisphosphate. FEBS Letters, 1982, 143, 137-140.	2.8	70
123	Effect of vanadate on the formation and stability of the phosphoenzyme forms of 2,3-bisphosphoglycerate-dependent phosphoglycerate mutase and of phosphoglucomutase. BBA - Proteins and Proteomics, 1982, 705, 238-242.	2.1	20
124	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, 191-195.	0.2	619
125	Effect of vanadate on phosphoryl transfer enzymes involved in glucose metabolism. Biochemical and Biophysical Research Communications, 1981, 101, 570-576.	2.1	41
126	Vanadate inhibits 2,3-bisphosphoglycerate dependent phosphoglycerate mutases but does not affect the 2,3-bisphosphoglycerate independent phosphoglycerate mutases. Biochemical and Biophysical Research Communications, 1980, 96, 1267-1273.	2.1	41

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127	Fructose 2,6-bisphosphate: the last milestone of the 20th century in metabolic control?. Biochemical Journal, 0, , c2.	3.7	3