Mauro Sola-Penna

List of Publications by Year
in descending order

94	3,619	109137	155451
papers	citations	35 h-index	55 g-index

97	97	97	4825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adipocyte-specific Nos2 deletion improves insulin resistance and dyslipidemia through brown fat activation in diet-induced obese mice. Molecular Metabolism, 2022, 57, 101437.	3.0	8
2	Western diet leads to aging-related tumorigenesis via activation of the inflammatory, UPR, and EMT pathways. Cell Death and Disease, 2021, 12, 643.	2.7	14
3	Selective AMPK activator leads to unfolded protein response downregulation and induces breast cancer cell death and autophagy. Life Sciences, 2021, 276, 119470.	2.0	9
4	3-Bromopyruvate: A new strategy for inhibition of glycolytic enzymes in Leishmania amazonensis. Experimental Parasitology, 2021, 229, 108154.	0.5	5
5	Dietary citrate acutely induces insulin resistance and markers of liver inflammation in mice. Journal of Nutritional Biochemistry, 2021, 98, 108834.	1.9	7
6	Clotrimazole presents anticancer properties against a mouse melanoma model acting as a PI3K inhibitor and inducing repolarization of tumor-associated macrophages. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166263.	1.8	8
7	Hypocaloric diet with lower meal frequency did not affect weight loss, body composition and insulin responsiveness, but improved lipid profile: a randomized clinical trial. Food and Function, 2021, 12, 12594-12605.	2.1	2
8	Serotonin activates glycolysis and mitochondria biogenesis in human breast cancer cells through activation of the Jak1/STAT3/ERK1/2 and adenylate cyclase/PKA, respectively. British Journal of Cancer, 2020, 122, 194-208.	2.9	55
9	Acetylsalicylic acid and salicylic acid present anticancer properties against melanoma by promoting nitric oxide-dependent endoplasmic reticulum stress and apoptosis. Scientific Reports, 2020, 10, 19617.	1.6	21
10	Clotrimazole reduces endometriosis and the estrogen concentration by downregulating aromatase. Reproduction, 2020, 159, 779-786.	1.1	6
11	Design, Synthesis and Biological Evaluation of 1H-1,2,3-Triazole-Linked-1H-Dibenzo[b,h]xanthenes as Inductors of ROS-Mediated Apoptosis in the Breast Cancer Cell Line MCF-7. Medicinal Chemistry, 2019, 15, 119-129.	0.7	7
12	Discrete Fourier Transform-Based Multivariate Image Analysis: Application to Modeling of Aromatase Inhibitory Activity. ACS Combinatorial Science, 2018, 20, 75-81.	3.8	14
13	Clotrimazole is effective for the regression of endometriotic implants in a Wistar rat experimental model of endometriosis. Molecular and Cellular Endocrinology, 2018, 476, 17-26.	1.6	8
14	Insulin specifically regulates expression of liver and muscle phosphofructokinase isoforms. Biomedicine and Pharmacotherapy, 2018, 103, 228-233.	2.5	19
15	Ocimum basilicum but not Ocimum gratissimum present cytotoxic effects on human breast cancer cell line MCF-7, inducing apoptosis and triggering mTOR/Akt/p70S6K pathway. Journal of Bioenergetics and Biomembranes, 2018, 50, 93-105.	1.0	27
16	A Novel Naphthotriazolyl-4-oxoquinoline Derivative that Selectively Controls Breast Cancer Cells Survival Through the Induction of Apoptosis. Current Topics in Medicinal Chemistry, 2018, 18, 1465-1474.	1.0	10
17	A Novel Triazole Derivative Drug Presenting In Vitro and In Vivo Anticancer Properties. Current Topics in Medicinal Chemistry, 2018, 18, 1483-1493.	1.0	9
18	Reference genes for quantitative PCR in the adipose tissue of mice with metabolic disease. Biomedicine and Pharmacotherapy, 2017, 88, 948-955.	2.5	38

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19	Phosphofructokinaseâ€Ƥ Modulates P44/42 MAPK Levels in HeLa Cells. Journal of Cellular Biochemistry, 2017, 118, 1216-1226.	1.2	7
20	Effects of Food Additives on Immune Cells As Contributors to Body Weight Gain and Immune-Mediated Metabolic Dysregulation. Frontiers in Immunology, 2017, 8, 1478.	2.2	44
21	Macromolecular confinement of therapeutic protein in polymeric particles for controlled release: insulin as a case study. Brazilian Journal of Pharmaceutical Sciences, 2017, 53, .	1.2	1
22	Preclinical efficacy of the novel competitive NAMPT inhibitor STF-118804 in pancreatic cancer. Oncotarget, 2017, 8, 85054-85067.	0.8	36
23	Exogenous citrate impairs glucose tolerance and promotes visceral adipose tissue inflammation in mice. British Journal of Nutrition, 2016, 115, 967-973.	1.2	23
24	The Use of NMR Metabolite Profiling and in vivo Hypoglycemic Assay for Comparison of Unfractionated Aqueous Leaf Extracts of Two Ocimum Species. Chemistry and Biodiversity, 2016, 13, 686-694.	1.0	7
25	SIRT1-Activating Compounds (STAC) Negatively Regulate Pancreatic Cancer Cell Growth and Viability Through a SIRT1 Lysosomal-Dependent Pathway. Clinical Cancer Research, 2016, 22, 2496-2507.	3.2	32
26	Epithelial Mesenchymal Transition Induces Aberrant Glycosylation through Hexosamine Biosynthetic Pathway Activation. Journal of Biological Chemistry, 2016, 291, 12917-12929.	1.6	93
27	Subversion of Schwann Cell Glucose Metabolism by Mycobacterium leprae. Journal of Biological Chemistry, 2016, 291, 21375-21387.	1.6	41
28	Unique PFK regulatory property from some mosquito vectors of disease, and from Drosophila melanogaster. Parasites and Vectors, 2016, 9, 107.	1.0	12
29	Nanomicellar Formulation of Clotrimazole Improves Its Antitumor Action toward Human Breast Cancer Cells. PLoS ONE, 2015, 10, e0130555.	1.1	13
30	Phosphatidylinositol-3-kinase as a putative target for anticancer action of clotrimazole. International Journal of Biochemistry and Cell Biology, 2015, 62, 132-141.	1.2	13
31	Hexokinase and phosphofructokinase activity and intracellular distribution correlate with aggressiveness and invasiveness of human breast carcinoma. Oncotarget, 2015, 6, 29375-29387.	0.8	32
32	Identification of chicoric acid as a hypoglycemic agent from Ocimum gratissimum leaf extract in a biomonitoring in vivo study. FÃ¬toterapÃ¬Ã¢, 2014, 93, 132-141.	1.1	51
33	Antidiabetic activity of Sedum dendroideum: Metabolic enzymes as putative targets for the bioactive flavonoid kaempferitrin. IUBMB Life, 2014, 66, 361-370.	1.5	30
34	Therapeutic Nanosystems for Oral Administration of Insulin. Current Pharmaceutical Biotechnology, 2014, 15, 620-628.	0.9	9
35	Resveratrol decreases breast cancer cell viability and glucose metabolism by inhibiting 6-phosphofructo-1-kinase. Biochimie, 2013, 95, 1336-1343.	1.3	97
36	Serotonin regulates 6-phosphofructo-1-kinase activity in a PLCâ€“PKCâ€“CaMK II- and Janus kinase-dependent signaling pathway. Molecular and Cellular Biochemistry, 2013, 372, 211-220.	1.4	15

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37	Rhodnius prolixus LIPOPHORIN: LIPID COMPOSITION AND EFFECT OF HIGH TEMPERATURE ON PHYSIOLOGICAL ROLE. Archives of Insect Biochemistry and Physiology, 2013, 82, 129-140.	0.6	9
38	Amylin induces hypoglycemia in mice. Anais Da Academia Brasileira De Ciencias, 2013, 85, 349-354.	0.3	15
39	Clotrimazole Preferentially Inhibits Human Breast Cancer Cell Proliferation, Viability and Glycolysis. PLoS ONE, 2012, 7, e30462.	1.1	81
40	Herpes simplex type 1 activates glycolysis through engagement of the enzyme 6-phosphofructo-1-kinase (PFK-1). Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1198-1206.	1.8	78
41	Serotonin modulates hepatic 6-phosphofructo-1-kinase in an insulin synergistic manner. International Journal of Biochemistry and Cell Biology, 2012, 44, 150-157.	1.2	28
42	Proteomic Analysis of the Secretions of Pseudallescheria boydii, a Human Fungal Pathogen with Unknown Genome. Journal of Proteome Research, 2012, 11, 172-188.	1.8	21
43	Metformin reverses hexokinase and phosphofructokinase downregulation and intracellular distribution in the heart of diabetic mice. IUBMB Life, 2012, 64, 766-774.	1.5	40
44	Polymeric particles for the controlled release of human amylin. Colloids and Surfaces B: Biointerfaces, 2012, 94, 101-106.	2.5	26
45	Clotrimazole disrupts glycolysis in human breast cancer without affecting non-tumoral tissues. Molecular Genetics and Metabolism, 2011, 103, 394-398.	0.5	32
46	Lactate downregulates the glycolytic enzymes hexokinase and phosphofructokinase in diverse tissues from mice. FEBS Letters, 2011, 585, 92-98.	1.3	126
47	Muscleâ€type 6â€phosphofructoâ€1â€kinase and aldolase associate conferring catalytic advantages for both enzymes. IUBMB Life, 2011, 63, 435-445.	1.5	17
48	Glucuronoxylomannan from Cryptococcus neoformans Down-regulates the Enzyme 6-Phosphofructo-1-kinase of Macrophages. Journal of Biological Chemistry, 2011, 286, 14820-14829.	1.6	11
49	Microcapsules of alginate/chitosan containing magnetic nanoparticles for controlled release of insulin. Colloids and Surfaces B: Biointerfaces, 2010, 81, 206-211.	2.5	125
50	Regulation of mammalian muscle type 6â€phosphofructoâ€1â€kinase and its implication for the control of the metabolism. IUBMB Life, 2010, 62, 791-796.	1.5	120
51	A new class of mechanism-based inhibitors for Trypanosoma cruzi trans-sialidase and their influence on parasite virulence. Glycobiology, 2010, 20, 1034-1045.	1.3	31
52	Serotonin regulates an acyl-CoA-binding protein (ACBP) gene expression in the midgut of Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2010, 40, 119-125.	1.2	23
53	Filamentous actin and its associated binding proteins are the stimulatory site for 6-phosphofructo-1-kinase association within the membrane of human erythrocytes. Biochimie, 2010, 92, 538-544.	1.3	59
54	Differential expression of phosphofructokinase-1 isoforms correlates with the glycolytic efficiency of breast cancer cells. Molecular Genetics and Metabolism, 2010, 100, 372-378.	0.5	84

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55	Metformin reverses hexokinase and 6-phosphofructo-1-kinase inhibition in skeletal muscle, liver and adipose tissues from streptozotocin-induced diabetic mouse. Archives of Biochemistry and Biophysics, 2010, 496, 53-60.	1.4	44
56	Clotrimazole potentiates the inhibitory effects of ATP on the key glycolytic enzyme 6-phosphofructo-1-kinase. Archives of Biochemistry and Biophysics, 2010, 497, 62-67.	1.4	27
57	Acetylsalicylic acid and salicylic acid decrease tumor cell viability and glucose metabolism modulating 6-phosphofructo-1-kinase structure and activity. Biochemical Pharmacology, 2009, 77, 46-53.	2.0	117
58	Calmodulin upregulates skeletal muscle 6-phosphofructo-1-kinase reversing the inhibitory effects of allosteric modulators. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1175-1180.	1.1	41
59	ATP and fructoseâ€2,6â€bisphosphate regulate skeletal muscle 6â€phosphofructoâ€1â€kinase by altering its quaternary structure. IUBMB Life, 2008, 60, 526-533.	1.5	34
60	Metabolic regulation by lactate. IUBMB Life, 2008, 60, 605-608.	1.5	73
61	Betaine protects ureaâ€induced denaturation of myosin subfragmentâ€1. FEBS Journal, 2008, 275, 3388-3396.	2.2	37
62	Crude ethanol extract from babassu (Orbignya speciosa): cytotoxicity on tumoral and non-tumoral cell lines. Anais Da Academia Brasileira De Ciencias, 2008, 80, 467-476.	0.3	29
63	Lactate favours the dissociation of skeletal muscle 6-phosphofructo-1-kinase tetramers down-regulating the enzyme and muscle glycolysis. Biochemical Journal, 2007, 408, 123-130.	1.7	125
64	Serotonin stimulates mouse skeletal muscle 6-phosphofructo-1-kinase through tyrosine-phosphorylation of the enzyme altering its intracellular localization. Molecular Genetics and Metabolism, 2007, 92, 364-370.	0.5	49
65	Fructose-2,6-bisphosphate counteracts guanidinium chloride-, thermal-, and ATP-induced dissociation of skeletal muscle key glycolytic enzyme 6-phosphofructo-1-kinase: A structural mechanism for PFK allosteric regulation. Archives of Biochemistry and Biophysics, 2007, 467, 275-282.	1.4	39
66	Allosteric regulation of 6-phosphofructo-1-kinase activity of fat body and flight muscle from the bloodsucking bug Rhodnius prolixus. Anais Da Academia Brasileira De Ciencias, 2007, 79, 53-62.	0.3	4
67	Clotrimazole inhibits and modulates heterologous association of the key glycolytic enzyme 6-phosphofructo-1-kinase. Biochemical Pharmacology, 2007, 73, 1520-1527.	2.0	46
68	Modulation of 6-phosphofructo-1-kinase oligomeric equilibrium by calmodulin: Formation of active dimmers. Molecular Genetics and Metabolism, 2006, 87, 253-261.	0.5	39
69	Opposing effects of two osmolytes ? trehalose and glycerol ? on thermal inactivation of rabbit muscle 6-phosphofructo-1-kinase. Molecular and Cellular Biochemistry, 2005, 269, 203-207.	1.4	27
70	Clotrimazole decreases human breast cancer cells viability through alterations in cytoskeleton-associated glycolytic enzymes. Molecular Genetics and Metabolism, 2005, 84, 354-362.	0.5	67
71	Regulation of human erythrocyte metabolism by insulin: Cellular distribution of 6-phosphofructo-1-kinase and its implication for red blood cell function. Molecular Genetics and Metabolism, 2005, 86, 401-411.	0.5	50
72	Calcium influx: A possible role for insulin modulation of intracellular distribution and activity of 6-phosphofructo-1-kinase in human erythrocytes. Molecular Genetics and Metabolism, 2005, 86, 392-400.	0.5	40

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73	Trehalose and glycerol stabilize and renature yeast inorganic pyrophosphatase inactivated by very high temperatures. Archives of Biochemistry and Biophysics, 2005, 444, 52-60.	1.4	74
74	Effects of insulin and actin on phosphofructokinase activity and cellular distribution in skeletal muscle. Anais Da Academia Brasileira De Ciencias, 2004, 76, 541-548.	0.3	25
75	Mayaro virus infection alters glucose metabolism in cultured cells through activation of the enzyme 6-phosphofructo 1-kinase. Molecular and Cellular Biochemistry, 2004, 266, 191-198.	1.4	62
76	Inhibition of yeast glutathione reductase by trehalose: possible implications in yeast survival and recovery from stress. International Journal of Biochemistry and Cell Biology, 2004, 36, 900-908.	1.2	46
77	Inactivation of yeast inorganic pyrophosphatase by organic solvents. Anais Da Academia Brasileira De Ciencias, 2004, 76, 699-705.	0.3	4
78	Cellular distribution of phosphofructokinase activity and implications to metabolic regulation in human breast cancer. Molecular Genetics and Metabolism, 2003, 79, 294-299.	0.5	44
79	Epinephrine modulates cellular distribution of muscle phosphofructokinase. Molecular Genetics and Metabolism, 2003, 78, 302-306.	0.5	38
80	Counteracting effects of urea and methylamines in function and structure of skeletal muscle myosin. Archives of Biochemistry and Biophysics, 2002, 408, 272-278.	1.4	35
81	A radioassay for phosphofructokinase-1 activity in cell extracts and purified enzyme. Journal of Proteomics, 2002, 50, 129-140.	2.4	46
82	Urea Increases Tolerance of Yeast Inorganic Pyrophosphatase Activity to Ethanol: The Other Side of Urea Interaction with Proteins. Archives of Biochemistry and Biophysics, 2001, 394, 61-66.	1.4	25
83	p-Nitrophenylphosphatase Activity Catalyzed by Plasma Membrane (Ca2++Mg2+)ATPase: Correlation with Structural Changes Modulated by Glycerol and Ca2+. Bioscience Reports, 2001, 21, 25-32.	1.1	15
84	Protection against thermal denaturation by trehalose on the plasma membrane H+-ATPase from yeast. Synergetic effect between trehalose and phospholipid environment. FEBS Journal, 1999, 266, 660-664.	0.2	35
85	Effects of Trehalose and Ethanol on Yeast Cytosolic Pyrophosphatase. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 186-190.	0.6	15
86	Stabilization against Thermal Inactivation Promoted by Sugars on Enzyme Structure and Function: Why Is Trehalose More Effective Than Other Sugars?. Archives of Biochemistry and Biophysics, 1998, 360, 10-14.	1.4	279
87	Biosynthesis ofO -N -Acetylglucosamine-linked Glycans inTrypanosoma cruzi. Journal of Biological Chemistry, 1998, 273, 14982-14988.	1.6	72
88	Carbohydrate Protection of Enzyme Structure and Function against Guanidinium Chloride Treatment Depends on the Nature of Carbohydrate and Enzyme. FEBS Journal, 1997, 248, 24-29.	0.2	65
89	Trehalose Protects Yeast Pyrophosphatase against Structural and Functional Damage Induced by Guanidinium Chloride. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1996, 51, 160-164.	0.6	22
90	Glycerol Inhibits or Uncouples the Plasma Membrane (Ca2++Mg2+)ATPase of Kidney Proximal Tubules Depending on the Ca2+ Concentration. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1995, 50, 845-853.	0.6	3

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91	Polyols that Accumulate in Renal Tissue Uncouple the Plasma Membrane Calcium Pump and Counteract the Inhibition by Urea and Guanidine Hydrochloride. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1995, 50, 114-122.	0.6	14
92	Uncoupling by Trehalose of Ca²⁺ Transport and ATP Hydrolysis by the Plasma Membrane (Ca²⁺+Mg²⁺) ATPase of Kidney Tubules. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1994, 49, 141-146.	0.6	13
93	Protective Role of Trehalose in Thermal Denaturation of Yeast Pyrophosphatase. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1994, 49, 327-330.	0.6	32
94	Monosaccharides and Disaccharides Decrease the K m for Phosphorylation of a Membrane-Bound Enzyme ATPase. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1991, 46, 644-646.	0.6	8