

Paulo Ivo Homem De Bittencourt

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,193
citations

27
h-index

46
g-index

76
ext. papers

2,580
ext. citations

4.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
70	Molecular mechanisms of ROS production and oxidative stress in diabetes. <i>Biochemical Journal</i> , 2016 , 473, 4527-4550	3.8	401
69	Molecular Events Linking Oxidative Stress and Inflammation to Insulin Resistance and β Cell Dysfunction. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 181643	6.7	191
68	The chaperone balance hypothesis: the importance of the extracellular to intracellular HSP70 ratio to inflammation-driven type 2 diabetes, the effect of exercise, and the implications for clinical management. <i>Mediators of Inflammation</i> , 2015 , 2015, 249205	4.3	89
67	LipoCardium: endothelium-directed cyclopentenone prostaglandin-based liposome formulation that completely reverses atherosclerotic lesions. <i>Atherosclerosis</i> , 2007 , 193, 245-58	3.1	80
66	Metabolic fate of glutamine in lymphocytes, macrophages and neutrophils. <i>Brazilian Journal of Medical and Biological Research</i> , 1999 , 32, 15-21	2.8	72
65	HSP70 expression: does it a novel fatigue signalling factor from immune system to the brain?. <i>Cell Biochemistry and Function</i> , 2011 , 29, 215-26	4.2	70
64	Exercise and possible molecular mechanisms of protection from vascular disease and diabetes: the central role of ROS and nitric oxide. <i>Clinical Science</i> , 2009 , 118, 341-9	6.5	70
63	L-arginine is essential for pancreatic β cell functional integrity, metabolism and defense from inflammatory challenge. <i>Journal of Endocrinology</i> , 2011 , 211, 87-97	4.7	67
62	Obesity depresses the anti-inflammatory HSP70 pathway, contributing to NAFLD progression. <i>Obesity</i> , 2015 , 23, 120-9	8	62
61	Oral free and dipeptide forms of glutamine supplementation attenuate oxidative stress and inflammation induced by endotoxemia. <i>Nutrition</i> , 2014 , 30, 602-11	4.8	60
60	The fat cell senescence hypothesis: a mechanism responsible for abrogating the resolution of inflammation in chronic disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014 , 17, 295-305 ^{3,8}	3.8	52
59	MRP1/GS-X pump ATPase expression: is this the explanation for the cytoprotection of the heart against oxidative stress-induced redox imbalance in comparison to skeletal muscle cells?. <i>Cell Biochemistry and Function</i> , 2007 , 25, 23-32	4.2	47
58	GLP-1 receptor signalling promotes β cell glucose metabolism via mTOR-dependent HIF-1 α activation. <i>Scientific Reports</i> , 2017 , 7, 2661	4.9	46
57	Acute exercise stimulates macrophage function: possible role of NF-kappaB pathways. <i>Cell Biochemistry and Function</i> , 2007 , 25, 63-73	4.2	45
56	Oral supplementations with free and dipeptide forms of L-glutamine in endotoxemic mice: effects on muscle glutamine-glutathione axis and heat shock proteins. <i>Journal of Nutritional Biochemistry</i> , 2014 , 25, 345-52	6.3	44
55	Type 1 diabetes: can exercise impair the autoimmune event? The L-arginine/glutamine coupling hypothesis. <i>Cell Biochemistry and Function</i> , 2008 , 26, 406-33	4.2	44
54	Nitric oxide and fibrinogen in polycystic ovary syndrome: associations with insulin resistance and obesity. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2007 , 133, 191-6	2.4	42

53	The regulatory roles of NADPH oxidase, intra- and extra-cellular HSP70 in pancreatic islet function, dysfunction and diabetes. <i>Clinical Science</i> , 2015 , 128, 789-803	6.5	40
52	Alanyl-glutamine and glutamine plus alanine supplements improve skeletal redox status in trained rats: involvement of heat shock protein pathways. <i>Life Sciences</i> , 2014 , 94, 130-6	6.8	40
51	Physiological concentrations of interleukin-6 directly promote insulin secretion, signal transduction, nitric oxide release, and redox status in a clonal pancreatic cell line and mouse islets. <i>Journal of Endocrinology</i> , 2012 , 214, 301-11	4.7	40
50	Regulatory principles in metabolism-then and now. <i>Biochemical Journal</i> , 2016 , 473, 1845-57	3.8	36
49	Fine particulate matter potentiates type 2 diabetes development in high-fat diet-treated mice: stress response and extracellular to intracellular HSP70 ratio analysis. <i>Journal of Physiology and Biochemistry</i> , 2016 , 72, 643-656	5	33
48	Acute exercise boosts cell proliferation and the heat shock response in lymphocytes: correlation with cytokine production and extracellular-to-intracellular HSP70 ratio. <i>Cell Stress and Chaperones</i> , 2017 , 22, 271-291	4	31
47	The effects of periodized concurrent and aerobic training on oxidative stress parameters, endothelial function and immune response in sedentary male individuals of middle age. <i>Cell Biochemistry and Function</i> , 2011 , 29, 534-42	4.2	29
46	Atherosclerosis: a redox-sensitive lipid imbalance suppressible by cyclopentenone prostaglandins. <i>Biochemical Pharmacology</i> , 2008 , 75, 2245-62	6	28
45	Antiproliferative prostaglandins and the MRP/GS-X pump role in cancer immunosuppression and insight into new strategies in cancer gene therapy. <i>Biochemical Pharmacology</i> , 2001 , 62, 811-9	6	28
44	Low expression of MRP1/GS-X pump ATPase in lymphocytes of Walker 256 tumour-bearing rats is associated with cyclopentenone prostaglandin accumulation and cancer immunodeficiency. <i>Cell Biochemistry and Function</i> , 2006 , 24, 23-39	4.2	27
43	L-glutamine supplementations enhance liver glutamine-glutathione axis and heat shock factor-1 expression in endurance-exercise trained rats. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2015 , 25, 188-97	4.4	24
42	Short-term but not long-term hypoglycaemia enhances plasma levels and hepatic expression of HSP72 in insulin-treated rats: an effect associated with increased IL-6 levels but not with IL-10 or TNF- α . <i>Molecular and Cellular Biochemistry</i> , 2014 , 397, 97-107	4.2	24
41	Nitric oxide-heat shock protein axis in menopausal hot flashes: neglected metabolic issues of chronic inflammatory diseases associated with deranged heat shock response. <i>Human Reproduction Update</i> , 2017 , 23, 600-628	15.8	24
40	Glycemic, inflammatory and oxidative stress responses to different high-intensity training protocols in type 1 diabetes: A randomized clinical trial. <i>Journal of Diabetes and Its Complications</i> , 2018 , 32, 1124-1132	3.2	24
39	Oxidative stress in the latissimus dorsi muscle of diabetic rats. <i>Brazilian Journal of Medical and Biological Research</i> , 2000 , 33, 1363-8	2.8	20
38	The oxidation of HSP70 is associated with functional impairment and lack of stimulatory capacity. <i>Cell Stress and Chaperones</i> , 2014 , 19, 913-25	4	19
37	Modulation of rat monocyte/macrophage innate functions by increasing intensities of swimming exercise is associated with heat shock protein status. <i>Molecular and Cellular Biochemistry</i> , 2016 , 421, 111-25	4.2	18
36	Ballet dancers cardiorespiratory, oxidative and muscle damage responses to classes and rehearsals. <i>European Journal of Sport Science</i> , 2014 , 14, 199-208	3.9	18

35	HSP70 Facilitates Memory Consolidation of Fear Conditioning through MAPK Pathway in the Hippocampus. <i>Neuroscience</i> , 2018 , 375, 108-118	3.9	16
34	Effects of n-3 fatty acids and exercise on oxidative stress parameters in type 2 diabetic: a randomized clinical trial. <i>Journal of the International Society of Sports Nutrition</i> , 2018 , 15, 18	4.5	16
33	. <i>Nutrire</i> , 2016 , 41,	2.2	15
32	Heat-induced extracellular HSP72 release is blunted in elderly diabetic people compared with healthy middle-aged and older adults, but it is partially restored by resistance training. <i>Experimental Gerontology</i> , 2018 , 111, 180-187	4.5	15
31	Role of alpha- and beta-adrenoreceptors in rat monocyte/macrophage function at rest and acute exercise. <i>Journal of Physiology and Biochemistry</i> , 2014 , 70, 363-74	5	15
30	Chronic whole-body heat treatment relieves atherosclerotic lesions, cardiovascular and metabolic abnormalities, and enhances survival time restoring the anti-inflammatory and anti-senescent heat shock response in mice. <i>Biochimie</i> , 2019 , 156, 33-46	4.6	13
29	Myocardial oxidative stress and antioxidants in hypertension as a result of nitric oxide synthase inhibition. <i>Cardiovascular Toxicology</i> , 2001 , 1, 43-50	3.4	12
28	Estrogen deprivation does not affect vascular heat shock response in female rats: a comparison with oxidative stress markers. <i>Molecular and Cellular Biochemistry</i> , 2015 , 407, 239-49	4.2	11
27	High intensity interval training in the heat enhances exercise-induced lipid peroxidation, but prevents protein oxidation in physically active men. <i>Temperature</i> , 2016 , 3, 167-75	5.2	8
26	Oral supplementations with L-glutamine or L-alanyl-L-glutamine do not change metabolic alterations induced by long-term high-fat diet in the B6.129F2/J mouse model of insulin resistance. <i>Molecular and Cellular Biochemistry</i> , 2016 , 411, 351-62	4.2	8
25	Suppressed anti-inflammatory heat shock response in high-risk COVID-19 patients: lessons from basic research (inclusive bats), light on conceivable therapies. <i>Clinical Science</i> , 2020 , 134, 1991-2017	6.5	8
24	Evidence that macrophages transfer arachidonic acid and cholesterol to tissues in vivo. <i>Cell Biochemistry and Function</i> , 2003 , 21, 317-23	4.2	7
23	Effects of the antiproliferative cyclopentenone prostaglandin A1 on glutathione metabolism in human cancer cells in culture. <i>IUBMB Life</i> , 1998 , 45, 1255-64	4.7	6
22	Effect of trolox C on cardiac contracture induced by hydrogen peroxide. <i>Brazilian Journal of Medical and Biological Research</i> , 1997 , 30, 1337-42	2.8	5
21	The effect of propionate on lipid synthesis in rat lymphocytes. <i>General Pharmacology</i> , 1994 , 25, 1411-6		5
20	Evidence for the transfer in culture of [14C]-labelled fatty acids from macrophages to lymphocytes. <i>IUBMB Life</i> , 1997 , 43, 1137-44	4.7	4
19	Transfer of cholesterol from macrophages to lymphocytes in culture. <i>IUBMB Life</i> , 1998 , 44, 347-62	4.7	4
18	Glutathione metabolism and glutathione S-conjugate export ATPase (MRP1/GS-X pump) activity in cancer. I. Differential expression in human cancer cell lines. <i>IUBMB Life</i> , 1998 , 45, 1227-41	4.7	4

17	Transference of fatty acids from macrophages to lymphocytes in culture. <i>Biochemical Society Transactions</i> , 1997 , 25, 344S	5.1	3
16	Effects of prostaglandins and nitric oxide on rat macrophage lipid metabolism in culture: implications for arterial wall-leukocyte interplay in atherosclerosis. <i>IUBMB Life</i> , 1998 , 46, 1007-18	4.7	3
15	Heat shock response to exercise in pancreatic islets of obese mice. <i>Biochimie</i> , 2020 , 168, 28-40	4.6	3
14	Acylated Ghrelin and Circulatory Oxidative Stress Markers Responses to Acute Resistance and Aerobic Exercise in Postmenopausal Women. <i>Journal of Physical Activity and Health</i> , 2016 , 13, 632-9	2.5	3
13	Comparative study on the influence of the content and functionalization of alginate matrices on K-562 cell viability and differentiation. <i>Journal of Materials Research</i> , 2020 , 35, 1249-1261	2.5	2
12	A Novel L-Arginine/L-Glutamine Coupling Hypothesis: Implications for Type 1 Diabetes 2011 ,		2
11	Investigation of lipid peroxidation and catalase activity in magnetic fluid treated mice. <i>Journal of Applied Physics</i> , 2003 , 93, 6709-6711	2.5	2
10	Heat shock response in noise-induced hearing loss: effects of alanyl-glutamine dipeptide supplementation on heat shock proteins status. <i>Brazilian Journal of Otorhinolaryngology</i> , 2020 , 86, 703-710	4.6	2
9	Circadian rhythms as a basis for work organization: a study with live line electricians. <i>Human Factors</i> , 2013 , 55, 204-17	3.8	1
8	The Impact of Inflammation on Pancreatic ECell Metabolism, Function and Failure in T1DM and T2DM: Commonalities and Differences 2013 ,		1
7	Macrophages transfer cholesterol to lymphocytes in culture. <i>Biochemical Society Transactions</i> , 1997 , 25, 345S	5.1	1
6	Glutathione metabolism and glutathione S-conjugate export ATPase (MRP1/GS-X pump) activity in cancer. <i>IUBMB Life</i> , 1998 , 45, 1243-1254	4.7	1
5	Metabolic response of macrophages to injury promoted by the activated complement system. <i>Cell Biochemistry and Function</i> , 1999 , 17, 175-82	4.2	1
4	Metabolic and Molecular Subacute Effects of a Single Moderate-Intensity Exercise Bout, Performed in the Fasted State, in Obese Male Rats. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
3	A-family anti-inflammatory cyclopentenone prostaglandins: A novel class of non-statin inhibitors of HMG-CoA reductase. <i>Biochimie</i> , 2021 , 182, 37-50	4.6	0
2	Exercise training reduces oxidative stress in people living with HIV/AIDS: a pilot study. <i>HIV Clinical Trials</i> , 2018 , 19, 152-157		0
1	Oral Supplementation With Alanyl-glutamine Or Glutamine Prevents Muscle Damage And Oxidative Stress In Trained Rats. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 792	1.2	