Cristina M. Sena

List of Publications by Year
in descending order

72 papers	2,785 citations	185998 28 h-index	182168 51 g-index
79 all docs	79 docs citations	79 times ranked	4874 citing authors

#	Article	IF	Citations
1	Endothelial dysfunction â€" A major mediator of diabetic vascular disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2216-2231.	1.8	601
2	Methylglyoxal promotes oxidative stress and endothelial dysfunction. Pharmacological Research, 2012, 65, 497-506.	3.1	174
3	Vascular Oxidative Stress: Impact and Therapeutic Approaches. Frontiers in Physiology, 2018, 9, 1668.	1.3	158
4	Metformin restores endothelial function in aorta of diabetic rats. British Journal of Pharmacology, 2011, 163, 424-437.	2.7	144
5	Methylglyoxal, obesity, and diabetes. Endocrine, 2013, 43, 472-484.	1.1	137
6	Effects of Î±â€lipoic acid on endothelial function in aged diabetic and highâ€fat fed rats. British Journal of Pharmacology, 2008, 153, 894-906.	2.7	88
7	Insulin protects against amyloid Î²-peptide toxicity in brain mitochondria of diabetic rats. Neurobiology of Disease, 2005, 18, 628-637.	2.1	82
8	CoQ10 therapy attenuates amyloid Î²-peptide toxicity in brain mitochondria isolated from aged diabetic rats. Experimental Neurology, 2005, 196, 112-119.	2.0	82
9	Adiponectin improves endothelial function in mesenteric arteries of rats fed a highâ€fat diet: role of perivascular adipose tissue. British Journal of Pharmacology, 2017, 174, 3514-3526.	2.7	68
10	Methylglyoxal in Metabolic Disorders: Facts, Myths, and Promises. Medicinal Research Reviews, 2017, 37, 368-403.	5.0	67
11	Gliclazide improves anti-oxidant status and nitric oxide-mediated vasodilation in Type 2 diabetes. Diabetic Medicine, 2002, 19, 752-757.	1.2	64
12	Methylglyoxalâ€induced imbalance in the ratio of vascular endothelial growth factor to angiopoietin 2 secreted by retinal pigment epithelial cells leads to endothelial dysfunction. Experimental Physiology, 2010, 95, 955-970.	0.9	61
13	53 rd EASD Annual Meeting of the European Association for the Study of Diabetes. Diabetologia, 2017, 60, 1-608.	2.9	56
14	Supplementation of coenzyme Q10 and Î±-tocopherol lowers glycated hemoglobin level and lipid peroxidation in pancreas of diabetic rats. Nutrition Research, 2008, 28, 113-121.	1.3	54
15	Diabetes mellitus: new challenges and innovative therapies. EPMA Journal, 2010, 1, 138-163.	3.3	48
16	Perivascular adipose tissue in age-related vascular disease. Ageing Research Reviews, 2020, 59, 101040.	5.0	46
17	Insulin Attenuates Diabetes-Related Mitochondrial Alterations: A Comparative Study. Medicinal Chemistry, 2006, 2, 299-308.	0.7	45
18	Methylglyoxal causes structural and functional alterations in adipose tissue independently of obesity. Archives of Physiology and Biochemistry, 2012, 118, 58-68.	1.0	45

#	Article	IF	Citations
19	Increased inflammation, oxidative stress and a reduction in antioxidant defense enzymes in perivascular adipose tissue contribute to vascular dysfunction in type 2 diabetes. Free Radical Biology and Medicine, 2020, 146, 264-274.	1.3	41
20	Sources ofÂendogenous glucose production inÂtheÂGotoâ€“Kakizaki diabetic rat. Diabetes and Metabolism, 2007, 33, 296-302.	1.4	39
21	The Sulforaphane and pyridoxamine supplementation normalize endothelial dysfunction associated with type 2 diabetes. Scientific Reports, 2017, 7, 14357.	1.6	39
22	Antioxidant and vascular effects of gliclazide in type 2 diabetic rats fed high-at diet. Physiological Research, 2009, 58, 203-209.	0.4	35
23	Common mechanisms of dysfunctional adipose tissue and obesityâ€related cancers. Diabetes/Metabolism Research and Reviews, 2013, 29, 285-295.	1.7	34
24	Effects of methylglyoxal and pyridoxamine in rat brain mitochondria bioenergetics and oxidative status. Journal of Bioenergetics and Biomembranes, 2014, 46, 347-355.	1.0	33
25	Dyslipidemia and cardiovascular changes in children. Current Opinion in Cardiology, 2016, 31, 95-100.	0.8	33
26	Methylglyoxal chronic administration promotes diabetes-like cardiac ischaemia disease in Wistar normal rats. Nutrition, Metabolism and Cardiovascular Diseases, 2013, 23, 1223-1230.	1.1	30
27	Insulin Resistance, Dyslipidemia and Cardiovascular Changes in a Group of Obese Children. Arquivos Brasileiros De Cardiologia, 2014, 104, 266-73.	0.3	30
28	Advanced glycation end products and diabetic nephropathy: a comparative study using diabetic and normal rats with methylglyoxal-induced glycation. Journal of Physiology and Biochemistry, 2014, 70, 173-184.	1.3	30
29	A Toxin Fraction (FTX) from the Funnel-Web Spider Poison Inhibits Dihydropyridine-Insensitive Ca2+Channels Coupled to Catecholamine Release in Bovine Adrenal Chromaffin Cells. Journal of Neurochemistry, 1993, 60, 908-913.	2.1	29
30	Lipoic Acid Prevents High-Fat Diet-Induced Hepatic Steatosis in Goto Kakizaki Rats by Reducing Oxidative Stress Through Nrf2 Activation. International Journal of Molecular Sciences, 2018, 19, 2706.	1.8	28
31	Reduction of Methylglyoxal-Induced Glycation by Pyridoxamine Improves Adipose Tissue Microvascular Lesions. Journal of Diabetes Research, 2013, 2013, 1-9.	1.0	27
32	Omentin: A novel therapeutic approach for the treatment of endothelial dysfunction in type 2 diabetes. Free Radical Biology and Medicine, 2021, 162, 233-242.	1.3	22
33	Protein kinase C activator inhibits voltage-sensitive Ca2+channels and catecholamine secretion in adrenal chromaffin cells. FEBS Letters, 1995, 359, 137-141.	1.3	21
34	Differential Regulation of Histamine- and Bradykinin-Stimulated Phospholipase C in Adrenal Chromaffin Cells: Evidence for Involvement of Different Protein Kinase C Isoforms. Journal of Neurochemistry, 2002, 66, 1086-1094.	2.1	20
35	Soybean oil treatment impairs glucose-stimulated insulin secretion and changes fatty acid composition of normal and diabetic islets. Acta Diabetologica, 2007, 44, 121-130.	1.2	20
36	Pyridoxamine Reverts Methylglyoxalâ€induced Impairment of Survival Pathways During Heart Ischemia. Cardiovascular Therapeutics, 2013, 31, e79-85.	1.1	20

#	Article	IF	Citations
37	Pro-inflammatory triggers in childhood obesity: Correlation between leptin, adiponectin and high-sensitivity C-reactive protein in a group of obese Portuguese children. Revista Portuguesa De Cardiologia, 2014, 33, 691-697.	0.2	18
38	Cerebrovascular Disease: Consequences of Obesity-Induced Endothelial Dysfunction. Advances in Neurobiology, 2017, 19, 163-189.	1.3	16
39	Regulation of Ca2+ influx by a protein kinase C activator in chromaffin cells: differential role of P/Q- and L-type Ca2+ channels. European Journal of Pharmacology, 1999, 366, 281-292.	1.7	14
40	Isoform-specific inhibition of voltage-sensitive Ca2+channels by protein kinase C in adrenal chromaffin cells. FEBS Letters, 2001, 492, 146-150.	1.3	14
41	Long-term globular adiponectin administration improves adipose tissue dysmetabolism in high-fat diet-fed Wistar rats. Archives of Physiology and Biochemistry, 2014, 120, 147-157.	1.0	14
42	Endothelial dysfunction in type 2 diabetes: effect of antioxidants. Revista Portuguesa De Cardiologia, 2007, 26, 609-19.	0.2	14
43	Atorvastatin-mediated protection of the retina in a model of diabetes with hyperlipidemia. Canadian Journal of Physiology and Pharmacology, 2014, 92, 1037-1043.	0.7	11
44	Childhood adiposity: being male is a potential cardiovascular risk factor. European Journal of Pediatrics, 2016, 175, 63-69.	1.3	11
45	Type 2 Diabetes Aggravates Alzheimer's Disease-Associated Vascular Alterations of the Aorta in Mice. Journal of Alzheimer's Disease, 2015, 45, 127-138.	1.2	10
46	Effects of Atorvastatin and Insulin in Vascular Dysfunction Associated With Type 2 Diabetes. Physiological Research, 2014, 63, 189-197.	0.4	10
47	Methods to evaluate vascular function: a crucial approach towards predictive, preventive, and personalised medicine. EPMA Journal, 2022, 13, 209-235.	3.3	10
48	Intermedin elicits a negative inotropic effect in rat papillary muscles mediated by endothelial-derived nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1131-H1137.	1.5	9
49	Circulating endothelial progenitor cells in obese children and adolescents. Jornal De Pediatria, 2015, 91, 560-566.	0.9	9
50	Pro-inflammatory triggers in childhood obesity: Correlation between leptin, adiponectin and high-sensitivity C-reactive protein in a group of obese Portuguese children. Revista Portuguesa De Cardiologia (English Edition), 2014, 33, 691-697.	0.2	8
51	Endothelial Dysfunction in Type 2 Diabetes: Targeting Inflammation. , 0, , .		8
52	"MitoTea": Geranium robertianum L. decoctions decrease blood glucose levels and improve liver mitochondrial oxidative phosphorylation in diabetic Goto-Kakizaki rats.. Acta Biochimica Polonica, 2010, 57, .	0.3	6
53	Diabetes Mellitus: New Challenges and Innovative Therapies. Advances in Predictive, Preventive and Personalised Medicine, 2013, , 29-87.	0.6	5
54	Reverse myocardial effects of intermedin in pressureâ€overloaded hearts: role of endothelial nitric oxide synthase activity. Journal of Physiology, 2013, 591, 677-687.	1.3	5

#	Article	IF	Citations
55	The Effect of Soybean Oil on Glycaemic Control in Goto-Kakizaki Rats,an Animal Model of Type 2 Diabetes. Medicinal Chemistry, 2008, 4, 293-297.	0.7	4
56	Multiparticulate Systems of Ezetimibe Micellar System and Atorvastatin Solid Dispersion Efficacy of Low-Dose Ezetimibe/Atorvastatin on High-Fat Diet-Induced Hyperlipidemia and Hepatic Steatosis in Diabetic Rats. Pharmaceutics, 2021, 13, 421.	2.0	4
57	Mitochondrial Function Is Not Affected by Renal Morphological Changes in Diabetic Goto-Kakizaki Rat. Toxicology Mechanisms and Methods, 2005, 15, 253-261.	1.3	3
58	Epicardial adipose tissue: An important therapeutic target. Revista Portuguesa De Cardiologia, 2019, 38, 425-426.	0.2	3
59	Myocardial peak systolic velocityâ€"a tool for cardiac screening of HIV-exposed uninfected children. European Journal of Pediatrics, 2020, 179, 395-404.	1.3	3
60	Luteolin Improves Perivascular Adipose Tissue Profile and Vascular Dysfunction in Goto-Kakizaki Rats. International Journal of Molecular Sciences, 2021, 22, 13671.	1.8	3
61	Regulation of bradykinin responses by PKC Îµ and histamine responses by PKC Î± in adrenal chromaffin cells. Biochemical Society Transactions, 1995, 23, 424S-424S.	1.6	2
62	Obesidade: Paradigma da DisfunÃ§Ã£o Endotelial em Idade PediÃ¡trica. Acta Medica Portuguesa, 2015, 28, 233.	0.2	2
63	Editorial: Oxidative Stress Revisitedâ€"Major Role in Vascular Diseases. Frontiers in Physiology, 2019, 10, 788.	1.3	2
64	MitoTeas: Vaccinium myrtillus and Geranium robertianum decoctions improve diabetic Gotoâ€"Kakizaki rats hepatic mitochondrial oxidative phosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 79-80.	0.5	1
65	P759Novel therapeutic approach to target endothelial dysfunction in type 2 diabetes. Cardiovascular Research, 2014, 103, S139.2-S139.	1.8	1
66	Atherosclerotic Process in Seroreverter Children and Adolescents Exposed to Fetal Antiretroviral Therapy. Current HIV Research, 2021, 19, 216-224.	0.2	1
67	Circulating endothelial progenitor cells in obese children and adolescents. Jornal De Pediatria (VersÃ£o Em PortuguÃªs), 2015, 91, 560-566.	0.2	0
68	Epicardial adipose tissue: An important therapeutic target. Revista Portuguesa De Cardiologia (English) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	0
69	Teaching muscle physiology to medical students. FASEB Journal, 2008, 22, 177-177.	0.2	0
70	Lipoic acid prevents highâ€fat dietâ€induced hepatic steatosis in Goto Kakizaki rats. FASEB Journal, 2008, 22, 134-134.	0.2	0
71	Editorial: Oxidative Stress Revisitedâ€"Major Role in Vascular Diseases, Volume II. Frontiers in Physiology, 2021, 12, 826129.	1.3	0
72	Perivascular adipose tissue. , 2022, , 71-75.		0