Alexandre A Da Silva

List of Publications by Citations

104 papers	3,896 citations	29 h-index	61 g-index
116 ext. papers	4,517 ext. citations	4.2 avg, IF	5.47 L-index

#	Paper	IF	Citations
104	Obesity-induced hypertension: interaction of neurohumoral and renal mechanisms. *Circulation Research*, **2015**, 116, 991-1006	15.7	571
103	Obesity-induced hypertension: role of sympathetic nervous system, leptin, and melanocortins. *Journal of Biological Chemistry*, **2010**, 285, 17271-6	5.4	325
102	Obesity, hypertension, and chronic kidney disease. *International Journal of Nephrology and Renovascular Disease*, **2014**, 7, 75-88	2.5	258
101	Obesity, kidney dysfunction and hypertension: mechanistic links. *Nature Reviews Nephrology*, **2019**, 15, 367-385	14.9	171
100	Aldosterone antagonism attenuates obesity-induced hypertension and glomerular hyperfiltration. *Hypertension*, **2004**, 43, 41-7	8.5	166
99	Is obesity a major cause of chronic kidney disease?. *Advances in Chronic Kidney Disease*, **2004**, 11, 41-54		159
98	Hypertension: physiology and pathophysiology. *Comprehensive Physiology*, **2012**, 2, 2393-442	7.7	145
97	Obesity-associated hypertension and kidney disease. *Current Opinion in Nephrology and Hypertension*, **2003**, 12, 195-200	3.5	121
96	Melanocortin-4 receptor-deficient mice are not hypertensive or salt-sensitive despite obesity, hyperinsulinemia, and hyperleptinemia. *Hypertension*, **2005**, 46, 326-32	8.5	118
95	Melanocortin-4 receptor mediates chronic cardiovascular and metabolic actions of leptin. *Hypertension*, **2006**, 48, 58-64	8.5	108
94	The role of the sympathetic nervous system in obesity-related hypertension. *Current Hypertension Reports*, **2009**, 11, 206-11	4.7	103
93	Control of blood pressure, appetite, and glucose by leptin in mice lacking leptin receptors in proopiomelanocortin neurons. *Hypertension*, **2011**, 57, 918-26	8.5	101
92	Role of hypothalamic melanocortin 3/4-receptors in mediating chronic cardiovascular, renal, and metabolic actions of leptin. *Hypertension*, **2004**, 43, 1312-7	8.5	97
91	Hypothalamic melanocortin receptors and chronic regulation of arterial pressure and renal function. *Hypertension*, **2003**, 41, 768-74	8.5	94
90	Impact of the obesity epidemic on hypertension and renal disease. *Current Hypertension Reports*, **2003**, 5, 386-92	4.7	82
89	Endogenous melanocortin system activity contributes to the elevated arterial pressure in spontaneously hypertensive rats. *Hypertension*, **2008**, 51, 884-90	8.5	68
88	Role of adrenergic activity in pressor responses to chronic melanocortin receptor activation. *Hypertension*, **2004**, 43, 370-5	8.5	64

87	Role of leptin and central nervous system melanocortins in obesity hypertension. *Current Opinion in Nephrology and Hypertension*, **2013**, 22, 135-40	3.5	49
86	Chronic antidiabetic and cardiovascular actions of leptin: role of CNS and increased adrenergic activity. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 291, R1275-82	3.2	47
85	Role of Hyperinsulinemia and Insulin Resistance in Hypertension: Metabolic Syndrome Revisited. *Canadian Journal of Cardiology*, **2020**, 36, 671-682	3.8	46
84	A functional melanocortin system may be required for chronic CNS-mediated antidiabetic and cardiovascular actions of leptin. *Diabetes*, **2009**, 58, 1749-56	0.9	42
83	Renin-angiotensin system function and blood pressure in adult rats after perinatal salt overload. *Nutrition, Metabolism and Cardiovascular Diseases*, **2003**, 13, 133-9	4.5	39
82	Obesity-Induced Hypertension: Brain Signaling Pathways. *Current Hypertension Reports*, **2016**, 18, 58	4.7	38
81	Leptin into the ventrolateral medulla facilitates chemorespiratory response in leptin-deficient (ob/ob) mice. *Acta Physiologica*, **2014**, 211, 240-8	5.6	38
80	Impact of obesity on renal structure and function in the presence and absence of hypertension: evidence from melanocortin-4 receptor-deficient mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2009**, 297, R803-12	3.2	37
79	Chronic central leptin infusion restores cardiac sympathetic-vagal balance and baroreflex sensitivity in diabetic rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H1974-81	5.2	35
78	Activation of the central melanocortin system contributes to the increased arterial pressure in obese Zucker rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 302, R561-7	3.2	34
77	The brain melanocortin system, sympathetic control, and obesity hypertension. *Physiology*, **2014**, 29, 196-202	9.8	31
76	Role of endothelin-1 in blood pressure regulation in a rat model of visceral obesity and hypertension. *Hypertension*, **2004**, 43, 383-7	8.5	29
75	Synergistic Interaction of Hypertension and Diabetes in Promoting Kidney Injury and the Role of Endoplasmic Reticulum Stress. *Hypertension*, **2017**, 69, 879-891	8.5	26
74	Control of metabolic and cardiovascular function by the leptin-brain melanocortin pathway. *IUBMB Life*, **2013**, 65, 692-8	4.7	26
73	Role of proopiomelanocortin neuron Stat3 in regulating arterial pressure and mediating the chronic effects of leptin. *Hypertension*, **2013**, 61, 1066-74	8.5	26
72	Perinatal salt restriction: a new pathway to programming insulin resistance and dyslipidemia in adult wistar rats. *Pediatric Research*, **2004**, 56, 842-8	3.2	26
71	Central leptin replacement enhances chemorespiratory responses in leptin-deficient mice independent of changes in body weight. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 145-53	4.6	25
70	Differential control of metabolic and cardiovascular functions by melanocortin-4 receptors in proopiomelanocortin neurons. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 305, R359-68	3.2	25

69	Does obesity induce resistance to the long-term cardiovascular and metabolic actions of melanocortin 3/4 receptor activation?. *Hypertension*, **2006**, 47, 259-64	8.5	25
68	Shp2 signaling in POMC neurons is important for leptin's actions on blood pressure, energy balance, and glucose regulation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 307, R1438-47	3.2	24
67	Activation of the brain melanocortin system is required for leptin-induced modulation of chemorespiratory function. *Acta Physiologica*, **2015**, 213, 893-901	5.6	23
66	Control of respiratory and cardiovascular functions by leptin. *Life Sciences*, **2015**, 125, 25-31	6.8	23
65	Regulation of Blood Pressure, Appetite, and Glucose by Leptin After Inactivation of Insulin Receptor Substrate 2 Signaling in the Entire Brain or in Proopiomelanocortin Neurons. *Hypertension* , **2016**, 67, 378-86	8.5	22
64	Chronic central ghrelin infusion reduces blood pressure and heart rate despite increasing appetite and promoting weight gain in normotensive and hypertensive rats. *Peptides*, **2013**, 42, 35-42	3.8	22
63	Chronic effects of centrally administered adiponectin on appetite, metabolism and blood pressure regulation in normotensive and hypertensive rats. *Peptides*, **2012**, 37, 1-5	3.8	22
62	Enhanced blood pressure and appetite responses to chronic central melanocortin-3/4 receptor blockade in dietary-induced obesity. *Journal of Hypertension*, **2010**, 28, 1466-70	1.9	22
61	The rise of the plasma lipid concentration elicited by dietary sodium chloride restriction in Wistar rats is due to an impairment of the plasma triacylglycerol removal rate. *Atherosclerosis*, **2001**, 158, 81-6	3.1	22
60	Role of Shp2 in forebrain neurons in regulating metabolic and cardiovascular functions and responses to leptin. *International Journal of Obesity*, **2014**, 38, 775-83	5.5	20
59	Inhibition of soluble epoxide hydrolase reduces food intake and increases metabolic rate in obese mice. *Nutrition, Metabolism and Cardiovascular Diseases*, **2012**, 22, 598-604	4.5	20
58	Brain-mediated antidiabetic, anorexic, and cardiovascular actions of leptin require melanocortin-4 receptor signaling. *Journal of Neurophysiology*, **2015**, 113, 2786-91	3.2	19
57	Chronic blood pressure and appetite responses to central leptin infusion in rats fed a high fat diet. *Journal of Hypertension*, **2011**, 29, 758-62	1.9	18
56	Role of the brain melanocortins in blood pressure regulation. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 2508-2514	6.9	17
55	Melanocortin-4 Receptors and Sympathetic Nervous System Activation in Hypertension. *Current Hypertension Reports*, **2019**, 21, 46	4.7	17
54	Systemic but not central nervous system nitric oxide synthase inhibition exacerbates the hypertensive effects of chronic melanocortin-3/4 receptor activation. *Hypertension*, **2011**, 57, 428-34	8.5	16
53	Obesity, kidney dysfunction, and inflammation: interactions in hypertension. *Cardiovascular Research*, **2021**, 117, 1859-1876	9.9	16
52	Chronic central nervous system MC3/4R blockade attenuates hypertension induced by nitric oxide synthase inhibition but not by angiotensin II infusion. *Hypertension*, **2015**, 65, 171-7	8.5	15

51	Cardiovascular, renal, and metabolic responses to chronic central administration of agouti-related peptide. *Hypertension*, **2004**, 44, 853-8	8.5	14
50	Chronic central nervous system hyperinsulinemia and regulation of arterial pressure and food intake. *Journal of Hypertension*, **2006**, 24, 1391-5	1.9	13
49	Role of autonomic nervous system in chronic CNS-mediated antidiabetic action of leptin. *American Journal of Physiology - Endocrinology and Metabolism*, **2017**, 312, E420-E428	6	12
48	Mechanisms of Synergistic Interactions of Diabetes and Hypertension in Chronic Kidney Disease: Role of Mitochondrial Dysfunction and ER Stress. *Current Hypertension Reports*, **2020**, 22, 15	4.7	12
47	Inhibitor B kinase 2 is a myosin light chain kinase in vascular smooth muscle. *Circulation Research*, **2013**, 113, 562-70	15.7	11
46	Pathophysiology of Obesity-Induced Hypertension and Target Organ Damage **2007**, 447-468		11
45	Leptin reverses hyperglycemia and hyperphagia in insulin deficient diabetic rats by pituitary-independent central nervous system actions. *PLoS ONE*, **2017**, 12, e0184805	3.7	10
44	CNS Regulation of Glucose Homeostasis: Role of the Leptin-Melanocortin System. *Current Diabetes Reports*, **2020**, 20, 29	5.6	9
43	Impact of leptin deficiency compared with neuronal-specific leptin receptor deletion on cardiometabolic regulation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2019**, 317, R552-R562	3.2	7
42	Maternal high-sodium intake alters the responsiveness of the renin-angiotensin system in adult offspring. *Life Sciences*, **2012**, 90, 785-92	6.8	7
41	Role of SOCS3 in POMC neurons in metabolic and cardiovascular regulation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2019**, 316, R338-R351	3.2	6
40	Restoration of Cardiac Function After Myocardial Infarction by Long-Term Activation of the CNS Leptin-Melanocortin System. *JACC Basic To Translational Science*, **2021**, 6, 55-70	8.7	6
39	Changes in ambient temperature elicit divergent control of metabolic and cardiovascular actions by leptin. *FASEB Journal*, **2017**, 31, 2418-2428	0.9	5
38	Neuronal Suppressor of Cytokine Signaling 3: Role in Modulating Chronic Metabolic and Cardiovascular Effects of Leptin. *Hypertension*, **2018**, 71, 1248-1257	8.5	5
37	Control of appetite, blood glucose, and blood pressure during melanocortin-4 receptor activation in normoglycemic and diabetic NPY-deficient mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R533-R539	3.2	4
36	Role of hindbrain melanocortin-4 receptor activity in controlling cardiovascular and metabolic functions in spontaneously hypertensive rats. *Journal of Hypertension*, **2015**, 33, 1201-6	1.9	4
35	In search for potential antidiabetic compounds from natural sources: docking, synthesis and biological screening of small molecules from . (Goji). *Heliyon*, **2020**, 6, e02782	3.6	4
34	Role of melanocortin 4 receptor in hypertension induced by chronic intermittent hypoxia. *Acta Physiologica*, **2019**, 225, e13222	5.6	4

33	Chronic CNS-mediated cardiometabolic actions of leptin: potential role of sex differences. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R173-R181	3.2	3
32	Dimethyl fumarate preserves left ventricular infarct integrity following myocardial infarction via modulation of cardiac macrophage and fibroblast oxidative metabolism. *Journal of Molecular and Cellular Cardiology*, **2021**, 158, 38-48	5.8	3
31	Abstract 27: Leptin Reduces Food Intake but Fails to Raise Blood Pressure In Mice With Deficiency of Insulin Receptor Substrate (IRS2) In the Entire Brain or Specifically in Pomc Neurons. *Hypertension*, **2012**, 60,	8.5	2
30	Effects of leptin in the retrotrapezoid nucleus (RTN) on CO2-sensitivity and respiration.. *FASEB Journal*, **2013**, 27, 1137.12	0.9	2
29	Interaction of Obesity and Hypertension on Cardiac Metabolic Remodeling and Survival Following Myocardial Infarction. *Journal of the American Heart Association*, **2021**, 10, e018212	6	2
28	Increased sleep time and reduced energy expenditure contribute to obesity after ovariectomy and a high fat diet. *Life Sciences*, **2018**, 212, 119-128	6.8	2
27	Regulation of Blood Pressure, Appetite, and Glucose by CNS Melanocortin System in Hyperandrogenemic Female SHR. *American Journal of Hypertension*, **2016**, 29, 832-40	2.3	1
26	Impact of Mineralocorticoid Receptor and Angiotensin II Type 1 Receptor Antagonism on Blood Pressure Regulation in Obese Zucker Rats: Role of Sex Differences. *American Journal of Hypertension*, **2021**, 34, 999-1005	2.3	1
25	TRPC6 deficiency causes obesity and metabolic dysfunction. *FASEB Journal*, **2019**, 33, 753.1	0.9	1
24	Ganglionic blockade does not impair the chronic CNS-mediated antidiabetic action of leptin in streptozotocin-induced diabetic rats. *FASEB Journal*, **2012**, 26, 1128.3	0.9	1
23	Chronic Antidiabetic Actions of Leptin: Evidence From Parabiosis Studies for a CNS-Derived Circulating Antidiabetic Factor. *Diabetes*, **2021**, 70, 2264-2274	0.9	1
22	Sex differences in the impact of parental obesity on offspring cardiac SIRT3 expression, mitochondrial efficiency, and diastolic function early in life. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 321, H485-H495	5.2	0
21	Role of the kidney in hypertension **2013**, 66-83		
20	Obesity and Hypertension: Impact on Cardiovascular and Renal Systems **2005**, 464-474		
19	Chronic MC3/4R activation does not mimic the actions of leptin on baroreceptor sensitivity and heart rate regulation in diabetic rats. *FASEB Journal*, **2008**, 22, 947.5	0.9	
18	Cardiovascular function and metabolism in old melanocortin-4 receptor deficient obese mice.. *FASEB Journal*, **2008**, 22, 947.2	0.9	
17	Cardiovascular and metabolic responses to chronic central MC3/4R antagonism in rats fed a high fat diet. *FASEB Journal*, **2008**, 22, 947.4	0.9	
16	Evidence for a circulating factor released by the brain that contributes to chronic antidiabetic actions of leptin. *FASEB Journal*, **2018**, 32, 603.3	0.9	

15	Role of Melanocortin-4 Receptor Activation in Hypertension Induced by Chronic Intermittent Hypoxia. *FASEB Journal*, **2018**, 32, 727.6	0.9
14	Metabolic and cardiovascular responses to chronic intermittent hypoxia and hypercapnia. *FASEB Journal*, **2019**, 33, 533.4	0.9
13	Chronic Intracerebroventricular Leptin Infusion Attenuates Cardiac Dysfunction After Myocardial Infarction. *FASEB Journal*, **2019**, 33, 830.6	0.9
12	Impact of maternal obesity on body weight regulation and sleep time in offspring. *FASEB Journal*, **2019**, 33, 753.4	0.9
11	Differential Regulation of Cardiac Substrate Utilization in Response to Chronic Central Nervous System Administration of Leptin and Melanotan II in Rats with Myocardial Infarction. *FASEB Journal*, **2019**, 33, 532.10	0.9
10	TRPC6 deficiency causes increased body weight and glucose intolerance in mice fed a normal diet but does not amplify the obesogenic effect of a high fat diet. *FASEB Journal*, **2020**, 34, 1-1	0.9
9	Effects of Hyperandrogenemia on Cardiovascular and Metabolic Responses to Chronic Melanocortin-4 Receptor Blockade in Female SHR. *FASEB Journal*, **2015**, 29, 647.2	0.9
8	Interaction of Hypertension and Diabetes in Progressive Nephropathy: Role of ER Stress. *FASEB Journal*, **2015**, 29, 959.9	0.9
7	Cardiovascular and metabolic regulation in mice with Shp2 deletion in forebrain neurons. *FASEB Journal*, **2009**, 23, 785.5	0.9
6	Central NPY deficiency does not enhance the chronic actions of melanocortin 3 and 4 receptors (MC3/4R) activation on glucose homeostasis, appetite and cardiovascular function in diabetic mice. *FASEB Journal*, **2010**, 24, 597.6	0.9
5	Metabolic and appetite responses to fasting and refeeding in mice with Shp2 deletion in forebrain neurons. *FASEB Journal*, **2012**, 26, 877.2	0.9
4	AT1 receptor antagonism but not mineralocorticoid receptor blockade lowers blood pressure in obese Zucker rats. *FASEB Journal*, **2012**, 26, 1093.6	0.9
3	Shp2 signaling in Pomc neurons is important for leptinʊ actions on blood pressure, energy balance and glucose homeostasis.. *FASEB Journal*, **2013**, 27, 1120.3	0.9
2	Cardiovascular and metabolic regulation in mice with neuron specific deletion of the leptin receptor.. *FASEB Journal*, **2013**, 27, 1153.6	0.9
1	Hypophysectomy attenuates leptin-induced tachycardia without affecting leptinʊ action on appetite and body weight.. *FASEB Journal*, **2013**, 27, 1123.12	0.9