Guillermo Zalba

List of Publications by Citations

89 papers	3,570 citations	35 h-index	58 g-index
94 ext. papers	3,978 ext. citations	5 avg, IF	4.77 L-index

#	Paper	IF	Citations
89	Oxidative stress in arterial hypertension: role of NAD(P)H oxidase. *Hypertension*, **2001**, 38, 1395-9	8.5	344
88	Vascular NADH/NADPH oxidase is involved in enhanced superoxide production in spontaneously hypertensive rats. *Hypertension*, **2000**, 35, 1055-61	8.5	318
87	Oxidative stress and vascular remodelling. *Experimental Physiology*, **2005**, 90, 457-62	2.4	108
86	Effects of loop diuretics on angiotensin II-stimulated vascular smooth muscle cell growth. *Nephrology Dialysis Transplantation*, **2001**, 16 Suppl 1, 14-7	4.3	108
85	Phagocytic NADPH oxidase overactivity underlies oxidative stress in metabolic syndrome. *Diabetes*, **2006**, 55, 209-15	0.9	106
84	The inhibitory effect of leptin on angiotensin II-induced vasoconstriction in vascular smooth muscle cells is mediated via a nitric oxide-dependent mechanism. *Endocrinology*, **2007**, 148, 324-31	4.8	100
83	Galectin-3, a biomarker linking oxidative stress and inflammation with the clinical outcomes of patients with atherothrombosis. *Journal of the American Heart Association*, **2014**, 3,	6	95
82	Losartan inhibits the post-transcriptional synthesis of collagen type I and reverses left ventricular fibrosis in spontaneously hypertensive rats. *Journal of Hypertension*, **1999**, 17, 107-14	1.9	92
81	Dietary inflammatory index and telomere length in subjects with a high cardiovascular disease risk from the PREDIMED-NAVARRA study: cross-sectional and longitudinal analyses over 5 y. *American Journal of Clinical Nutrition*, **2015**, 102, 897-904	7	82
80	Functional effect of the p22phox -930A/G polymorphism on p22phox expression and NADPH oxidase activity in hypertension. *Hypertension*, **2004**, 44, 163-9	8.5	80
79	Association of increased phagocytic NADPH oxidase-dependent superoxide production with diminished nitric oxide generation in essential hypertension. *Journal of Hypertension*, **2004**, 22, 2169-75	1.9	80
78	NADPH oxidase-mediated oxidative stress: genetic studies of the p22(phox) gene in hypertension. *Antioxidants and Redox Signaling*, **2005**, 7, 1327-36	8.4	80
77	NADPH oxidase CYBA polymorphisms, oxidative stress and cardiovascular diseases. *Clinical Science*, **2008**, 114, 173-82	6.5	78
76	G protein-coupled receptor kinase 2 plays a relevant role in insulin resistance and obesity. *Diabetes*, **2010**, 59, 2407-17	0.9	77
75	The C242T CYBA polymorphism of NADPH oxidase is associated with essential hypertension. *Journal of Hypertension*, **2006**, 24, 1299-306	1.9	75
74	Longitudinal association of telomere length and obesity indices in an intervention study with a Mediterranean diet: the PREDIMED-NAVARRA trial. *International Journal of Obesity*, **2014**, 38, 177-82	5.5	74
73	Preliminary characterisation of the promoter of the human p22(phox) gene: identification of a new polymorphism associated with hypertension. *FEBS Letters*, **2003**, 542, 27-31	3.8	73

72	Phagocytic NADPH oxidase-dependent superoxide production stimulates matrix metalloproteinase-9: implications for human atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 587-93	9.4	71
71	Cardiomyocyte apoptotic cell death in arterial hypertension: mechanisms and potential management. *Hypertension*, **2001**, 38, 1406-12	8.5	70
70	Dietary total antioxidant capacity is associated with leukocyte telomere length in a children and adolescent population. *Clinical Nutrition*, **2015**, 34, 694-9	5.9	62
69	NADPH oxidase-dependent superoxide production is associated with carotid intima-media thickness in subjects free of clinical atherosclerotic disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 1452-7	9.4	58
68	Polymorphisms and promoter overactivity of the p22(phox) gene in vascular smooth muscle cells from spontaneously hypertensive rats. *Circulation Research*, **2001**, 88, 217-22	15.7	55
67	Mediterranean diet and telomere length in high cardiovascular risk subjects from the PREDIMED-NAVARRA study. *Clinical Nutrition*, **2016**, 35, 1399-1405	5.9	55
66	Losartan metabolite EXP3179 blocks NADPH oxidase-mediated superoxide production by inhibiting protein kinase C: potential clinical implications in hypertension. *Hypertension*, **2009**, 54, 744-50	8.5	54
65	Oxidative stress, endothelial dysfunction and cerebrovascular disease. *Cerebrovascular Diseases*, **2007**, 24 Suppl 1, 24-9	3.2	54
64	Telomere length as a biomarker for adiposity changes after a multidisciplinary intervention in overweight/obese adolescents: the EVASYON study. *PLoS ONE*, **2014**, 9, e89828	3.7	53
63	Oxidative stress and atherosclerosis in early chronic kidney disease. *Nephrology Dialysis Transplantation*, **2006**, 21, 2686-90	4.3	50
62	Mechanisms of increased susceptibility to angiotensin II-induced apoptosis in ventricular cardiomyocytes of spontaneously hypertensive rats. *Hypertension*, **2000**, 36, 1065-71	8.5	49
61	Peroxisome proliferator-activated receptor-activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. *Journal of Hypertension*, **2012**, 30, 315-26	1.9	43
60	Torasemide inhibits angiotensin II-induced vasoconstriction and intracellular calcium increase in the aorta of spontaneously hypertensive rats. *Hypertension*, **1999**, 34, 138-43	8.5	43
59	Increased CD74 expression in human atherosclerotic plaques: contribution to inflammatory responses in vascular cells. *Cardiovascular Research*, **2009**, 83, 586-94	9.9	40
58	Molecular mechanisms of atherosclerosis in metabolic syndrome: role of reduced IRS2-dependent signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 2187-94	9.4	40
57	The loop diuretic torasemide interferes with endothelin-1 actions in the aorta of hypertensive rats. *Nephrology Dialysis Transplantation*, **2001**, 16 Suppl 1, 18-21	4.3	40
56	Is the balance between nitric oxide and superoxide altered in spontaneously hypertensive rats with endothelial dysfunction?. *Nephrology Dialysis Transplantation*, **2001**, 16 Suppl 1, 2-5	4.3	39
55	Increased phagocytic nicotinamide adenine dinucleotide phosphate oxidase-dependent superoxide production in patients with early chronic kidney disease. *Kidney International*, **2005**, S71-5	9.9	38

54	Insulin-induced NADPH oxidase activation promotes proliferation and matrix metalloproteinase activation in monocytes/macrophages. *Free Radical Biology and Medicine*, **2009**, 46, 1058-67	7.8	33
53	Pro12Ala polymorphism of the PPARΩ gene interacts with a mediterranean diet to prevent telomere shortening in the PREDIMED-NAVARRA randomized trial. *Circulation: Cardiovascular Genetics*, **2015**, 8, 91-9		32
52	Is leptin involved in phagocytic NADPH oxidase overactivity in obesity? Potential clinical implications. *Journal of Hypertension*, **2010**, 28, 1944-50	1.9	32
51	The inhibitory effect of leptin on angiotensin II-induced vasoconstriction is blunted in spontaneously hypertensive rats. *Journal of Hypertension*, **2006**, 24, 1589-97	1.9	32
50	HIF-1-mediated up-regulation of cardiotrophin-1 is involved in the survival response of cardiomyocytes to hypoxia. *Cardiovascular Research*, **2011**, 92, 247-55	9.9	31
49	A novel CYBA variant, the -675A/T polymorphism, is associated with essential hypertension. *Journal of Hypertension*, **2007**, 25, 1620-6	1.9	31
48	The A1166C polymorphism of the AT1 receptor gene is associated with collagen type I synthesis and myocardial stiffness in hypertensives. *Journal of Hypertension*, **2003**, 21, 2085-2092	1.9	31
47	Thioredoxin-1/peroxiredoxin-1 as sensors of oxidative stress mediated by NADPH oxidase activity in atherosclerosis. *Free Radical Biology and Medicine*, **2015**, 86, 352-61	7.8	29
46	TWEAK/Fn14 interaction promotes oxidative stress through NADPH oxidase activation in macrophages. *Cardiovascular Research*, **2015**, 108, 139-47	9.9	26
45	Galectin-3 down-regulates antioxidant peroxiredoxin-4 in human cardiac fibroblasts: a new pathway to induce cardiac damage. *Clinical Science*, **2018**, 132, 1471-1485	6.5	26
44	NADPH oxidase 5 promotes proliferation and fibrosis in human hepatic stellate cells. *Free Radical Biology and Medicine*, **2018**, 126, 15-26	7.8	22
43	Matrix metalloproteinase-10 deficiency delays atherosclerosis progression and plaque calcification. *Atherosclerosis*, **2018**, 278, 124-134	3.1	20
42	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. *Hypertension*, **2018**, 72, 492-502	8.5	19
41	Mechanisms underlying the cardiac antifibrotic effects of losartan metabolites. *Scientific Reports*, **2017**, 7, 41865	4.9	17
40	Increased phagocytic NADPH oxidase activity associates with coronary artery calcification in asymptomatic men. *Free Radical Research*, **2017**, 51, 389-396	4	16
39	p53-mediated upregulation of BAX gene transcription is not involved in Bax-alpha protein overexpression in the left ventricle of spontaneously hypertensive rats. *Hypertension*, **1999**, 33, 1348-52	8.5	16
38	A Role for MMP-10 (Matrix Metalloproteinase-10) in Calcific Aortic Valve Stenosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1370-1382	9.4	15
37	Ultra-processed food consumption and the risk of short telomeres in an elderly population of the Seguimiento Universidad de Navarra (SUN) Project. *American Journal of Clinical Nutrition*, **2020**, 111, 1259-1266	7	15

36	A synthetic peptide from transforming growth factor-type III receptor inhibits NADPH oxidase and prevents oxidative stress in the kidney of spontaneously hypertensive rats. *Antioxidants and Redox Signaling*, **2013**, 19, 1607-18	8.4	14
35	Association of phagocytic NADPH oxidase activity with hypertensive heart disease: a role for cardiotrophin-1?. *Hypertension*, **2014**, 63, 468-74	8.5	14
34	Blockade of TGF-1 signalling inhibits cardiac NADPH oxidase overactivity in hypertensive rats. *Oxidative Medicine and Cellular Longevity*, **2012**, 2012, 726940	6.7	14
33	Molecular cloning and characterization of the human p44 mitogen-activated protein kinase gene. *Genomics*, **1998**, 50, 69-78	4.3	14
32	The senescence-accelerated mouse prone-8 (SAM-P8) oxidative stress is associated with upregulation of renal NADPH oxidase system. *Journal of Physiology and Biochemistry*, **2013**, 69, 927-35	5	13
31	Association between diet quality indexes and the risk of short telomeres in an elderly population of the SUN project. *Clinical Nutrition*, **2020**, 39, 2487-2494	5.9	13
30	Association of cardiotrophin-1 with left ventricular systolic properties in asymptomatic hypertensive patients. *Journal of Hypertension*, **2013**, 31, 587-94	1.9	12
29	Insulin resistance determines phagocytic nicotinamide adenine dinucleotide phosphate oxidase overactivation in metabolic syndrome patients. *Journal of Hypertension*, **2009**, 27, 1420-30	1.9	12
28	Pistachio consumption modulates DNA oxidation and genes related to telomere maintenance: a crossover randomized clinical trial. *American Journal of Clinical Nutrition*, **2019**, 109, 1738-1745	7	11
27	Decreased Nox4 levels in the myocardium of patients with aortic valve stenosis. *Clinical Science*, **2013**, 125, 291-300	6.5	10
26	Induction of Cyclooxygenase-2 by Overexpression of the Human NADPH Oxidase 5 (NOX5) Gene in Aortic Endothelial Cells. *Cells*, **2020**, 9,	7.9	9
25	The angiotensin-converting enzyme insertion/deletion polymorphism is associated with phagocytic NADPH oxidase-dependent superoxide generation: potential implication in hypertension. *Clinical Science*, **2009**, 116, 233-40	6.5	8
24	Associations of telomere length with anthropometric and glucose changes after a lifestyle intervention in abdominal obese children. *Nutrition, Metabolism and Cardiovascular Diseases*, **2020**, 30, 694-700	4.5	8
23	NADPH Oxidase Overactivity Underlies Telomere Shortening in Human Atherosclerosis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
22	Two variants in the fibulin2 gene are associated with lower systolic blood pressure and decreased risk of hypertension. *PLoS ONE*, **2012**, 7, e43051	3.7	7
21	CYBA gene variants as biomarkers for coronary artery disease. *Drug News and Perspectives*, **2010**, 23, 316-24		7
20	Association of telomere length with IL-6 levels during an obesity treatment in adolescents: interaction with the-174G/C polymorphism in the IL-6gene. *Pediatric Obesity*, **2017**, 12, 257-263	4.6	6
19	Association of the peroxisome proliferator-activated receptor gene L162V polymorphism with stage C heart failure. *Journal of Hypertension*, **2011**, 29, 876-83	1.9	6

18	Generation of eight adjacent mutations in a single step using a site-directed mutagenesis kit. *Clinical Chemistry and Laboratory Medicine*, **2004**, 42, 384-6	5.9	6
17	Association between favourable changes in objectively measured physical activity and telomere length after a lifestyle intervention in pediatric patients with abdominal obesity. *Applied Physiology, Nutrition and Metabolism*, **2021**, 46, 205-212	3	6
16	Protective effect of the 1742(C/G) polymorphism of human cardiotrophin-1 against left ventricular hypertrophy in essential hypertension. *Journal of Hypertension*, **2010**, 28, 2219-26	1.9	5
15	The A640G CYBA polymorphism associates with subclinical atherosclerosis in diabetes. *Frontiers in Bioscience - Elite*, **2011**, 3, 1467-74	1.6	5
14	Associations of telomere length with two dietary quality indices after a lifestyle intervention in children with abdominal obesity: a randomized controlled trial. *Pediatric Obesity*, **2020**, 15, e12661	4.6	4
13	Implications of NADPH oxidase 5 in vascular diseases. *International Journal of Biochemistry and Cell Biology*, **2020**, 128, 105851	5.6	4
12	NADPH Oxidase 5 Induces Changes in the Unfolded Protein Response in Human Aortic Endothelial Cells and in Endothelial-Specific Mice. *Antioxidants*, **2021**, 10,	7.1	3
11	Endothelial Nox5 Expression Modulates Glucose Uptake and Lipid Accumulation in Mice Fed a High-Fat Diet and 3T3-L1 Adipocytes Treated with Glucose and Palmitic Acid. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
10	Expression of Endothelial NOX5 Alters the Integrity of the Blood-Brain Barrier and Causes Loss of Memory in Aging Mice. *Antioxidants*, **2021**, 10,	7.1	2
9	Higher adherence to an empirically derived Mediterranean dietary pattern is positively associated with telomere length: the Seguimiento Universidad de Navarra (SUN) project. *British Journal of Nutrition*, **2021**, 126, 531-540	3.6	1
8	Connection Between the Early Phases of Kidney Disease and the Metabolic Syndrome. *Revista Espanola De Cardiologia (English Ed)*, **2011**, 64, 373-378	0.7	1
7	o-Iodosobenzoic oxidation and cleavage of myosin subfragment 1. *International Journal of Biochemistry & Cell Biology*, **1992**, 24, 133-43		1
6	Association between ideal cardiovascular health and telomere length in participants older than 55 years old from the SUN cohort. *Revista Espanola De Cardiologia (English Ed)*, **2021**,	0.7	1
5	Inside the Thrombus: Association of Hemostatic Parameters With Outcomes in Large Vessel Stroke Patients. *Frontiers in Neurology*, **2021**, 12, 599498	4.1	1
4	Relationship of the CYBA Gene Polymorphisms with Oxidative Stress and Cardiovascular Risk **2010**, 169-186		0
3	¿El s□drome metab□co en Espa□ necesita m□ estudios descriptivos o m□ evidencia de su implicaci□ en prevenci□ secundaria? Respuesta. *Revista Espanola De Cardiologia*, **2011**, 64, 947-948	1.5	
2	Does the Metabolic Syndrome Need More Descriptive Studies or More Evidence of Its Implication in Secondary Prevention? Response. *Revista Espanola De Cardiologia (English Ed)*, **2011**, 64, 947-948	0.7	
1	Corrigendum to □reliminary characterisation of the promoter of the human p22phox gene: Identification of a new polymorphism associated with hypertension□[FEBS Lett. 542 (2003) 27□1]. *FEBS Letters*, **2010**, 584, 4709-4709	3.8	