

Guillermo Zalba

List of Publications by Year in descending order

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93
papers

4,351
citations

87888
38
h-index

110387
64
g-index

94
all docs

94
docs citations

94
times ranked

5731
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative Stress in Arterial Hypertension. Hypertension, 2001, 38, 1395-1399.	2.7	380
2	Vascular NADH/NADPH Oxidase Is Involved in Enhanced Superoxide Production in Spontaneously Hypertensive Rats. Hypertension, 2000, 35, 1055-1061.	2.7	339
3	Oxidative stress and vascular remodelling. Experimental Physiology, 2005, 90, 457-462.	2.0	129
4	Phagocytic NADPH Oxidase Overactivity Underlies Oxidative Stress in Metabolic Syndrome. Diabetes, 2006, 55, 209-215.	0.6	121
5	Effects of loop diuretics on angiotensin II-stimulated vascular smooth muscle cell growth. Nephrology Dialysis Transplantation, 2001, 16, 14-17.	0.7	118
6	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, .	3.7	116
7	Losartan inhibits the post-transcriptional synthesis of collagen type I and reverses left ventricular fibrosis in spontaneously hypertensive rats. Journal of Hypertension, 1999, 17, 107-114.	0.5	111
8	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, 324-331.	2.8	110
9	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.	4.7	104
10	G Protein-Coupled Receptor Kinase 2 Plays a Relevant Role in Insulin Resistance and Obesity. Diabetes, 2010, 59, 2407-2417.	0.6	99
11	Association of increased phagocytic NADPH oxidase-dependent superoxide production with diminished nitric oxide generation in essential hypertension. Journal of Hypertension, 2004, 22, 2169-2175.	0.5	92
12	NADPH oxidase <i>CYBA</i> polymorphisms, oxidative stress and cardiovascular diseases. Clinical Science, 2008, 114, 173-182.	4.3	90
13	Functional Effect of the p22 phox ⁹³⁰ A/G Polymorphism on p22 phox Expression and NADPH Oxidase Activity in Hypertension. Hypertension, 2004, 44, 163-169.	2.7	89
14	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, 177-182.	3.4	89
15	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.	2.8	86
16	NADPH Oxidase-Mediated Oxidative Stress: Genetic Studies of the p22 ^{phox} Gene in Hypertension. Antioxidants and Redox Signaling, 2005, 7, 1327-1336.	5.4	86
17	The C242T CYBA polymorphism of NADPH oxidase is associated with essential hypertension. Journal of Hypertension, 2006, 24, 1299-1306.	0.5	83
18	Cardiomyocyte Apoptotic Cell Death in Arterial Hypertension. Hypertension, 2001, 38, 1406-1412.	2.7	82

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19	Phagocytic NADPH Oxidase-Dependent Superoxide Production Stimulates Matrix Metalloproteinase-9. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 587-593.	2.4	82
20	Dietary total antioxidant capacity is associated with leukocyte telomere length in a children and adolescent population. Clinical Nutrition, 2015, 34, 694-699.	5.0	75
21	Mediterranean diet and telomere length in high cardiovascular risk subjects from the PREDIMED-NAVARRA study. Clinical Nutrition, 2016, 35, 1399-1405.	5.0	75
22	Telomere Length as a Biomarker for Adiposity Changes after a Multidisciplinary Intervention in Overweight/Obese Adolescents: The EVASYON Study. PLoS ONE, 2014, 9, e89828.	2.5	74
23	Oxidative stress and atherosclerosis in early chronic kidney disease. Nephrology Dialysis Transplantation, 2006, 21, 2686-2690.	0.7	68
24	Oxidative Stress, Endothelial Dysfunction and Cerebrovascular Disease. Cerebrovascular Diseases, 2007, 24, 24-29.	1.7	65
25	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, 1452-1457.	2.4	62
26	Losartan Metabolite EXP3179 Blocks NADPH Oxidase-Mediated Superoxide Production by Inhibiting Protein Kinase C. Hypertension, 2009, 54, 744-750.	2.7	62
27	Polymorphisms and Promoter Overactivity of the p22phoxGene in Vascular Smooth Muscle Cells From Spontaneously Hypertensive Rats. Circulation Research, 2001, 88, 217-222.	4.5	61
28	Mechanisms of Increased Susceptibility to Angiotensin II-Induced Apoptosis in Ventricular Cardiomyocytes of Spontaneously Hypertensive Rats. Hypertension, 2000, 36, 1065-1071.	2.7	59
29	Increased CD74 expression in human atherosclerotic plaques: contribution to inflammatory responses in vascular cells. Cardiovascular Research, 2009, 83, 586-594.	3.8	55
30	Molecular Mechanisms of Atherosclerosis in Metabolic Syndrome. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 2187-2194.	2.4	51
31	Peroxisome proliferator-activated receptor- γ activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. Journal of Hypertension, 2012, 30, 315-326.	0.5	51
32	Torsemide Inhibits Angiotensin II-Induced Vasoconstriction and Intracellular Calcium Increase in the Aorta of Spontaneously Hypertensive Rats. Hypertension, 1999, 34, 138-143.	2.7	48
33	The loop diuretic torsemide interferes with endothelin-1 actions in the aorta of hypertensive rats. Nephrology Dialysis Transplantation, 2001, 16, 18-21.	0.7	47
34	Is the balance between nitric oxide and superoxide altered in spontaneously hypertensive rats with endothelial dysfunction?. Nephrology Dialysis Transplantation, 2001, 16, 2-5.	0.7	46
35	Increased phagocytic nicotinamide adenine dinucleotide phosphate oxidase-dependent superoxide production in patients with early chronic kidney disease. Kidney International, 2005, 68, S71-S75.	5.2	45
36	Is leptin involved in phagocytic NADPH oxidase overactivity in obesity? Potential clinical implications. Journal of Hypertension, 2010, 28, 1944-1950.	0.5	44

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37	Pro12Ala Polymorphism of the <i>PPARγ2</i> Gene Interacts With a Mediterranean Diet to Prevent Telomere Shortening in the PREDIMED-NAVARRA Randomized Trial. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 91-99.	5.1	43
38	HIF-1-mediated up-regulation of cardiotrophin-1 is involved in the survival response of cardiomyocytes to hypoxia. <i>Cardiovascular Research</i> , 2011, 92, 247-255.	3.8	42
39	Insulin-induced NADPH oxidase activation promotes proliferation and matrix metalloproteinase activation in monocytes/macrophages. <i>Free Radical Biology and Medicine</i> , 2009, 46, 1058-1067.	2.9	40
40	TWEAK/Fn14 interaction promotes oxidative stress through NADPH oxidase activation in macrophages. <i>Cardiovascular Research</i> , 2015, 108, 139-147.	3.8	40
41	The inhibitory effect of leptin on angiotensin II-induced vasoconstriction is blunted in spontaneously hypertensive rats. <i>Journal of Hypertension</i> , 2006, 24, 1589-1597.	0.5	37
42	Galectin-3 down-regulates antioxidant peroxiredoxin-4 in human cardiac fibroblasts: a new pathway to induce cardiac damage. <i>Clinical Science</i> , 2018, 132, 1471-1485.	4.3	37
43	A Role for MMP-10 (Matrix Metalloproteinase-10) in Calcific Aortic Valve Stenosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1370-1382.	2.4	36
44	The A1166C polymorphism of the AT1 receptor gene is associated with collagen type I synthesis and myocardial stiffness in hypertensives. <i>Journal of Hypertension</i> , 2003, 21, 2085-2092.	0.5	34
45	A novel CYBA variant, the α^*675A/T polymorphism, is associated with essential hypertension. <i>Journal of Hypertension</i> , 2007, 25, 1620-1626.	0.5	34
46	Thioredoxin-1/peroxiredoxin-1 as sensors of oxidative stress mediated by NADPH oxidase activity in atherosclerosis. <i>Free Radical Biology and Medicine</i> , 2015, 86, 352-361.	2.9	34
47	Ultra-processed food consumption and the risk of short telomeres in an elderly population of the Seguimiento Universidad de Navarra (SUN) Project. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 1259-1266.	4.7	33
48	NADPH oxidase 5 promotes proliferation and fibrosis in human hepatic stellate cells. <i>Free Radical Biology and Medicine</i> , 2018, 126, 15-26.	2.9	31
49	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. <i>Hypertension</i> , 2018, 72, 492-502.	2.7	29
50	Matrix metalloproteinase-10 deficiency delays atherosclerosis progression and plaque calcification. <i>Atherosclerosis</i> , 2018, 278, 124-134.	0.8	27
51	Association between diet quality indexes and the risk of short telomeres in an elderly population of the SUN project. <i>Clinical Nutrition</i> , 2020, 39, 2487-2494.	5.0	26
52	Pistachio consumption modulates DNA oxidation and genes related to telomere maintenance: a crossover randomized clinical trial. <i>American Journal of Clinical Nutrition</i> , 2019, 109, 1738-1745.	4.7	25
53	The senescence-accelerated mouse prone-8 (SAM-P8) oxidative stress is associated with upregulation of renal NADPH oxidase system. <i>Journal of Physiology and Biochemistry</i> , 2013, 69, 927-935.	3.0	21
54	A Synthetic Peptide from Transforming Growth Factor- β 1 Type III Receptor Inhibits NADPH Oxidase and Prevents Oxidative Stress in the Kidney of Spontaneously Hypertensive Rats. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1607-1618.	5.4	21

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55	Mechanisms underlying the cardiac antifibrotic effects of losartan metabolites. <i>Scientific Reports</i> , 2017, 7, 41865.	3.3	21
56	p53-Mediated Upregulation of BAX Gene Transcription Is Not Involved in Bax- Δ Protein Overexpression in the Left Ventricle of Spontaneously Hypertensive Rats. <i>Hypertension</i> , 1999, 33, 1348-1352.	2.7	20
57	Increased phagocytic NADPH oxidase activity associates with coronary artery calcification in asymptomatic men. <i>Free Radical Research</i> , 2017, 51, 389-396.	3.3	18
58	NADPH Oxidase Overactivity Underlies Telomere Shortening in Human Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1434.	4.1	18
59	Association of cardiotrophin-1 with left ventricular systolic properties in asymptomatic hypertensive patients. <i>Journal of Hypertension</i> , 2013, 31, 587-594.	0.5	17
60	Association of Phagocytic NADPH Oxidase Activity With Hypertensive Heart Disease. <i>Hypertension</i> , 2014, 63, 468-474.	2.7	16
61	Induction of Cyclooxygenase-2 by Overexpression of the Human NADPH Oxidase 5 (NOX5) Gene in Aortic Endothelial Cells. <i>Cells</i> , 2020, 9, 637.	4.1	16
62	Molecular Cloning and Characterization of the Human p44 Mitogen-Activated Protein Kinase Gene. <i>Genomics</i> , 1998, 50, 69-78.	2.9	14
63	Blockade of TGF- β 1 Signalling Inhibits Cardiac NADPH Oxidase Overactivity in Hypertensive Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-8.	4.0	14
64	Decreased Nox4 levels in the myocardium of patients with aortic valve stenosis. <i>Clinical Science</i> , 2013, 125, 291-300.	4.3	14
65	Insulin resistance determines phagocytic nicotinamide adenine dinucleotide phosphate oxidase overactivation in metabolic syndrome patients. <i>Journal of Hypertension</i> , 2009, 27, 1420-1430.	0.5	13
66	Associations of telomere length with anthropometric and glucose changes after a lifestyle intervention in abdominal obese children. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 694-700.	2.6	12
67	Expression of Endothelial NOX5 Alters the Integrity of the Blood-Brain Barrier and Causes Loss of Memory in Aging Mice. <i>Antioxidants</i> , 2021, 10, 1311.	5.1	11
68	Association between favourable changes in objectively measured physical activity and telomere length after a lifestyle intervention in pediatric patients with abdominal obesity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 205-212.	1.9	10
69	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. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2729.	4.1	10
70	Two Variants in the Fibulin2 Gene Are Associated with Lower Systolic Blood Pressure and Decreased Risk of Hypertension. <i>PLoS ONE</i> , 2012, 7, e43051.	2.5	9
71	Association of telomere length with IL-6 levels during an obesity treatment in adolescents: interaction with the IL-6 polymorphism in the IL-6 gene. <i>Pediatric Obesity</i> , 2017, 12, 257-263.	2.8	9
72	Associations of telomere length with two dietary quality indices after a lifestyle intervention in children with abdominal obesity: a randomized controlled trial. <i>Pediatric Obesity</i> , 2020, 15, e12661.	2.8	9

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73	The angiotensin-converting enzyme insertion/deletion polymorphism is associated with phagocytic NADPH oxidase-dependent superoxide generation: potential implication in hypertension. Clinical Science, 2009, 116, 233-240.	4.3	8
74	Association of the peroxisome proliferator-activated receptor β gene L162V polymorphism with stage C heart failure. Journal of Hypertension, 2011, 29, 876-883.	0.5	8
75	Implications of NADPH oxidase 5 in vascular diseases. International Journal of Biochemistry and Cell Biology, 2020, 128, 105851.	2.8	8
76	Inside the Thrombus: Association of Hemostatic Parameters With Outcomes in Large Vessel Stroke Patients. Frontiers in Neurology, 2021, 12, 599498.	2.4	8
77	CYBA gene variants as biomarkers for coronary artery disease. Drug News and Perspectives, 2010, 23, 316.	1.5	8
78	NADPH Oxidase 5 Induces Changes in the Unfolded Protein Response in Human Aortic Endothelial Cells and in Endothelial-Specific Knock-in Mice. Antioxidants, 2021, 10, 194.	5.1	7
79	Endothelial NOX5 Expression Modulates Thermogenesis and Lipolysis in Mice Fed with a High-Fat Diet and 3T3-L1 Adipocytes through an Interleukin-6 Dependent Mechanism. Antioxidants, 2022, 11, 30.	5.1	7
80	Generation of eight adjacent mutations in a single step using a site-directed mutagenesis kit. Clinical Chemistry and Laboratory Medicine, 2004, 42, 384-6.	2.3	6
81	Protective effect of the 1742(C/G) polymorphism of human cardiotrophin-1 against left ventricular hypertrophy in essential hypertension. Journal of Hypertension, 2010, 28, 2219-2226.	0.5	6
82	Connection Between the Early Phases of Kidney Disease and the Metabolic Syndrome. Revista Espanola De Cardiologia (English Ed), 2011, 64, 373-378.	0.6	6
83	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.	2.3	5
84	The A640G CYBA polymorphism associates with subclinical atherosclerosis in diabetes. Frontiers in Bioscience - Elite, 2011, E3, 1467-1474.	1.8	5
85	Oxidative Stress in Vascular Pathophysiology: Still Much to Learn. Antioxidants, 2021, 10, 673.	5.1	4
86	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, , .	0.6	4
87	o-Iodosobenzoic oxidation and cleavage of myosin subfragment 1. International Journal of Biochemistry & Cell Biology, 1992, 24, 133-143.	0.5	2
88	Dietary Exposure to Polychlorinated Biphenyls and Dioxins and Its Relationship to Telomere Length in Subjects Older Than 55 Years from the SUN Project. Nutrients, 2022, 14, 353.	4.1	2
89	Relationship of the CYBA Gene Polymorphisms with Oxidative Stress and Cardiovascular Risk. , 2010, , 169-186.		1
90	Asociación entre salud cardiovascular ideal y longitud telomérica en una población de edad avanzada de la cohorte SUN. Revista Espanola De Cardiologia, 2022, 75, 308-315.	1.2	1

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91	Corrigendum to "Preliminary characterisation of the promoter of the human p22phoxgene: Identification of a new polymorphism associated with hypertension" [FEBS Lett. 542 (2003) 27-31]. FEBS Letters, 2010, 584, 4709-4709.	2.8	0
92	¿El síndrome metabólico en España necesita más estudios descriptivos o más evidencia de su implicación en prevención secundaria? Respuesta. Revista Espanola De Cardiologia, 2011, 64, 947-948.	1.2	0
93	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.	0.6	0