

Gerardo Garca-Rivas

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.

85
papers

1,461
citations

21
h-index

34
g-index

103
ext. papers

1,852
ext. citations

5
avg, IF

4.82
L-index

#	Paper	IF	Citations
85	Ru360, a specific mitochondrial calcium uptake inhibitor, improves cardiac post-ischaemic functional recovery in rats in vivo. <i>British Journal of Pharmacology</i> , 2006 , 149, 829-37	8.6	128
84	Adrenergic regulation of cardiac contractility does not involve phosphorylation of the cardiac ryanodine receptor at serine 2808. <i>Circulation Research</i> , 2008 , 102, e65-72	15.7	77
83	Inhibition of the mitochondrial calcium uniporter by the oxo-bridged dinuclear ruthenium amine complex (Ru360) prevents from irreversible injury in postischemic rat heart. <i>FEBS Journal</i> , 2005 , 272, 3477-88	5.7	77
82	Regulation of SERCA pumps expression in diabetes. <i>Cell Calcium</i> , 2014 , 56, 302-10	4	51
81	Impaired oxidative metabolism and calcium mishandling underlie cardiac dysfunction in a rat model of post-acute isoproterenol-induced cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H467-77	5.2	46
80	A systematic review of genetic mutations in pulmonary arterial hypertension. <i>BMC Medical Genetics</i> , 2017 , 18, 82	2.1	45
79	Synergistic Antimicrobial Effects of Silver/Transition-metal Combinatorial Treatments. <i>Scientific Reports</i> , 2017 , 7, 903	4.9	42
78	Regulation of Sirtuin-Mediated Protein Deacetylation by Cardioprotective Phytochemicals. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 1750306	6.7	42
77	Silica nanoparticles induce cardiotoxicity interfering with energetic status and Ca handling in adult rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H645-H661	5.2	36
76	Nanoencapsulated Quercetin Improves Cardioprotection during Hypoxia-Reoxygenation Injury through Preservation of Mitochondrial Function. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 7683051	6.7	32
75	Enhanced oxidative stress sensitizes the mitochondrial permeability transition pore to opening in heart from Zucker Fa/fa rats with type 2 diabetes. <i>Life Sciences</i> , 2015 , 141, 32-43	6.8	31
74	Seasonal Variation in Vitamin D in Association with Age, Inflammatory Cytokines, Anthropometric Parameters, and Lifestyle Factors in Older Adults. <i>Mediators of Inflammation</i> , 2017 , 2017, 5719461	4.3	31
73	Isolation and chemical identification of lipid derivatives from avocado (<i>Persea americana</i>) pulp with antiplatelet and antithrombotic activities. <i>Food and Function</i> , 2015 , 6, 193-203	6.1	29
72	Small Interfering RNA Targeting Mitochondrial Calcium Uniporter Improves Cardiomyocyte Cell Viability in Hypoxia/Reoxygenation Injury by Reducing Calcium Overload. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 5750897	6.7	27
71	Role of Adaptive Immunity in the Development and Progression of Heart Failure: New Evidence. <i>Archives of Medical Research</i> , 2017 , 48, 1-11	6.6	26
70	Microbial Competition of <i>Rhodotorula mucilaginosa</i> UANL-001L and <i>E. coli</i> increase biosynthesis of Non-Toxic Exopolysaccharide with Applications as a Wide-Spectrum Antimicrobial. <i>Scientific Reports</i> , 2018 , 8, 798	4.9	25
69	Differential cytotoxicity and internalization of graphene family nanomaterials in myocardial cells. <i>Materials Science and Engineering C</i> , 2017 , 73, 633-642	8.3	24

68	Mitochondrial Hyperacetylation in the Failing Hearts of Obese Patients Mediated Partly by a Reduction in SIRT3: The Involvement of the Mitochondrial Permeability Transition Pore. <i>Cellular Physiology and Biochemistry</i> , 2019 , 53, 465-479	3.9	23
67	Synthesis and design of Ag-Fe bimetallic nanoparticles as antimicrobial synergistic combination therapies against clinically relevant pathogens. <i>Scientific Reports</i> , 2021 , 11, 5351	4.9	23
66	Hydroxytyrosol inhibits cancer stem cells and the metastatic capacity of triple-negative breast cancer cell lines by the simultaneous targeting of epithelial-to-mesenchymal transition, Wnt/ β -catenin and TGF β signaling pathways. <i>European Journal of Nutrition</i> , 2019 , 58, 3207-3219	5.2	23
65	A specifically designed nanoconstruct associates, internalizes, traffics in cardiovascular cells, and accumulates in failing myocardium: a new strategy for heart failure diagnostics and therapeutics. <i>European Journal of Heart Failure</i> , 2016 , 18, 169-78	12.3	22
64	Association of Irisin Plasma Levels with Anthropometric Parameters in Children with Underweight, Normal Weight, Overweight, and Obesity. <i>BioMed Research International</i> , 2017 , 2017, 2628968	3	21
63	Antineoplastic copper coordinated complexes (Casiopeinas) uncouple oxidative phosphorylation and induce mitochondrial permeability transition in cardiac mitochondria and cardiomyocytes. <i>Journal of Bioenergetics and Biomembranes</i> , 2016 , 48, 43-54	3.7	20
62	Cardiac responses to β -adrenoceptor stimulation is partly dependent on mitochondrial calcium uniporter activity. <i>British Journal of Pharmacology</i> , 2014 , 171, 4207-21	8.6	20
61	Immune modulation in heart failure: past challenges and future hopes. <i>Current Heart Failure Reports</i> , 2011 , 8, 28-37	2.8	20
60	Interplay between the Adaptive Immune System and Insulin Resistance in Weight Loss Induced by Bariatric Surgery. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 3940739	6.7	20
59	Association between Irisin, hs-CRP, and Metabolic Status in Children and Adolescents with Type 2 Diabetes Mellitus. <i>Mediators of Inflammation</i> , 2019 , 2019, 6737318	4.3	19
58	Correlation of Vitamin D with Inflammatory Cytokines, Atherosclerotic Parameters, and Lifestyle Factors in the Setting of Heart Failure: A 12-Month Follow-Up Study. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	19
57	High hydrostatic pressure treatments trigger de novo carotenoid biosynthesis in papaya fruit (<i>Carica papaya</i> cv. Maradol). <i>Food Chemistry</i> , 2019 , 277, 362-372	8.5	19
56	Myocardial protective effect of octylguanidine against the damage induced by ischemia reperfusion in rat heart. <i>Molecular and Cellular Biochemistry</i> , 2005 , 269, 19-26	4.2	18
55	Proinflammatory Cytokines Are Soluble Mediators Linked with Ventricular Arrhythmias and Contractile Dysfunction in a Rat Model of Metabolic Syndrome. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 7682569	6.7	17
54	Cardiotoxicity of acetogenins from <i>Persea americana</i> occurs through the mitochondrial permeability transition pore and caspase-dependent apoptosis pathways. <i>Journal of Bioenergetics and Biomembranes</i> , 2012 , 44, 461-71	3.7	17
53	Amorphous SiO ₂ nanoparticles promote cardiac dysfunction via the opening of the mitochondrial permeability transition pore in rat heart and human cardiomyocytes. <i>Particle and Fibre Toxicology</i> , 2020 , 17, 15	8.4	16
52	Nanomedicine for the cardiac myocyte: Where are we?. <i>Journal of Controlled Release</i> , 2018 , 271, 149-165	11.7	16
51	Natural folates from biofortified tomato and synthetic 5-methyl-tetrahydrofolate display equivalent bioavailability in a murine model. <i>Plant Foods for Human Nutrition</i> , 2014 , 69, 57-64	3.9	16

50	Activity-guided identification of acetogenins as novel lipophilic antioxidants present in avocado pulp (<i>Persea americana</i>). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013 , 942-943, 37-45	3.2	16
49	Relationship between Irisin Concentration and Serum Cytokines in Mother and Newborn. <i>PLoS ONE</i> , 2016 , 11, e0165229	3.7	16
48	Relationship of Circulating Irisin with Body Composition, Physical Activity, and Cardiovascular and Metabolic Disorders in the Pediatric Population. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
47	Inhibition of the nitric oxide/cyclic guanosine monophosphate pathway limited the cardioprotective effect of post-conditioning in hearts with apical myocardial infarction. <i>European Journal of Pharmacology</i> , 2015 , 765, 472-81	5.3	15
46	The role of B cells in heart failure and implications for future immunomodulatory treatment strategies. <i>ESC Heart Failure</i> , 2020 , 7, 1387-1399	3.7	14
45	Myokine-adipokine cross-talk: potential mechanisms for the association between plasma irisin and adipokines and cardiometabolic risk factors in Mexican children with obesity and the metabolic syndrome. <i>Diabetology and Metabolic Syndrome</i> , 2019 , 11, 63	5.6	13
44	Dehydroepiandrosterone as an inducer of mitochondrial permeability transition. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2003 , 87, 279-84	5.1	13
43	Serum Irisin Levels, Endothelial Dysfunction, and Inflammation in Pediatric Patients with Type 2 Diabetes Mellitus and Metabolic Syndrome. <i>Journal of Diabetes Research</i> , 2020 , 2020, 1949415	3.9	13
42	PubTerm: a web tool for organizing, annotating and curating genes, diseases, molecules and other concepts from PubMed records. <i>Database: the Journal of Biological Databases and Curation</i> , 2019 , 2019,	5	12
41	Cardiotoxicity associated with immune checkpoint inhibitor therapy: a meta-analysis. <i>European Journal of Heart Failure</i> , 2021 , 23, 1739-1747	12.3	11
40	Changes in the Stoichiometry of Uniplex Decrease Mitochondrial Calcium Overload and Contribute to Tolerance of Cardiac Ischemia/Reperfusion Injury in Hypothyroidism. <i>Thyroid</i> , 2019 , 29, 1755-1764	6.2	10
39	Resveratrol Prevents Right Ventricle Remodeling and Dysfunction in Monocrotaline-Induced Pulmonary Arterial Hypertension with a Limited Improvement in the Lung Vasculature. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 1841527	6.7	10
38	Use of stem cells in heart failure treatment: where we stand and where we are going. <i>Methodist DeBakey Cardiovascular Journal</i> , 2013 , 9, 195-200	2.1	10
37	Tests of a cognitive-resource-allocation account of the bizarreness effect. <i>Journal of General Psychology</i> , 2000 , 127, 117-44	1	10
36	Initial experience in Mexico with convalescent plasma in COVID-19 patients with severe respiratory failure, a retrospective case series		10
35	What Is the Role of the Inflammation in the Pathogenesis of Heart Failure?. <i>Current Cardiology Reports</i> , 2020 , 22, 139	4.2	10
34	Hyaluronate Functionalized Multi-Wall Carbon Nanotubes Filled with Carboplatin as a Novel Drug Nanocarrier against Murine Lung Cancer Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
33	Temporal Frame of Immune Cell Infiltration during Heart Failure Establishment: Lessons from Animal Models. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	9

32	Enhancing internalization of silica particles in myocardial cells through surface modification. <i>Materials Science and Engineering C</i> , 2017 , 79, 831-840	8.3	8
31	Phase II clinical trial testing the safety of a humanised monoclonal antibody anti-CD20 in patients with heart failure with reduced ejection fraction, ICFer-RITU2: study protocol. <i>BMJ Open</i> , 2019 , 9, e022826	3.6	8
30	Oligomycin strengthens the effect of cyclosporin A on mitochondrial permeability transition by inducing phosphate uptake. <i>Cell Biology International</i> , 2005 , 29, 551-8	4.5	8
29	Chemical Profile and Safety Assessment of a Food-Grade Acetogenin-Enriched Antimicrobial Extract from Avocado Seed. <i>Molecules</i> , 2019 , 24,	4.8	7
28	Metabolic shift precedes the resolution of inflammation in a cohort of patients undergoing bariatric and metabolic surgery. <i>Scientific Reports</i> , 2021 , 11, 12127	4.9	7
27	A systematic review of post-translational modifications in the mitochondrial permeability transition pore complex associated with cardiac diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021 , 1867, 165992	6.9	7
26	Ex Vivo Cardiotoxicity of Antineoplastic Casiopeinas Is Mediated through Energetic Dysfunction and Triggered Mitochondrial-Dependent Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 8949450	6.7	7
25	Thyroid hormone may induce changes in the concentration of the mitochondrial calcium uniporter. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 135, 177-82	2.3	6
24	Therapeutic Applications of Cannabinoids in Cardiomyopathy and Heart Failure. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 4587024	6.7	6
23	Mitochondrial and Sarcoplasmic Reticulum Interconnection in Cardiac Arrhythmia. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 623381	5.7	6
22	Standardized extracts from black bean coats (<i>Phaseolus vulgaris</i> L.) prevent adverse cardiac remodeling in a murine model of non-ischemic cardiomyopathy. <i>RSC Advances</i> , 2015 , 5, 90858-90865	3.7	5
21	The composition of the incubation medium influences the sensitivity of mitochondrial permeability transition to cyclosporin A. <i>Journal of Bioenergetics and Biomembranes</i> , 2003 , 35, 149-56	3.7	5
20	Vaccines against components of the renin-angiotensin system. <i>Heart Failure Reviews</i> , 2021 , 26, 711-726	5	5
19	Optimization of PLGA-Resveratrol nanoparticle synthesis through combined response surface methodologies. <i>Materials Today: Proceedings</i> , 2019 , 13, 384-389	1.4	3
18	Association of the Triglyceride/High-Density Lipoprotein Cholesterol Index with Insulin Resistance in a Pediatric Population in Northeast Mexico. <i>Metabolic Syndrome and Related Disorders</i> , 2020 , 18, 333-340	2.6	3
17	Different subunit location of the inhibition and transport sites in the mitochondrial calcium uniporter. <i>Journal of Bioenergetics and Biomembranes</i> , 2004 , 36, 439-45	3.7	3
16	Integrative Analysis of Lipid Profiles in Plasma Allows Cardiometabolic Risk Factor Clustering in Children with Metabolically Unhealthy Obesity. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 2935278	6.7	3
15	Resveratrol Prevents Right Ventricle Dysfunction, Calcium Mishandling, and Energetic Failure via SIRT3 Stimulation in Pulmonary Arterial Hypertension. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 9912434	6.7	3

14	Classic and Novel Sex Hormone Binding Globulin Effects on the Cardiovascular System in Men. <i>International Journal of Endocrinology</i> , 2021 , 2021, 5527973	2.7	3
13	B-type natriuretic peptide reference interval of newborns from healthy and pre-eclamptic women: a prospective, multicentre, cross-sectional study. <i>BMJ Open</i> , 2018 , 8, e022562	3	3
12	A single session of physical activity restores the mitochondrial organization disrupted by obesity in skeletal muscle fibers. <i>Life Sciences</i> , 2020 , 256, 117965	6.8	2
11	Bariatric surgery-induced weight loss reduces B cell activating cytokines and IgG immunoglobulins related to autoimmunity. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021 , 35, 5147-5158	5.2	2
10	Effects of vitamin D supplementation for six months on the cytokine profile in Mexican heart failure patients. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 124, 117	5.8	2
9	Effects of vitamin D supplementation for six months on cardiac magnetic resonance imaging in mexican patients with heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 124, 116-117	5.8	2
8	Exposome and foetoplacental vascular dysfunction in gestational diabetes mellitus. <i>Molecular Aspects of Medicine</i> , 2021 , 101019	16.7	2
7	Development of Polymeric Nanovehicles for siRNA Delivery in Cardiomyocytes. <i>FASEB Journal</i> , 2018 , 32, 801.12	0.9	1
6	Reduced Th1 response is associated with lower glycolytic activity in activated peripheral blood mononuclear cells after metabolic and bariatric surgery. <i>Journal of Endocrinological Investigation</i> , 2021 , 44, 2819-2830	5.2	1
5	Exploring Functional Differences between the Right and Left Ventricles to Better Understand Right Ventricular Dysfunction. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 9993060	6.7	1
4	A Systematic Review of the Mechanisms Involved in Immune Checkpoint Inhibitors Cardiotoxicity and Challenges to Improve Clinical Safety.. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 851032	5.7	1
3	Oroxylin A prevents cardiac hypertrophy and dysfunction as a modulator of mitochondrial protein acetylation. <i>FASEB Journal</i> , 2018 , 32, 675.14	0.9	0
2	The Cardioprotective Effect of Breg Cells Induced by Methotrexate. <i>FASEB Journal</i> , 2018 , 32, 718.6	0.9	
1	Nanomaterials aimed toward the cardiac mitochondria: from therapeutics to nanosafety 2021 , 311-347		