

Sergio Lavandero

List of Publications by Year in descending order

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326
papers

24,447
citations

15001

68
h-index

10129

145
g-index

347
all docs

347
docs citations

347
times ranked

43103
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	Nitrosative stress drives heart failure with preserved ejection fraction. <i>Nature</i> , 2019, 568, 351-356.	13.7	492
4	Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. <i>Journal of Cell Science</i> , 2011, 124, 2143-2152.	1.2	483
5	Mitochondrial dynamics, mitophagy and cardiovascular disease. <i>Journal of Physiology</i> , 2016, 594, 509-525.	1.3	441
6	Endoplasmic Reticulum and the Unfolded Protein Response. <i>International Review of Cell and Molecular Biology</i> , 2013, 301, 215-290.	1.6	440
7	Counter-regulatory renin-angiotensin system in cardiovascular disease. <i>Nature Reviews Cardiology</i> , 2020, 17, 116-129.	6.1	371
8	Cardiomyocyte death: mechanisms and translational implications. <i>Cell Death and Disease</i> , 2011, 2, e244-e244.	2.7	368
9	Spliced X-Box Binding Protein 1 Couples the Unfolded Protein Response to Hexosamine Biosynthetic Pathway. <i>Cell</i> , 2014, 156, 1179-1192.	13.5	317
10	Autophagy in cardiovascular biology. <i>Journal of Clinical Investigation</i> , 2015, 125, 55-64.	3.9	294
11	Histone Deacetylase Inhibition Blunts Ischemia/Reperfusion Injury by Inducing Cardiomyocyte Autophagy. <i>Circulation</i> , 2014, 129, 1139-1151.	1.6	291
12	Regulation of autophagy by the inositol trisphosphate receptor. <i>Cell Death and Differentiation</i> , 2007, 14, 1029-1039.	5.0	285
13	The IKK complex contributes to the induction of autophagy. <i>EMBO Journal</i> , 2010, 29, 619-631.	3.5	274
14	Metabolic stress-induced activation of FoxO1 triggers diabetic cardiomyopathy in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 1109-1118.	3.9	274
15	The inositol 1,4,5-trisphosphate receptor regulates autophagy through its interaction with Beclin 1. <i>Cell Death and Differentiation</i> , 2009, 16, 1006-1017.	5.0	258
16	Enalapril Attenuates Downregulation of Angiotensin-Converting Enzyme 2 in the Late Phase of Ventricular Dysfunction in Myocardial Infarcted Rat. <i>Hypertension</i> , 2006, 48, 572-578.	1.3	241
17	Molecular Mechanisms of Autophagy in the Cardiovascular System. <i>Circulation Research</i> , 2015, 116, 456-467.	2.0	234
18	Senescence, Apoptosis or Autophagy?. <i>Gerontology</i> , 2008, 54, 92-99.	1.4	220

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19	Changes in mitochondrial dynamics during ceramide-induced cardiomyocyte early apoptosis. <i>Cardiovascular Research</i> , 2008, 77, 387-397.	1.8	212
20	Insulin Stimulates Mitochondrial Fusion and Function in Cardiomyocytes via the Akt-mTOR-NF κ B-Opa-1 Signaling Pathway. <i>Diabetes</i> , 2014, 63, 75-88.	0.3	195
21	New insights into IGF-1 signaling in the heart. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 128-137.	3.1	190
22	Insulin-like Growth Factor-I Rapidly Activates Multiple Signal Transduction Pathways in Cultured Rat Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 1997, 272, 19115-19124.	1.6	188
23	Calcium Transport and Signaling in Mitochondria. , 2017, 7, 623-634.		168
24	Autophagy as a therapeutic target in cardiovascular disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 584-593.	0.9	165
25	Endoplasmic reticulum: ER stress regulates mitochondrial bioenergetics. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 16-20.	1.2	162
26	Cardiovascular autophagy. <i>Autophagy</i> , 2013, 9, 1455-1466.	4.3	162
27	Tumor Suppression and Promotion by Autophagy. <i>BioMed Research International</i> , 2014, 2014, 1-15.	0.9	147
28	Unsaturated fatty acids induce non κ canonical autophagy. <i>EMBO Journal</i> , 2015, 34, 1025-1041.	3.5	147
29	Mitochondrial fission is required for cardiomyocyte hypertrophy via a Ca $^{2+}$ -calcineurin signalling pathway. <i>Journal of Cell Science</i> , 2014, 127, 2659-71.	1.2	140
30	Testosterone Induces an Intracellular Calcium Increase by a Nongenomic Mechanism in Cultured Rat Cardiac Myocytes. <i>Endocrinology</i> , 2006, 147, 1386-1395.	1.4	130
31	Eplerenone Blocks Nongenomic Effects of Aldosterone on the Na $^{+}$ /H $^{+}$ Exchanger, Intracellular Ca $^{2+}$ Levels, and Vasoconstriction in Mesenteric Resistance Vessels. <i>Endocrinology</i> , 2005, 146, 973-980.	1.4	127
32	Energy-preserving effects of IGF-1 antagonize starvation-induced cardiac autophagy. <i>Cardiovascular Research</i> , 2012, 93, 320-329.	1.8	124
33	ACE2 and vasoactive peptides: novel players in cardiovascular/renal remodeling and hypertension. <i>Therapeutic Advances in Cardiovascular Disease</i> , 2015, 9, 217-237.	1.0	121
34	Diabetic cardiomyopathy: mechanisms and therapeutic targets. <i>Drug Discovery Today Disease Mechanisms</i> , 2010, 7, e135-e143.	0.8	116
35	Beta2-adrenergic receptor regulates cardiac fibroblast autophagy and collagen degradation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 23-31.	1.8	116
36	Sarcoplasmic reticulum κ mitochondria communication in cardiovascular pathophysiology. <i>Nature Reviews Cardiology</i> , 2017, 14, 342-360.	6.1	114

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37	Emerging role of mitophagy in cardiovascular physiology and pathology. <i>Molecular Aspects of Medicine</i> , 2020, 71, 100822.	2.7	114
38	Nanoparticles for diagnosis and therapy of atherosclerosis and myocardial infarction: evolution toward prospective theranostic approaches. <i>Theranostics</i> , 2018, 8, 4710-4732.	4.6	110
39	Cell Death and Survival Through the Endoplasmic Reticulum- Mitochondrial Axis. <i>Current Molecular Medicine</i> , 2013, 13, 317-329.	0.6	104
40	Glucose deprivation causes oxidative stress and stimulates aggresome formation and autophagy in cultured cardiac myocytes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 509-518.	1.8	102
41	Attenuation of endoplasmic reticulum stress using the chemical chaperone 4-phenylbutyric acid prevents cardiac fibrosis induced by isoproterenol. <i>Experimental and Molecular Pathology</i> , 2012, 92, 97-104.	0.9	102
42	Electrical Stimuli Release ATP to Increase GLUT4 Translocation and Glucose Uptake via PI3K ³ -Akt-AS160 in Skeletal Muscle Cells. <i>Diabetes</i> , 2013, 62, 1519-1526.	0.3	102
43	Fibroblast Primary Cilia Are Required for Cardiac Fibrosis. <i>Circulation</i> , 2019, 139, 2342-2357.	1.6	101
44	NAD ⁺ Repletion Reverses Heart Failure With Preserved Ejection Fraction. <i>Circulation Research</i> , 2021, 128, 1629-1641.	2.0	96
45	Proinflammatory cytokines differentially regulate adipocyte mitochondrial metabolism, oxidative stress, and dynamics. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E1033-E1045.	1.8	92
46	Testosterone induces cardiomyocyte hypertrophy through mammalian target of rapamycin complex 1 pathway. <i>Journal of Endocrinology</i> , 2009, 202, 299-307.	1.2	91
47	ER-to-mitochondria miscommunication and metabolic diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2096-2105.	1.8	90
48	Dexamethasone-induced autophagy mediates muscle atrophy through mitochondrial clearance. <i>Cell Cycle</i> , 2014, 13, 2281-2295.	1.3	89
49	Drp1 Loss-of-function Reduces Cardiomyocyte Oxygen Dependence Protecting the Heart From Ischemia-reperfusion Injury. <i>Journal of Cardiovascular Pharmacology</i> , 2014, 63, 477-487.	0.8	88
50	Aldose Reductase Induced by Hyperosmotic Stress Mediates Cardiomyocyte Apoptosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 38484-38494.	1.6	86
51	Inhibition of autophagy by TAB2 and TAB3. <i>EMBO Journal</i> , 2011, 30, 4908-4920.	3.5	85
52	Angiotensin-(1 ⁹) regulates cardiac hypertrophy in vivo and in vitro. <i>Journal of Hypertension</i> , 2010, 28, 1054-1064.	0.3	84
53	Angiotensin-(1 ⁹) reverses experimental hypertension and cardiovascular damage by inhibition of the angiotensin converting enzyme/Ang II axis. <i>Journal of Hypertension</i> , 2014, 32, 771-783.	0.3	83
54	Cardioprotection mediated by exosomes is impaired in the setting of type II diabetes but can be rescued by the use of non-diabetic exosomes in vitro. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 141-151.	1.6	82

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55	Tuning flux: autophagy as a target of heart disease therapy. <i>Current Opinion in Cardiology</i> , 2011, 26, 216-222.	0.8	81
56	New Molecular Insights of Insulin in Diabetic Cardiomyopathy. <i>Frontiers in Physiology</i> , 2016, 7, 125.	1.3	81
57	Dexmedetomidine preconditioning activates pro-survival kinases and attenuates regional ischemia/reperfusion injury in rat heart. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 537-545.	1.8	80
58	Endothelial cells release cardioprotective exosomes that may contribute to ischaemic preconditioning. <i>Scientific Reports</i> , 2018, 8, 15885.	1.6	80
59	Neuronal Thy-1 induces astrocyte adhesion by engaging syndecan-4 in a cooperative interaction with $\alpha 5 \beta 1$ integrin that activates PKC δ and RhoA. <i>Journal of Cell Science</i> , 2009, 122, 3462-3471.	1.2	78
60	Cardiomyocyte ryanodine receptor degradation by chaperone-mediated autophagy. <i>Cardiovascular Research</i> , 2013, 98, 277-285.	1.8	78
61	VCAM-1 as a predictor biomarker in cardiovascular disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166170.	1.8	78
62	Mitochondrial control of cell death induced by hyperosmotic stress. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007, 12, 3-18.	2.2	76
63	Increased levels of oxidative stress, subclinical inflammation, and myocardial fibrosis markers in primary aldosteronism patients. <i>Journal of Hypertension</i> , 2010, 28, 2120-2126.	0.3	76
64	Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. <i>Endocrine Reviews</i> , 2020, 41, .	8.9	76
65	Insulin-like Growth Factor-1 Induces an Inositol 1,4,5-Trisphosphate-dependent Increase in Nuclear and Cytosolic Calcium in Cultured Rat Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 7554-7565.	1.6	73
66	Use of Human Mesenchymal Cells to Improve Vascularization in a Mouse Model for Scaffold-Based Dermal Regeneration. <i>Tissue Engineering - Part A</i> , 2009, 15, 1191-1200.	1.6	73
67	Local Control of Nuclear Calcium Signaling in Cardiac Myocytes by Perinuclear Microdomains of Sarcolemmal Insulin-Like Growth Factor 1 Receptors. <i>Circulation Research</i> , 2013, 112, 236-245.	2.0	73
68	The Inositol Trisphosphate Receptor in the Control of Autophagy. <i>Autophagy</i> , 2007, 3, 350-353.	4.3	72
69	Polycystin-1 Is a Cardiomyocyte Mechanosensor That Governs L-Type Ca ²⁺ Channel Protein Stability. <i>Circulation</i> , 2015, 131, 2131-2142.	1.6	71
70	Diabetic cardiomyopathy and metabolic remodeling of the heart. <i>Life Sciences</i> , 2013, 92, 609-615.	2.0	70
71	Inhibition of class I histone deacetylases blunts cardiac hypertrophy through TSC2-dependent mTOR repression. <i>Science Signaling</i> , 2016, 9, ra34.	1.6	69
72	Dexmedetomidine protects the heart against ischemia-reperfusion injury by an endothelial eNOS/NO dependent mechanism. <i>Pharmacological Research</i> , 2016, 103, 318-327.	3.1	69

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73	Impaired cardiac autophagy in patients developing postoperative atrial fibrillation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 451-459.e1.	0.4	66
74	Mitochondrial Fission and Autophagy in the Normal and Diseased Heart. <i>Current Hypertension Reports</i> , 2010, 12, 418-425.	1.5	63
75	Oxidative Stress and Autophagy in Cardiovascular Homeostasis. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 507-518.	2.5	63
76	Pleiotropic Effects of Atorvastatin in Heart Failure: Role in Oxidative Stress, Inflammation, Endothelial Function, and Exercise Capacity. <i>Journal of Heart and Lung Transplantation</i> , 2008, 27, 435-441.	0.3	62
77	Apoptosis, necrosis and autophagy are influenced by metabolic energy sources in cultured rat spermatocytes. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2012, 17, 539-550.	2.2	62
78	Recent insights and therapeutic perspectives of angiotensin-(1 α) ⁹ in the cardiovascular system. <i>Clinical Science</i> , 2014, 127, 549-557.	1.8	62
79	Calpains and proteasomes mediate degradation of ryanodine receptors in a model of cardiac ischemic reperfusion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 356-362.	1.8	61
80	Mitochondria, Myocardial Remodeling, and Cardiovascular Disease. <i>Current Hypertension Reports</i> , 2012, 14, 532-539.	1.5	61
81	Autophagy and oxidative stress in non-communicable diseases: A matter of the inflammatory state?. <i>Free Radical Biology and Medicine</i> , 2018, 124, 61-78.	1.3	61
82	The complex interplay between mitochondrial dynamics and cardiac metabolism. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 47-51.	1.0	59
83	Xbp1s-FoxO1 axis governs lipid accumulation and contractile performance in heart failure with preserved ejection fraction. <i>Nature Communications</i> , 2021, 12, 1684.	5.8	59
84	FoxO1 mediates TGF-beta1-dependent cardiac myofibroblast differentiation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 128-138.	1.9	58
85	Protein Carbonylation and Adipocyte Mitochondrial Function*. <i>Journal of Biological Chemistry</i> , 2012, 287, 32967-32980.	1.6	56
86	Rho kinase inhibition activates the homologous angiotensin-converting enzyme-angiotensin-(1 α) ⁹ axis in experimental hypertension. <i>Journal of Hypertension</i> , 2011, 29, 706-715.	0.3	55
87	Manipulation of ACE2 expression in COVID-19. <i>Open Heart</i> , 2020, 7, e001424.	0.9	55
88	Insulin elicits a ROS-activated and an IP3-dependent Ca ²⁺ release; both impinge on GLUT4 translocation. <i>Journal of Cell Science</i> , 2014, 127, 1911-23.	1.2	54
89	Ceramide-induced formation of ROS and ATP depletion trigger necrosis in lymphoid cells. <i>Free Radical Biology and Medicine</i> , 2008, 44, 1146-1160.	1.3	52
90	Control of Growth and Differentiation of the Mammary Gland by Growth Factors. <i>Journal of Dairy Science</i> , 1991, 74, 2788-2800.	1.4	51

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91	Mitochondrial Dynamics: a Potential New Therapeutic Target for Heart Failure. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2011, 64, 916-923.	0.4	51
92	Mitochondria in Structural and Functional Cardiac Remodeling. <i>Advances in Experimental Medicine and Biology</i> , 2017, 982, 277-306.	0.8	51
93	Defective insulin signaling and mitochondrial dynamics in diabetic cardiomyopathy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1113-1118.	1.9	50
94	Effect of inhibitors of signal transduction on IGF-1-induced protein synthesis associated with hypertrophy in cultured neonatal rat ventricular myocytes. <i>FEBS Letters</i> , 1998, 422, 193-196.	1.3	49
95	TGF- β 1 prevents simulated ischemia/reperfusion-induced cardiac fibroblast apoptosis by activation of both canonical and non-canonical signaling pathways. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 754-762.	1.8	49
96	Mitochondrial fragmentation impairs insulin-dependent glucose uptake by modulating Akt activity through mitochondrial Ca^{2+} uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E1-E13.	1.8	49
97	Inhibition of mitochondrial fission prevents hypoxia-induced metabolic shift and cellular proliferation of pulmonary arterial smooth muscle cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2891-2903.	1.8	48
98	A rapid and strong apoptotic process is triggered by hyperosmotic stress in cultured rat cardiac myocytes. <i>Cell and Tissue Research</i> , 2001, 304, 279-285.	1.5	47
99	An Inositol 1,4,5-Triphosphate (IP ₃)-IP ₃ Receptor Pathway Is Required for Insulin-Stimulated Glucose Transporter 4 Translocation and Glucose Uptake in Cardiomyocytes. <i>Endocrinology</i> , 2010, 151, 4665-4677.	1.4	47
100	Trimetazidine prevents palmitate-induced mitochondrial fission and dysfunction in cultured cardiomyocytes. <i>Biochemical Pharmacology</i> , 2014, 91, 323-336.	2.0	47
101	Down Syndrome Critical Region 1 Gene, <i>Rcan1</i> , Helps Maintain a More Fused Mitochondrial Network. <i>Circulation Research</i> , 2018, 122, e20-e33.	2.0	47
102	Epigenetic Reader BRD4 (Bromodomain-Containing Protein 4) Governs Nucleus-Encoded Mitochondrial Transcriptome to Regulate Cardiac Function. <i>Circulation</i> , 2020, 142, 2356-2370.	1.6	47
103	IKK connects autophagy to major stress pathways. <i>Autophagy</i> , 2010, 6, 189-191.	4.3	46
104	Testosterone increases GLUT4-dependent glucose uptake in cardiomyocytes. <i>Journal of Cellular Physiology</i> , 2013, 228, 2399-2407.	2.0	46
105	Organelle communication: Signaling crossroads between homeostasis and disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 50, 55-59.	1.2	46
106	Caveolin-1 impairs PKA-DRP1-mediated remodelling of ER-mitochondria communication during the early phase of ER stress. <i>Cell Death and Differentiation</i> , 2019, 26, 1195-1212.	5.0	46
107	Contraction-related stimuli regulate GLUT4 traffic in C_2C_{12} -GLUT4 ^{myc} skeletal muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1058-E1071.	1.8	44
108	The transcription factor MEF2C mediates cardiomyocyte hypertrophy induced by IGF-1 signaling. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 155-160.	1.0	43

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109	Female Sex Is Protective in a Preclinical Model of Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2019, 140, 1769-1771.	1.6	43
110	Mitochondria fine-tune the slow Ca ²⁺ transients induced by electrical stimulation of skeletal myotubes. <i>Cell Calcium</i> , 2010, 48, 358-370.	1.1	42
111	Anabolic Androgenic Steroids and Intracellular Calcium Signaling: A Mini Review on Mechanisms and Physiological Implications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 390-398.	1.1	40
112	Serotonin (5-HT) regulates neurite outgrowth through 5-HT _{1A} and 5-HT ₇ receptors in cultured hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2014, 92, 1000-1009.	1.3	40
113	Calcium signaling in insulin action on striated muscle. <i>Cell Calcium</i> , 2014, 56, 390-396.	1.1	40
114	Ca ²⁺ , autophagy and protein degradation: Thrown off balance in neurodegenerative disease. <i>Cell Calcium</i> , 2010, 47, 112-121.	1.1	39
115	Iron induces protection and necrosis in cultured cardiomyocytes: Role of reactive oxygen species and nitric oxide. <i>Free Radical Biology and Medicine</i> , 2010, 48, 526-534.	1.3	39
116	Glutathione Depletion Induces Spermatogonial Cell Autophagy. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2283-2292.	1.2	38
117	The use of glandular-derived stem cells to improve vascularization in scaffold-mediated dermal regeneration. <i>Biomaterials</i> , 2009, 30, 5918-5926.	5.7	37
118	Left Atrial Dysfunction Is a Predictor of Postcoronary Artery Bypass Atrial Fibrillation: Association of Left Atrial Strain and Strain Rate Assessed by Speckle Tracking. <i>Echocardiography</i> , 2011, 28, 1104-1108.	0.3	37
119	Calcium and mitochondrial metabolism in ceramide-induced cardiomyocyte death. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 1334-1344.	1.8	37
120	Alteration in mitochondrial Ca ²⁺ uptake disrupts insulin signaling in hypertrophic cardiomyocytes. <i>Cell Communication and Signaling</i> , 2014, 12, 68.	2.7	37
121	Ca ²⁺ signals promote GLUT4 exocytosis and reduce its endocytosis in muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E209-E224.	1.8	37
122	Heart Disease and Cancer. <i>Circulation</i> , 2018, 138, 692-695.	1.6	37
123	Extracellular Regulated Kinase, but Not Protein Kinase C, Is an Antiapoptotic Signal of Insulin-like Growth Factor-1 on Cultured Cardiac Myocytes. <i>Biochemical and Biophysical Research Communications</i> , 2000, 273, 736-744.	1.0	36
124	Relation between oxidative stress, catecholamines, and impaired chronotropic response to exercise in patients with chronic heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. <i>American Journal of Cardiology</i> , 2003, 92, 215-218.	0.7	36
125	Increased Aortic NADPH Oxidase Activity in Rats With Genetically High Angiotensin-Converting Enzyme Levels. <i>Hypertension</i> , 2005, 46, 1362-1367.	1.3	35
126	Xanthine-oxidase inhibitors and statins in chronic heart failure: Effects on vascular and functional parameters. <i>Journal of Heart and Lung Transplantation</i> , 2011, 30, 408-413.	0.3	35

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127	Study protocol for the Maule Cohort (MAUCO) of chronic diseases, Chile 2014â€“2024. BMC Public Health, 2015, 16, 122.	1.2	35
128	Effects of carvedilol on oxidative stress and chronotropic response to exercise in patients with chronic heart failure. European Journal of Heart Failure, 2005, 7, 1033-1039.	2.9	34
129	Hyperosmotic stress-dependent NFÎ²B activation is regulated by reactive oxygen species and IGF-1 in cultured cardiomyocytes. FEBS Letters, 2006, 580, 4495-4500.	1.3	34
130	Membrane Electrical Activity Elicits Inositol 1,4,5-Trisphosphate-dependent Slow Ca ²⁺ Signals through a GÎ²Î³/Phosphatidylinositol 3-Kinase Î³ Pathway in Skeletal Myotubes. Journal of Biological Chemistry, 2006, 281, 12143-12154.	1.6	34
131	Markedly increased Rho-kinase activity in circulating leukocytes in patients with chronic heart failure. American Heart Journal, 2011, 161, 931-937.	1.2	34
132	Systemic vascular cell adhesion molecule-1 predicts the occurrence of post-operative atrial fibrillation. International Journal of Cardiology, 2011, 150, 270-276.	0.8	34
133	Simvastatin induces apoptosis by a Rho-dependent mechanism in cultured cardiac fibroblasts and myofibroblasts. Toxicology and Applied Pharmacology, 2011, 255, 57-64.	1.3	34
134	Angiotensin II-Regulated Autophagy Is Required for Vascular Smooth Muscle Cell Hypertrophy. Frontiers in Pharmacology, 2018, 9, 1553.	1.6	34
135	The role of autophagy in cardiovascular pathology. Cardiovascular Research, 2022, 118, 934-950.	1.8	34
136	Hyperosmotic stress stimulates autophagy via polycystin-2. Oncotarget, 2017, 8, 55984-55997.	0.8	34
137	IGF-1 Regulates Apoptosis of Cardiac Myocyte Induced by Osmotic-Stress. Biochemical and Biophysical Research Communications, 2000, 270, 1029-1035.	1.0	33
138	Trypanosoma cruzi calreticulin: A possible role in Chagasâ€™ disease autoimmunity. Molecular Immunology, 2009, 46, 1092-1099.	1.0	33
139	Systemic Oxidative Stress and Endothelial Dysfunction is Associated With an Attenuated Acute Vascular Response to Inhaled Prostanoid in Pulmonary Artery Hypertension Patients. Journal of Cardiac Failure, 2011, 17, 1012-1017.	0.7	33
140	A BAX/BAK and Cyclophilin D-Independent Intrinsic Apoptosis Pathway. PLoS ONE, 2012, 7, e37782.	1.1	33
141	Basal autophagy protects cardiomyocytes from doxorubicin-induced toxicity. Toxicology, 2016, 370, 41-48.	2.0	33
142	Angiotensin I-Converting Enzyme Modulates Neutral Endopeptidase Activity in the Rat. Hypertension, 2001, 38, 650-654.	1.3	32
143	Oxidative stress after reperfusion with primary coronary angioplasty: Lack of effect of glucose-insulin-potassium infusion. Critical Care Medicine, 2002, 30, 417-421.	0.4	32
144	IGF-1 protects cardiac myocytes from hyperosmotic stress-induced apoptosis via CREB. Biochemical and Biophysical Research Communications, 2005, 336, 1112-1118.	1.0	32

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145	Serum uric acid correlates with extracellular superoxide dismutase activity in patients with chronic heart failure. <i>European Journal of Heart Failure</i> , 2008, 10, 646-651.	2.9	32
146	Herp depletion protects from protein aggregation by up-regulating autophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 3295-3305.	1.9	32
147	mTORC1 inhibitor rapamycin and ER stressor tunicamycin induce differential patterns of ER-mitochondria coupling. <i>Scientific Reports</i> , 2016, 6, 36394.	1.6	32
148	Polycystin-2-dependent control of cardiomyocyte autophagy. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 118, 110-121.	0.9	32
149	Increased production of functional small extracellular vesicles in senescent endothelial cells. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 4871-4876.	1.6	32
150	NFAT5 Is Activated by Hypoxia: Role in Ischemia and Reperfusion in the Rat Kidney. <i>PLoS ONE</i> , 2012, 7, e39665.	1.1	32
151	Prevalence of the angiotensin I converting enzyme insertion/deletion polymorphism, plasma angiotensin converting enzyme activity, and left ventricular mass in a normotensive Chilean population. <i>American Journal of Hypertension</i> , 1999, 12, 697-704.	1.0	31
152	BAG3 regulates total MAP1LC3B protein levels through a translational but not transcriptional mechanism. <i>Autophagy</i> , 2016, 12, 287-296.	4.3	31
153	HERPUD1 protects against oxidative stress-induced apoptosis through downregulation of the inositol 1,4,5-trisphosphate receptor. <i>Free Radical Biology and Medicine</i> , 2016, 90, 206-218.	1.3	31
154	Angiotensin-(1-9) reduces cardiovascular and renal inflammation in experimental renin-independent hypertension. <i>Biochemical Pharmacology</i> , 2018, 156, 357-370.	2.0	31
155	Polymorphism in gene coding for ACE determines different development of myocardial fibrosis in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H498-H506.	1.5	30
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