

Sergio Lavandero

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.

308
papers

19,202
citations

61
h-index

132
g-index

346
ext. papers

22,096
ext. citations

6.1
avg, IF

6.22
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 308 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222 | 10.2 | 3838 |
| 307 | Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544 | 10.2 | 2783 |
| 306 | Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. <i>Journal of Cell Science</i> , 2011 , 124, 2143-52 | 5.3 | 367 |
| 305 | Endoplasmic reticulum and the unfolded protein response: dynamics and metabolic integration. <i>International Review of Cell and Molecular Biology</i> , 2013 , 301, 215-90 | 6 | 342 |
| 304 | Cardiomyocyte death: mechanisms and translational implications. <i>Cell Death and Disease</i> , 2011 , 2, e244 | 9.8 | 293 |
| 303 | Regulation of autophagy by the inositol trisphosphate receptor. <i>Cell Death and Differentiation</i> , 2007 , 14, 1029-39 | 12.7 | 274 |
| 302 | Mitochondrial dynamics, mitophagy and cardiovascular disease. <i>Journal of Physiology</i> , 2016 , 594, 509-25 | 3.9 | 269 |
| 301 | The IKK complex contributes to the induction of autophagy. <i>EMBO Journal</i> , 2010 , 29, 619-31 | 13 | 248 |
| 300 | Spliced X-box binding protein 1 couples the unfolded protein response to hexosamine biosynthetic pathway. <i>Cell</i> , 2014 , 156, 1179-1192 | 56.2 | 246 |
| 299 | Nitrosative stress drives heart failure with preserved ejection fraction. <i>Nature</i> , 2019 , 568, 351-356 | 50.4 | 242 |
| 298 | The inositol 1,4,5-trisphosphate receptor regulates autophagy through its interaction with Beclin 1. <i>Cell Death and Differentiation</i> , 2009 , 16, 1006-17 | 12.7 | 235 |
| 297 | Histone deacetylase inhibition blunts ischemia/reperfusion injury by inducing cardiomyocyte autophagy. <i>Circulation</i> , 2014 , 129, 1139-51 | 16.7 | 233 |
| 296 | Metabolic stress-induced activation of FoxO1 triggers diabetic cardiomyopathy in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 1109-18 | 15.9 | 230 |
| 295 | Enalapril attenuates downregulation of Angiotensin-converting enzyme 2 in the late phase of ventricular dysfunction in myocardial infarcted rat. <i>Hypertension</i> , 2006 , 48, 572-8 | 8.5 | 213 |
| 294 | Autophagy in cardiovascular biology. <i>Journal of Clinical Investigation</i> , 2015 , 125, 55-64 | 15.9 | 209 |
| 293 | Counter-regulatory renin-angiotensin system in cardiovascular disease. <i>Nature Reviews Cardiology</i> , 2020 , 17, 116-129 | 14.8 | 198 |
| 292 | Senescence, apoptosis or autophagy? When a damaged cell must decide its path--a mini-review. <i>Gerontology</i> , 2008 , 54, 92-9 | 5.5 | 194 |

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|-----|--|------|-----|
| 291 | Changes in mitochondrial dynamics during ceramide-induced cardiomyocyte early apoptosis. <i>Cardiovascular Research</i> , 2008 , 77, 387-97 | 9.9 | 188 |
| 290 | Molecular mechanisms of autophagy in the cardiovascular system. <i>Circulation Research</i> , 2015 , 116, 456-67 | 5.7 | 176 |
| 289 | Insulin-like growth factor-I rapidly activates multiple signal transduction pathways in cultured rat cardiac myocytes. <i>Journal of Biological Chemistry</i> , 1997 , 272, 19115-24 | 5.4 | 159 |
| 288 | Insulin stimulates mitochondrial fusion and function in cardiomyocytes via the Akt-mTOR-NFB-Opa-1 signaling pathway. <i>Diabetes</i> , 2014 , 63, 75-88 | 0.9 | 146 |
| 287 | Autophagy as a therapeutic target in cardiovascular disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 584-93 | 5.8 | 144 |
| 286 | New insights into IGF-1 signaling in the heart. <i>Trends in Endocrinology and Metabolism</i> , 2014 , 25, 128-37 | 8.8 | 142 |
| 285 | Cardiovascular autophagy: concepts, controversies, and perspectives. <i>Autophagy</i> , 2013 , 9, 1455-66 | 10.2 | 131 |
| 284 | Endoplasmic reticulum: ER stress regulates mitochondrial bioenergetics. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 16-20 | 5.6 | 129 |
| 283 | Unsaturated fatty acids induce non-canonical autophagy. <i>EMBO Journal</i> , 2015 , 34, 1025-41 | 13 | 126 |
| 282 | Tumor suppression and promotion by autophagy. <i>BioMed Research International</i> , 2014 , 2014, 603980 | 3 | 118 |
| 281 | Testosterone induces an intracellular calcium increase by a nongenomic mechanism in cultured rat cardiac myocytes. <i>Endocrinology</i> , 2006 , 147, 1386-95 | 4.8 | 116 |
| 280 | Mitochondrial fission is required for cardiomyocyte hypertrophy mediated by a Ca ²⁺ -calcineurin signaling pathway. <i>Journal of Cell Science</i> , 2014 , 127, 2659-71 | 5.3 | 113 |
| 279 | 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, 973-80 | 4.8 | 112 |
| 278 | Diabetic Cardiomyopathy: Mechanisms and Therapeutic Targets. <i>Drug Discovery Today Disease Mechanisms</i> , 2010 , 7, e135-e143 | | 103 |
| 277 | Energy-preserving effects of IGF-1 antagonize starvation-induced cardiac autophagy. <i>Cardiovascular Research</i> , 2012 , 93, 320-9 | 9.9 | 102 |
| 276 | ACE2 and vasoactive peptides: novel players in cardiovascular/renal remodeling and hypertension. <i>Therapeutic Advances in Cardiovascular Disease</i> , 2015 , 9, 217-37 | 3.4 | 97 |
| 275 | Calcium Transport and Signaling in Mitochondria. <i>Comprehensive Physiology</i> , 2017 , 7, 623-634 | 7.7 | 92 |
| 274 | 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 | 1.4 | 92 |

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|-----|---|------|----|
| 273 | Beta(2)-adrenergic receptor regulates cardiac fibroblast autophagy and collagen degradation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 23-31 | 6.9 | 91 |
| 272 | 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, 509-18 | 6.9 | 88 |
| 271 | Drp1 loss-of-function reduces cardiomyocyte oxygen dependence protecting the heart from ischemia-reperfusion injury. <i>Journal of Cardiovascular Pharmacology</i> , 2014 , 63, 477-87 | 3.1 | 82 |
| 270 | Electrical stimuli release ATP to increase GLUT4 translocation and glucose uptake via PI3K/Akt-AS160 in skeletal muscle cells. <i>Diabetes</i> , 2013 , 62, 1519-26 | 0.9 | 81 |
| 269 | Sarcoplasmic reticulum-mitochondria communication in cardiovascular pathophysiology. <i>Nature Reviews Cardiology</i> , 2017 , 14, 342-360 | 14.8 | 80 |
| 268 | Cell death and survival through the endoplasmic reticulum-mitochondrial axis. <i>Current Molecular Medicine</i> , 2013 , 13, 317-29 | 2.5 | 79 |
| 267 | Inhibition of autophagy by TAB2 and TAB3. <i>EMBO Journal</i> , 2011 , 30, 4908-20 | 13 | 79 |
| 266 | Proinflammatory cytokines differentially regulate adipocyte mitochondrial metabolism, oxidative stress, and dynamics. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E1033-45 | 6 | 73 |
| 265 | Testosterone induces cardiomyocyte hypertrophy through mammalian target of rapamycin complex 1 pathway. <i>Journal of Endocrinology</i> , 2009 , 202, 299-307 | 4.7 | 73 |
| 264 | Nanoparticles for diagnosis and therapy of atherosclerosis and myocardial infarction: evolution toward prospective theranostic approaches. <i>Theranostics</i> , 2018 , 8, 4710-4732 | 12.1 | 73 |
| 263 | Mitochondrial control of cell death induced by hyperosmotic stress. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007 , 12, 3-18 | 5.4 | 72 |
| 262 | Aldose reductase induced by hyperosmotic stress mediates cardiomyocyte apoptosis: differential effects of sorbitol and mannitol. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38484-94 | 5.4 | 70 |
| 261 | Tuning flux: autophagy as a target of heart disease therapy. <i>Current Opinion in Cardiology</i> , 2011 , 26, 216-22 | 22 | 69 |
| 260 | ER-to-mitochondria miscommunication and metabolic diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 2096-105 | 6.9 | 68 |
| 259 | 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, 537-45 | 6.9 | 68 |
| 258 | 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, 236-45 | 15.7 | 67 |
| 257 | 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, 1191-200 | 3.9 | 67 |
| 256 | Dexamethasone-induced autophagy mediates muscle atrophy through mitochondrial clearance. <i>Cell Cycle</i> , 2014 , 13, 2281-95 | 4.7 | 66 |

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|-----|---|------|----|
| 255 | The inositol trisphosphate receptor in the control of autophagy. <i>Autophagy</i> , 2007 , 3, 350-3 | 10.2 | 66 |
| 254 | Neuronal Thy-1 induces astrocyte adhesion by engaging syndecan-4 in a cooperative interaction with alphavbeta3 integrin that activates PKCalpha and RhoA. <i>Journal of Cell Science</i> , 2009 , 122, 3462-71 | 5.3 | 65 |
| 253 | Angiotensin-(1-9) regulates cardiac hypertrophy in vivo and in vitro. <i>Journal of Hypertension</i> , 2010 , 28, 1054-64 | 1.9 | 65 |
| 252 | Increased levels of oxidative stress, subclinical inflammation, and myocardial fibrosis markers in primary aldosteronism patients. <i>Journal of Hypertension</i> , 2010 , 28, 2120-6 | 1.9 | 64 |
| 251 | Fibroblast Primary Cilia Are Required for Cardiac Fibrosis. <i>Circulation</i> , 2019 , 139, 2342-2357 | 16.7 | 63 |
| 250 | 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, 771-83 | 1.9 | 63 |
| 249 | 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 | 5.6 | 62 |
| 248 | New Molecular Insights of Insulin in Diabetic Cardiomyopathy. <i>Frontiers in Physiology</i> , 2016 , 7, 125 | 4.6 | 59 |
| 247 | Endothelial cells release cardioprotective exosomes that may contribute to ischaemic preconditioning. <i>Scientific Reports</i> , 2018 , 8, 15885 | 4.9 | 59 |
| 246 | 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, 356-62 | 6.9 | 58 |
| 245 | 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, 7554-65 | 5.4 | 58 |
| 244 | Diabetic cardiomyopathy and metabolic remodeling of the heart. <i>Life Sciences</i> , 2013 , 92, 609-15 | 6.8 | 57 |
| 243 | Emerging role of mitophagy in cardiovascular physiology and pathology. <i>Molecular Aspects of Medicine</i> , 2020 , 71, 100822 | 16.7 | 57 |
| 242 | Polycystin-1 Is a Cardiomyocyte Mechanosensor That Governs L-Type Ca ²⁺ Channel Protein Stability. <i>Circulation</i> , 2015 , 131, 2131-42 | 16.7 | 56 |
| 241 | Impaired cardiac autophagy in patients developing postoperative atrial fibrillation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 143, 451-9 | 1.5 | 54 |
| 240 | Recent insights and therapeutic perspectives of angiotensin-(1-9) in the cardiovascular system. <i>Clinical Science</i> , 2014 , 127, 549-57 | 6.5 | 54 |
| 239 | Inhibition of class I histone deacetylases blunts cardiac hypertrophy through TSC2-dependent mTOR repression. <i>Science Signaling</i> , 2016 , 9, ra34 | 8.8 | 53 |
| 238 | Oxidative stress and autophagy in cardiovascular homeostasis. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 507-18 | 8.4 | 52 |

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|-----|--|------|----|
| 237 | Protein carbonylation and adipocyte mitochondrial function. <i>Journal of Biological Chemistry</i> , 2012 , 287, 32967-80 | 5.4 | 51 |
| 236 | Mitochondrial fission and autophagy in the normal and diseased heart. <i>Current Hypertension Reports</i> , 2010 , 12, 418-25 | 4.7 | 50 |
| 235 | 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, 539-50 | 5.4 | 49 |
| 234 | Dexmedetomidine protects the heart against ischemia-reperfusion injury by an endothelial eNOS/NO dependent mechanism. <i>Pharmacological Research</i> , 2016 , 103, 318-27 | 10.2 | 48 |
| 233 | The complex interplay between mitochondrial dynamics and cardiac metabolism. <i>Journal of Bioenergetics and Biomembranes</i> , 2011 , 43, 47-51 | 3.7 | 48 |
| 232 | FoxO1 mediates TGF-beta1-dependent cardiac myofibroblast differentiation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016 , 1863, 128-38 | 4.9 | 47 |
| 231 | Rho kinase inhibition activates the homologous angiotensin-converting enzyme-angiotensin-(1-9) axis in experimental hypertension. <i>Journal of Hypertension</i> , 2011 , 29, 706-15 | 1.9 | 47 |
| 230 | 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, 435-41 | 5.8 | 47 |
| 229 | 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 | 7.8 | 47 |
| 228 | Mitochondria, myocardial remodeling, and cardiovascular disease. <i>Current Hypertension Reports</i> , 2012 , 14, 532-9 | 4.7 | 46 |
| 227 | Cardiomyocyte ryanodine receptor degradation by chaperone-mediated autophagy. <i>Cardiovascular Research</i> , 2013 , 98, 277-85 | 9.9 | 45 |
| 226 | Ceramide-induced formation of ROS and ATP depletion trigger necrosis in lymphoid cells. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 1146-60 | 7.8 | 45 |
| 225 | Control of growth and differentiation of the mammary gland by growth factors. <i>Journal of Dairy Science</i> , 1991 , 74, 2788-800 | 4 | 45 |
| 224 | Defective insulin signaling and mitochondrial dynamics in diabetic cardiomyopathy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 1113-8 | 4.9 | 42 |
| 223 | 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, 193-6 | 3.8 | 41 |
| 222 | Insulin elicits a ROS-activated and an IPE-dependent Ca ²⁺ release, which both impinge on GLUT4 translocation. <i>Journal of Cell Science</i> , 2014 , 127, 1911-23 | 5.3 | 40 |
| 221 | 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 | 6 | 40 |
| 220 | 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, 754-62 | 6.9 | 40 |

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| 219 | Contraction-related stimuli regulate GLUT4 traffic in C2C12-GLUT4myc skeletal muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E1058-71 | 6 | 40 |
| 218 | An inositol 1,4,5-triphosphate (IP3)-IP3 receptor pathway is required for insulin-stimulated glucose transporter 4 translocation and glucose uptake in cardiomyocytes. <i>Endocrinology</i> , 2010 , 151, 4665-77 | 4.8 | 39 |
| 217 | IKK connects autophagy to major stress pathways. <i>Autophagy</i> , 2010 , 6, 189-91 | 10.2 | 39 |
| 216 | Trimetazidine prevents palmitate-induced mitochondrial fission and dysfunction in cultured cardiomyocytes. <i>Biochemical Pharmacology</i> , 2014 , 91, 323-36 | 6 | 38 |
| 215 | A rapid and strong apoptotic process is triggered by hyperosmotic stress in cultured rat cardiac myocytes. <i>Cell and Tissue Research</i> , 2001 , 304, 279-85 | 4.2 | 38 |
| 214 | Mitochondria in Structural and Functional Cardiac Remodeling. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 982, 277-306 | 3.6 | 36 |
| 213 | The transcription factor MEF2C mediates cardiomyocyte hypertrophy induced by IGF-1 signaling. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 388, 155-60 | 3.4 | 36 |
| 212 | Ca ²⁺ , autophagy and protein degradation: thrown off balance in neurodegenerative disease. <i>Cell Calcium</i> , 2010 , 47, 112-21 | 4 | 36 |
| 211 | Organelle communication: signaling crossroads between homeostasis and disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 50, 55-9 | 5.6 | 35 |
| 210 | Testosterone increases GLUT4-dependent glucose uptake in cardiomyocytes. <i>Journal of Cellular Physiology</i> , 2013 , 228, 2399-407 | 7 | 35 |
| 209 | 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, 526-34 | 7.8 | 35 |
| 208 | The use of glandular-derived stem cells to improve vascularization in scaffold-mediated dermal regeneration. <i>Biomaterials</i> , 2009 , 30, 5918-26 | 15.6 | 33 |
| 207 | Anabolic androgenic steroids and intracellular calcium signaling: a mini review on mechanisms and physiological implications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011 , 11, 390-8 | 3.2 | 33 |
| 206 | IGF-1 regulates apoptosis of cardiac myocyte induced by osmotic-stress. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 270, 1029-35 | 3.4 | 33 |
| 205 | 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, 736-44 | 3.4 | 33 |
| 204 | Down Syndrome Critical Region 1 Gene, , Helps Maintain a More Fused Mitochondrial Network. <i>Circulation Research</i> , 2018 , 122, e20-e33 | 15.7 | 32 |
| 203 | Systemic oxidative stress and endothelial dysfunction is associated with an attenuated acute vascular response to inhaled prostanoid in pulmonary artery hypertension patients. <i>Journal of Cardiac Failure</i> , 2011 , 17, 1012-7 | 3.3 | 32 |
| 202 | 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, 215-8 | 3 | 32 |

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|-----|---|------|----|
| 201 | Increased aortic NADPH oxidase activity in rats with genetically high angiotensin-converting enzyme levels. <i>Hypertension</i> , 2005 , 46, 1362-7 | 8.5 | 32 |
| 200 | Calcium and mitochondrial metabolism in ceramide-induced cardiomyocyte death. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1334-44 | 6.9 | 31 |
| 199 | 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, 1104-8 | 1.5 | 31 |
| 198 | Simvastatin induces apoptosis by a Rho-dependent mechanism in cultured cardiac fibroblasts and myofibroblasts. <i>Toxicology and Applied Pharmacology</i> , 2011 , 255, 57-64 | 4.6 | 31 |
| 197 | Hyperosmotic stress-dependent NFkappaB activation is regulated by reactive oxygen species and IGF-1 in cultured cardiomyocytes. <i>FEBS Letters</i> , 2006 , 580, 4495-500 | 3.8 | 31 |
| 196 | A BAX/BAK and cyclophilin D-independent intrinsic apoptosis pathway. <i>PLoS ONE</i> , 2012 , 7, e37782 | 3.7 | 30 |
| 195 | Markedly increased Rho-kinase activity in circulating leukocytes in patients with chronic heart failure. <i>American Heart Journal</i> , 2011 , 161, 931-7 | 4.9 | 30 |
| 194 | Trypanosoma cruzi calreticulin: a possible role in ChagasSdisease autoimmunity. <i>Molecular Immunology</i> , 2009 , 46, 1092-9 | 4.3 | 30 |
| 193 | Membrane electrical activity elicits inositol 1,4,5-trisphosphate-dependent slow Ca ²⁺ signals through a Gbetagamma/phosphatidylinositol 3-kinase gamma pathway in skeletal myotubes. <i>Journal of Biological Chemistry</i> , 2006 , 281, 12143-54 | 5.4 | 30 |
| 192 | IGF-1 protects cardiac myocytes from hyperosmotic stress-induced apoptosis via CREB. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 336, 1112-8 | 3.4 | 30 |
| 191 | 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 | 12.7 | 30 |
| 190 | Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. <i>Endocrine Reviews</i> , 2020 , 41, | 27.2 | 29 |
| 189 | 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, 1000-9 | 4.4 | 29 |
| 188 | Calcium signaling in insulin action on striated muscle. <i>Cell Calcium</i> , 2014 , 56, 390-6 | 4 | 29 |
| 187 | Effects of carvedilol on oxidative stress and chronotropic response to exercise in patients with chronic heart failure. <i>European Journal of Heart Failure</i> , 2005 , 7, 1033-9 | 12.3 | 29 |
| 186 | Angiotensin I-converting enzyme modulates neutral endopeptidase activity in the rat. <i>Hypertension</i> , 2001 , 38, 650-4 | 8.5 | 29 |
| 185 | Oxidative stress after reperfusion with primary coronary angioplasty: lack of effect of glucose-insulin-potassium infusion. <i>Critical Care Medicine</i> , 2002 , 30, 417-21 | 1.4 | 29 |
| 184 | Ca ²⁺ signals promote GLUT4 exocytosis and reduce its endocytosis in muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E209-24 | 6 | 28 |

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|-----|---|------|----|
| 183 | 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, 408-13 | 5.8 | 28 |
| 182 | NAD Repletion Reverses Heart Failure With Preserved Ejection Fraction. <i>Circulation Research</i> , 2021 , 128, 1629-1641 | 15.7 | 28 |
| 181 | Alteration in mitochondrial Ca(2+) uptake disrupts insulin signaling in hypertrophic cardiomyocytes. <i>Cell Communication and Signaling</i> , 2014 , 12, 68 | 7.5 | 27 |
| 180 | Mitochondria fine-tune the slow Ca(2+) transients induced by electrical stimulation of skeletal myotubes. <i>Cell Calcium</i> , 2010 , 48, 358-70 | 4 | 27 |
| 179 | BAG3 regulates total MAP1LC3B protein levels through a translational but not transcriptional mechanism. <i>Autophagy</i> , 2016 , 12, 287-96 | 10.2 | 26 |
| 178 | Systemic vascular cell adhesion molecule-1 predicts the occurrence of post-operative atrial fibrillation. <i>International Journal of Cardiology</i> , 2011 , 150, 270-6 | 3.2 | 26 |
| 177 | Serum uric acid correlates with extracellular superoxide dismutase activity in patients with chronic heart failure. <i>European Journal of Heart Failure</i> , 2008 , 10, 646-51 | 12.3 | 26 |
| 176 | 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, H498-506 | 5.2 | 26 |
| 175 | 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 | 2.3 | 26 |
| 174 | Manipulation of ACE2 expression in COVID-19. <i>Open Heart</i> , 2020 , 7, | 3 | 26 |
| 173 | Basal autophagy protects cardiomyocytes from doxorubicin-induced toxicity. <i>Toxicology</i> , 2016 , 370, 41-48 | 4.4 | 26 |
| 172 | Therapeutic targeting of autophagy in myocardial infarction and heart failure. <i>Expert Review of Cardiovascular Therapy</i> , 2016 , 14, 1007-19 | 2.5 | 25 |
| 171 | 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 | 6.9 | 25 |
| 170 | Rho kinase activation and gene expression related to vascular remodeling in normotensive rats with high angiotensin I converting enzyme levels. <i>Hypertension</i> , 2007 , 50, 792-8 | 8.5 | 25 |
| 169 | La vía de señalización Rho/Rho-quinasa en la enfermedad y el remodelado cardiovascular. <i>Revista Espanola De Cardiologia</i> , 2005 , 58, 951-961 | 1.5 | 25 |
| 168 | Changes in cyclic AMP dependent protein kinase and active stiffness in the rat volume overload model of heart hypertrophy. <i>Cardiovascular Research</i> , 1993 , 27, 1634-8 | 9.9 | 25 |
| 167 | mTORC1 inhibitor rapamycin and ER stressor tunicamycin induce differential patterns of ER-mitochondria coupling. <i>Scientific Reports</i> , 2016 , 6, 36394 | 4.9 | 25 |
| 166 | Angiotensin II-Regulated Autophagy Is Required for Vascular Smooth Muscle Cell Hypertrophy. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1553 | 5.6 | 24 |

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|-----|--|------|----|
| 165 | Glutathione Depletion Induces Spermatogonial Cell Autophagy. <i>Journal of Cellular Biochemistry</i> , 2015 , 116, 2283-92 | 4.7 | 24 |
| 164 | Phospholipase C/protein kinase C pathway mediates angiotensin II-dependent apoptosis in neonatal rat cardiac fibroblasts expressing AT1 receptor. <i>Journal of Cardiovascular Pharmacology</i> , 2008 , 52, 184-90 | 3.1 | 24 |
| 163 | Herp depletion protects from protein aggregation by up-regulating autophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 3295-3305 | 4.9 | 23 |
| 162 | Parallel activation of Ca(2+)-induced survival and death pathways in cardiomyocytes by sorbitol-induced hyperosmotic stress. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010 , 15, 887-903 | 5.4 | 23 |
| 161 | NFAT5 is activated by hypoxia: role in ischemia and reperfusion in the rat kidney. <i>PLoS ONE</i> , 2012 , 7, e39665 | 3.65 | 23 |
| 160 | Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. <i>Journal of Cell Science</i> , 2011 , 124, 2511-2511 | 5.3 | 22 |
| 159 | Levels of plasma angiotensin-(1-7) in patients with hypertension who have the angiotensin-I-converting enzyme deletion/deletion genotype. <i>American Journal of Cardiology</i> , 2003 , 92, 749-51 | 3 | 22 |
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