

# Rosario R Rizzuto

## List of Publications by Year in descending order

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Version: 2024-02-01

222  
papers

38,947  
citations

3334

91  
h-index

2747

192  
g-index

239  
all docs

239  
docs citations

239  
times ranked

38220  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Novel Loss of Function Melanocortin-4-Receptor Mutation (MC4R-F313Sfs*29) in Morbid Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 736-749.                                      | 3.6  | 4         |
| 2  | The molecular complexity of the Mitochondrial Calcium Uniporter. <i>Cell Calcium</i> , 2021, 93, 102322.  | 2.4  | 29        |
| 3  | Skeletal muscle mitochondria in health and disease. <i>Cell Calcium</i> , 2021, 94, 102357.   | 2.4  | 21        |
| 4  | Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. <i>Cell Reports</i> , 2021, 35, 109087.  | 6.4  | 16        |
| 5  | From the Identification to the Dissection of the Physiological Role of the Mitochondrial Calcium Uniporter: An Ongoing Story. <i>Biomolecules</i> , 2021, 11, 786.  | 4.0  | 17        |
| 6  | Identification and functional validation of FDA-approved positive and negative modulators of the mitochondrial calcium uniporter. <i>Cell Reports</i> , 2021, 35, 109275.   | 6.4  | 28        |
| 7  | Mitochondrial K <sup>+</sup> channels and their implications for disease mechanisms. , 2021, 227, 107874.   |      | 29        |
| 8  | The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. <i>Science Signaling</i> , 2021, 14, eabf3838.                             | 3.6  | 17        |
| 9  | The Mitochondrial Ca <sup>2+</sup> Uptake and the Fine-Tuning of Aerobic Metabolism. <i>Frontiers in Physiology</i> , 2020, 11, 554904.   | 2.8  | 60        |
| 10 | The ER-mitochondria tether at the hub of Ca <sup>2+</sup> signaling. <i>Current Opinion in Physiology</i> , 2020, 17, 261-268.  | 1.8  | 21        |
| 11 | Mitochondrial ion channels as targets for cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 7102-7114.  | 3.6  | 48        |
| 12 | A High-Throughput Screening Identifies MICU1 Targeting Compounds. <i>Cell Reports</i> , 2020, 30, 2321-2331.e6.   | 6.4  | 54        |
| 13 | The pore-forming subunit MCU of the mitochondrial Ca <sup>2+</sup> uniporter is required for normal glucose-stimulated insulin secretion in vitro and in vivo in mice. <i>Diabetologia</i> , 2020, 63, 1368-1381. | 6.3  | 37        |
| 14 | MICU3 is a tissue-specific enhancer of mitochondrial calcium uptake. <i>Cell Death and Differentiation</i> , 2019, 26, 179-195.   | 11.2 | 145       |
| 15 | Crosstalk between Mitochondrial Ca <sup>2+</sup> Uptake and Autophagy in Skeletal Muscle. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.  | 4.0  | 8         |
| 16 | Methods to Measure Intracellular Ca <sup>2+</sup> Concentration Using Ca <sup>2+</sup> -Sensitive Dyes. <i>Methods in Molecular Biology</i> , 2019, 1925, 43-58.  | 0.9  | 4         |
| 17 | Crosstalk between Calcium and ROS in Pathophysiological Conditions. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-18.  | 4.0  | 115       |
| 18 | Overexpression of Mitochondrial Calcium Uniporter Causes Neuronal Death. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-15.   | 4.0  | 42        |

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|----|---|------|-----------|
| 19 | Loss of mitochondrial calcium uniporter rewires skeletal muscle metabolism and substrate preference. <i>Cell Death and Differentiation</i> , 2019, 26, 362-381.   | 11.2 | 53        |
| 20 | Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.  | 11.2 | 4,036     |
| 21 | Mitochondrial calcium uptake in organ physiology: from molecular mechanism to animal models. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1165-1179.  | 2.8  | 119       |
| 22 | The MCU complex in cell death. <i>Cell Calcium</i> , 2018, 69, 73-80.   | 2.4  | 62        |
| 23 | Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572.   | 11.2 | 120       |
| 24 | Recent advances in the molecular mechanism of mitochondrial calcium uptake. <i>F1000Research</i> , 2018, 7, 1858.   | 1.6  | 46        |
| 25 | Parkin-dependent regulation of the MCU complex component MICU1. <i>Scientific Reports</i> , 2018, 8, 14199.   | 3.3  | 31        |
| 26 | MCU-knockdown attenuates high glucose-induced inflammation through regulating MAPKs/NF- $\kappa$ B pathways and ROS production in HepG2 cells. <i>PLoS ONE</i> , 2018, 13, e0196580.  | 2.5  | 29        |
| 27 | Mitochondrial Calcium Increase Induced by RyR1 and IP3R Channel Activation After Membrane Depolarization Regulates Skeletal Muscle Metabolism. <i>Frontiers in Physiology</i> , 2018, 9, 791.   | 2.8  | 51        |
| 28 | Molecular Players of Mitochondrial Calcium Signaling: Similarities and Different Aspects in Various Organisms. <i>Biological and Medical Physics Series</i> , 2017, , 41-65.  | 0.4  | 0         |
| 29 | Mitochondrial Calcium Handling in Physiology and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2017, 982, 25-47.  | 1.6  | 61        |
| 30 | Physiological Characterization of a Plant Mitochondrial Calcium Uniporter in Vitro and in Vivo. <i>Plant Physiology</i> , 2017, 173, 1355-1370.   | 4.8  | 54        |
| 31 | Content of mitochondrial calcium uniporter (MCU) in cardiomyocytes is regulated by microRNA-1 in physiologic and pathologic hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9006-E9015. | 7.1  | 70        |
| 32 | Role of p66shc in skeletal muscle function. <i>Scientific Reports</i> , 2017, 7, 6283.  | 3.3  | 11        |
| 33 | Increased mitochondrial calcium uniporter in adipocytes underlies mitochondrial alterations associated with insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E641-E650.                              | 3.5  | 25        |
| 34 | Structure, Activity Regulation, and Role of the Mitochondrial Calcium Uniporter in Health and Disease. <i>Frontiers in Oncology</i> , 2017, 7, 139.   | 2.8  | 80        |
| 35 | Physical exercise in aging human skeletal muscle increases mitochondrial calcium uniporter expression levels and affects mitochondria dynamics. <i>Physiological Reports</i> , 2016, 4, e13005.   | 1.7  | 71        |
| 36 | The mitochondrial calcium uniporter regulates breast cancer progression via $\text{HIF}1\alpha$ . <i>EMBO Molecular Medicine</i> , 2016, 8, 569-585.  | 6.9  | 195       |

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|----|--|------|-----------|
| 37 | Enjoy the Trip: Calcium in Mitochondria Back and Forth. Annual Review of Biochemistry, 2016, 85, 161-192.  | 11.1 | 348       |
| 38 | Mitochondrial Function, Biology, and Role in Disease. Circulation Research, 2016, 118, 1960-1991.  | 4.5  | 330       |
| 39 | Calcium at the Center of Cell Signaling: Interplay between Endoplasmic Reticulum, Mitochondria, and Lysosomes. Trends in Biochemical Sciences, 2016, 41, 1035-1049.                                      | 7.5  | 382       |
| 40 | <scp>FATE</scp> 1 antagonizes calcium&#x2013;and drug&#x2013;induced apoptosis by uncoupling <scp>ER</scp> and mitochondria. EMBO Reports, 2016, 17, 1264-1280.  | 4.5  | 102       |
| 41 | The m -AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. Molecular Cell, 2016, 64, 148-162.  | 9.7  | 153       |
| 42 | A MICU1 Splice Variant Confers High Sensitivity to the Mitochondrial Ca <sup>2+</sup> Uptake Machinery of Skeletal Muscle. Molecular Cell, 2016, 64, 760-773.  | 9.7  | 97        |
| 43 | Molecular structure and pathophysiological roles of the Mitochondrial Calcium Uniporter. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2457-2464.                                 | 4.1  | 62        |
| 44 | p53 at the endoplasmic reticulum regulates apoptosis in a Ca <sup>2+</sup> -dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1779-1784.     | 7.1  | 247       |
| 45 | Molecular diversity and pleiotropic role of the mitochondrial calcium uniporter. Cell Calcium, 2015, 58, 11-17.  | 2.4  | 61        |
| 46 | Lysosomal calcium signalling regulates autophagy through calcineurin and TFEB. Nature Cell Biology, 2015, 17, 288-299.   | 10.3 | 1,006     |
| 47 | Gene expression changes of single skeletal muscle fibers in response to modulation of the mitochondrial calcium uniporter (MCU). Genomics Data, 2015, 5, 64-67.  | 1.3  | 15        |
| 48 | Structure and function of the mitochondrial calcium uniporter complex. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2006-2011.   | 4.1  | 154       |
| 49 | The Mitochondrial Calcium Uniporter Controls Skeletal Muscle Trophism In Vivo. Cell Reports, 2015, 10, 1269-1279.  | 6.4  | 170       |
| 50 | Measuring Baseline Ca <sup>2+</sup> Levels in Subcellular Compartments Using Genetically Engineered Fluorescent Indicators. Methods in Enzymology, 2014, 543, 47-72.                                     | 1.0  | 17        |
| 51 | Toll&#x2013;like receptors hit calcium. EMBO Reports, 2014, 15, 468-469.   | 4.5  | 5         |
| 52 | Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. Nature Genetics, 2014, 46, 188-193.                              | 21.4 | 311       |
| 53 | Molecular control of mitochondrial calcium uptake. Biochemical and Biophysical Research Communications, 2014, 449, 373-376.  | 2.1  | 27        |
| 54 | Human white adipocytes express the cold receptor TRPM8 which activation induces UCP1 expression, mitochondrial activation and heat production. Molecular and Cellular Endocrinology, 2014, 383, 137-146. | 3.2  | 96        |

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|----|--|------|-----------|
| 55 | Meeting highlights from the 2013 European Society of Cardiology Heart Failure Association Winter Meeting on Translational Heart Failure Research. <i>European Journal of Heart Failure</i> , 2014, 16, 6-14.                       | 7.1  | 1         |
| 56 | Altered dopamine homeostasis differentially affects mitochondrial voltage-dependent anion channels turnover. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1816-1822.                            | 3.8  | 31        |
| 57 | Adrenergic Signaling Regulates Mitochondrial Ca <sup>2+</sup> Uptake Through Pyk2-Dependent Tyrosine Phosphorylation of the Mitochondrial Ca <sup>2+</sup> Uniporter. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 863-879. | 5.4  | 69        |
| 58 | The Use of Aequorin and Its Variants for Ca <sup>2+</sup> Measurements. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.top066118.   | 0.3  | 18        |
| 59 | Using Targeted Variants of Aequorin to Measure Ca <sup>2+</sup> Levels in Intracellular Organelles. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot072843.  | 0.3  | 12        |
| 60 | MICU1 and MICU2 Finely Tune the Mitochondrial Ca <sup>2+</sup> Uniporter by Exerting Opposite Effects on MCU Activity. <i>Molecular Cell</i> , 2014, 53, 726-737.  | 9.7  | 441       |
| 61 | Muscle insulin sensitivity and glucose metabolism are controlled by the intrinsic muscle clock. <i>Molecular Metabolism</i> , 2014, 3, 29-41.  | 6.5  | 324       |
| 62 | Καί, ἡ ἀἰσθητικὴ ἀρετὴ: how mitochondrial beauty translates into biological virtue. <i>Current Opinion in Cell Biology</i> , 2013, 25, 477-482.  | 5.4  | 5         |
| 63 | The mitochondrial calcium uniporter is a multimer that can include a dominant-negative pore-forming subunit. <i>EMBO Journal</i> , 2013, 32, 2362-2376.  | 7.8  | 408       |
| 64 | Subcellular calcium measurements in mammalian cells using jellyfish photoprotein aequorin-based probes. <i>Nature Protocols</i> , 2013, 8, 2105-2118.  | 12.0 | 149       |
| 65 | Frequency-dependent mitochondrial Ca <sup>2+</sup> accumulation regulates ATP synthesis in pancreatic $\beta$ cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 543-554.                                   | 2.8  | 73        |
| 66 | Downregulation of the Mitochondrial Calcium Uniporter by Cancer-Related miR-25. <i>Current Biology</i> , 2013, 23, 58-63.  | 3.9  | 198       |
| 67 | The Mitochondrial Calcium Uniporter (MCU): Molecular Identity and Physiological Roles. <i>Journal of Biological Chemistry</i> , 2013, 288, 10750-10758.  | 3.4  | 131       |
| 68 | Respiratory dysfunction by AFG3L2 deficiency causes decreased mitochondrial calcium uptake via organellar network fragmentation. <i>Human Molecular Genetics</i> , 2012, 21, 3858-3870.  | 2.9  | 49        |
| 69 | Mitofusin 2 Joins the Sarcoplasmic Reticulum and Mitochondria at the Hip to Sustain Cardiac Energetics. <i>Circulation Research</i> , 2012, 111, 821-823.  | 4.5  | 10        |
| 70 | Bcl-2-associated autophagy regulator Naf-1 required for maintenance of skeletal muscle. <i>Human Molecular Genetics</i> , 2012, 21, 2277-2287.   | 2.9  | 84        |
| 71 | The selective inhibition of nuclear PKC $\eta$ restores the effectiveness of chemotherapeutic agents in chemoresistant cells. <i>Cell Cycle</i> , 2012, 11, 1040-1048.   | 2.6  | 11        |
| 72 | Withdrawal of Essential Amino Acids Increases Autophagy by a Pathway Involving Ca <sup>2+</sup> /Calmodulin-dependent Kinase Kinase- $\beta$ (CaMKK- $\beta$ ). <i>Journal of Biological Chemistry</i> , 2012, 287, 38625-38636.   | 3.4  | 103       |

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|----|---|------|-----------|
| 73 | Mitochondrial Ca <sup>2+</sup> uptake contributes to buffering cytoplasmic Ca <sup>2+</sup> peaks in cardiomyocytes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12986-12991.                   | 7.1  | 192       |
| 74 | The Pathophysiology of LETM1. Journal of General Physiology, 2012, 139, 445-454.  | 1.9  | 61        |
| 75 | Copper and bezafibrate cooperate to rescue cytochrome c oxidase deficiency in cells of patients with sco2 mutations. Orphanet Journal of Rare Diseases, 2012, 7, 21.  | 2.7  | 29        |
| 76 | Mitochondrial "flashes": a radical concept rephined. Trends in Cell Biology, 2012, 22, 503-508.   | 7.9  | 74        |
| 77 | Ero1 $\beta$ Regulates Ca <sup>2+</sup> Fluxes at the Endoplasmic Reticulum-Mitochondria Interface (MAM). Antioxidants and Redox Signaling, 2012, 16, 1077-1087.  | 5.4  | 180       |
| 78 | Mitochondria as sensors and regulators of calcium signalling. Nature Reviews Molecular Cell Biology, 2012, 13, 566-578.   | 37.0 | 1,369     |
| 79 | The mitochondrial Ca <sup>2+</sup> uniporter. Cell Calcium, 2012, 52, 16-21.  | 2.4  | 61        |
| 80 | The Mitochondrial Ca <sup>2+</sup> Uniporter MCU Is Essential for Glucose-Induced ATP Increases in Pancreatic $\beta$ -Cells. PLoS ONE, 2012, 7, e39722.  | 2.5  | 146       |
| 81 | A forty-kilodalton protein of the inner membrane is the mitochondrial calcium uniporter. Nature, 2011, 476, 336-340.  | 27.8 | 1,622     |
| 82 | Mitochondrial longevity pathways. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 260-268.   | 4.1  | 71        |
| 83 | Molecules and roles of mitochondrial calcium signaling. BioFactors, 2011, 37, 219-227.  | 5.4  | 34        |
| 84 | Translocation of signalling proteins to the plasma membrane revealed by a new bioluminescent procedure. BMC Cell Biology, 2011, 12, 27.   | 3.0  | 9         |
| 85 | NF- $\kappa$ B activation is required for apoptosis in fibrocystin/polyductin-depleted kidney epithelial cells. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 94-104.   | 4.9  | 14        |
| 86 | Signaling pathways in mitochondrial dysfunction and aging. Mechanisms of Ageing and Development, 2010, 131, 536-543.  | 4.6  | 211       |
| 87 | The p13 protein of human T cell leukemia virus type 1 (HTLV-1) modulates mitochondrial membrane potential and calcium uptake. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 945-951.   | 1.0  | 27        |
| 88 | PML Regulates Apoptosis at Endoplasmic Reticulum by Modulating Calcium Release. Science, 2010, 330, 1247-1251.  | 12.6 | 360       |
| 89 | Functional and structural alterations in the endoplasmic reticulum and mitochondria during apoptosis triggered by C2-ceramide and CD95/APO-1/FAS receptor stimulation. Biochemical and Biophysical Research Communications, 2010, 391, 575-581. | 2.1  | 17        |
| 90 | Expression of the P2X7 Receptor Increases the Ca <sup>2+</sup> Content of the Endoplasmic Reticulum, Activates NFATc1, and Protects from Apoptosis. Journal of Biological Chemistry, 2009, 284, 10120-10128.                                    | 3.4  | 95        |

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|-----|---|------|-----------|
| 91  | Intramitochondrial calcium regulation by the FHIT gene product sensitizes to apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12753-12758.  | 7.1  | 58        |
| 92  | MAM: more than just a housekeeper. Trends in Cell Biology, 2009, 19, 81-88.   | 7.9  | 654       |
| 93  | Mitochondria, calcium and cell death: A deadly triad in neurodegeneration. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 335-344.  | 1.0  | 254       |
| 94  | Ca <sup>2+</sup> transfer from the ER to mitochondria: When, how and why. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1342-1351.   | 1.0  | 396       |
| 95  | The origin of intermuscular adipose tissue and its pathophysiological implications. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E987-E998.  | 3.5  | 215       |
| 96  | Structural and functional link between the mitochondrial network and the endoplasmic reticulum. International Journal of Biochemistry and Cell Biology, 2009, 41, 1817-1827.  | 2.8  | 337       |
| 97  | Deficiency of polycystic kidney disease-1 gene (PKD1) expression increases A3 adenosine receptors in human renal cells: Implications for cAMP-dependent signalling and proliferation of PKD1-mutated cystic cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 531-540. | 3.8  | 22        |
| 98  | Controlling metabolism and cell death: At the heart of mitochondrial calcium signalling. Journal of Molecular and Cellular Cardiology, 2009, 46, 781-788.   | 1.9  | 101       |
| 99  | Mitochondria: From basic biology to cardiovascular disease. Journal of Molecular and Cellular Cardiology, 2009, 46, 765-766.  | 1.9  | 13        |
| 100 | The Mitochondrial Antioxidants MitoE <sub>2</sub> and MitoQ <sub>10</sub> Increase Mitochondrial Ca <sup>2+</sup> Load upon Cell Stimulation by Inhibiting Ca <sup>2+</sup> Efflux from the Organelle. Annals of the New York Academy of Sciences, 2008, 1147, 264-274.                             | 3.8  | 36        |
| 101 | Regulation of autophagy by cytoplasmic p53. Nature Cell Biology, 2008, 10, 676-687.   | 10.3 | 1,025     |
| 102 | The versatility of mitochondrial calcium signals: From stimulation of cell metabolism to induction of cell death. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 808-816.   | 1.0  | 106       |
| 103 | Modulation of intracellular Ca <sup>2+</sup> signalling in HeLa cells by the apoptotic cell death enhancer PK11195. Biochemical Pharmacology, 2008, 76, 1628-1636.  | 4.4  | 24        |
| 104 | Endoplasmic reticulum stress and alteration in calcium homeostasis are involved in cadmium-induced apoptosis. Cell Calcium, 2008, 43, 184-195.  | 2.4  | 151       |
| 105 | Measurements of mitochondrial pH in cultured cortical neurons clarify contribution of mitochondrial pore to the mechanism of glutamate-induced delayed Ca <sup>2+</sup> deregulation. Cell Calcium, 2008, 43, 602-614.  | 2.4  | 37        |
| 106 | Role of SERCA1 Truncated Isoform in the Proapoptotic Calcium Transfer from ER to Mitochondria during ER Stress. Molecular Cell, 2008, 32, 641-651.  | 9.7  | 204       |
| 107 | Akt kinase reducing endoplasmic reticulum Ca <sup>2+</sup> release protects cells from Ca <sup>2+</sup> -dependent apoptotic stimuli. Biochemical and Biophysical Research Communications, 2008, 375, 501-505.  | 2.1  | 109       |
| 108 | Imaging Calcium Dynamics Using Targeted Recombinant Aequorins. Cold Spring Harbor Protocols, 2008, 2008, pdb.top26.   | 0.3  | 1         |

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|-----|--|------|-----------|
| 109 | High glucose induces adipogenic differentiation of muscle-derived stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1226-1231.   | 7.1  | 243       |
| 110 | Loss-of-Function Mutation of the <i>GPR40</i> Gene Associates with Abnormal Stimulated Insulin Secretion by Acting on Intracellular Calcium Mobilization. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 3541-3550. | 3.6  | 61        |
| 111 | p66Shc, oxidative stress and aging: Importing a lifespan determinant into mitochondria. Cell Cycle, 2008, 7, 304-308.  | 2.6  | 78        |
| 112 | Bidirectional Ca <sup>2+</sup> -dependent control of mitochondrial dynamics by the Miro GTPase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20728-20733.                         | 7.1  | 474       |
| 113 | Peroxisomes as Novel Players in Cell Calcium Homeostasis. Journal of Biological Chemistry, 2008, 283, 15300-15308.   | 3.4  | 49        |
| 114 | Ca <sup>2+</sup> Signaling, Mitochondria and Cell Death. Current Molecular Medicine, 2008, 8, 119-130.   | 1.3  | 258       |
| 115 | The role of Ca <sup>2+</sup> in the regulation of intracellular transport. , 2008, , 143-160.  |      | 1         |
| 116 | The Endogenous Cannabinoid System Stimulates Glucose Uptake in Human Fat Cells via Phosphatidylinositol 3-Kinase and Calcium-Dependent Mechanisms. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 4810-4819.        | 3.6  | 188       |
| 117 | Increased longevity and refractoriness to Ca <sup>2+</sup> -dependent neurodegeneration in Surf1 knockout mice. Human Molecular Genetics, 2007, 16, 431-444.   | 2.9  | 279       |
| 118 | Mitochondrial Ca <sup>2+</sup> and cell death. New Comprehensive Biochemistry, 2007, 41, 471-481.  | 0.1  | 0         |
| 119 | Sphingosine 1-phosphate receptors modulate intracellular Ca <sup>2+</sup> homeostasis. Biochemical and Biophysical Research Communications, 2007, 353, 268-274.  | 2.1  | 21        |
| 120 | Control of Macroautophagy by Calcium, Calmodulin-Dependent Kinase Kinase- $\beta$ , and Bcl-2. Molecular Cell, 2007, 25, 193-205.  | 9.7  | 961       |
| 121 | Biosensors for the Detection of Calcium and pH. Methods in Cell Biology, 2007, 80, 297-325.  | 1.1  | 75        |
| 122 | Protein Kinase C $\delta$ and Prolyl Isomerase 1 Regulate Mitochondrial Effects of the Life-Span Determinant p66 <sup>Shc</sup> . Science, 2007, 315, 659-663.   | 12.6 | 448       |
| 123 | Chaperones as Parts of Organelle Networks. , 2007, 594, 64-77.   |      | 19        |
| 124 | Differential recruitment of PKC isoforms in HeLa cells during redox stress. Cell Stress and Chaperones, 2007, 12, 291.   | 2.9  | 24        |
| 125 | Mitochondria in Cell Life and Death. , 2007, , 145-158.  |      | 0         |
| 126 | Microdomains of Intracellular Ca <sup>2+</sup> : Molecular Determinants and Functional Consequences. Physiological Reviews, 2006, 86, 369-408.   | 28.8 | 1,067     |



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|-----|--|-----|-----------|
| 127 | Overexpression of adenine nucleotide translocase reduces Ca <sup>2+</sup> signal transmission between the ER and mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 393-399.  | 2.1 | 25        |
| 128 | Polycystin-1 promotes PKC $\delta$ -mediated NF- $\kappa$ B activation in kidney cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 257-262.   | 2.1 | 13        |
| 129 | Intracellular Evaluation of ER Targeting Elucidates a Mild Form of Inherited Coagulation Deficiency. <i>Molecular Medicine</i> , 2006, 12, 137-142.  | 4.4 | 6         |
| 130 | Chaperone-mediated coupling of endoplasmic reticulum and mitochondrial Ca <sup>2+</sup> channels. <i>Journal of Cell Biology</i> , 2006, 175, 901-911.   | 5.2 | 1,107     |
| 131 | Cytopathic effects of the cytomegalovirus-encoded apoptosis inhibitory protein vMIA. <i>Journal of Cell Biology</i> , 2006, 174, 985-996.  | 5.2 | 90        |
| 132 | Inhibitory Interaction of the Plasma Membrane Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers with the 14-3-3 Proteins. <i>Journal of Biological Chemistry</i> , 2006, 281, 19645-19654.  | 3.4 | 24        |
| 133 | Hepatitis C virus core triggers apoptosis in liver cells by inducing ER stress and ER calcium depletion. <i>Oncogene</i> , 2005, 24, 4921-4933.  | 5.9 | 254       |
| 134 | Mitochondrial calcium signalling in cell death. <i>FEBS Journal</i> , 2005, 272, 4013-4022.  | 4.7 | 25        |
| 135 | Calcium dynamics in catecholamine-containing secretory vesicles. <i>Cell Calcium</i> , 2005, 37, 555-564.  | 2.4 | 38        |
| 136 | A Novel Recombinant Plasma Membrane-targeted Luciferase Reveals a New Pathway for ATP Secretion. <i>Molecular Biology of the Cell</i> , 2005, 16, 3659-3665.   | 2.1 | 283       |
| 137 | The Golgi Ca <sup>2+</sup> -ATPase KIPmr1p Function Is Required for Oxidative Stress Response by Controlling the Expression of the Heat-Shock Element HSP60 in <i>Kluyveromyces lactis</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 4636-4647.   | 2.1 | 31        |
| 138 | Metformin Prevents Glucose-Induced Protein Kinase C- $\delta$ 2 Activation in Human Umbilical Vein Endothelial Cells Through an Antioxidant Mechanism. <i>Diabetes</i> , 2005, 54, 1123-1131.  | 0.6 | 97        |
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