

Simone Patergnani

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.

75
papers

5,123
citations

35
h-index

71
g-index

82
ext. papers

6,360
ext. citations

7
avg, IF

5.59
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 75 | Mitochondria-ros crosstalk in the control of cell death and aging. <i>Journal of Signal Transduction</i> , 2012 , 2012, 329635 | | 388 |
| 74 | Role of the c subunit of the FO ATP synthase in mitochondrial permeability transition. <i>Cell Cycle</i> , 2013 , 12, 674-83 | 4.7 | 357 |
| 73 | The endoplasmic reticulum-mitochondria connection: one touch, multiple functions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 461-9 | 4.6 | 304 |
| 72 | Mitochondrial Ca(2+) and apoptosis. <i>Cell Calcium</i> , 2012 , 52, 36-43 | 4 | 280 |
| 71 | Calcium signaling around Mitochondria Associated Membranes (MAMs). <i>Cell Communication and Signaling</i> , 2011 , 9, 19 | 7.5 | 246 |
| 70 | Mitochondrial and endoplasmic reticulum calcium homeostasis and cell death. <i>Cell Calcium</i> , 2018 , 69, 62-72 | 4 | 241 |
| 69 | BAP1 regulates IP3R3-mediated Ca flux to mitochondria suppressing cell transformation. <i>Nature</i> , 2017 , 546, 549-553 | 50.4 | 211 |
| 68 | Mitochondria-associated membranes: composition, molecular mechanisms, and physiopathological implications. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 995-1019 | 8.4 | 200 |
| 67 | ATP synthesis and storage. <i>Purinergic Signalling</i> , 2012 , 8, 343-57 | 3.8 | 199 |
| 66 | Protein kinases and phosphatases in the control of cell fate. <i>Enzyme Research</i> , 2011 , 2011, 329098 | 2.4 | 175 |
| 65 | Downregulation of the mitochondrial calcium uniporter by cancer-related miR-25. <i>Current Biology</i> , 2013 , 23, 58-63 | 6.3 | 174 |
| 64 | Subcellular calcium measurements in mammalian cells using jellyfish photoprotein aequorin-based probes. <i>Nature Protocols</i> , 2013 , 8, 2105-18 | 18.8 | 125 |
| 63 | Mitochondrial calcium homeostasis as potential target for mitochondrial medicine. <i>Mitochondrion</i> , 2012 , 12, 77-85 | 4.9 | 121 |
| 62 | Syndromic parkinsonism and dementia associated with OPA1 missense mutations. <i>Annals of Neurology</i> , 2015 , 78, 21-38 | 9.4 | 119 |
| 61 | Calcium regulates cell death in cancer: Roles of the mitochondria and mitochondria-associated membranes (MAMs). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017 , 1858, 615-627 | 4.6 | 111 |
| 60 | Mitochondria-associated membranes (MAMs) and inflammation. <i>Cell Death and Disease</i> , 2018 , 9, 329 | 9.8 | 105 |
| 59 | Calcium Dynamics as a Machine for Decoding Signals. <i>Trends in Cell Biology</i> , 2018 , 28, 258-273 | 18.3 | 103 |

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|----|--|------|-----|
| 58 | Redox control of protein kinase C: cell- and disease-specific aspects. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 1051-85 | 8.4 | 103 |
| 57 | Mitochondrial Ca ²⁺ -dependent NLRP3 activation exacerbates the <i>Pseudomonas aeruginosa</i> -driven inflammatory response in cystic fibrosis. <i>Nature Communications</i> , 2015 , 6, 6201 | 17.4 | 101 |
| 56 | PML at Mitochondria-Associated Membranes Is Critical for the Repression of Autophagy and Cancer Development. <i>Cell Reports</i> , 2016 , 16, 2415-27 | 10.6 | 90 |
| 55 | Defective autophagy is a key feature of cerebral cavernous malformations. <i>EMBO Molecular Medicine</i> , 2015 , 7, 1403-17 | 12 | 83 |
| 54 | Germline BAP1 mutations induce a Warburg effect. <i>Cell Death and Differentiation</i> , 2017 , 24, 1694-1704 | 12.7 | 75 |
| 53 | Endoplasmic Reticulum-Mitochondria Communication Through Ca Signaling: The Importance of Mitochondria-Associated Membranes (MAMs). <i>Advances in Experimental Medicine and Biology</i> , 2017 , 997, 49-67 | 3.6 | 73 |
| 52 | Tumor necrosis factor- α impairs oligodendroglial differentiation through a mitochondria-dependent process. <i>Cell Death and Differentiation</i> , 2014 , 21, 1198-208 | 12.7 | 71 |
| 51 | Mitochondria-associated membranes (MAMs) as hotspot Ca ²⁺ signaling units. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 740, 411-37 | 3.6 | 62 |
| 50 | Perturbed mitochondrial Ca ²⁺ signals as causes or consequences of mitophagy induction. <i>Autophagy</i> , 2013 , 9, 1677-86 | 10.2 | 59 |
| 49 | PRKCB/protein kinase C, beta and the mitochondrial axis as key regulators of autophagy. <i>Autophagy</i> , 2013 , 9, 1367-85 | 10.2 | 54 |
| 48 | H-Ras-driven tumoral maintenance is sustained through caveolin-1-dependent alterations in calcium signaling. <i>Oncogene</i> , 2014 , 33, 2329-40 | 9.2 | 51 |
| 47 | ER-mitochondria cross-talk is regulated by the Ca sensor NCS1 and is impaired in Wolfram syndrome. <i>Science Signaling</i> , 2018 , 11, | 8.8 | 48 |
| 46 | Mitochondria-Associated Endoplasmic Reticulum Membranes Microenvironment: Targeting Autophagic and Apoptotic Pathways in Cancer Therapy. <i>Frontiers in Oncology</i> , 2015 , 5, 173 | 5.3 | 44 |
| 45 | Mitophagy in Cardiovascular Diseases. <i>Journal of Clinical Medicine</i> , 2020 , 9, | 5.1 | 42 |
| 44 | Mitochondria in Multiple Sclerosis: Molecular Mechanisms of Pathogenesis. <i>International Review of Cell and Molecular Biology</i> , 2017 , 328, 49-103 | 6 | 41 |
| 43 | Physiopathology of the Permeability Transition Pore: Molecular Mechanisms in Human Pathology. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 40 |
| 42 | Autophagy and mitophagy biomarkers are reduced in sera of patients with Alzheimer's disease and mild cognitive impairment. <i>Scientific Reports</i> , 2019 , 9, 20009 | 4.9 | 40 |
| 41 | Autophagy and mitophagy elements are increased in body fluids of multiple sclerosis-affected individuals. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018 , 89, 439-441 | 5.5 | 36 |

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| 40 | NRIP1/RIP140 siRNA-mediated attenuation counteracts mitochondrial dysfunction in Down syndrome. <i>Human Molecular Genetics</i> , 2014 , 23, 4406-19 | 5.6 | 34 |
| 39 | Endoplasmic reticulum-mitochondria Ca crosstalk in the control of the tumor cell fate. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 858-864 | 4.9 | 32 |
| 38 | Various Aspects of Calcium Signaling in the Regulation of Apoptosis, Autophagy, Cell Proliferation, and Cancer. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 32 |
| 37 | Mitophagy and mitochondrial balance. <i>Methods in Molecular Biology</i> , 2015 , 1241, 181-94 | 1.4 | 31 |
| 36 | Hydroxylapatite-collagen hybrid scaffold induces human adipose-derived mesenchymal stem cells to osteogenic differentiation in vitro and bone regrowth in patients. <i>Stem Cells Translational Medicine</i> , 2020 , 9, 377-388 | 6.9 | 27 |
| 35 | Mitochondrial Ca(2+) Remodeling is a Prime Factor in Oncogenic Behavior. <i>Frontiers in Oncology</i> , 2015 , 5, 143 | 5.3 | 26 |
| 34 | The endoplasmic reticulum mitochondrial calcium cross talk is downregulated in malignant pleural mesothelioma cells and plays a critical role in apoptosis inhibition. <i>Oncotarget</i> , 2015 , 6, 23427-44 | 3.3 | 25 |
| 33 | Asbestos induces mesothelial cell transformation via HMGB1-driven autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25543-25552 | 11.5 | 23 |
| 32 | Methods to monitor and compare mitochondrial and glycolytic ATP production. <i>Methods in Enzymology</i> , 2014 , 542, 313-32 | 1.7 | 22 |
| 31 | Mitochondrial Oxidative Stress and "Mito-Inflammation": Actors in the Diseases. <i>Biomedicines</i> , 2021 , 9, | 4.8 | 21 |
| 30 | LonP1 Differently Modulates Mitochondrial Function and Bioenergetics of Primary Versus Metastatic Colon Cancer Cells. <i>Frontiers in Oncology</i> , 2018 , 8, 254 | 5.3 | 20 |
| 29 | Correlation between auto/mitophagic processes and magnetic resonance imaging activity in multiple sclerosis patients. <i>Journal of Neuroinflammation</i> , 2019 , 16, 131 | 10.1 | 20 |
| 28 | Human adipose stem cells induced to osteogenic differentiation by an innovative collagen/hydroxylapatite hybrid scaffold. <i>FASEB Journal</i> , 2017 , 31, 4555-4565 | 0.9 | 18 |
| 27 | Mitochondrial functionality and metabolism in T cells from progressive multiple sclerosis patients. <i>European Journal of Immunology</i> , 2019 , 49, 2204-2221 | 6.1 | 17 |
| 26 | Calcium mishandling in absence of primary mitochondrial dysfunction drives cellular pathology in Wolfram Syndrome. <i>Scientific Reports</i> , 2020 , 10, 4785 | 4.9 | 16 |
| 25 | Different Roles of Mitochondria in Cell Death and Inflammation: Focusing on Mitochondrial Quality Control in Ischemic Stroke and Reperfusion. <i>Biomedicines</i> , 2021 , 9, | 4.8 | 16 |
| 24 | High mitochondrial Ca content increases cancer cell proliferation upon inhibition of mitochondrial permeability transition pore (mPTP). <i>Cell Cycle</i> , 2019 , 18, 914-916 | 4.7 | 15 |
| 23 | Chemoresistance and Cancer-Related Inflammation: Two Hallmarks of Cancer Connected by an Atypical Link, PKC. <i>Frontiers in Oncology</i> , 2013 , 3, 232 | 5.3 | 13 |

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| 22 | Methods to Assess Mitochondrial Morphology in Mammalian Cells Mounting Autophagic or Mitophagic Responses. <i>Methods in Enzymology</i> , 2017 , 588, 171-186 | 1.7 | 12 |
| 21 | The Dichotomous Role of Inflammation in the CNS: A Mitochondrial Point of View. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 11 |
| 20 | The induction of AMPK-dependent autophagy leads to P53 degradation and affects cell growth and migration in kidney cancer cells. <i>Experimental Cell Research</i> , 2020 , 395, 112190 | 4.2 | 10 |
| 19 | Relevance of Autophagy and Mitophagy Dynamics and Markers in Neurodegenerative Diseases. <i>Biomedicines</i> , 2021 , 9, | 4.8 | 10 |
| 18 | Measurement of ATP concentrations in mitochondria of living cells using luminescence and fluorescence approaches. <i>Methods in Cell Biology</i> , 2020 , 155, 199-219 | 1.8 | 8 |
| 17 | Mitochondrial Stress Responses and "Mito-Inflammation" in Cystic Fibrosis. <i>Frontiers in Pharmacology</i> , 2020 , 11, 581114 | 5.6 | 8 |
| 16 | Impairment of mitophagy and autophagy accompanies calcific aortic valve stenosis favoring cell death and the severity of disease. <i>Cardiovascular Research</i> , 2021 , | 9.9 | 8 |
| 15 | Fluorescent Light Energy (FLE) Acts on Mitochondrial Physiology Improving Wound Healing. <i>Journal of Clinical Medicine</i> , 2020 , 9, | 5.1 | 7 |
| 14 | Vav1 is necessary for PU.1 mediated upmodulation of miR-29b in acute myeloid leukaemia-derived cells. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 3149-3158 | 5.6 | 7 |
| 13 | Aortic Valve Stenosis and Mitochondrial Dysfunctions: Clinical and Molecular Perspectives. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 7 |
| 12 | Antipsychotic drugs counteract autophagy and mitophagy in multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 7 |
| 11 | Adding a "Notch" to Cardiovascular Disease Therapeutics: A MicroRNA-Based Approach. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 695114 | 5.7 | 7 |
| 10 | Update on Calcium Signaling in Cystic Fibrosis Lung Disease. <i>Frontiers in Pharmacology</i> , 2021 , 12, 581645 | 5.6 | 5 |
| 9 | Calcium dysregulation in heart diseases: Targeting calcium channels to achieve a correct calcium homeostasis.. <i>Pharmacological Research</i> , 2022 , 177, 106119 | 10.2 | 4 |
| 8 | Understanding the Role of Autophagy in Cancer Formation and Progression Is a Real Opportunity to Treat and Cure Human Cancers. <i>Cancers</i> , 2021 , 13, | 6.6 | 4 |
| 7 | Rehabilitation Improves Mitochondrial Energetics in Progressive Multiple Sclerosis: The Significant Role of Robot-Assisted Gait Training and of the Personalized Intensity. <i>Diagnostics</i> , 2020 , 10, | 3.8 | 4 |
| 6 | From Bed to Bench and Back: TNF- α /IL-23/IL-17A, and JAK-Dependent Inflammation in the Pathogenesis of Psoriatic Synovitis. <i>Frontiers in Pharmacology</i> , 2021 , 12, 672515 | 5.6 | 4 |
| 5 | Activation of the sigma-1 receptor chaperone alleviates symptoms of Wolfram syndrome in preclinical models.. <i>Science Translational Medicine</i> , 2022 , 14, eabh3763 | 17.5 | 3 |

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| 4 | BAP1 forms a trimer with HMGB1 and HDAC1 that modulates gene environment interaction with asbestos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 1 |
| 3 | Methods to Monitor Mitophagy and Mitochondrial Quality: Implications in Cancer, Neurodegeneration, and Cardiovascular Diseases. <i>Methods in Molecular Biology</i> , 2021 , 2310, 113-159 | 1.4 | 1 |
| 2 | Metformin Induces Apoptosis and Inhibits Notch1 in Malignant Pleural Mesothelioma Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 534499 | 5.7 | 1 |
| 1 | ER-mitochondria crosstalk is regulated by NCS1 and is impaired in Wolfram syndrome. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2019 , 92, 3-P-036 | 0 | |