# JosÃ© Antonio EnrÃ-quez

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 155 papers | 17,446 citations | 14655 66 h-index | 14759 127 g-index |
| 170 all docs | 170 docs citations | 170 times ranked | 23703 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Allotopic expression of mitochondrial-encoded genes in mammals: achieved goal, undemonstrated mechanism or impossible task?. Nucleic Acids Research, 2011, 39, 225-234. | 14.5 | 1,296 |
| 2 | Mitochondrial Cristae Shape Determines Respiratory Chain Supercomplexes Assembly and Respiratory Efficiency. Cell, 2013, 155, 160-171. | 28.9 | 955 |
| 3 | Respiratory Active Mitochondrial Supercomplexes. Molecular Cell, 2008, 32, 529-539. | 9.7 | 703 |
| 4 | Supercomplex Assembly Determines Electron Flux in the Mitochondrial Electron Transport Chain. Science, 2013, 340, 1567-1570. | 12.6 | 687 |
| 5 | Mitochondrial Cristae: Where Beauty Meets Functionality. Trends in Biochemical Sciences, 2016, 41, 261-273. | 7.5 | 605 |
| 6 | Mutations of SURF-1 in Leigh Disease Associated with Cytochrome c Oxidase Deficiency. American Journal of Human Genetics, 1998, 63, 1609-1621. | 6.2 | 504 |
| 7 | Human mtDNA Haplogroups Associated with High or Reduced Spermatozoa Motility. American Journal of Human Genetics, 2000, 67, 682-696. | 6.2 | 426 |
| 8 | Respiratory Complex III Is Required to Maintain Complex I in Mammalian Mitochondria. Molecular Cell, 2004, 13, 805-815. | 9.7 | 402 |
| 9 | A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. Cell, 2020, 183, 94-109.e23. | 28.9 | 360 |
| 10 | Replication and Transcription of Mammalian Mitochondrial Dna. Experimental Physiology, 2003, 88, 41-56. | 2.0 | 333 |
| 11 | Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. Nature, 2016, 535, 561-565. | 27.8 | 333 |
| 12 | NDUFA4 Is a Subunit of Complex IV of the Mammalian Electron Transport Chain. Cell Metabolism, 2012, 16, 378-386. | 16.2 | 323 |
| 13 | Differences in reactive oxygen species production explain the phenotypes associated with common mouse mitochondrial DNA variants. Nature Genetics, 2006, 38, 1261-1268. | 21.4 | 301 |
| 14 | Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. Cell Metabolism, 2016, 23, 725-734. | 16.2 | 296 |
| 15 | Induction of the Mitochondrial NDUFA4L2 Protein by HIF-1Î± Decreases Oxygen Consumption by Inhibiting Complex I Activity. Cell Metabolism, 2011, 14, 768-779. | 16.2 | 276 |
| 16 | MtDNA mutation in MERRF syndrome causes defective aminoacylation of tRNALys and premature translation termination. Nature Genetics, 1995, 10, 47-55. | 21.4 | 273 |
| 17 | Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. Nature Immunology, 2016, 17, 1037-1045. | 14.5 | 259 |
| 18 | The function of the respiratory supercomplexes: The plasticity model. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 444-450. | 1.0 | 252 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Priming of dendritic cells by DNA-containing extracellular vesicles from activated T cells through antigen-driven contacts. Nature Communications, 2018, 9, 2658. | 12.8 | 242 |
| 20 | Mitochondrial Respiration Controls Lysosomal Function during Inflammatory T Cell Responses. Cell Metabolism, 2015, 22, 485-498. | 16.2 | 239 |
| 21 | Loss of mitochondrial protease OMA1 alters processing of the GTPase OPA1 and causes obesity and defective thermogenesis in mice. EMBO Journal, 2012, 31, 2117-2133. | 7.8 | 230 |
| 22 | Culture of human mesenchymal stem cells at low oxygen tension improves growth and genetic stability by activating glycolysis. Cell Death and Differentiation, 2012, 19, 743-755. | 11.2 | 230 |
| 23 | The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. Cell Reports, 2016, 15, 197-209. | 6.4 | 215 |
| 24 | ER and Nutrient Stress Promote Assembly of Respiratory Chain Supercomplexes through the PERK-eIF2Î± Axis. Molecular Cell, 2019, 74, 877-890.e6. | 9.7 | 214 |
| 25 | Human mesenchymal stem cell-replicative senescence and oxidative stress are closely linked to aneuploidy. Cell Death and Disease, 2013, 4, e691-e691. | 6.3 | 192 |
| 26 | Defective Extracellular Pyrophosphate Metabolism Promotes Vascular Calcification in a Mouse Model of Hutchinson-Gilford Progeria Syndrome That Is Ameliorated on Pyrophosphate Treatment. Circulation, 2013, 127, 2442-2451. | 1.6 | 188 |
| 27 | ATP-Dependent Lon Protease Controls Tumor Bioenergetics by Reprogramming Mitochondrial Activity. Cell Reports, 2014, 8, 542-556. | 6.4 | 186 |
| 28 | Mitonuclear interactions: evolutionary consequences over multiple biological scales. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130443. | 4.0 | 184 |
| 29 | The Deafness-Associated Mitochondrial DNA Mutation at Position 7445, Which Affects tRNA<sup>Ser(UCN)</sup> Precursor Processing, Has Long-Range Effects on NADH Dehydrogenase Subunit ND6 Gene Expression. Molecular and Cellular Biology, 1998, 18, 5868-5879. | 2.3 | 180 |
| 30 | The Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke-like Episode Syndrome-associated Human Mitochondrial tRNALeu(UUR) Mutation Causes Aminoacylation Deficiency and Concomitant Reduced Association of mRNA with Ribosomes. Journal of Biological Chemistry, 2000, 275, 19198-19209. | 3.4 | 176 |
| 31 | Supramolecular Organization of Respiratory Complexes. Annual Review of Physiology, 2016, 78, 533-561. | 13.1 | 168 |
| 32 | Increased localization of <scp>APP</scp>â€€99 in mitochondriaâ€associated <scp>ER</scp> membranes causes mitochondrial dysfunction in Alzheimer disease. EMBO Journal, 2017, 36, 3356-3371. | 7.8 | 164 |
| 33 | Isolation of mitochondria for biogenetical studies: An update. Mitochondrion, 2010, 10, 253-262. | 3.4 | 158 |
| 34 | Mechanism of super-assembly of respiratory complexes III and IV. Nature, 2016, 539, 579-582. | 27.8 | 157 |
| 35 | HIF-1Î± and PFKFB3 Mediate a Tight Relationship Between Proinflammatory Activation and Anerobic Metabolism in Atherosclerotic Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1463-1471. | 2.4 | 150 |
| 36 | Direct Regulation of Mitochondrial RNA Synthesis by Thyroid Hormone. Molecular and Cellular Biology, 1999, 19, 657-670. | 2.3 | 147 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Isolation of biogenetically competent mitochondria from mammalian tissues and cultured cells. Methods, 2002, 26, 292-297. | 3.8 | 142 |
| 38 | Tissue-specific differences in mitochondrial activity and biogenesis. Mitochondrion, 2011, 11, 207-213. | 3.4 | 139 |
| 39 | Na+ controls hypoxic signalling by the mitochondrial respiratory chain. Nature, 2020, 586, 287-291. | 27.8 | 139 |
| 40 | The Role of the Mitochondrion in Sperm Function: Is There a Place for Oxidative Phosphorylation or Is This a Purely Glycolytic Process?. Current Topics in Developmental Biology, 2007, 77, 3-19. | 2.2 | 134 |
| 41 | Interplay between hepatic mitochondria-associated membranes, lipid metabolism and caveolin-1 in mice. Scientific Reports, 2016, 6, 27351. | 3.3 | 131 |
| 42 | Optic Atrophy 1 Is Epistatic to the Core MICOS Component MIC60 in Mitochondrial Cristae Shape Control. Cell Reports, 2016, 17, 3024-3034. | 6.4 | 127 |
| 43 | Generation of Reactive Oxygen Species by Mitochondria. Antioxidants, 2021, 10, 415. | 5.1 | 121 |
| 44 | Astrocytic mitochondrial ROS modulate brain metabolism and mouse behaviour. Nature Metabolism, 2019, 1, 201-211. | 11.9 | 119 |
| 45 | The cristae modulator Optic atrophy 1 requires mitochondrial ATP synthase oligomers to safeguard mitochondrial function. Nature Communications, 2018, 9, 3399. | 12.8 | 111 |
| 46 | Identification of mitochondrial dysfunction in Hutchinsonâ€“Gilford progeria syndrome through use of stable isotope labeling with amino acids in cell culture. Journal of Proteomics, 2013, 91, 466-477. | 2.4 | 110 |
| 47 | Mechanism of neurodegeneration of neurons with mitochondrial DNA mutations. Brain, 2010, 133, 797-807. | 7.6 | 108 |
| 48 | Cells Lacking Rieske Iron-Sulfur Protein Have a Reactive Oxygen Species-Associated Decrease in Respiratory Complexes I and IV. Molecular and Cellular Biology, 2012, 32, 415-429. | 2.3 | 107 |
| 49 | Revisiting the mouse mitochondrial DNA sequence. Nucleic Acids Research, 2003, 31, 5349-5355. | 14.5 | 101 |
| 50 | ROS-Triggered Phosphorylation of Complex II by Fgr Kinase Regulates Cellular Adaptation to Fuel Use. Cell Metabolism, 2014, 19, 1020-1033. | 16.2 | 101 |
| 51 | Mitochondria in endothelial cells: Sensors and integrators of environmental cues. Redox Biology, 2017, 12, 821-827. | 9.0 | 100 |
| 52 | Differences of sperm motility in mitochondrial DNA haplogroup U sublineages. Gene, 2006, 368, 21-27. | 2.2 | 92 |
| 53 | Dysfunctional Coq9 protein causes predominant encephalomyopathy associated with CoQ deficiency. Human Molecular Genetics, 2013, 22, 1233-1248. | 2.9 | 87 |
| 54 | The complex crosstalk between mitochondria and the nucleus: What goes in between?. International Journal of Biochemistry and Cell Biology, 2015, 63, 10-15. | 2.8 | 86 |

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|---|---|---|---|
| 55 | Very Rare Complementation between Mitochondria Carrying Different Mitochondrial DNA Mutations Points to Intrinsic Genetic Autonomy of the Organelles in Cultured Human Cells. Journal of Biological Chemistry, 2000, 275, 11207-11215. | 3.4 | 85 |
| 56 | Seminal quality correlates with mitochondrial functionality. Clinica Chimica Acta, 2000, 300, 97-105. | 1.1 | 84 |
| 57 | Nuclear transcription factors in mammalian mitochondria. Genome Biology, 2010, 11, 215. | 9.6 | 83 |
| 58 | Familial multiple symmetric lipomatosis associated with the A8344G mutation of mitochondrial DNA. Neurology, 1998, 51, 258-260. | 1.1 | 80 |
| 59 | Mitochondrial DNA Content of Human Spermatozoa1. Biology of Reproduction, 2003, 68, 180-185. | 2.7 | 79 |
| 60 | A Mitochondria-Specific Isoform of FASTK Is Present In Mitochondrial RNA Granules and Regulates Gene Expression and Function. Cell Reports, 2015, 10, 1110-1121. | 6.4 | 77 |
| 61 | Restoration of electron transport without proton pumping in mammalian mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18735-18739. | 7.1 | 75 |
| 62 | ISG15 governs mitochondrial function in macrophages following vaccinia virus infection. PLoS Pathogens, 2017, 13, e1006651. | 4.7 | 75 |
| 63 | An intragenic suppressor in the cytochrome c oxidase I gene of mouse mitochondrial DNA. Human Molecular Genetics, 2003, 12, 329-339. | 2.9 | 71 |
| 64 | Five Entry Points of the Mitochondrially Encoded Subunits in Mammalian Complex I Assembly. Molecular and Cellular Biology, 2010, 30, 3038-3047. | 2.3 | 68 |
| 65 | Coenzyme Q and the Respiratory Chain: Coenzyme Q Pool and Mitochondrial Supercomplexes. Molecular Syndromology, 2014, 5, 119-140. | 0.8 | 68 |
| 66 | The Chromatin Remodeling Complex Chd4/NuRD Controls Striated Muscle Identity and Metabolic Homeostasis. Cell Metabolism, 2016, 23, 881-892. | 16.2 | 68 |
| 67 | Fast synthesis and bioconjugation of <sup>68</sup>Ga coreâ€doped extremely small iron oxide nanoparticles for PET/MR imaging. Contrast Media and Molecular Imaging, 2016, 11, 203-210. | 0.8 | 68 |
| 68 | Functional role of respiratory supercomplexes in mice: SCAF1 relevance and segmentation of the Q <sub>pool</sub>. Science Advances, 2020, 6, eaba7509. | 10.3 | 68 |
| 69 | Adjusting MtDNA Quantification in Whole Blood for Peripheral Blood Platelet and Leukocyte Counts. PLoS ONE, 2016, 11, e0163770. | 2.5 | 68 |
| 70 | Transient activation of mitochondrial translation regulates the expression of the mitochondrial genome during mammalian mitochondrial differentiation. Biochemical Journal, 1996, 316, 183-191. | 3.7 | 67 |
| 71 | Ablation of the stress protease OMA1 protects against heart failure in mice. Science Translational Medicine, 2018, 10, . | 12.4 | 66 |
| 72 | Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy. Cell Metabolism, 2019, 30, 1120-1130.e5. | 16.2 | 66 |

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|---|---|---|---|
| 73 | Role of Mitochondrial Complex IV in Age-Dependent Obesity. Cell Reports, 2016, 16, 2991-3002. | 6.4 | 65 |
| 74 | [17] Analysis of aminoacylation of human mitochondrial tRNAs. Methods in Enzymology, 1996, 264, 183-196. | 1.0 | 63 |
| 75 | The Synthesis of mRNA in Isolated Mitochondria can be Maintained for Several Hours and is Inhibited by High Levels of ATP. FEBS Journal, 1996, 237, 601-610. | 0.2 | 61 |
| 76 | Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. Cardiovascular Research, 2010, 87, 356-365. | 3.8 | 61 |
| 77 | Mechanism of mammalian mitochondrial DNA replication: import of mitochondrial transcription factor A into isolated mitochondria stimulates 7S DNA synthesis. Nucleic Acids Research, 2001, 29, 3657-3663. | 14.5 | 59 |
| 78 | Oxidative Phosphorylation Induces De Novo Expression of the MHC Class I in Tumor Cells through the ERK5 Pathway. Journal of Immunology, 2010, 185, 3498-3503. | 0.8 | 58 |
| 79 | m.6267G>A: a recurrent mutation in the human mitochondrial DNA that reduces cytochrome c oxidase activity and is associated with tumors. Human Mutation, 2006, 27, 575-582. | 2.5 | 56 |
| 80 | MKK6 controls T3-mediated browning of white adipose tissue. Nature Communications, 2017, 8, 856. | 12.8 | 54 |
| 81 | CTCF counter-regulates cardiomyocyte development and maturation programs in the embryonic heart. PLoS Genetics, 2017, 13, e1006985. | 3.5 | 54 |
| 82 | Evolution Meets Disease: Penetrance and Functional Epistasis of Mitochondrial tRNA Mutations. PLoS Genetics, 2011, 7, e1001379. | 3.5 | 51 |
| 83 | Cisplatin-mediated impairment of mitochondrial DNA metabolism inversely correlates with glutathione levels. Biochemical Journal, 2008, 414, 93-102. | 3.7 | 50 |
| 84 | Autonomous Regulation in Mammalian Mitochondrial DNA Transcription. Biological Chemistry, 1999, 380, 737-47. | 2.5 | 49 |
| 85 | MHC-I modulation due to changes in tumor cell metabolism regulates tumor sensitivity to CTL and NK cells. OncoImmunology, 2015, 4, e985924. | 4.6 | 48 |
| 86 | Highly efficient DNA synthesis in isolated mitochondria from rat liver. Nucleic Acids Research, 1994, 22, 1861-1865. | 14.5 | 46 |
| 87 | In Vivo and In Organello Analyses of Mitochondrial Translation. Methods in Cell Biology, 2007, 80, 571-588. | 1.1 | 45 |
| 88 | Activation of Serine One-Carbon Metabolism by Calcineurin Aî²1 Reduces Myocardial Hypertrophy and Improves Ventricular Function. Journal of the American College of Cardiology, 2018, 71, 654-667. | 2.8 | 45 |
| 89 | Mitochondrial DNA mutations affect calcium handling in differentiated neurons. Brain, 2010, 133, 787-796. | 7.6 | 43 |
| 90 | One-Step Fast Synthesis of Nanoparticles for MRI: Coating Chemistry as the Key Variable Determining Positive or Negative Contrast. Langmuir, 2017, 33, 10239-10247. | 3.5 | 43 |

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|---|---|---|---|
| 91 | Scaf1 promotes respiratory supercomplexes and metabolic efficiency in zebrafish. EMBO Reports, 2020, 21, e50287. | 4.5 | 42 |
| 92 | Fgr kinase is required for proinflammatory macrophage activation during diet-induced obesity. Nature Metabolism, 2020, 2, 974-988. | 11.9 | 40 |
| 93 | Regulation and functional role of the electron transport chain supercomplexes. Biochemical Society Transactions, 2021, 49, 2655-2668. | 3.4 | 40 |
| 94 | Mitochondrial gene expression is regulated at multiple levels and differentially in the heart and liver by thyroid hormones. Current Genetics, 2008, 54, 13-22. | 1.7 | 39 |
| 95 | Comprehensive Quantification of the Modified Proteome Reveals Oxidative Heart Damage in Mitochondrial Heteroplasmy. Cell Reports, 2018, 23, 3685-3697.e4. | 6.4 | 39 |
| 96 | Mitochondrial Complex I activity signals antioxidant response through ERK5. Scientific Reports, 2018, 8, 7420. | 3.3 | 38 |
| 97 | In vivo imaging of lung inflammation with neutrophil-specific 68Ga nano-radiotracer. Scientific Reports, 2017, 7, 13242. | 3.3 | 37 |
| 98 | Association between seminal plasma carnitine and sperm mitochondrial enzymatic activities. Journal of Developmental and Physical Disabilities, 2001, 24, 335-340. | 3.6 | 35 |
| 99 | Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2403-2413. | 4.1 | 34 |
| 100 | PKM2 regulates endothelial cell junction dynamics and angiogenesis via ATP production. Scientific Reports, 2019, 9, 15022. | 3.3 | 34 |
| 101 | [6] In Organello RNA synthesis system from mammalian liver and brain. Methods in Enzymology, 1996, 264, 50-57. | 1.0 | 31 |
| 102 | Cell identity and nucleo-mitochondrial genetic context modulate OXPHOS performance and determine somatic heteroplasmy dynamics. Science Advances, 2020, 6, eaba5345. | 10.3 | 31 |
| 103 | Respiratory supercomplexes and the functional segmentation of the CoQ pool. Free Radical Biology and Medicine, 2016, 100, 5-13. | 2.9 | 30 |
| 104 | p38Î±Âblocks brown adipose tissue thermogenesis through p38Î´Âinhibition. PLoS Biology, 2018, 16, e2004455. | 5.6 | 30 |
| 105 | Mind your mouse strain. Nature Metabolism, 2019, 1, 5-7. | 11.9 | 30 |
| 106 | The spatio-temporal organization of mitochondrial F1FO ATP synthase in cristae depends on its activity mode. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148091. | 1.0 | 29 |
| 107 | Evidence for aminoacylation-induced conformational changes in human mitochondrial tRNAs.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 8300-8305. | 7.1 | 28 |
| 108 | A new non-canonical pathway of GÎ±q protein regulating mitochondrial dynamics and bioenergetics. Cellular Signalling, 2014, 26, 1135-1146. | 3.6 | 28 |

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|---|---|---|---|
| 109 | Saturation of the processing of newly synthesized rRNA in isolated brain mitochondria. FEBS Letters, 1991, 280, 32-36. | 2.8 | 26 |
| 110 | Mitochondria from ejaculated human spermatozoa do not synthesize proteins. FEBS Letters, 2003, 553, 205-208. | 2.8 | 26 |
| 111 | A form of mitofusin 2 (Mfn2) lacking the transmembrane domains and the COOH-terminal end stimulates metabolism in muscle and liver cells. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1208-E1221. | 3.5 | 25 |
| 112 | Functional segmentation of CoQ and cyt c pools by respiratory complex superassembly. Free Radical Biology and Medicine, 2021, 167, 232-242. | 2.9 | 25 |
| 113 | Inter-mitochondrial complementation of mtDNA mutations and nuclear context. Nature Genetics, 2002, 30, 360-360. | 21.4 | 23 |
| 114 | Ultrasmall Manganese Ferrites for In Vivo Catalase Mimicking Activity and Multimodal Bioimaging. Small, 2022, 18, e2106570. | 10.0 | 23 |
| 115 | An EMMPRIN/Î³-catenin/Nm23 complex drives ATP production and actomyosin contractility at endothelial junctions. Journal of Cell Science, 2014, 127, 3768-81. | 2.0 | 22 |
| 116 | Not all <scp>mitochondrial DNAs</scp> are made equal and the nucleus knows it. IUBMB Life, 2021, 73, 511-529. | 3.4 | 20 |
| 117 | Rat Brain Synaptosomes Prepared by Phase Partition. Journal of Neurochemistry, 1990, 55, 1841-1849. | 3.9 | 19 |
| 118 | Mutations in the ND2 Subunit of Mitochondrial Complex I Are Sufficient to Confer Increased Tumorigenic and Metastatic Potential to Cancer Cells. Cancers, 2019, 11, 1027. | 3.7 | 18 |
| 119 | Micro RNA â€661 modulates redox and metabolic homeostasis in colon cancer. Molecular Oncology, 2017, 11, 1768-1787. | 4.6 | 17 |
| 120 | Increased Learning and Brain Long-Term Potentiation in Aged Mice Lacking DNA Polymerase Î¼. PLoS ONE, 2013, 8, e53243. | 2.5 | 17 |
| 121 | Specific increase of a mitochondrial RNA transcript in chronic ethanol-fed rats. FEBS Letters, 1992, 304, 285-288. | 2.8 | 14 |
| 122 | A genome-wide shRNA screen for new OxPhos related genes. Mitochondrion, 2011, 11, 467-475. | 3.4 | 14 |
| 123 | Bmi1 limits dilated cardiomyopathy and heart failure by inhibiting cardiac senescence. Nature Communications, 2015, 6, 6473. | 12.8 | 14 |
| 124 | Transcriptome and proteome mapping in the sheep atria reveal molecular featurets of atrial fibrillation progression. Cardiovascular Research, 2021, 117, 1760-1775. | 3.8 | 14 |
| 125 | Protein corona and phospholipase activity drive selective accumulation of nanomicelles in atherosclerotic plaques. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 643-650. | 3.3 | 12 |
| 126 | The Value of Mouse Models of Rare Diseases: A Spanish Experience. Frontiers in Genetics, 2020, 11, 583932. | 2.3 | 12 |

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|---|---|---|---|
| 127 | Building a Beautiful Beast: Mammalian Respiratory Complex I. Cell Metabolism, 2017, 25, 4-5. | 16.2 | 11 |
| 128 | Functional Genetic Analysis of the Mammalian Mitochondrial DNA Encoded Peptides. Methods in Molecular Biology, 2008, 457, 379-390. | 0.9 | 11 |
| 129 | Isolation of Mitochondria from Mammalian Tissues and Cultured Cells. , 2006, , 69-77. | | 10 |
| 130 | The portrait of liver cancer is shaped by mitochondrial genetics. Cell Reports, 2022, 38, 110254. | 6.4 | 10 |
| 131 | A simple procedure for recovering the denaturing effect of methylmercury in agarose gel electrophoresis. BioTechniques, 1992, 12, 480-2. | 1.8 | 10 |
| 132 | Heteroplasmy of Wild-Type Mitochondrial DNA Variants in Mice Causes Metabolic Heart Disease With Pulmonary Hypertension and Frailty. Circulation, 2022, 145, 1084-1101. | 1.6 | 10 |
| 133 | RNA synthesis in isolated mitochondria from brain cortex, cerebellum and stem: Evidence of different transcriptional rates. International Journal of Biochemistry & Cell Biology, 1993, 25, 1951-1956. | 0.5 | 9 |
| 134 | Length variation in the mouse mitochondrial <scp>tRNA<sup>A</sup></scp><sup>rg</sup> DHU loop size promotes oxidative phosphorylation functional differences. FEBS Journal, 2013, 280, 4983-4998. | 4.7 | 8 |
| 135 | Analyzing electron transport chain supercomplexes. Methods in Cell Biology, 2020, 155, 181-197. | 1.1 | 8 |
| 136 | p38Î³ and p38Î´ regulate postnatal cardiac metabolism through glycogen synthase 1. PLoS Biology, 2021, 19, e3001447. | 5.6 | 8 |
| 137 | The thankless task of playing genetics with mammalian mitochondrial DNA: a 30-year review. Mitochondrion, 2002, 2, 3-25. | 3.4 | 7 |
| 138 | Research of single mitochondrial nucleotide substitutions in male infertility should consider human mitochondrial haplogroups. Journal of Developmental and Physical Disabilities, 2002, 25, 372-373. | 3.6 | 6 |
| 139 | Enhanced Immunogenicity of Mitochondrial-Localized Proteins in Cancer Cells. Cancer Immunology Research, 2020, 8, 685-697. | 3.4 | 6 |
| 140 | Mitochondrial DNA impact on joint damaged process in a conplastic mouse model after being surgically induced with osteoarthritis. Scientific Reports, 2021, 11, 9112. | 3.3 | 6 |
| 141 | Digitonin concentration is determinant for mitochondrial supercomplexes analysis by BlueNative page. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148332. | 1.0 | 5 |
| 142 | Implications of mitochondrial DNA mutations in human induced pluripotent stem cells. Nature Reviews Genetics, 2022, 23, 69-70. | 16.3 | 5 |
| 143 | Sodium in mitochondrial redox signaling. Antioxidants and Redox Signaling, 2022, , . | 5.4 | 5 |
| 144 | The ins and outs of the flavin mononucleotide cofactor of respiratory complex I. IUBMB Life, 2022, 74, 629-644. | 3.4 | 5 |

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|---|---|---|---|
| 145 | Use of resolving density gradient created with dextran and poly(ethylene glycol) to purify brain synaptosomes. Journal of Proteomics, 1993, 27, 1-10. | 2.4 | 3 |
| 146 | Variant pathogenic prediction by locus variability: the importance of the current picture of evolution. European Journal of Human Genetics, 2022, 30, 555-559. | 2.8 | 3 |
| 147 | mtDNA variability determines spontaneous joint aging damage in a conplastic mouse model. Aging, 2022, 14, 5966-5983. | 3.1 | 3 |
| 148 | Hypothesis Driven versus Hypothesis-free: Filling the Gaps in CoQ Biosynthesis. Cell Metabolism, 2016, 24, 525-526. | 16.2 | 2 |
| 149 | FRI0522â€…MITOCHONDRIAL BACKGROUND IMPACT ON THE JOINT DEGENERATION PROCESS DURING AGING AND FORCED EXERCISE: A CONPLASTIC MOUSE MODEL. , 2019, , . | | 2 |
| 150 | Synaptosomal development in rats from phenylketonuric mothers. Journal of Inherited Metabolic Disease, 1996, 19, 385-386. | 3.6 | 0 |
| 151 | Reply to â€œReactive oxygen species and the segregation of mtDNA sequence variantsâ€• Nature Genetics, 2007, 39, 572-572. | 21.4 | 0 |
| 152 | Mitochondrial DNA-related disorders: emphasis on mechanisms and heterogeneity. Turkish Journal of Biology, 2015, 39, 840-855. | 0.8 | 0 |
| 153 | Correction: Retraction: Bmi1 limits dilated cardiomyopathy and heart failure by inhibiting cardiac senescence. Nature Communications, 2017, 8, 14006. | 12.8 | 0 |
| 154 | The Portrait of Liver Cancer is Shaped by Mitochondrial Genetics. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 155 | SAT0561â€…Mitochondrial background influences the joint evolution in a conplastic mouse model of ageing. , 2018, , . | | 0 |