# Cecilia Zazueta

List of Publications by Year
in descending order

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|---|---|---|---|
| 110 papers | 3,592 citations | 147566 31 h-index | 161609 54 g-index |
| 111 all docs | 111 docs citations | 111 times ranked | 5396 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Redox activation of Nrf2 & NF-Î²B: A double end sword?. Cellular Signalling, 2013, 25, 2548-2557. | 1.7 | 209 |
| 2 | Ellagic acid: Pharmacological activities and molecular mechanisms involved in liver protection. Pharmacological Research, 2015, 97, 84-103. | 3.1 | 198 |
| 3 | Ru360 , a specific mitochondrial calcium uptake inhibitor, improves cardiac post-ischaemic functional recovery in rats in vivo. British Journal of Pharmacology, 2006, 149, 829-837. | 2.7 | 157 |
| 4 | Curcumin prevents Cr(VI)-induced renal oxidant damage by a mitochondrial pathway. Free Radical Biology and Medicine, 2011, 51, 1543-1557. | 1.3 | 142 |
| 5 | Nrf2: Molecular and epigenetic regulation during aging. Ageing Research Reviews, 2018, 47, 31-40. | 5.0 | 127 |
| 6 | Curcumin Induces Nrf2 Nuclear Translocation and Prevents Glomerular Hypertension, Hyperfiltration, Oxidant Stress, and the Decrease in Antioxidant Enzymes in 5/6 Nephrectomized Rats. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-14. | 1.9 | 120 |
| 7 | Titanium dioxide nanoparticles impair lung mitochondrial function. Toxicology Letters, 2011, 202, 111-119. | 0.4 | 106 |
| 8 | Protective effect of sulforaphane pretreatment against cisplatin-induced liver and mitochondrial oxidant damage in rats. Toxicology, 2011, 286, 20-27. | 2.0 | 104 |
| 9 | Mitochondria as a Target in the Therapeutic Properties of Curcumin. Archiv Der Pharmazie, 2014, 347, 873-884. | 2.1 | 99 |
| 10 | Oxidative Stress and Inflammation in Cardiovascular Disease. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-2. | 1.9 | 95 |
| 11 | Inhibition of the mitochondrial calcium uniporter by the oxo-bridged dinuclear ruthenium amine complex (Ru360) prevents from irreversible injury in postischemic rat heart. FEBS Journal, 2005, 272, 3477-3488. | 2.2 | 82 |
| 12 | Curcumin maintains cardiac and mitochondrial function in chronic kidney disease. Free Radical Biology and Medicine, 2013, 61, 119-129. | 1.3 | 80 |
| 13 | Renal Oxidative Stress Induced by Long-Term Hyperuricemia Alters Mitochondrial Function and Maintains Systemic Hypertension. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-8. | 1.9 | 80 |
| 14 | Curcumin Protects from Cardiac Reperfusion Damage by Attenuation of Oxidant Stress and Mitochondrial Dysfunction. Cardiovascular Toxicology, 2011, 11, 357-364. | 1.1 | 78 |
| 15 | Nrf2 signaling and redox homeostasis in the aging heart: A potential target to prevent cardiovascular diseases?. Ageing Research Reviews, 2016, 26, 81-95. | 5.0 | 69 |
| 16 | Mitochondrial permeability transition relevance for apoptotic triggering in the post-ischemic heart. International Journal of Biochemistry and Cell Biology, 2007, 39, 787-798. | 1.2 | 66 |
| 17 | Curcumin Pretreatment Prevents Potassium Dichromate-Induced Hepatotoxicity, Oxidative Stress, Decreased Respiratory Complex I Activity, and Membrane Permeability Transition Pore Opening. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-19. | 0.5 | 60 |
| 18 | Inhibitory properties of ruthenium amine complexes on mitochondrial calcium uptake. Journal of Bioenergetics and Biomembranes, 1999, 31, 551-557. | 1.0 | 59 |

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|---|---|---|---|
| 19 | Protective effect of sulforaphane against cisplatin-induced mitochondrial alterations and impairment in the activity of NAD(P)H: Quinone oxidoreductase 1 and Î³ glutamyl cysteine ligase: Studies in mitochondria isolated from rat kidney and in LLC-PK1 cells. Toxicology Letters, 2010, 199, 80-92. | 0.4 | 52 |
| 20 | Curcumin prevents maleate-induced nephrotoxicity: Relation to hemodynamic alterations, oxidative stress, mitochondrial oxygen consumption and activity of respiratory complex I. Free Radical Research, 2014, 48, 1342-1354. | 1.5 | 47 |
| 21 | Bax distribution into mitochondrial detergentâ€resistant microdomains is related to ceramide and cholesterol content in postischemic hearts. FEBS Journal, 2009, 276, 5579-5588. | 2.2 | 46 |
| 22 | Cardioprotective kinase signaling to subsarcolemmal and interfibrillar mitochondria is mediated by caveolar structures. Basic Research in Cardiology, 2017, 112, 15. | 2.5 | 44 |
| 23 | Sulforaphane protects from myocardial ischemia-reperfusion damage through the balanced activation of Nrf2/AhR. Free Radical Biology and Medicine, 2019, 143, 331-340. | 1.3 | 43 |
| 24 | ER membranes associated with mitochondria: Possible therapeutic targets in heart-associated diseases. Pharmacological Research, 2020, 156, 104758. | 3.1 | 43 |
| 25 | Bax induces cytochrome c release by multiple mechanisms in mitochondria from MCF7 cells. Journal of Bioenergetics and Biomembranes, 2013, 45, 441-448. | 1.0 | 42 |
| 26 | Protective Effect of Î±-Mangostin on Cardiac Reperfusion Damage by Attenuation of Oxidative Stress. Journal of Medicinal Food, 2011, 14, 1370-1374. | 0.8 | 38 |
| 27 | Nrf2-regulated antioxidant response is activated by protein kinase C in postconditioned rat hearts. Free Radical Biology and Medicine, 2014, 74, 145-156. | 1.3 | 34 |
| 28 | Curcumin Attenuates Gentamicin-Induced Kidney Mitochondrial Alterations: Possible Role of a Mitochondrial Biogenesis Mechanism. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-16. | 0.5 | 34 |
| 29 | Reduction of no-reflow and reperfusion injury with the synthetic 17Î²-aminoestrogen compound Prolame is associated with PI3K/Akt/eNOS signaling cascade. Basic Research in Cardiology, 2015, 110, 1. | 2.5 | 33 |
| 30 | Cardioprotection by Curcumin Post-Treatment in Rats with Established Chronic Kidney Disease. Cardiovascular Drugs and Therapy, 2015, 29, 111-120. | 1.3 | 32 |
| 31 | Hypothyroidism renders liver mitochondria resistant to the opening of membrane permeability transition pore. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1998, 1407, 243-248. | 1.8 | 31 |
| 32 | Possible involvement of the adenine nucleotide translocase in the activation of the permeability transition pore induced by cadmium. International Journal of Biochemistry and Cell Biology, 2000, 32, 1093-1101. | 1.2 | 31 |
| 33 | C-phycocyanin prevents cisplatin-induced mitochondrial dysfunction and oxidative stress. Molecular and Cellular Biochemistry, 2015, 406, 183-197. | 1.4 | 31 |
| 34 | Effects of Î±-mangostin on mitochondrial energetic metabolism. Mitochondrion, 2010, 10, 151-157. | 1.6 | 30 |
| 35 | Intramitochondrial K+ as activator of carâ˜yatractyloside-induced Ca2+ release. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1070, 461-466. | 1.4 | 29 |
| 36 | Advances in the purification of the mitochondrial Ca2+ uniporter using the labeled inhibitor 103Ru360. Journal of Bioenergetics and Biomembranes, 1998, 30, 489-498. | 1.0 | 28 |

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|---|---|---|---|
| 37 | Relationship between oxidative stress and mitochondrial function in the post-conditioned heart. Journal of Bioenergetics and Biomembranes, 2008, 40, 599-606. | 1.0 | 28 |
| 38 | Cytidineâ€5'â€Diphosphocholine Protects the Liver From Ischemia/Reperfusion Injury Preserving Mitochondrial Function and Reducing Oxidative Stress. Liver Transplantation, 2018, 24, 1070-1083. | 1.3 | 27 |
| 39 | Protective behavior of captopril on Hg(++)-induced toxicity on kidney mitochondria. In vivo and in vitro experiments. Journal of Pharmacology and Experimental Therapeutics, 1991, 256, 385-90. | 1.3 | 27 |
| 40 | Postconditioning Protects Against Reperfusion Injury in Hypertensive Dilated Cardiomyopathy by Activating MEK/ERK1/2 Signaling. Journal of Cardiac Failure, 2013, 19, 135-146. | 0.7 | 26 |
| 41 | Cardiac responses to <scp>Î²</scp>â€adrenoceptor stimulation is partly dependent on mitochondrial calcium uniporter activity. British Journal of Pharmacology, 2014, 171, 4207-4221. | 2.7 | 25 |
| 42 | Characterization by Hg2+ of two different pathways for mitochondrial Ca2+ release. Biochimica Et Biophysica Acta - Biomembranes, 1989, 986, 27-32. | 1.4 | 24 |
| 43 | Mitochondrial permeability transition as induced by cross-linking of the adenine nucleotide translocase. International Journal of Biochemistry and Cell Biology, 1998, 30, 517-527. | 1.2 | 24 |
| 44 | Molecular Template for a Voltage Sensor in a Novel K+ Channel. I. Identification and Functional Characterization of KvLm, a Voltage-gated K+ Channel from Listeria monocytogenes. Journal of General Physiology, 2006, 128, 283-292. | 0.9 | 24 |
| 45 | Changes in specific lipids regulate BAXâ€induced mitochondrial permeability transition. FEBS Journal, 2007, 274, 6500-6510. | 2.2 | 24 |
| 46 | PHO-ERK1/2 interaction with mitochondria regulates the permeability transition pore in cardioprotective signaling. Life Sciences, 2014, 108, 13-21. | 2.0 | 23 |
| 47 | Tert-buthylhydroquinone pre-conditioning exerts dual effects in old female rats exposed to 3-nitropropionic acid. Redox Biology, 2017, 12, 610-624. | 3.9 | 23 |
| 48 | 3-NP-induced Huntington's-like disease impairs Nrf2 activation without loss of cardiac function in aged rats. Experimental Gerontology, 2017, 96, 89-98. | 1.2 | 23 |
| 49 | Post-conditioning Preserves Glycolytic ATP During Early Reperfusion: A survival Mechanism for the Reperfused Heart. Cellular Physiology and Biochemistry, 2008, 22, 635-644. | 1.1 | 22 |
| 50 | Triphenyltin as inductor of mitochondrial membrane permeability transition. Journal of Bioenergetics and Biomembranes, 1994, 26, 457-462. | 1.0 | 20 |
| 51 | Inactivation of mitochondrial permeability transition pore by octylguanidine and octylamine. Journal of Bioenergetics and Biomembranes, 2000, 32, 193-198. | 1.0 | 20 |
| 52 | Is digitalis compound-induced cardiotoxicity, mediated through guinea-pig cardiomyocytes apoptosis?. European Journal of Pharmacology, 2007, 566, 34-42. | 1.7 | 20 |
| 53 | Mitochondrial dysfunction in metabolic and cardiovascular diseases associated with cardiolipin remodeling. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165744. | 1.8 | 20 |
| 54 | Agaric acid induces mitochondrial permeability transition through its interaction with the adenine nucleotide translocase. Its dependence on membrane fluidity. Mitochondrion, 2005, 5, 272-281. | 1.6 | 19 |

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|---|---|---|---|
| 55 | Targeting Mitochondria for Cardiac Protection. Current Drug Targets, 2013, 14, 586-600. | 1.0 | 19 |
| 56 | Extensive Ca2+ release from energized mitochondria induced by disulfiram. Journal of Bioenergetics and Biomembranes, 1989, 21, 335-345. | 1.0 | 18 |
| 57 | Myocardial protective effect of octylguanidine against the damage induced by ischemia reperfusion in rat heart. Molecular and Cellular Biochemistry, 2005, 269, 19-26. | 1.4 | 18 |
| 58 | New insights of KrÃ¼ppel-like transcription factors in adipogenesis and the role of their regulatory neighbors. Life Sciences, 2021, 265, 118763. | 2.0 | 18 |
| 59 | Carboxyatractyloside increases the effect of oleate on mitochondrial permeability transition. FEBS Letters, 1999, 445, 189-191. | 1.3 | 17 |
| 60 | Inhibition of the nitric oxide/cyclic guanosine monophosphate pathway limited the cardioprotective effect of post-conditioning in hearts with apical myocardial infarction. European Journal of Pharmacology, 2015, 765, 472-481. | 1.7 | 17 |
| 61 | Mitochondrial Quality Control in Cardiac-Conditioning Strategies against Ischemia-Reperfusion Injury. Life, 2021, 11, 1123. | 1.1 | 17 |
| 62 | On the mechanism by which 6-ketocholestanol protects mitochondria against uncoupling-induced Ca2+efflux. FEBS Letters, 1996, 379, 305-308. | 1.3 | 16 |
| 63 | Hypothyroidism provides resistance to kidney mitochondria against the injury induced by renal ischemia-reperfusion. Life Sciences, 2007, 80, 1252-1258. | 2.0 | 16 |
| 64 | (â˜)â€Epicatechin induces physiological cardiac growth by activation of the PI3K/Akt pathway in mice. Molecular Nutrition and Food Research, 2017, 61, 1600343. | 1.5 | 16 |
| 65 | Altered proximal tubule fatty acid utilization, mitophagy, fission and supercomplexes arrangement in experimental Fanconi syndrome are ameliorated by sulforaphane-induced mitochondrial biogenesis. Free Radical Biology and Medicine, 2020, 153, 54-70. | 1.3 | 16 |
| 66 | On the protection by inorganic phosphate of calcium-induced membrane permeability transition. Journal of Bioenergetics and Biomembranes, 1997, 29, 571-577. | 1.0 | 15 |
| 67 | Role of sphingomyelinase in mitochondrial ceramide accumulation during reperfusion. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1955-1963. | 1.8 | 15 |
| 68 | The relevance of the supramolecular arrangements of the respiratory chain complexes in human diseases and aging. Mitochondrion, 2019, 47, 266-272. | 1.6 | 15 |
| 69 | Modulation of matrix Ca2+ content by the ADP/ATP carrier in brown adipose tissue mitochondria. Influence of membrane lipid composition. Journal of Bioenergetics and Biomembranes, 1996, 28, 69-76. | 1.0 | 14 |
| 70 | Copper sensitizes the mitochondrial permeability transition to carboxytractyloside and oleate. Molecular and Cellular Biochemistry, 2000, 209, 119-123. | 1.4 | 14 |
| 71 | Protective behavior of tamoxifen against Hg2+-induced toxicity on kidney mitochondria: In vitro and in vivo experiments. Journal of Steroid Biochemistry and Molecular Biology, 2011, 127, 345-350. | 1.2 | 14 |
| 72 | Curcumin Attenuates Cr(VI)â€Induced Ascites and Changes in the Activity of Aconitase and F<sub>1</sub>F<sub>0</sub> ATPase and the ATP Content in Rat Liver Mitochondria. Journal of Biochemical and Molecular Toxicology, 2014, 28, 522-527. | 1.4 | 14 |

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|---|---|---|---|
| 73 | Titration of cardiolipin by either 10-N-nonyl acridine orange or acridine orange sensitizes the adenine nucleotide carrier to permeability transition. Journal of Bioenergetics and Biomembranes, 2008, 40, 77-84. | 1.0 | 13 |
| 74 | Cyclosporin a is unable to inhibit carboxyatractyloside-induced permeability transition in aged mitochondria. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 374-381. | 1.3 | 13 |
| 75 | Allopurinol Prevents the Lipogenic Response Induced by an Acute Oral Fructose Challenge in Short-Term Fructose Fed Rats. Biomolecules, 2019, 9, 601. | 1.8 | 13 |
| 76 | Cardiolipin Regulates the Activity of the Reconstituted Mitochondrial Calcium Uniporter by Modifying the Structure of the Liposome Bilayer. Journal of Membrane Biology, 2003, 191, 113-122. | 1.0 | 12 |
| 77 | Protective action of tamoxifen on carboxyatractyloside-induced mitochondrial permeability transition. Life Sciences, 2011, 88, 681-687. | 2.0 | 12 |
| 78 | Cardioprotective strategies preserve the stability of respiratory chain supercomplexes and reduce oxidative stress in reperfused ischemic hearts. Free Radical Biology and Medicine, 2018, 129, 407-417. | 1.3 | 12 |
| 79 | Calcium transport sensitive to ruthenium red in cytochrome oxidase vesicles reconstituted with mitochondrial proteins. Journal of Bioenergetics and Biomembranes, 1991, 23, 889-902. | 1.0 | 11 |
| 80 | Characterization of Ca2+ transport in Euglena gracilis mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1186, 107-116. | 0.5 | 10 |
| 81 | A CRAC-like motif in BAX sequence: Relationship with protein insertion and pore activity in liposomes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1888-1895. | 1.4 | 10 |
| 82 | Attenuation of oxidant damage in the postconditioned heart involves nonâ€enzymatic response and partial catalytic protection. Experimental Physiology, 2012, 97, 1119-1130. | 0.9 | 10 |
| 83 | Implications of Oxidative and Nitrosative Post-Translational Modifications in Therapeutic Strategies against Reperfusion Damage. Antioxidants, 2021, 10, 749. | 2.2 | 10 |
| 84 | Identification of a 20-kDa protein with calcium uptake transport activity. Reconstitution in a membrane model. Journal of Bioenergetics and Biomembranes, 1994, 26, 555-562. | 1.0 | 9 |
| 85 | Modulation by substrates of the protective effect of cyclosporin A on mitochondrial damage. Life Sciences, 2002, 70, 2413-2420. | 2.0 | 9 |
| 86 | Redox signaling in ischemic postconditioning protection involves PKCÎµ and Erk1/2 pathways and converges indirectly in Nrf2 activation. Cellular Signalling, 2019, 64, 109417. | 1.7 | 9 |
| 87 | Alteration of mitochondrial supercomplexes assembly in metabolic diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165935. | 1.8 | 9 |
| 88 | S-Allylcysteine Protects Against Excitotoxic Damage in Rat Cortical Slices Via Reduction of Oxidative Damage, Activation of Nrf2/ARE Binding, and BDNF Preservation. Neurotoxicity Research, 2020, 38, 929-940. | 1.3 | 9 |
| 89 | Genetic Variations on Redox Control in Cardiometabolic Diseases: The Role of Nrf2. Antioxidants, 2022, 11, 507. | 2.2 | 9 |
| 90 | Molecular Template for a Voltage Sensor in a Novel K+ Channel. II. Conservation of a Eukaryotic Sensor Fold in a Prokaryotic K+ Channel. Journal of General Physiology, 2006, 128, 293-300. | 0.9 | 8 |

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| 91 | Induction of Mitochondrial Permeability Transition by the DNA-intercalating Cationic Dye Ethidium Bromide. Journal of Biochemistry, 2009, 146, 887-894. | 0.9 | 8 |
| 92 | Thyroid hormone may induce changes in the concentration of the mitochondrial calcium uniporter. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 135, 177-182. | 0.7 | 7 |
| 93 | Pharmacological Strategies to Contend Against Myocardial Reperfusion Damage: Diverse Chemicals for Multiple Targets. Current Medicinal Chemistry, 2010, 17, 2261-2273. | 1.2 | 7 |
| 94 | Induction of mitochondrial Ca2+ uptake by mersalyl. International Journal of Biochemistry & Cell Biology, 1989, 21, 1241-1244. | 0.8 | 6 |
| 95 | The composition of the incubation medium influences the sensitivity of mitochondrial permeability transition to cyclosporin A. Journal of Bioenergetics and Biomembranes, 2003, 35, 149-156. | 1.0 | 6 |
| 96 | On the properties of calcium-induced permeability transition in neonatal heart mitochondria. Journal of Bioenergetics and Biomembranes, 2011, 43, 757-764. | 1.0 | 6 |
| 97 | Ionophoretic-like properties of ketorolac for calcium. Journal of Pharmacology and Experimental Therapeutics, 1993, 267, 1134-9. | 1.3 | 6 |
| 98 | Dicyclohexylcarbodiimide as inducer of mitochondrial Ca2+ release. Journal of Bioenergetics and Biomembranes, 1990, 22, 679-689. | 1.0 | 5 |
| 99 | Reduced capacity of Ca2+ retention in liver as compared to kidney mitochondria. ADP requirement. Journal of Bioenergetics and Biomembranes, 2010, 42, 381-386. | 1.0 | 5 |
| 100 | Leptin Modifies the Rat Heart Performance Associated with Mitochondrial Dysfunction Independently of Its Prohypertrophic Effects. International Journal of Endocrinology, 2018, 2018, 1-10. | 0.6 | 5 |
| 101 | Unilateral Ureteral Obstruction for 28 Days in Rats Is Not Associated with Changes in Cardiac Function or Alterations in Mitochondrial Function. Biology, 2021, 10, 671. | 1.3 | 5 |
| 102 | Cardioprotective effects of Prolame and SNAP are related with nitric oxide production and with diminution of caspases and calpain-1 activities in reperfused rat hearts. PeerJ, 2019, 7, e7348. | 0.9 | 5 |
| 103 | On the role of ADP to increase the inhibitory effect of cyclosporin on mitochondrial membrane permeability transition. IUBMB Life, 1994, 33, 385-92. | 0.1 | 5 |
| 104 | Modulation of matrix Ca2+ content by the ADP/ATP carrier in brown adipose tissue mitochondria. Influence of membrane lipid composition. Journal of Bioenergetics and Biomembranes, 1996, 28, 69-76. | 1.0 | 5 |
| 105 | Mitochondrial glycosidic residues contribute to the interaction between ruthenium amine complexes and the calcium uniporter. Molecular and Cellular Biochemistry, 2005, 272, 55-62. | 1.4 | 4 |
| 106 | Different Subunit Location of the Inhibition and Transport Sites in the Mitochondrial Calcium Uniporter. Journal of Bioenergetics and Biomembranes, 2004, 36, 439-445. | 1.0 | 3 |
| 107 | Cyclosporin A Inhibits UV-Radiation-Induced Membrane Damage but is Unable to Inhibit Carboxyatractyloside-Induced Permeability Transition. Radiation Research, 2009, 172, 575-583. | 0.7 | 3 |
| 108 | Protective role of chlorpromazine on lead-induced damage to heart mitochondria. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1991, 99, 379-381. | 0.2 | 2 |

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|---|---|---|---|
| 109 | Fluorescamine-induced membrane permeability in mitochondria. International Journal of Biochemistry & Cell Biology, 1992, 24, 1779-1784. | 0.8 | 2 |
| 110 | Octylguanidine ameliorates the damaging effect of mercury on renal functions. Journal of Biochemistry, 2011, 149, 211-217. | 0.9 | 1 |