

Marco T Nunez

List of Publications by Year in descending order

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102
papers

5,043
citations

94381

37
h-index

98753

67
g-index

104
all docs

104
docs citations

104
times ranked

6432
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Iron and copper metabolism. <i>Molecular Aspects of Medicine</i> , 2005, 26, 313-327. | 2.7 | 404 |
| 2 | Divalent metal transporter 1 (DMT1) contributes to neurodegeneration in animal models of Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18578-18583. | 3.3 | 354 |
| 3 | Inflammation alters the expression of <sc>DMT</sc>1, <sc>FPN</sc>1 and hepcidin, and it causes iron accumulation in central nervous system cells. <i>Journal of Neurochemistry</i> , 2013, 126, 541-549. | 2.1 | 288 |
| 4 | DMT1, a physiologically relevant apical Cu ¹⁺ transporter of intestinal cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C1525-C1530. | 2.1 | 220 |
| 5 | The interplay between iron accumulation, mitochondrial dysfunction, and inflammation during the execution step of neurodegenerative disorders. <i>Frontiers in Pharmacology</i> , 2014, 5, 38. | 1.6 | 186 |
| 6 | Iron toxicity in neurodegeneration. <i>BioMetals</i> , 2012, 25, 761-776. | 1.8 | 155 |
| 7 | Hepcidin inhibits apical iron uptake in intestinal cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G192-G198. | 1.6 | 137 |
| 8 | Mitochondrial iron homeostasis and its dysfunctions in neurodegenerative disorders. <i>Mitochondrion</i> , 2015, 21, 92-105. | 1.6 | 128 |
| 9 | Structure and function of amyloid in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2004, 74, 323-349. | 2.8 | 126 |
| 10 | Iron Mediates N-Methyl-d-aspartate Receptor-dependent Stimulation of Calcium-induced Pathways and Hippocampal Synaptic Plasticity. <i>Journal of Biological Chemistry</i> , 2011, 286, 13382-13392. | 1.6 | 121 |
| 11 | Caco-2 Intestinal Epithelial Cells Absorb Soybean Ferritin by $\frac{1}{2}$ (AP2)-Dependent Endocytosis. <i>Journal of Nutrition</i> , 2008, 138, 659-666. | 1.3 | 110 |
| 12 | Iron-induced oxidative stress modify tau phosphorylation patterns in hippocampal cell cultures. <i>BioMetals</i> , 2003, 16, 215-223. | 1.8 | 107 |
| 13 | Inhibition of iron and copper uptake by iron, copper and zinc. <i>Biological Research</i> , 2006, 39, 95-102. | 1.5 | 105 |
| 14 | New Perspectives in Iron Chelation Therapy for the Treatment of Neurodegenerative Diseases. <i>Pharmaceuticals</i> , 2018, 11, 109. | 1.7 | 101 |
| 15 | Absorption of Iron from Ferritin Is Independent of Heme Iron and Ferrous Salts in Women and Rat Intestinal Segments. <i>Journal of Nutrition</i> , 2012, 142, 478-483. | 1.3 | 97 |
| 16 | Oxidative stress promotes τ , dephosphorylation in neuronal cells: the roles of cdk5 and PP1. <i>Free Radical Biology and Medicine</i> , 2004, 36, 1393-1402. | 1.3 | 79 |
| 17 | A Role for Reactive Oxygen/Nitrogen Species and Iron on Neuronal Synaptic Plasticity. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 245-255. | 2.5 | 78 |
| 18 | Coumarin-Based Fluorescent Probes for Dual Recognition of Copper(II) and Iron(III) Ions and Their Application in Bio-Imaging. <i>Sensors</i> , 2014, 14, 1358-1371. | 2.1 | 76 |

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|----|---|-----|-----------|
| 19 | Calcium, iron and neuronal function. IUBMB Life, 2007, 59, 280-285. | 1.5 | 74 |
| 20 | The dopamine metabolite aminochrome inhibits mitochondrial complex I and modifies the expression of iron transporters DMT1 and FPN1. BioMetals, 2012, 25, 795-803. | 1.8 | 74 |
| 21 | Abnormal iron metabolism and oxidative stress in mice expressing a mutant form of the ferritin light polypeptide gene. Journal of Neurochemistry, 2009, 109, 1067-1078. | 2.1 | 66 |
| 22 | Iron homeostasis in neuronal cells: a role for IREG1. BMC Neuroscience, 2005, 6, 3. | 0.8 | 60 |
| 23 | Effect of mitochondrial complex I inhibition on Fe ²⁺ /S cluster protein activity. Biochemical and Biophysical Research Communications, 2011, 409, 241-246. | 1.0 | 60 |
| 24 | Dissecting the role of redox signaling in neuronal development. Journal of Neurochemistry, 2016, 137, 506-517. | 2.1 | 59 |
| 25 | Effect of iron on the activation of the MAPK/ERK pathway in PC12 neuroblastoma cells. Biological Research, 2006, 39, 189-90. | 1.5 | 58 |
| 26 | Design and synthesis of a new coumarin-based "turn-on" fluorescent probe selective for Cu ²⁺ . Tetrahedron Letters, 2012, 53, 5280-5283. | 0.7 | 50 |
| 27 | Hepcidin attenuates amyloid beta-induced inflammatory and pro-oxidant responses in astrocytes and microglia. Journal of Neurochemistry, 2017, 142, 140-152. | 2.1 | 49 |
| 28 | Inflaming the Brain with Iron. Antioxidants, 2021, 10, 61. | 2.2 | 49 |
| 29 | Progressive iron accumulation induces a biphasic change in the glutathione content of neuroblastoma cells. Free Radical Biology and Medicine, 2004, 37, 953-960. | 1.3 | 48 |
| 30 | Parkinson's Disease: The Mitochondria-Iron Link. Parkinson's Disease, 2016, 2016, 1-21. | 0.6 | 48 |
| 31 | An oxidative stress-mediated positive-feedback iron uptake loop in neuronal cells. Journal of Neurochemistry, 2002, 82, 240-248. | 2.1 | 46 |
| 32 | Clathrin-Mediated Endocytosis of Soybean Ferritin by Caco-2 Cells. Blood, 2006, 108, 1571-1571. | 0.6 | 46 |
| 33 | Noxious Iron-Calcium Connections in Neurodegeneration. Frontiers in Neuroscience, 2019, 13, 48. | 1.4 | 44 |
| 34 | The novel mitochondrial iron chelator 5-((methylamino)methyl)-8-hydroxyquinoline protects against mitochondrial-induced oxidative damage and neuronal death. Biochemical and Biophysical Research Communications, 2015, 463, 787-792. | 1.0 | 42 |
| 35 | Oligodendrocytes: Functioning in a Delicate Balance Between High Metabolic Requirements and Oxidative Damage. Advances in Experimental Medicine and Biology, 2016, 949, 167-181. | 0.8 | 42 |
| 36 | Copper overload affects copper and iron metabolism in Hep-G2 cells. American Journal of Physiology - Renal Physiology, 2004, 287, G27-G32. | 1.6 | 41 |

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|----|---|-----|-----------|
| 37 | Iron-induced oxidative stress up-regulates calreticulin levels in intestinal epithelial (Caco-2) cells. <i>Journal of Cellular Biochemistry</i> , 2001, 82, 660-665. | 1.2 | 39 |
| 38 | 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, 526-534. | 1.3 | 39 |
| 39 | Iron supply determines apical/basolateral membrane distribution of intestinal iron transporters DMT1 and ferroportin 1. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C477-C485. | 2.1 | 38 |
| 40 | Kinetic characterization of reductant dependent processes of iron mobilization from endocytic vesicles. <i>Biochemistry</i> , 1992, 31, 5820-5830. | 1.2 | 37 |
| 41 | Increased Hippocampal Expression of the Divalent Metal Transporter 1 (DMT1) mRNA Variants 1B and +IRE and DMT1 Protein After NMDA-Receptor Stimulation or Spatial Memory Training. <i>Neurotoxicity Research</i> , 2010, 17, 238-247. | 1.3 | 37 |
| 42 | Mathematical modeling of the dynamic storage of iron in ferritin. <i>BMC Systems Biology</i> , 2010, 4, 147. | 3.0 | 35 |
| 43 | The calcium-iron connection in ferroptosis-mediated neuronal death. <i>Free Radical Biology and Medicine</i> , 2021, 175, 28-41. | 1.3 | 35 |
| 44 | HFE inhibits apical iron uptake by intestinal epithelial (Caco-2) cells. <i>FASEB Journal</i> , 2001, 15, 1276-1278. | 0.2 | 34 |
| 45 | Design, synthesis and cellular dynamics studies in membranes of a new coumarin-based turn-off fluorescent probe selective for Fe ²⁺ . <i>European Journal of Medicinal Chemistry</i> , 2013, 67, 60-63. | 2.6 | 34 |
| 46 | Neuroprotective Effect of a New 7,8-Dihydroxycoumarin-Based Fe ²⁺ /Cu ²⁺ -Chelator in Cell and Animal Models of Parkinson's Disease. <i>ACS Chemical Neuroscience</i> , 2017, 8, 178-185. | 1.7 | 34 |
| 47 | Iron-induced oxidative damage in colon carcinoma (caco-2) cells. <i>Free Radical Research</i> , 2001, 34, 57-68. | 1.5 | 32 |
| 48 | Parallels and contrasts between iron and copper metabolism. <i>BioMetals</i> , 2003, 16, 1-8. | 1.8 | 31 |
| 49 | Iron overload modulated nuclear factor kappa-B activation in human endometrial stromal cells as a mechanism postulated in endometriosis pathogenesis. <i>Fertility and Sterility</i> , 2015, 103, 439-447. | 0.5 | 31 |
| 50 | Transferrin-binding and iron-binding proteins of rabbit reticulocyte plasma membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 598, 293-304. | 1.4 | 30 |
| 51 | Apotransferrin and Holotransferrin Undergo Different Endocytic Cycles in Intestinal Epithelia (Caco-2) Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 19425-19428. | 1.6 | 29 |
| 52 | The development of a fluorescence turn-on sensor for cysteine, glutathione and other biothiols. A kinetic study. <i>Tetrahedron Letters</i> , 2011, 52, 6606-6609. | 0.7 | 28 |
| 53 | Regulatory mechanisms of intestinal iron absorption: Uncovering of a fast response mechanism based on DMT1 and ferroportin endocytosis. <i>BioFactors</i> , 2010, 36, 88-97. | 2.6 | 27 |
| 54 | Effect of Copper, Cadmium, Mercury, Manganese and Lead on Fe ²⁺ and Fe ³⁺ Absorption in Perfused Mouse Intestine. <i>Digestion</i> , 1998, 59, 671-675. | 1.2 | 25 |

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|----|--|-----|-----------|
| 55 | Ryanodine receptor-mediated Ca ²⁺ release underlies iron-induced mitochondrial fission and stimulates mitochondrial Ca ²⁺ uptake in primary hippocampal neurons. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 13. | 1.4 | 25 |
| 56 | Cell death induced by mitochondrial complex I inhibition is mediated by Iron Regulatory Protein 1. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2202-2209. | 1.8 | 25 |
| 57 | Overexpression of the Ferritin Iron-responsive Element Decreases the Labile Iron Pool and Abolishes the Regulation of Iron Absorption by Intestinal Epithelial (Caco-2) Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 1651-1655. | 1.6 | 24 |
| 58 | Iron-activated iron uptake: a positive feedback loop mediated by iron regulatory protein 1. <i>BioMetals</i> , 2003, 16, 83-90. | 1.8 | 24 |
| 59 | Transferrin stimulates iron absorption, exocytosis, and secretion in cultured intestinal cells. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C1085-C1090. | 2.1 | 23 |
| 60 | Iron and glutathione at the crossroad of redox metabolism in neurons. <i>Biological Research</i> , 2006, 39, 157-65. | 1.5 | 22 |
| 61 | Regulation of transepithelial transport of iron by hepcidin. <i>Biological Research</i> , 2006, 39, 191-3. | 1.5 | 22 |
| 62 | Assay and characteristics of the iron binding moiety of reticulocyte endocytic vesicles. <i>Journal of Membrane Biology</i> , 1989, 107, 129-135. | 1.0 | 20 |
| 63 | A selective fluorescent probe for the detection of mercury (II) in aqueous media and its applications in living cells. <i>Tetrahedron Letters</i> , 2012, 53, 6598-6601. | 0.7 | 20 |
| 64 | Intestinal Epithelia (Caco-2) Cells Acquire Iron through the Basolateral Endocytosis of Transferrin. <i>Journal of Nutrition</i> , 1996, 126, 2151-2158. | 1.3 | 19 |
| 65 | Iron Chelators and Antioxidants Regenerate Neuritic Tree and Nigrostriatal Fibers of MPP+/MPTP-Lesioned Dopaminergic Neurons. <i>PLoS ONE</i> , 2015, 10, e0144848. | 1.1 | 19 |
| 66 | Reactive oxygen species released from astrocytes treated with amyloid beta oligomers elicit neuronal calcium signals that decrease phospho-Ser727-STAT3 nuclear content. <i>Free Radical Biology and Medicine</i> , 2018, 117, 132-144. | 1.3 | 19 |
| 67 | A coumarinylaldehyde as a specific sensor for Cu ²⁺ and its biological application. <i>Tetrahedron Letters</i> , 2014, 55, 873-876. | 0.7 | 18 |
| 68 | Effect of ascorbate in the reduction of transferrin-associated iron in endocytic vesicles. <i>Journal of Bioenergetics and Biomembranes</i> , 1992, 24, 227-233. | 1.0 | 17 |
| 69 | Apical distribution of HFE ^Δ 22-microglobulin is associated with inhibition of apical iron uptake in intestinal epithelia cells. <i>BioMetals</i> , 2006, 19, 379-388. | 1.8 | 17 |
| 70 | Upregulation of ¹³ C-glutamate-cysteine ligase as part of the long-term adaptation process to iron accumulation in neuronal SH-SY5Y cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C2197-C2203. | 2.1 | 17 |
| 71 | Endocytic pathway of exogenous iron-loaded ferritin in intestinal epithelial (Caco-2) cells. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, G655-G661. | 1.6 | 17 |
| 72 | Kinetics of iron passage through subcellular compartments of rabbit reticulocytes. <i>Journal of Membrane Biology</i> , 1991, 119, 141-149. | 1.0 | 16 |

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|----|--|-----|-----------|
| 73 | Iron mediates neuritic tree collapse in mesencephalic neurons treated with 1-methyl-4-phenylpyridinium (MPP+). <i>Journal of Neural Transmission</i> , 2011, 118, 421-431. | 1.4 | 16 |
| 74 | Iron-induced reactive oxygen species mediate transporter DMT1 endocytosis and iron uptake in intestinal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C558-C567. | 2.1 | 15 |
| 75 | Development of an iron-selective antioxidant probe with protective effects on neuronal function. <i>PLoS ONE</i> , 2017, 12, e0189043. | 1.1 | 15 |
| 76 | Coumarin-Chalcone Hybrids as Inhibitors of MAO-B: Biological Activity and In Silico Studies. <i>Molecules</i> , 2021, 26, 2430. | 1.7 | 15 |
| 77 | The cellular mechanisms of body iron homeostasis. <i>Biological Research</i> , 2000, 33, 133-42. | 1.5 | 15 |
| 78 | Quiescence induced by iron challenge protects neuroblastoma cells from oxidative stress. <i>Journal of Neurochemistry</i> , 2006, 98, 11-19. | 2.1 | 14 |
| 79 | Ethanol increases tumor necrosis factor-alpha receptor-1 (TNF-R1) levels in hepatic, intestinal, and cardiac cells. <i>Alcohol</i> , 2004, 33, 9-15. | 0.8 | 14 |
| 80 | Synthesis and characterization of a novel fluorescent and colorimetric probe for the detection of mercury (II) even in the presence of relevant biothiols. <i>Tetrahedron Letters</i> , 2015, 56, 5761-5766. | 0.7 | 13 |
| 81 | Sub-lethal levels of amyloid β -peptide oligomers decrease non-transferrin-bound iron uptake and do not potentiate iron toxicity in primary hippocampal neurons. <i>BioMetals</i> , 2012, 25, 805-813. | 1.8 | 12 |
| 82 | Detection of SO ₂ derivatives using a new chalcone-coumarin derivative in cationic micellar media: application to real samples. <i>RSC Advances</i> , 2018, 8, 31261-31266. | 1.7 | 11 |
| 83 | Inhibitory effect of a toxic peptide isolated from a waterbloom of <i>Microcystis</i> sp. (cyanobacteria) on iron uptake by rabbit reticulocytes. <i>Toxicon</i> , 1990, 28, 1325-1332. | 0.8 | 10 |
| 84 | Hereditary hemochromatosis: An opportunity for gene therapy. <i>Biological Research</i> , 2006, 39, 113-24. | 1.5 | 10 |
| 85 | Endometrial expression and in vitro modulation of the iron transporter divalent metal transporter-1: implications for endometriosis. <i>Fertility and Sterility</i> , 2016, 106, 393-401. | 0.5 | 10 |
| 86 | The Mechanisms for Regulating Absorption of Fe Bis-Glycine Chelate and Fe-Ascorbate in Caco-2 Cells Are Similar. <i>Journal of Nutrition</i> , 2004, 134, 395-398. | 1.3 | 9 |
| 87 | Endocytic vesicles contain a calmodulin-activated Ca ²⁺ pump that mediates the inhibition of acidification by calcium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1028, 21-24. | 1.4 | 8 |
| 88 | Antioxidant responses of cortex neurons to iron loading. <i>Biological Research</i> , 2006, 39, 103-4. | 1.5 | 8 |
| 89 | Mathematical Modeling of Intestinal Iron Absorption Using Genetic Programming. <i>PLoS ONE</i> , 2017, 12, e0169601. | 1.1 | 8 |
| 90 | New perspectives in iron chelation therapy for the treatment of Parkinson's disease. <i>Neural Regeneration Research</i> , 2019, 14, 1905. | 1.6 | 8 |

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| 91 | Mathematical modeling of the relocation of the divalent metal transporter DMT1 in the intestinal iron absorption process. PLoS ONE, 2019, 14, e0218123. | 1.1 | 7 |
| 92 | Mechanism study of the thiol-addition reaction to benzothiazole derivative for sensing endogenous thiols. Tetrahedron Letters, 2015, 56, 2437-2440. | 0.7 | 6 |
| 93 | Iron, the endolysosomal system and neuroinflammation: a matter of balance. Neural Regeneration Research, 2022, 17, 1003. | 1.6 | 6 |
| 94 | Transferrin and iron salts modulate differently tumor necrosis factor- α secretion by cultured human mononuclear cells ¹ . Nutrition Research, 1999, 19, 651-661. | 1.3 | 5 |
| 95 | Antisense gene delivered by an adenoassociated viral vector inhibits iron uptake in human intestinal cells: Potential application in hemochromatosis. Biochemical Pharmacology, 2005, 69, 1559-1566. | 2.0 | 5 |
| 96 | Substituent effects on reactivity of 3-cinnamoylcoumarins with thiols of biological interest. RSC Advances, 2014, 4, 697-704. | 1.7 | 5 |
| 97 | Synthesis of coumarin derivatives as fluorescent probes for membrane and cell dynamics studies. European Journal of Medicinal Chemistry, 2014, 76, 79-86. | 2.6 | 5 |
| 98 | Tumour necrosis factor- α transcription in transferrin-stimulated human blood mononuclear cells: is transferrin receptor involved in the signalling mechanism?. British Journal of Haematology, 2003, 120, 829-835. | 1.2 | 3 |
| 99 | A Role for Reactive Oxygen/Nitrogen Species and Iron on Neuronal Synaptic Plasticity. Antioxidants and Redox Signaling, 2006, . | 2.5 | 1 |
| 100 | Characterization of mitochondrial iron uptake in HepG2 cells. Biological Research, 2006, 39, 199-201. | 1.5 | 1 |
| 101 | Iron Neurotoxicity in Parkinson's Disease. , 2014, , 789-818. | | 1 |
| 102 | Iron Neurotoxicity in Parkinson's Disease. , 2021, , 1-24. | | 0 |