

# Jose M. Fuentes

## 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.

94 papers	12,546 citations	31 h-index	101 g-index
101 ext. papers	14,199 ext. citations	4.9 avg, IF	4.66 L-index

#	Paper	IF	Citations
94	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
93	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-544	10.2	2783
92	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , <b>2008</b> , 4, 151-75	10.2	1920
91	Differential regulation of nitric oxide synthase-2 and arginase-1 by type 1/type 2 cytokines in vivo: granulomatous pathology is shaped by the pattern of L-arginine metabolism. <i>Journal of Immunology</i> , <b>2001</b> , 167, 6533-44	5.3	553
90	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382	10.2	440
89	Suppression of T-cell functions by human granulocyte arginase. <i>Blood</i> , <b>2006</b> , 108, 1627-34	2.2	280
88	Arginase I is constitutively expressed in human granulocytes and participates in fungicidal activity. <i>Blood</i> , <b>2005</b> , 105, 2549-56	2.2	251
87	Arginase and polyamine synthesis are key factors in the regulation of experimental leishmaniasis in vivo. <i>FASEB Journal</i> , <b>2005</b> , 19, 1000-2	0.9	225
86	Arginase activity mediates reversible T cell hyporesponsiveness in human pregnancy. <i>European Journal of Immunology</i> , <b>2007</b> , 37, 935-45	6.1	139
85	The LRRK2 G2019S mutant exacerbates basal autophagy through activation of the MEK/ERK pathway. <i>Cellular and Molecular Life Sciences</i> , <b>2013</b> , 70, 121-36	10.3	124
84	Inhibition of paraquat-induced autophagy accelerates the apoptotic cell death in neuroblastoma SH-SY5Y cells. <i>Toxicological Sciences</i> , <b>2007</b> , 97, 448-58	4.4	113
83	Activation of apoptosis signal-regulating kinase 1 is a key factor in paraquat-induced cell death: modulation by the Nrf2/Trx axis. <i>Free Radical Biology and Medicine</i> , <b>2010</b> , 48, 1370-81	7.8	96
82	Paraquat-induced apoptotic cell death in cerebellar granule cells. <i>Brain Research</i> , <b>2004</b> , 1011, 170-6	3.7	85
81	Inhibition of autophagy by TAB2 and TAB3. <i>EMBO Journal</i> , <b>2011</b> , 30, 4908-20	13	79
80	Lithium inhibits caspase 3 activation and dephosphorylation of PKB and GSK3 induced by K <sup>+</sup> deprivation in cerebellar granule cells. <i>Journal of Neurochemistry</i> , <b>2001</b> , 78, 199-206	6	79
79	Different mechanisms of protection against apoptosis by valproate and Li <sup>+</sup> . <i>FEBS Journal</i> , <b>1999</b> , 266, 886-91		76
78	ER-mitochondria signaling in Parkinson's disease. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 337	9.8	67

77	Fipronil is a powerful uncoupler of oxidative phosphorylation that triggers apoptosis in human neuronal cell line SHSY5Y. <i>NeuroToxicology</i> , <b>2011</b> , 32, 935-43	4.4	64
76	Silencing DJ-1 reveals its contribution in paraquat-induced autophagy. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109, 889-98	6	61
75	Nitric oxide in paraquat-mediated toxicity: A review. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2010</b> , 24, 402-9	3.4	59
74	Partial lithium-associated protection against apoptosis induced by C2-ceramide in cerebellar granule neurons. <i>NeuroReport</i> , <b>1998</b> , 9, 4199-203	1.7	54
73	N370S-GBA1 mutation causes lysosomal cholesterol accumulation in Parkinson's disease. <i>Movement Disorders</i> , <b>2017</b> , 32, 1409-1422	7	48
72	Protection against MPP+ neurotoxicity in cerebellar granule cells by antioxidants. <i>Cell Biology International</i> , <b>2004</b> , 28, 373-80	4.5	48
71	Mitochondria-Associated Membranes (MAMs): Overview and Its Role in Parkinson's Disease. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 6287-6303	6.2	45
70	Mitochondrial impairment increases FL-PINK1 levels by calcium-dependent gene expression. <i>Neurobiology of Disease</i> , <b>2014</b> , 62, 426-40	7.5	41
69	Vitamin E blocks early events induced by 1-methyl-4-phenylpyridinium (MPP+) in cerebellar granule cells. <i>Journal of Neurochemistry</i> , <b>2003</b> , 84, 305-15	6	40
68	ASK1 overexpression accelerates paraquat-induced autophagy via endoplasmic reticulum stress. <i>Toxicological Sciences</i> , <b>2011</b> , 119, 156-68	4.4	39
67	G2019S LRRK2 mutant fibroblasts from Parkinson's disease patients show increased sensitivity to neurotoxin 1-methyl-4-phenylpyridinium dependent of autophagy. <i>Toxicology</i> , <b>2014</b> , 324, 1-9	4.4	38
66	Clean Western blots of membrane proteins after yeast heterologous expression following a shortened version of the method of Perini et al. <i>Analytical Biochemistry</i> , <b>2000</b> , 285, 276-8	3.1	35
65	Molecular characterization of autophagic and apoptotic signaling induced by sorafenib in liver cancer cells. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 234, 692-708	7	34
64	Age-related alteration of arginase activity impacts on severity of leishmaniasis. <i>PLoS Neglected Tropical Diseases</i> , <b>2008</b> , 2, e235	4.8	32
63	Relationship between autophagy and apoptotic cell death in human neuroblastoma cells treated with paraquat: could autophagy be a "brake" in paraquat-induced apoptotic death?. <i>Autophagy</i> , <b>2007</b> , 3, 366-7	10.2	31
62	mRNA and protein dataset of autophagy markers (LC3 and p62) in several cell lines. <i>Data in Brief</i> , <b>2016</b> , 7, 641-7	1.2	31
61	Cholesterol and multilamellar bodies: Lysosomal dysfunction in GBA-Parkinson disease. <i>Autophagy</i> , <b>2018</b> , 14, 717-718	10.2	30
60	Impaired Mitophagy and Protein Acetylation Levels in Fibroblasts from Parkinson's Disease Patients. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 2466-2481	6.2	30

59	Nitric oxide-mediated toxicity in paraquat-exposed SH-SY5Y cells: a protective role of 7-nitroindazole. <i>Neurotoxicity Research</i> , <b>2009</b> , 16, 160-73	4.3	30
58	Low concentrations of paraquat induces early activation of extracellular signal-regulated kinase 1/2, protein kinase B, and c-Jun N-terminal kinase 1/2 pathways: role of c-Jun N-terminal kinase in paraquat-induced cell death. <i>Toxicological Sciences</i> , <b>2006</b> , 92, 507-15	4.4	29
57	Diagnostic performance of arginase activity in colorectal cancer. <i>Clinical and Experimental Medicine</i> , <b>2002</b> , 2, 53-7	4.9	27
56	Curcumin enhances paraquat-induced apoptosis of N27 mesencephalic cells via the generation of reactive oxygen species. <i>NeuroToxicology</i> , <b>2009</b> , 30, 1008-18	4.4	26
55	Expression in yeast and purification of a membrane protein, SERCA1a, using a biotinylated acceptor domain. <i>Protein Expression and Purification</i> , <b>2006</b> , 48, 32-42	2	26
54	MPP+: mechanism for its toxicity in cerebellar granule cells. <i>Molecular Neurobiology</i> , <b>2004</b> , 30, 253-64	6.2	25
53	Parallel induction of nitric oxide and glucose-6-phosphate dehydrogenase in activated bone marrow derived macrophages. <i>Biochemical and Biophysical Research Communications</i> , <b>1993</b> , 196, 342-7	3.4	25
52	Mechanisms of MPP(+) incorporation into cerebellar granule cells. <i>Brain Research Bulletin</i> , <b>2001</b> , 56, 119-33	3.3	23
51	Curcumin exposure induces expression of the Parkinson's disease-associated leucine-rich repeat kinase 2 (LRRK2) in rat mesencephalic cells. <i>Neuroscience Letters</i> , <b>2010</b> , 468, 120-4	3.3	22
50	Novel insights into the neurobiology underlying LRRK2-linked Parkinson's disease. <i>Neuropharmacology</i> , <b>2014</b> , 85, 45-56	5.5	21
49	The MAPK1/3 pathway is essential for the deregulation of autophagy observed in G2019S LRRK2 mutant fibroblasts. <i>Autophagy</i> , <b>2012</b> , 8, 1537-9	10.2	21
48	Protective effect of the glial cell line-derived neurotrophic factor (GDNF) on human mesencephalic neuron-derived cells against neurotoxicity induced by paraquat. <i>Environmental Toxicology and Pharmacology</i> , <b>2011</b> , 31, 129-36	5.8	21
47	Paraquat exposure induces nuclear translocation of glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and the activation of the nitric oxide-GAPDH-Siah cell death cascade. <i>Toxicological Sciences</i> , <b>2010</b> , 116, 614-22	4.4	21
46	Identification of genes associated with paraquat-induced toxicity in SH-SY5Y cells by PCR array focused on apoptotic pathways. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , <b>2008</b> , 71, 1457-67	3.2	20
45	MPP(+) causes inhibition of cellular energy supply in cerebellar granule cells. <i>NeuroToxicology</i> , <b>2003</b> , 24, 219-25	4.4	20
44	Implications of the S-shaped domain in the quaternary structure of human arginase. <i>BBA - Proteins and Proteomics</i> , <b>2000</b> , 1476, 181-90		17
43	PINK1 deficiency enhances autophagy and mitophagy induction. <i>Molecular and Cellular Oncology</i> , <b>2016</b> , 3, e1046579	1.2	16
42	Routine Western blot to check autophagic flux: cautions and recommendations. <i>Analytical Biochemistry</i> , <b>2015</b> , 477, 13-20	3.1	15

41	Schistosoma mansoni arginase shares functional similarities with human orthologs but depends upon disulphide bridges for enzymatic activity. <i>International Journal for Parasitology</i> , <b>2009</b> , 39, 267-79	4.3	15
40	Heat shock proteins protect both MPP(+) and paraquat neurotoxicity. <i>Brain Research Bulletin</i> , <b>2005</b> , 67, 509-14	3.9	15
39	Association of vascular factors and amnesic mild cognitive impairment: a comprehensive approach. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 44, 695-704	4.3	14
38	Turnover of Lipidated LC3 and Autophagic Cargoes in Mammalian Cells. <i>Methods in Enzymology</i> , <b>2017</b> , 587, 55-70	1.7	12
37	Immunological identity of the two different molecular mass constitutive subunits of liver arginase. <i>Biological Chemistry Hoppe-Seyler</i> , <b>1994</b> , 375, 537-41		11
36	Oscillations in rat liver cytosolic enzyme activities of the urea cycle. <i>Archives Internationales De Physiologie, De Biochimie Et De Biophysique</i> , <b>1994</b> , 102, 237-41		11
35	Kinetics of manganese reconstitution and thiol group exposition in dialyzed rat mammary gland arginase. <i>International Journal of Biochemistry &amp; Cell Biology</i> , <b>1994</b> , 26, 653-9		11
34	Association between subclinical carotid atherosclerosis, hyperhomocysteinaemia and mild cognitive impairment. <i>Acta Neurologica Scandinavica</i> , <b>2016</b> , 134, 154-9	3.8	10
33	Acetylome in Human Fibroblasts From Parkinson's Disease Patients. <i>Frontiers in Cellular Neuroscience</i> , <b>2018</b> , 12, 97	6.1	10
32	Effect of paraquat exposure on nitric oxide-responsive genes in rat mesencephalic cells. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2010</b> , 23, 51-9	5	10
31	Kinetics and inhibition by some aminoacids of lactating rat mammary gland arginase. <i>Archives Internationales De Physiologie, De Biochimie Et De Biophysique</i> , <b>1994</b> , 102, 255-8		10
30	Metabolic alterations in plasma from patients with familial and idiopathic Parkinson's disease. <i>Aging</i> , <b>2020</b> , 12, 16690-16708	5.6	10
29	Vascular Risk Factors and Lesions of Vascular Nature in Magnetic Resonance as Predictors of Progression to Dementia in Patients with Mild Cognitive Impairment. <i>Current Alzheimer Research</i> , <b>2018</b> , 15, 671-678	3	10
28	Is the Modulation of Autophagy the Future in the Treatment of Neurodegenerative Diseases?. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 2152-74	3	8
27	IFDOTMETER: A New Software Application for Automated Immunofluorescence Analysis. <i>Journal of the Association for Laboratory Automation</i> , <b>2016</b> , 21, 246-59		7
26	The neuroprotective effect of talipexole from paraquat-induced cell death in dopaminergic neuronal cells. <i>NeuroToxicology</i> , <b>2010</b> , 31, 701-8	4.4	5
25	The paradigm of protein acetylation in Parkinson's disease. <i>Neural Regeneration Research</i> , <b>2019</b> , 14, 975-976	4.5	5
24	Fluorescent FYVE Chimeras to Quantify PtdIns3P Synthesis During Autophagy. <i>Methods in Enzymology</i> , <b>2017</b> , 587, 257-269	1.7	4

23	Mitophagy in human astrocytes treated with the antiretroviral drug Efavirenz: Lack of evidence or evidence of the lack. <i>Antiviral Research</i> , <b>2019</b> , 168, 36-50	10.8	4
22	Toxicity of Necrostatin-1 in Parkinson's Disease Models. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	4
21	The Basics of Autophagy <b>2016</b> , 3-20		4
20	Autophagy, mitochondria and 3-nitropropionic acid joined in the same model. <i>British Journal of Pharmacology</i> , <b>2013</b> , 168, 60-2	8.6	4
19	Parkinson's disease: leucine-rich repeat kinase 2 and autophagy, intimate enemies. <i>Parkinson's Disease</i> , <b>2012</b> , 2012, 151039	2.6	4
18	DJ-1 as a modulator of autophagy: an hypothesis. <i>Scientific World Journal, The</i> , <b>2010</b> , 10, 1574-9	2.2	4
17	Possible involvement of the relationship of LRRK2 and autophagy in Parkinson's disease. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 1129-33	5.1	4
16	An arginine regulated gamma-guanidobutyrate ureahydrolase from tench liver ( <i>Tinca tinca</i> L.). <i>Archives Internationales De Physiologie, De Biochimie Et De Biophysique</i> , <b>1992</b> , 100, 55-60		3
15	Pompe Disease and Autophagy: Partners in Crime, or Cause and Consequence?. <i>Current Medicinal Chemistry</i> , <b>2016</b> , 23, 2275-85	4.3	3
14	Unfolding and trypsin inactivation studies reveal a conformation drift of glucose-6-phosphate dehydrogenase upon binding of NADP. <i>BBA - Proteins and Proteomics</i> , <b>1992</b> , 1122, 99-106		2
13	The parkinsonian LRRK2 R1441G mutation shows macroautophagy-mitophagy dysregulation concomitant with endoplasmic reticulum stress. <i>Cell Biology and Toxicology</i> , <b>2021</b> , 1	7.4	2
12	Mitochondria: Key Organelle in Parkinson's Disease. <i>Parkinson's Disease</i> , <b>2016</b> , 2016, 6230370	2.6	2
11	Neuroprotective properties of queen bee acid by autophagy induction. <i>Cell Biology and Toxicology</i> , <b>2021</b> , 1	7.4	2
10	Biological effects of olive oil phenolic compounds on mitochondria.. <i>Molecular and Cellular Oncology</i> , <b>2022</b> , 9, 2044263	1.2	2
9	Toxicity and Autophagy in Neurodegenerative Disorders. <i>Current Topics in Neurotoxicity</i> , <b>2015</b> ,		1
8	Implication of autophagy in Parkinson's disease. <i>Parkinson's Disease</i> , <b>2013</b> , 2013, 436481	2.6	1
7	TH1/TH2 cytokines: an easy model to study gene expression in immune cells. <i>CBE Life Sciences Education</i> , <b>2006</b> , 5, 287-95	3.4	1
6	Involvement of the cytoplasmic loop L6-7 in the entry mechanism for transport of Ca <sup>2+</sup> through the sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 986, 90-5	6.5	1

5	G2019S Mutation of LRRK2 Increases Autophagy via MEK/ERK Pathway <b>2016</b> , 123-142		1
4	The dual role of necrostatin-1 in Parkinson's disease models. <i>Neural Regeneration Research</i> , <b>2021</b> , 16, 2019-2020	4.5	1
3	Control of Autophagy in Parkinson's Disease. <i>Current Topics in Neurotoxicity</i> , <b>2015</b> , 91-122		
2	Links Between Paraquat and Parkinson's Disease <b>2014</b> , 819-842		
1	Links Between Paraquat and Parkinson's Disease <b>2021</b> , 1-19		