Jose M. Fuentes

List of Publications by Year
in descending order

98 papers	15,571 citations	117625 34 h-index	39675 94 g-index
102 all docs	102 docs citations	102 times ranked	28132 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
4	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (edition	9.1	1,430
5	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<scp>l</scp>-Arginine Metabolism. Journal of Immunology, 2001, 167, 6533-6544.	0.8	618
6	Suppression of T-cell functions by human granulocyte arginase. Blood, 2006, 108, 1627-1634.	1.4	341
7	Arginase I is constitutively expressed in human granulocytes and participates in fungicidal activity. Blood, 2005, 105, 2549-2556.	1.4	283
8	Arginase and polyamine synthesis are key factors in the regulation of experimental leishmaniasis in vivo. FASEB Journal, 2005, 19, 1000-1002.	0.5	248
9	Arginase activity mediates reversible T cell hyporesponsiveness in human pregnancy. European Journal of Immunology, 2007, 37, 935-945.	2.9	150
10	The LRRK2 G2019S mutant exacerbates basal autophagy through activation of the MEK/ERK pathway. Cellular and Molecular Life Sciences, 2013, 70, 121-136.	5.4	148
11	Inhibition of Paraquat-Induced Autophagy Accelerates the Apoptotic Cell Death in Neuroblastoma SH-SY5Y Cells. Toxicological Sciences, 2007, 97, 448-458.	3.1	124
12	Activation of apoptosis signal-regulating kinase 1 is a key factor in paraquat-induced cell death: Modulation by the Nrf2/Trx axis. Free Radical Biology and Medicine, 2010, 48, 1370-1381.	2.9	120
13	ERâ€“mitochondria signaling in Parkinsonâ€™s disease. Cell Death and Disease, 2018, 9, 337.	6.3	118
14	Paraquat-induced apoptotic cell death in cerebellar granule cells. Brain Research, 2004, 1011, 170-176.	2.2	95
15	Different mechanisms of protection against apoptosis by valproate and Li+. FEBS Journal, 1999, 266, 886-891.	0.2	90
16	Lithium inhibits caspase 3 activation and dephosphorylation of PKB and GSK3 induced by K+ deprivation in cerebellar granule cells. Journal of Neurochemistry, 2001, 78, 199-206.	3.9	87
17	N370S<i>â€GBA1</i> mutation causes lysosomal cholesterol accumulation in Parkinson's disease. Movement Disorders, 2017, 32, 1409-1422.	3.9	86
18	Inhibition of autophagy by TAB2 and TAB3. EMBO Journal, 2011, 30, 4908-4920.	7.8	85

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19	Silencing DJâ€1 reveals its contribution in paraquatâ€induced autophagy. Journal of Neurochemistry, 2009, 109, 889-898.	3.9	71
20	Fipronil is a powerful uncoupler of oxidative phosphorylation that triggers apoptosis in human neuronal cell line SHSY5Y. NeuroToxicology, 2011, 32, 935-943.	3.0	70
21	Nitric oxide in paraquatâ€mediated toxicity: A review. Journal of Biochemical and Molecular Toxicology, 2010, 24, 402-409.	3.0	61
22	Mitochondria-Associated Membranes (MAMs): Overview and Its Role in Parkinsonâ€™s Disease. Molecular Neurobiology, 2017, 54, 6287-6303.	4.0	60
23	Partial lithium-associated protection against apoptosis induced by C2-ceramide in cerebellar granule neurons. NeuroReport, 1998, 9, 4199-4203.	1.2	57
24	Protection against MPP+ neurotoxicity in cerebellar granule cells by antioxidants. Cell Biology International, 2004, 28, 373-380.	3.0	51
25	Impaired Mitophagy and Protein Acetylation Levels in Fibroblasts from Parkinsonâ€™s Disease Patients. Molecular Neurobiology, 2019, 56, 2466-2481.	4.0	50
26	Mitochondrial impairment increases FL-PINK1 levels by calcium-dependent gene expression. Neurobiology of Disease, 2014, 62, 426-440.	4.4	49
27	Cholesterol and multilamellar bodies: Lysosomal dysfunction in <i>GBA</i>-Parkinson disease. Autophagy, 2018, 14, 717-718.	9.1	49
28	ASK1 Overexpression Accelerates Paraquat-Induced Autophagy via Endoplasmic Reticulum Stress. Toxicological Sciences, 2011, 119, 156-168.	3.1	48
29	Molecular characterization of autophagic and apoptotic signaling induced by sorafenib in liver cancer cells. Journal of Cellular Physiology, 2019, 234, 692-708.	4.1	45
30	Vitamin E blocks early events induced by 1-methyl-4-phenylpyridinium (MPP+) in cerebellar granule cells. Journal of Neurochemistry, 2003, 84, 305-315.	3.9	44
31	G2019S LRRK2 mutant fibroblasts from Parkinsonâ€™s disease patients show increased sensitivity to neurotoxin 1-methyl-4-phenylpyridinium dependent of autophagy. Toxicology, 2014, 324, 1-9.	4.2	40
32	mRNA and protein dataset of autophagy markers (LC3 and p62) in several cell lines. Data in Brief, 2016, 7, 641-647.	1.0	39
33	Clean Western Blots of Membrane Proteins after Yeast Heterologous Expression Following a Shortened Version of the Method of Perini et al.. Analytical Biochemistry, 2000, 285, 276-278.	2.4	37
34	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. Toxicological Sciences, 2006, 92, 507-515.	3.1	36
35	Relationship between Autophagy and Apoptotic Cell Death in Human Neuroblastoma Cells Treated with Paraquat: Could Autophagy be a â€œBrakeâ€in Paraquat-Induced Apoptotic Death?. Autophagy, 2007, 3, 366-367.	9.1	36
36	Age-Related Alteration of Arginase Activity Impacts on Severity of Leishmaniasis. PLoS Neglected Tropical Diseases, 2008, 2, e235.	3.0	35

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37	Expression in yeast and purification of a membrane protein, SERCA1a, using a biotinylated acceptor domain. Protein Expression and Purification, 2006, 48, 32-42.	1.3	33
38	Metabolic alterations in plasma from patients with familial and idiopathic Parkinsonâ€™s disease. Aging, 2020, 12, 16690-16708.	3.1	32
39	Nitric Oxide-Mediated Toxicity in Paraquat-Exposed SH-SY5Y Cells: A Protective Role of 7-Nitroindazole. Neurotoxicity Research, 2009, 16, 160-173.	2.7	30
40	Curcumin enhances paraquat-induced apoptosis of N27 mesencephalic cells via the generation of reactive oxygen species. NeuroToxicology, 2009, 30, 1008-1018.	3.0	30
41	Diagnostic performance of arginase activity in colorectal cancer. Clinical and Experimental Medicine, 2002, 2, 53-57.	3.6	29
42	Paraquat Exposure Induces Nuclear Translocation of Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) and the Activation of the Nitric Oxide-GAPDH-Siah Cell Death Cascade. Toxicological Sciences, 2010, 116, 614-622.	3.1	28
43	Parallel Induction of Nitric Oxide and Glucose-6-Phosphate Dehydrogenase in Activated Bone Marrow Derived Macrophages. Biochemical and Biophysical Research Communications, 1993, 196, 342-347.	2.1	27
44	MPP⁺: Mechanism for Its Toxicity in Cerebellar Granule Cells. Molecular Neurobiology, 2004, 30, 253-264.	4.0	27
45	Identification of Genes Associated with Paraquat-Induced Toxicity in SH-SY5Y Cells by PCR Array Focused on Apoptotic Pathways. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 71, 1457-1467.	2.3	27
46	Curcumin exposure induces expression of the Parkinson's disease-associated leucine-rich repeat kinase 2 (LRRK2) in rat mesencephalic cells. Neuroscience Letters, 2010, 468, 120-124.	2.1	27
47	Mechanisms of MPP + incorporation into cerebellar granule cells. Brain Research Bulletin, 2001, 56, 119-123.	3.0	25
48	Routine Western blot to check autophagic flux: Cautions and recommendations. Analytical Biochemistry, 2015, 477, 13-20.	2.4	25
49	The MAPK1/3 pathway is essential for the deregulation of autophagy observed in G2019S LRRK2 mutant fibroblasts. Autophagy, 2012, 8, 1537-1539.	9.1	23
50	Protective effect of the glial cell line-derived neurotrophic factor (GDNF) on human mesencephalic neuron-derived cells against neurotoxicity induced by paraquat. Environmental Toxicology and Pharmacology, 2011, 31, 129-136.	4.0	22
51	Novel insights into the neurobiology underlying LRRK2-linked Parkinson's disease. Neuropharmacology, 2014, 85, 45-56.	4.1	21
52	MPP+ Causes Inhibition of Cellular Energy Supply in Cerebellar Granule Cells. NeuroToxicology, 2003, 24, 219-225.	3.0	20
53	Implications of the S-shaped domain in the quaternary structure of human arginase. BBA - Proteins and Proteomics, 2000, 1476, 181-190.	2.1	18
54	Association of Vascular Factors and Amnestic Mild Cognitive Impairment: A Comprehensive Approach. Journal of Alzheimer's Disease, 2015, 44, 695-704.	2.6	18

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55	PINK1 deficiency enhances autophagy and mitophagy induction. Molecular and Cellular Oncology, 2016, 3, e1046579.	0.7	18
56	Turnover of Lipidated LC3 and Autophagic Cargoes in Mammalian Cells. Methods in Enzymology, 2017, 587, 55-70.	1.0	18
57	Vascular Risk Factors and Lesions of Vascular Nature in Magnetic Resonance as Predictors of Progression to Dementia in Patients with Mild Cognitive Impairment. Current Alzheimer Research, 2018, 15, 671-678.	1.4	17
58	Heat shock proteins protect both MPP+ and paraquat neurotoxicity. Brain Research Bulletin, 2005, 67, 509-514.	3.0	16
59	Schistosoma mansoni arginase shares functional similarities with human orthologs but depends upon disulphide bridges for enzymatic activity. International Journal for Parasitology, 2009, 39, 267-279.	3.1	16
60	Acetylome in Human Fibroblasts From Parkinson's Disease Patients. Frontiers in Cellular Neuroscience, 2018, 12, 97.	3.7	15
61	Kinetics of manganese reconstitution and thiol group exposition in dialyzed rat mammary gland arginase. International Journal of Biochemistry & Cell Biology, 1994, 26, 653-659.	0.5	13
62	Effect of paraquat exposure on nitric oxide-responsive genes in rat mesencephalic cells. Nitric Oxide - Biology and Chemistry, 2010, 23, 51-59.	2.7	13
63	Toxicity of Necrostatin-1 in Parkinsonâ€™s Disease Models. Antioxidants, 2020, 9, 524.	5.1	13
64	Immunological Identity of the Two Different Molecular Mass Constltutive Subunits of Liver Arginase. Biological Chemistry Hoppe-Seyler, 1994, 375, 537-542.	1.4	12
65	Kinetics and inhibition by some aminoacids of lactating rat mammary gland arginase. Archives Internationales De Physiologie, De Biochimie Et De Biophysique, 1994, 102, 255-258.	0.1	12
66	Association between subclinical carotid atherosclerosis, hyperhomocysteinaemia and mild cognitive impairment. Acta Neurologica Scandinavica, 2016, 134, 154-159.	2.1	12
67	Oscillations in rat liver cytosolic enzyme activities of the urea cycle. Archives Internationales De Physiologie, De Biochimie Et De Biophysique, 1994, 102, 237-241.	0.1	11
68	Is the Modulation of Autophagy the Future in the Treatment of Neurodegenerative Diseases?. Current Topics in Medicinal Chemistry, 2015, 15, 2152-2174.	2.1	11
69	The parkinsonian LRRK2 R1441G mutation shows macroautophagy-mitophagy dysregulation concomitant with endoplasmic reticulum stress. Cell Biology and Toxicology, 2022, 38, 889-911.	5.3	9
70	The paradigm of protein acetylation in Parkinsonâ€™s disease. Neural Regeneration Research, 2019, 14, 975.	3.0	9
71	The neuroprotective effect of talipexole from paraquat-induced cell death in dopaminergic neuronal cells. NeuroToxicology, 2010, 31, 701-708.	3.0	8
72	IFDOTMETER: A New Software Application for Automated Immunofluorescence Analysis. Journal of the Association for Laboratory Automation, 2016, 21, 246-259.	2.8	7

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73	Mitophagy in human astrocytes treated with the antiretroviral drug Efavirenz: Lack of evidence or evidence of the lack. Antiviral Research, 2019, 168, 36-50.	4.1	7
74	Neuroprotective properties of queen bee acid by autophagy induction. Cell Biology and Toxicology, 2023, 39, 751-770.	5.3	7
75	Biological effects of olive oil phenolic compounds on mitochondria. Molecular and Cellular Oncology, 2022, 9, 2044263.	0.7	7
76	Parkinson's Disease: Leucine-Rich Repeat Kinase 2 and Autophagy, Intimate Enemies. Parkinson's Disease, 2012, 2012, 1-9.	1.1	6
77	The Basics of Autophagy. , 2016, , 3-20.		6
78	Pompe Disease and Autophagy: Partners in Crime, or Cause and Consequence?. Current Medicinal Chemistry, 2016, 23, 2275-2285.	2.4	6
79	Autophagy, mitochondria and 3â€nitropropionic acid joined in the same model. British Journal of Pharmacology, 2013, 168, 60-62.	5.4	5
80	Fluorescent FYVE Chimeras to Quantify PtdIns3P Synthesis During Autophagy. Methods in Enzymology, 2017, 587, 257-269.	1.0	5
81	DJ-1 as a Modulator of Autophagy: An Hypothesis. Scientific World Journal, The, 2010, 10, 1574-1579.	2.1	4
82	Possible involvement of the relationship of LRRK2 and autophagy in Parkinson's disease. Biochemical Society Transactions, 2012, 40, 1129-1133.	3.4	4
83	The dual role of necrostatin-1 in Parkinsonâ€™s disease models. Neural Regeneration Research, 2021, 16, 2019.	3.0	4
84	In vitro and in vivo models to study the biological and pharmacological properties of queen bee acid (QBA, 10-hydroxy-2-decenoic acid): A systematic review. Journal of Functional Foods, 2022, 94, 105143.	3.4	4
85	An arginine regulated Î³-guanidobutyrate ureahydrolase from tench liver (<i>Tinca tinca</i>L.). Archives Internationales De Physiologie, De Biochimie Et De Biophysique, 1992, 100, 55-60.	0.1	3
86	Mitochondria: Key Organelle in Parkinsonâ€™s Disease. Parkinson's Disease, 2016, 2016, 1-2.	1.1	3
87	Unfolding and trypsin inactivation studies reveal a conformation drift of glucose-6-phosphate dehydrogenase upon binding of NADP. BBA - Proteins and Proteomics, 1992, 1122, 99-106.	2.1	2
88	Th1/Th2 Cytokines: An Easy Model to Study Gene Expression in Immune Cells. CBE Life Sciences Education, 2006, 5, 287-295.	2.3	2
89	G2019S Mutation of LRRK2 Increases Autophagy via MEK/ERK Pathway. , 2016, , 123-142.		2
90	Molecular characterization of autophagic and apoptotic signaling induced by Sorafenib in liver cancer cells: In vitro and in vivo studies. Journal of Hepatology, 2018, 68, S670-S671.	3.7	2

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91	Involvement of the Cytoplasmic Loop L6â€7 in the Entry Mechanism for Transport of Ca²⁺ through the Sarcoplasmic Reticulum Ca²⁺â€ATPase. Annals of the New York Academy of Sciences, 2003, 986, 90-95.	3.8	1
92	Implication of Autophagy in Parkinsonâ€™s Disease. Parkinson's Disease, 2013, 2013, 1-2.	1.1	1
93	Control of Autophagy in Parkinsonâ€™s Disease. Current Topics in Neurotoxicity, 2015, , 91-122.	0.4	1
94	Links Between Paraquat and Parkinsonâ€™s Disease. , 2021, , 1-19.		1
95	Paraquat-induced apoptotic cell death in cerebellar granule cells. Brain Research, 2004, 1011, 170-176.	2.2	1
96	Autophagy: A Possible Defense Mechanism in Parkinson's Disease?. , 0, , .		0
97	Paraquat, Between Apoptosis and Autophagy. , 0, , .		0
98	Links Between Paraquat and Parkinsonâ€™s Disease. , 2014, , 819-842.		0