Rosa-Ana GonzÃ¡lez Polo

List of Publications by Year
in descending order

68 papers	12,530 citations	159358 30 h-index	110170 64 g-index
69 all docs	69 docs citations	69 times ranked	24412 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	Inhibition of Macroautophagy Triggers Apoptosis. Molecular and Cellular Biology, 2005, 25, 1025-1040.	1.1	1,533
4	The apoptosis/autophagy paradox: autophagic vacuolization before apoptotic death. Journal of Cell Science, 2005, 118, 3091-3102.	1.2	487
5	Mitochondrial membrane permeabilization is a critical step of lysosome-initiated apoptosis induced by hydroxychloroquine. Oncogene, 2003, 22, 3927-3936.	2.6	357
6	The LRRK2 G2019S mutant exacerbates basal autophagy through activation of the MEK/ERK pathway. Cellular and Molecular Life Sciences, 2013, 70, 121-136.	2.4	148
7	Viral proteins targeting mitochondria: controlling cell death. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1659, 178-189.	0.5	147
8	Inhibition of Paraquat-Induced Autophagy Accelerates the Apoptotic Cell Death in Neuroblastoma SH-SY5Y Cells. Toxicological Sciences, 2007, 97, 448-458.	1.4	124
9	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.	1.3	120
10	ERâ€“mitochondria signaling in Parkinsonâ€™s disease. Cell Death and Disease, 2018, 9, 337.	2.7	118
11	Paraquat-induced apoptotic cell death in cerebellar granule cells. Brain Research, 2004, 1011, 170-176.	1.1	95
12	Different mechanisms of protection against apoptosis by valproate and Li+. FEBS Journal, 1999, 266, 886-891.	0.2	90
13	PK11195 potently sensitizes to apoptosis induction independently from the peripheral benzodiazepin receptor. Oncogene, 2005, 24, 7503-7513.	2.6	88
14	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.	2.1	87
15	N370Sâ€GBA1 mutation causes lysosomal cholesterol accumulation in Parkinson's disease. Movement Disorders, 2017, 32, 1409-1422.	2.2	86
16	The chemopreventive agent N-(4-hydroxyphenyl)retinamide induces apoptosis through a mitochondrial pathway regulated by proteins from the Bcl-2 family. Oncogene, 2003, 22, 6220-6230.	2.6	83
17	Silencing DJâ€1 reveals its contribution in paraquatâ€induced autophagy. Journal of Neurochemistry, 2009, 109, 889-898.	2.1	71
18	Fipronil is a powerful uncoupler of oxidative phosphorylation that triggers apoptosis in human neuronal cell line SHSY5Y. NeuroToxicology, 2011, 32, 935-943.	1.4	70

#	Article	IF	Citations
19	Mitochondria-Associated Membranes (MAMs): Overview and Its Role in Parkinsonâ€™s Disease. Molecular Neurobiology, 2017, 54, 6287-6303.	1.9	60
20	Mitochondrion-targeted apoptosis regulators of viral origin. Biochemical and Biophysical Research Communications, 2003, 304, 575-581.	1.0	51
21	Protection against MPP+ neurotoxicity in cerebellar granule cells by antioxidants. Cell Biology International, 2004, 28, 373-380.	1.4	51
22	Impaired Mitophagy and Protein Acetylation Levels in Fibroblasts from Parkinsonâ€™s Disease Patients. Molecular Neurobiology, 2019, 56, 2466-2481.	1.9	50
23	Mitochondrial impairment increases FL-PINK1 levels by calcium-dependent gene expression. Neurobiology of Disease, 2014, 62, 426-440.	2.1	49
24	ASK1 Overexpression Accelerates Paraquat-Induced Autophagy via Endoplasmic Reticulum Stress. Toxicological Sciences, 2011, 119, 156-168.	1.4	48
25	Vitamin E blocks early events induced by 1-methyl-4-phenylpyridinium (MPP+) in cerebellar granule cells. Journal of Neurochemistry, 2003, 84, 305-315.	2.1	44
26	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.	2.0	40
27	mRNA and protein dataset of autophagy markers (LC3 and p62) in several cell lines. Data in Brief, 2016, 7, 641-647.	0.5	39
28	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.	1.4	36
29	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.	4.3	36
30	Metabolic alterations in plasma from patients with familial and idiopathic Parkinsonâ€™s disease. Aging, 2020, 12, 16690-16708.	1.4	32
31	Nitric Oxide-Mediated Toxicity in Paraquat-Exposed SH-SY5Y Cells: A Protective Role of 7-Nitroindazole. Neurotoxicity Research, 2009, 16, 160-173.	1.3	30
32	Curcumin enhances paraquat-induced apoptosis of N27 mesencephalic cells via the generation of reactive oxygen species. NeuroToxicology, 2009, 30, 1008-1018.	1.4	30
33	Diagnostic performance of arginase activity in colorectal cancer. Clinical and Experimental Medicine, 2002, 2, 53-57.	1.9	29
34	MPP⁺: Mechanism for Its Toxicity in Cerebellar Granule Cells. Molecular Neurobiology, 2004, 30, 253-264.	1.9	27
35	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.	1.1	27
36	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.	1.0	27

#	Article	IF	Citations
37	Mechanisms of MPP + incorporation into cerebellar granule cells. Brain Research Bulletin, 2001, 56, 119-123.	1.4	25
38	Routine Western blot to check autophagic flux: Cautions and recommendations. Analytical Biochemistry, 2015, 477, 13-20.	1.1	25
39	The MAPK1/3 pathway is essential for the deregulation of autophagy observed in G2019S LRRK2 mutant fibroblasts. Autophagy, 2012, 8, 1537-1539.	4.3	23
40	MPP+ Causes Inhibition of Cellular Energy Supply in Cerebellar Granule Cells. NeuroToxicology, 2003, 24, 219-225.	1.4	20
41	PINK1 deficiency enhances autophagy and mitophagy induction. Molecular and Cellular Oncology, 2016, 3, e1046579.	0.3	18
42	Turnover of Lipidated LC3 and Autophagic Cargoes in Mammalian Cells. Methods in Enzymology, 2017, 587, 55-70.	0.4	18
43	Heat shock proteins protect both MPP+ and paraquat neurotoxicity. Brain Research Bulletin, 2005, 67, 509-514.	1.4	16
44	Acetylome in Human Fibroblasts From Parkinson's Disease Patients. Frontiers in Cellular Neuroscience, 2018, 12, 97.	1.8	15
45	Effect of paraquat exposure on nitric oxide-responsive genes in rat mesencephalic cells. Nitric Oxide - Biology and Chemistry, 2010, 23, 51-59.	1.2	13
46	Toxicity of Necrostatin-1 in Parkinsonâ€™s Disease Models. Antioxidants, 2020, 9, 524.	2.2	13
47	Is the Modulation of Autophagy the Future in the Treatment of Neurodegenerative Diseases?. Current Topics in Medicinal Chemistry, 2015, 15, 2152-2174.	1.0	11
48	The parkinsonian LRRK2 R1441G mutation shows macroautophagy-mitophagy dysregulation concomitant with endoplasmic reticulum stress. Cell Biology and Toxicology, 2022, 38, 889-911.	2.4	9
49	The paradigm of protein acetylation in Parkinsonâ€™s disease. Neural Regeneration Research, 2019, 14, 975.	1.6	9
50	The neuroprotective effect of talipexole from paraquat-induced cell death in dopaminergic neuronal cells. NeuroToxicology, 2010, 31, 701-708.	1.4	8
51	IFDOTMETER: A New Software Application for Automated Immunofluorescence Analysis. Journal of the Association for Laboratory Automation, 2016, 21, 246-259.	2.8	7
52	Mitophagy in human astrocytes treated with the antiretroviral drug Efavirenz: Lack of evidence or evidence of the lack. Antiviral Research, 2019, 168, 36-50.	1.9	7
53	Neuroprotective properties of queen bee acid by autophagy induction. Cell Biology and Toxicology, 2023, 39, 751-770.	2.4	7
54	Biological effects of olive oil phenolic compounds on mitochondria. Molecular and Cellular Oncology, 2022, 9, 2044263.	0.3	7

#	Article	IF	Citations
55	Parkinson's Disease: Leucine-Rich Repeat Kinase 2 and Autophagy, Intimate Enemies. Parkinson's Disease, 2012, 2012, 1-9.	0.6	6
56	The Basics of Autophagy. , 2016, , 3-20.		6
57	Pompe Disease and Autophagy: Partners in Crime, or Cause and Consequence?. Current Medicinal Chemistry, 2016, 23, 2275-2285.	1.2	6
58	Autophagy, mitochondria and 3â€nitropropionic acid joined in the same model. British Journal of Pharmacology, 2013, 168, 60-62.	2.7	5
59	Fluorescent FYVE Chimeras to Quantify PtdIns3P Synthesis During Autophagy. Methods in Enzymology, 2017, 587, 257-269.	0.4	5
60	DJ-1 as a Modulator of Autophagy: An Hypothesis. Scientific World Journal, The, 2010, 10, 1574-1579.	0.8	4
61	Possible involvement of the relationship of LRRK2 and autophagy in Parkinson's disease. Biochemical Society Transactions, 2012, 40, 1129-1133.	1.6	4
62	Mitochondria: Key Organelle in Parkinsonâ€™s Disease. Parkinson's Disease, 2016, 2016, 1-2.	0.6	3
63	Th1/Th2 Cytokines: An Easy Model to Study Gene Expression in Immune Cells. CBE Life Sciences Education, 2006, 5, 287-295.	1.1	2
64	G2019S Mutation of LRRK2 Increases Autophagy via MEK/ERK Pathway. , 2016, , 123-142.		2
65	Implication of Autophagy in Parkinsonâ€™s Disease. Parkinson's Disease, 2013, 2013, 1-2.	0.6	1
66	Control of Autophagy in Parkinsonâ€™s Disease. Current Topics in Neurotoxicity, 2015, , 91-122.	0.4	1
67	Links Between Paraquat and Parkinsonâ€™s Disease. , 2021, , 1-19.		1
68	Links Between Paraquat and Parkinsonâ€™s Disease. , 2014, , 819-842.		0