

Rosa-Ana Gonzalez Polo

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68

papers

10,678

citations

29

h-index

69

g-index

69

ext. papers

11,721

ext. citations

5.2

avg, IF

4.53

L-index

#	Paper	IF	Citations
68	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
67	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546	10.2	2783
66	Inhibition of macroautophagy triggers apoptosis. <i>Molecular and Cellular Biology</i> , 2005 , 25, 1025-40	4.8	1411
65	The apoptosis/autophagy paradox: autophagic vacuolization before apoptotic death. <i>Journal of Cell Science</i> , 2005 , 118, 3091-102	5.3	431
64	Mitochondrial membrane permeabilization is a critical step of lysosome-initiated apoptosis induced by hydroxychloroquine. <i>Oncogene</i> , 2003 , 22, 3927-36	9.2	315
63	Viral proteins targeting mitochondria: controlling cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1659, 178-89	4.6	134
62	The LRRK2 G2019S mutant exacerbates basal autophagy through activation of the MEK/ERK pathway. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 121-36	10.3	124
61	Inhibition of paraquat-induced autophagy accelerates the apoptotic cell death in neuroblastoma SH-SY5Y cells. <i>Toxicological Sciences</i> , 2007 , 97, 448-58	4.4	113
60	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> , 2010 , 48, 1370-81	7.8	96
59	Paraquat-induced apoptotic cell death in cerebellar granule cells. <i>Brain Research</i> , 2004 , 1011, 170-6	3.7	85
58	The chemopreventive agent N-(4-hydroxyphenyl)retinamide induces apoptosis through a mitochondrial pathway regulated by proteins from the Bcl-2 family. <i>Oncogene</i> , 2003 , 22, 6220-30	9.2	82
57	PK11195 potently sensitizes to apoptosis induction independently from the peripheral benzodiazepin receptor. <i>Oncogene</i> , 2005 , 24, 7503-13	9.2	79
56	Lithium inhibits caspase 3 activation and dephosphorylation of PKB and GSK3 induced by K ⁺ deprivation in cerebellar granule cells. <i>Journal of Neurochemistry</i> , 2001 , 78, 199-206	6	79
55	Different mechanisms of protection against apoptosis by valproate and Li ⁺ . <i>FEBS Journal</i> , 1999 , 266, 886-91		76
54	ER-mitochondria signaling in Parkinson's disease. <i>Cell Death and Disease</i> , 2018 , 9, 337	9.8	67
53	Fipronil is a powerful uncoupler of oxidative phosphorylation that triggers apoptosis in human neuronal cell line SHSY5Y. <i>NeuroToxicology</i> , 2011 , 32, 935-43	4.4	64
52	Silencing DJ-1 reveals its contribution in paraquat-induced autophagy. <i>Journal of Neurochemistry</i> , 2009 , 109, 889-98	6	61

51	N370S-GBA1 mutation causes lysosomal cholesterol accumulation in Parkinson's disease. <i>Movement Disorders</i> , 2017 , 32, 1409-1422	7	48
50	Protection against MPP+ neurotoxicity in cerebellar granule cells by antioxidants. <i>Cell Biology International</i> , 2004 , 28, 373-80	4.5	48
49	Mitochondrion-targeted apoptosis regulators of viral origin. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 575-81	3.4	47
48	Mitochondria-Associated Membranes (MAMs): Overview and Its Role in Parkinson's Disease. <i>Molecular Neurobiology</i> , 2017 , 54, 6287-6303	6.2	45
47	Mitochondrial impairment increases FL-PINK1 levels by calcium-dependent gene expression. <i>Neurobiology of Disease</i> , 2014 , 62, 426-40	7.5	41
46	Vitamin E blocks early events induced by 1-methyl-4-phenylpyridinium (MPP+) in cerebellar granule cells. <i>Journal of Neurochemistry</i> , 2003 , 84, 305-15	6	40
45	ASK1 overexpression accelerates paraquat-induced autophagy via endoplasmic reticulum stress. <i>Toxicological Sciences</i> , 2011 , 119, 156-68	4.4	39
44	G2019S LRRK2 mutant fibroblasts from Parkinson's disease patients show increased sensitivity to neurotoxin 1-methyl-4-phenylpyridinium dependent of autophagy. <i>Toxicology</i> , 2014 , 324, 1-9	4.4	38
43	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> , 2007 , 3, 366-7	10.2	31
42	mRNA and protein dataset of autophagy markers (LC3 and p62) in several cell lines. <i>Data in Brief</i> , 2016 , 7, 641-7	1.2	31
41	Impaired Mitophagy and Protein Acetylation Levels in Fibroblasts from Parkinson's Disease Patients. <i>Molecular Neurobiology</i> , 2019 , 56, 2466-2481	6.2	30
40	Nitric oxide-mediated toxicity in paraquat-exposed SH-SY5Y cells: a protective role of 7-nitroindazole. <i>Neurotoxicity Research</i> , 2009 , 16, 160-73	4.3	30
39	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> , 2006 , 92, 507-15	4.4	29
38	Diagnostic performance of arginase activity in colorectal cancer. <i>Clinical and Experimental Medicine</i> , 2002 , 2, 53-7	4.9	27
37	Curcumin enhances paraquat-induced apoptosis of N27 mesencephalic cells via the generation of reactive oxygen species. <i>NeuroToxicology</i> , 2009 , 30, 1008-18	4.4	26
36	MPP+: mechanism for its toxicity in cerebellar granule cells. <i>Molecular Neurobiology</i> , 2004 , 30, 253-64	6.2	25
35	Mechanisms of MPP(+) incorporation into cerebellar granule cells. <i>Brain Research Bulletin</i> , 2001 , 56, 119-23	3.3	23
34	Curcumin exposure induces expression of the Parkinson's disease-associated leucine-rich repeat kinase 2 (LRRK2) in rat mesencephalic cells. <i>Neuroscience Letters</i> , 2010 , 468, 120-4	3.3	22

33	The MAPK1/3 pathway is essential for the deregulation of autophagy observed in G2019S LRRK2 mutant fibroblasts. <i>Autophagy</i> , 2012 , 8, 1537-9	10.2	21
32	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> , 2008 , 71, 1457-67	3.2	20
31	MPP(+) causes inhibition of cellular energy supply in cerebellar granule cells. <i>NeuroToxicology</i> , 2003 , 24, 219-25	4.4	20
30	PINK1 deficiency enhances autophagy and mitophagy induction. <i>Molecular and Cellular Oncology</i> , 2016 , 3, e1046579	1.2	16
29	Routine Western blot to check autophagic flux: cautions and recommendations. <i>Analytical Biochemistry</i> , 2015 , 477, 13-20	3.1	15
28	Heat shock proteins protect both MPP(+) and paraquat neurotoxicity. <i>Brain Research Bulletin</i> , 2005 , 67, 509-14	3.9	15
27	Turnover of Lipidated LC3 and Autophagic Cargoes in Mammalian Cells. <i>Methods in Enzymology</i> , 2017 , 587, 55-70	1.7	12
26	Acetylome in Human Fibroblasts From Parkinson's Disease Patients. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 97	6.1	10
25	Effect of paraquat exposure on nitric oxide-responsive genes in rat mesencephalic cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 23, 51-9	5	10
24	Metabolic alterations in plasma from patients with familial and idiopathic Parkinson's disease. <i>Aging</i> , 2020 , 12, 16690-16708	5.6	10
23	Is the Modulation of Autophagy the Future in the Treatment of Neurodegenerative Diseases?. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 2152-74	3	8
22	IFDOTMETER: A New Software Application for Automated Immunofluorescence Analysis. <i>Journal of the Association for Laboratory Automation</i> , 2016 , 21, 246-59		7
21	The neuroprotective effect of talipexole from paraquat-induced cell death in dopaminergic neuronal cells. <i>NeuroToxicology</i> , 2010 , 31, 701-8	4.4	5
20	The paradigm of protein acetylation in Parkinson's disease. <i>Neural Regeneration Research</i> , 2019 , 14, 975-976	4.5	5
19	Fluorescent FYVE Chimeras to Quantify PtdIns3P Synthesis During Autophagy. <i>Methods in Enzymology</i> , 2017 , 587, 257-269	1.7	4
18	Mitophagy in human astrocytes treated with the antiretroviral drug Efavirenz: Lack of evidence or evidence of the lack. <i>Antiviral Research</i> , 2019 , 168, 36-50	10.8	4
17	Toxicity of Necrostatin-1 in Parkinson's Disease Models. <i>Antioxidants</i> , 2020 , 9,	7.1	4
16	The Basics of Autophagy 2016 , 3-20		4

15	Autophagy, mitochondria and 3-nitropropionic acid joined in the same model. <i>British Journal of Pharmacology</i> , 2013 , 168, 60-2	8.6	4
14	Parkinson's disease: leucine-rich repeat kinase 2 and autophagy, intimate enemies. <i>Parkinson's Disease</i> , 2012 , 2012, 151039	2.6	4
13	DJ-1 as a modulator of autophagy: an hypothesis. <i>Scientific World Journal, The</i> , 2010 , 10, 1574-9	2.2	4
12	Possible involvement of the relationship of LRRK2 and autophagy in Parkinson's disease. <i>Biochemical Society Transactions</i> , 2012 , 40, 1129-33	5.1	4
11	Pompe Disease and Autophagy: Partners in Crime, or Cause and Consequence?. <i>Current Medicinal Chemistry</i> , 2016 , 23, 2275-85	4.3	3
10	The parkinsonian LRRK2 R1441G mutation shows macroautophagy-mitophagy dysregulation concomitant with endoplasmic reticulum stress. <i>Cell Biology and Toxicology</i> , 2021 , 1	7.4	2
9	Mitochondria: Key Organelle in Parkinson's Disease. <i>Parkinson's Disease</i> , 2016 , 2016, 6230370	2.6	2
8	Neuroprotective properties of queen bee acid by autophagy induction. <i>Cell Biology and Toxicology</i> , 2021 , 1	7.4	2
7	Biological effects of olive oil phenolic compounds on mitochondria.. <i>Molecular and Cellular Oncology</i> , 2022 , 9, 2044263	1.2	2
6	Implication of autophagy in Parkinson's disease. <i>Parkinson's Disease</i> , 2013 , 2013, 436481	2.6	1
5	TH1/TH2 cytokines: an easy model to study gene expression in immune cells. <i>CBE Life Sciences Education</i> , 2006 , 5, 287-95	3.4	1
4	G2019S Mutation of LRRK2 Increases Autophagy via MEK/ERK Pathway 2016 , 123-142		1
3	Control of Autophagy in Parkinson's Disease. <i>Current Topics in Neurotoxicity</i> , 2015 , 91-122		
2	Links Between Paraquat and Parkinson's Disease 2014 , 819-842		
1	Links Between Paraquat and Parkinson's Disease 2021 , 1-19		