

Luis Miguel Martins

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.

43
papers

3,595
citations

28
h-index

50
g-index

50
ext. papers

4,083
ext. citations

8.3
avg, IF

5.36
L-index

#	Paper	IF	Citations
43	Loss of function mutations in the gene encoding Omi/HtrA2 in Parkinson's disease. <i>Human Molecular Genetics</i> , 2005 , 14, 2099-111	5.6	446
42	The serine protease Omi/HtrA2 regulates apoptosis by binding XIAP through a reaper-like motif. <i>Journal of Biological Chemistry</i> , 2002 , 277, 439-44	5.4	412
41	The mitochondrial protease HtrA2 is regulated by Parkinson's disease-associated kinase PINK1. <i>Nature Cell Biology</i> , 2007 , 9, 1243-52	23.4	386
40	Neuroprotective role of the Reaper-related serine protease HtrA2/Omi revealed by targeted deletion in mice. <i>Molecular and Cellular Biology</i> , 2004 , 24, 9848-62	4.8	327
39	PINK1 cleavage at position A103 by the mitochondrial protease PARL. <i>Human Molecular Genetics</i> , 2011 , 20, 867-79	5.6	314
38	Links between air pollution and COVID-19 in England. <i>Environmental Pollution</i> , 2021 , 268, 115859	9.3	211
37	The tumor suppressor RASSF1A and MAP-1 link death receptor signaling to Bax conformational change and cell death. <i>Molecular Cell</i> , 2005 , 18, 637-50	17.6	152
36	Mitochondrial dysfunction triggered by loss of HtrA2 results in the activation of a brain-specific transcriptional stress response. <i>Cell Death and Differentiation</i> , 2009 , 16, 449-64	12.7	137
35	Binding specificity and regulation of the serine protease and PDZ domains of HtrA2/Omi. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49417-27	5.4	99
34	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinson's disease. <i>Nature Cell Biology</i> , 2014 , 16, 157-66	23.4	91
33	Drosophila Trap1 protects against mitochondrial dysfunction in a PINK1/parkin model of Parkinson's disease. <i>Cell Death and Disease</i> , 2013 , 4, e467	9.8	88
32	Mitochondrial quality control and neurological disease: an emerging connection. <i>Expert Reviews in Molecular Medicine</i> , 2010 , 12, e12	6.7	65
31	Drosophila HtrA2 is dispensable for apoptosis but acts downstream of PINK1 independently from Parkin. <i>Cell Death and Differentiation</i> , 2009 , 16, 1118-25	12.7	65
30	Metformin reverses TRAP1 mutation-associated alterations in mitochondrial function in Parkinson's disease. <i>Brain</i> , 2017 , 140, 2444-2459	11.2	59
29	Inhibition of oxidative metabolism leads to p53 genetic inactivation and transformation in neural stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1059-64	11.5	54
28	Modulation of mitochondrial function and morphology by interaction of Omi/HtrA2 with the mitochondrial fusion factor OPA1. <i>Experimental Cell Research</i> , 2010 , 316, 1213-24	4.2	50
27	Links between air pollution and COVID-19 in England		45

26	Mitochondrial quality control and Parkinson's disease: a pathway unfolds. <i>Molecular Neurobiology</i> , 2011 , 43, 80-6	6.2	44
25	Enhancing NAD salvage metabolism is neuroprotective in a PINK1 model of Parkinson's disease. <i>Biology Open</i> , 2017 , 6, 141-147	2.2	42
24	Loss of PINK1 enhances neurodegeneration in a mouse model of Parkinson's disease triggered by mitochondrial stress. <i>Neuropharmacology</i> , 2014 , 77, 350-7	5.5	39
23	Idebenone and resveratrol extend lifespan and improve motor function of HtrA2 knockout mice. <i>PLoS ONE</i> , 2011 , 6, e28855	3.7	39
22	Accumulation of HtrA2/Omi in neuronal and glial inclusions in brains with alpha-synucleinopathies. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 984-93	3.1	39
21	BID-dependent release of mitochondrial SMAC dampens XIAP-mediated immunity against Shigella. <i>EMBO Journal</i> , 2014 , 33, 2171-87	13	37
20	dATF4 regulation of mitochondrial folate-mediated one-carbon metabolism is neuroprotective. <i>Cell Death and Differentiation</i> , 2017 , 24, 638-648	12.7	33
19	Drosophila ref(2)P is required for the parkin-mediated suppression of mitochondrial dysfunction in pink1 mutants. <i>Cell Death and Disease</i> , 2013 , 4, e873	9.8	30
18	MAP4K3 modulates cell death via the post-transcriptional regulation of BH3-only proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11978-83	11.5	30
17	HtrA2 deficiency causes mitochondrial uncoupling through the F1F0 ATP synthase and consequent ATP depletion. <i>Cell Death and Disease</i> , 2012 , 3, e335	9.8	30
16	Phosphorylation of HtrA2 by cyclin-dependent kinase-5 is important for mitochondrial function. <i>Cell Death and Differentiation</i> , 2012 , 19, 257-66	12.7	28
15	Alzheimer's and Parkinson's Diseases Predict Different COVID-19 Outcomes: A UK Biobank Study. <i>Geriatrics (Switzerland)</i> , 2021 , 6,	2.2	25
14	Mitochondrial Stress Signalling: HTRA2 and Parkinson's Disease. <i>International Journal of Cell Biology</i> , 2012 , 2012, 607929	2.6	21
13	Forcing contacts between mitochondria and the endoplasmic reticulum extends lifespan in a model of Alzheimer's disease. <i>Biology Open</i> , 2020 , 9,	2.2	21
12	Nonsyndromic Parkinson disease in a family with autosomal dominant optic atrophy due to mutations. <i>Neurology: Genetics</i> , 2017 , 3, e188	3.8	20
11	Insights into mitochondrial quality control pathways and Parkinson's disease. <i>Journal of Molecular Medicine</i> , 2013 , 91, 665-71	5.5	12
10	Molecular motion regulates the activity of the Mitochondrial Serine Protease HtrA2. <i>Cell Death and Disease</i> , 2017 , 8, e3119	9.8	11
9	Early detection of pre-malignant lesions in a KRAS-driven mouse lung cancer model by monitoring circulating free DNA. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	10

8	Enhancing folic acid metabolism suppresses defects associated with loss of Drosophila mitofusin. <i>Cell Death and Disease</i> , 2019 , 10, 288	9.8	9
7	Mind the Gap: Mitochondria and the Endoplasmic Reticulum in Neurodegenerative Diseases. <i>Biomedicines</i> , 2021 , 9,	4.8	7
6	Parp mutations protect from mitochondrial toxicity in Alzheimer's disease. <i>Cell Death and Disease</i> , 2021 , 12, 651	9.8	6
5	Paracetamol Is Associated with a Lower Risk of COVID-19 Infection and Decreased ACE2 Protein Expression: A Retrospective Analysis. <i>Covid</i> , 2021 , 1, 218-229		4
4	Peptide nucleic acid clamping to improve the sensitivity of Ion Torrent-based detection of an oncogenic mutation in KRAS. <i>Matters</i> ,	0	3
3	Alzheimer's and Parkinson's diseases predict different COVID-19 outcomes, a UK Biobank study		2
2	Combined Transcriptomic and Proteomic Analysis of Perk Toxicity Pathways. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
1	HtrA2 Peptidase 2013 , 2571-2577		