

Luis Miguel Martins

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

4,470
citations

172457

29
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

5382
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of function mutations in the gene encoding Omi/HtrA2 in Parkinson's disease. <i>Human Molecular Genetics</i> , 2005, 14, 2099-2111.	2.9	514
2	The Serine Protease Omi/HtrA2 Regulates Apoptosis by Binding XIAP through a Reaper-like Motif. <i>Journal of Biological Chemistry</i> , 2002, 277, 439-444.	3.4	470
3	The mitochondrial protease HtrA2 is regulated by Parkinson's disease-associated kinase PINK1. <i>Nature Cell Biology</i> , 2007, 9, 1243-1252.	10.3	441
4	Links between air pollution and COVID-19 in England. <i>Environmental Pollution</i> , 2021, 268, 115859.	7.5	400
5	PINK1 cleavage at position A103 by the mitochondrial protease PARL. <i>Human Molecular Genetics</i> , 2011, 20, 867-879.	2.9	385
6	Neuroprotective Role of the Reaper-Related Serine Protease HtrA2/Omi Revealed by Targeted Deletion in Mice. <i>Molecular and Cellular Biology</i> , 2004, 24, 9848-9862.	2.3	367
7	The Tumor Suppressor RASSF1A and MAP-1 Link Death Receptor Signaling to Bax Conformational Change and Cell Death. <i>Molecular Cell</i> , 2005, 18, 637-650.	9.7	166
8	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, 449-464.	11.2	156
9	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinson's disease. <i>Nature Cell Biology</i> , 2014, 16, 157-166.	10.3	119
10	Binding Specificity and Regulation of the Serine Protease and PDZ Domains of HtrA2/Omi. <i>Journal of Biological Chemistry</i> , 2003, 278, 49417-49427.	3.4	116
11	<i>Drosophila</i> Trap1 protects against mitochondrial dysfunction in a PINK1/parkin model of Parkinson's disease. <i>Cell Death and Disease</i> , 2013, 4, e467-e467.	6.3	104
12	<i>Drosophila</i> HtrA2 is dispensable for apoptosis but acts downstream of PINK1 independently from Parkin. <i>Cell Death and Differentiation</i> , 2009, 16, 1118-1125.	11.2	77
13	Metformin reverses TRAP1 mutation-associated alterations in mitochondrial function in Parkinson's disease. <i>Brain</i> , 2017, 140, 2444-2459.	7.6	76
14	Mitochondrial quality control and neurological disease: an emerging connection. <i>Expert Reviews in Molecular Medicine</i> , 2010, 12, e12.	3.9	74
15	Enhancing NAD ⁺ salvage metabolism is neuroprotective in a PINK1 model of Parkinson's disease. <i>Biology Open</i> , 2016, 6, 141-147.	1.2	67
16	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, 1059-1064.	7.1	63
17	Modulation of mitochondrial function and morphology by interaction of Omi/HtrA2 with the mitochondrial fusion factor OPA1. <i>Experimental Cell Research</i> , 2010, 316, 1213-1224.	2.6	57
18	<sc>BID</sc> dependent release of mitochondrial <sc>SMAC</sc> dampens <sc>XIAP</sc> mediated immunity against <i>Shigella</i>. <i>EMBO Journal</i> , 2014, 33, 2171-2187.	7.8	52

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19	The serine protease Omi/HtrA2: a second mammalian protein with a Reaper-like function. <i>Cell Death and Differentiation</i> , 2002, 9, 699-701.	11.2	51
20	Mitochondrial Quality Control and Parkinson's Disease: A Pathway Unfolds. <i>Molecular Neurobiology</i> , 2011, 43, 80-86.	4.0	49
21	Alzheimer's and Parkinson's Diseases Predict Different COVID-19 Outcomes: A UK Biobank Study. <i>Geriatrics (Switzerland)</i> , 2021, 6, 10.	1.7	49
22	Loss of PINK1 enhances neurodegeneration in a mouse model of Parkinson's disease triggered by mitochondrial stress. <i>Neuropharmacology</i> , 2014, 77, 350-357.	4.1	48
23	Idebenone and Resveratrol Extend Lifespan and Improve Motor Function of HtrA2 Knockout Mice. <i>PLoS ONE</i> , 2011, 6, e28855.	2.5	45
24	dATF4 regulation of mitochondrial folate-mediated one-carbon metabolism is neuroprotective. <i>Cell Death and Differentiation</i> , 2017, 24, 638-648.	11.2	45
25	Accumulation of HtrA2/Omi in Neuronal and Glial Inclusions in Brains With α -Synucleinopathies. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2008, 67, 984-993.	1.7	44
26	<i>Drosophila</i> 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-e873.	6.3	36
27	Phosphorylation of HtrA2 by cyclin-dependent kinase-5 is important for mitochondrial function. <i>Cell Death and Differentiation</i> , 2012, 19, 257-266.	11.2	35
28	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, 11978-11983.	7.1	34
29	HtrA2 deficiency causes mitochondrial uncoupling through the F1FO-ATP synthase and consequent ATP depletion. <i>Cell Death and Disease</i> , 2012, 3, e335-e335.	6.3	32
30	Forcing contacts between mitochondria and the endoplasmic reticulum extends lifespan in a <i>Drosophila</i> model of Alzheimer's disease. <i>Biology Open</i> , 2020, 9, .	1.2	31
31	Mitochondrial Stress Signalling: HTRA2 and Parkinson's Disease. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-6.	2.5	28
32	Nonsyndromic Parkinson disease in a family with autosomal dominant optic atrophy due to OPA1 mutations. <i>Neurology: Genetics</i> , 2017, 3, e188.	1.9	27
33	Mind the Gap: Mitochondria and the Endoplasmic Reticulum in Neurodegenerative Diseases. <i>Biomedicines</i> , 2021, 9, 227.	3.2	25
34	Molecular motion regulates the activity of the Mitochondrial Serine Protease HtrA2. <i>Cell Death and Disease</i> , 2017, 8, e3119-e3119.	6.3	21
35	Parp mutations protect from mitochondrial toxicity in Alzheimer's disease. <i>Cell Death and Disease</i> , 2021, 12, 651.	6.3	20
36	Early detection of pre-malignant lesions in a KRASG12D-driven mouse lung cancer model by monitoring circulating free DNA. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	16

#	ARTICLE	IF	CITATIONS
37	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.	1.5	16
38	Insights into mitochondrial quality control pathways and Parkinsonâ€™s disease. <i>Journal of Molecular Medicine</i> , 2013, 91, 665-671.	3.9	13
39	Enhancing folic acid metabolism suppresses defects associated with loss of <i>Drosophila</i> mitofusin. <i>Cell Death and Disease</i> , 2019, 10, 288.	6.3	11
40	Suppression of intestinal dysfunction in a <i>Drosophila</i> model of Parkinsonâ€™s disease is neuroprotective. <i>Nature Aging</i> , 2022, 2, 317-331.	11.6	8
41	Combined Transcriptomic and Proteomic Analysis of Perk Toxicity Pathways. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4598.	4.1	6
42	Peptide nucleic acid clamping to improve the sensitivity of Ion Torrent-based detection of an oncogenic mutation in <i>KRAS</i> . <i>Matters</i> , 0, , .	1.0	5
43	Methods Used to Study Protease Activation During Apoptosis. <i>Frontiers in Neuroscience</i> , 1998, , .	0.0	1
44	HtrA2 Peptidase. , 2013, , 2571-2577.		0