Elena I Rugarli

List of Publications by Year
in descending order

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43 papers	4,461 citations	172457 29 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	5540 citing authors

#	Article	IF	Citations
1	Regulation of OPA1 processing and mitochondrial fusion by m-AAA protease isoenzymes and OMA1. Journal of Cell Biology, 2009, 187, 1023-1036.	5.2	500
2	The m-AAA Protease Defective in Hereditary Spastic Paraplegia Controls Ribosome Assembly in Mitochondria. Cell, 2005, 123, 277-289.	28.9	344
3	Mitochondrial quality control: a matter of life and death for neurons. EMBO Journal, 2012, 31, 1336-1349.	7.8	335
4	Spastin, the protein mutated in autosomal dominant hereditary spastic paraplegia, is involved in microtubule dynamics. Human Molecular Genetics, 2002, 11, 153-163.	2.9	307
5	Axonal degeneration in paraplegin-deficient mice is associated with abnormal mitochondria and impairment of axonal transport. Journal of Clinical Investigation, 2004, 113, 231-242.	8.2	241
6	Whole-Exome Sequencing Identifies Homozygous AFG3L2 Mutations in a Spastic Ataxia-Neuropathy Syndrome Linked to Mitochondrial m-AAA Proteases. PLoS Genetics, 2011, 7, e1002325.	3.5	200
7	Tissue-Specific Loss of DARS2 Activates Stress Responses Independently of Respiratory Chain Deficiency in the Heart. Cell Metabolism, 2014, 19, 458-469.	16.2	185
8	Variable and Tissue-Specific Subunit Composition of Mitochondrial m -AAA Protease Complexes Linked to Hereditary Spastic Paraplegia. Molecular and Cellular Biology, 2007, 27, 758-767.	2.3	172
9	OPA1 Processing Reconstituted in Yeast Depends on the Subunit Composition of the m-AAA Protease in Mitochondria. Molecular Biology of the Cell, 2007, 18, 3582-3590.	2.1	162
10	DNAJC19, a Mitochondrial Cochaperone Associated with Cardiomyopathy, Forms a Complex with Prohibitins to Regulate Cardiolipin Remodeling. Cell Metabolism, 2014, 20, 158-171.	16.2	157
11	Loss of Prohibitin Membrane Scaffolds Impairs Mitochondrial Architecture and Leads to Tau Hyperphosphorylation and Neurodegeneration. PLoS Genetics, 2012, 8, e1003021.	3.5	154
12	The m -AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. Molecular Cell, 2016, 64, 148-162.	9.7	153
13	Axonal degeneration in paraplegin-deficient mice is associated with abnormal mitochondria and impairment of axonal transport. Journal of Clinical Investigation, 2004, 113, 231-242.	8.2	144
14	Spastin interacts with the centrosomal protein NA14, and is enriched in the spindle pole, the midbody and the distal axon. Human Molecular Genetics, 2004, 13, 2121-2132.	2.9	118
15	Loss of OMA1 delays neurodegeneration by preventing stress-induced OPA1 processing in mitochondria. Journal of Cell Biology, 2016, 212, 157-166.	5.2	115
16	Spastin subcellular localization is regulated through usage of different translation start sites and active export from the nucleus. Experimental Cell Research, 2005, 309, 358-369.	2.6	111
17	CLUH regulates mitochondrial biogenesis by binding mRNAs of nuclear-encoded mitochondrial proteins. Journal of Cell Biology, 2014, 207, 213-223.	5.2	111
18	AFG3L2 supports mitochondrial protein synthesis and Purkinje cell survival. Journal of Clinical Investigation, 2012, 122, 4048-4058.	8.2	90

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19	Pleiotropic effects of spastin on neurite growth depending on expression levels. Journal of Neurochemistry, 2009, 108, 1277-1288.	3.9	84
20	Spastin Binds to Lipid Droplets and Affects Lipid Metabolism. PLoS Genetics, 2015, 11, e1005149.	3.5	84
21	CLUH regulates mitochondrial metabolism by controlling translation and decay of target mRNAs. Journal of Cell Biology, 2017, 216, 675-693.	5.2	73
22	The class 3 PI3K coordinates autophagy and mitochondrial lipid catabolism by controlling nuclear receptor PPARÎ±. Nature Communications, 2019, 10, 1566.	12.8	72
23	Loss of the m-AAA protease subunit AFG3L2 causes mitochondrial transport defects and tau hyperphosphorylation. EMBO Journal, 2014, 33, 1011-1026.	7.8	62
24	Genetic interaction between the m -AAA protease isoenzymes reveals novel roles in cerebellar degeneration. Human Molecular Genetics, 2009, 18, 2001-2013.	2.9	55
25	<scp>BID</scp> â€dependent release of mitochondrial <scp>SMAC</scp> dampens <scp>XIAP</scp> â€mediated immunity against Shigella. EMBO Journal, 2014, 33, 2171-2187.	7.8	52
26	Intramuscular viral delivery of paraplegin rescues peripheral axonopathy in a model of hereditary spastic paraplegia. Journal of Clinical Investigation, 2005, 116, 202-208.	8.2	48
27	CLUH granules coordinate translation of mitochondrial proteins with mTORC1 signaling and mitophagy. EMBO Journal, 2020, 39, e102731.	7.8	41
28	A cryptic promoter in the first exon of the SPG4gene directs the synthesis of the 60-kDa spastin isoform. BMC Biology, 2008, 6, 31.	3.8	40
29	Loss of the mitochondrial i â€•<scp>AAA</scp> protease <scp>YME</scp> 1L leads to ocular dysfunction and spinal axonopathy. EMBO Molecular Medicine, 2019, 11, .	6.9	38
30	Astrocyteâ€specific deletion of the mitochondrial mâ€AAA protease reveals glial contribution to neurodegeneration. Glia, 2019, 67, 1526-1541.	4.9	36
31	A concert of RNA-binding proteins coordinates mitochondrial function. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 652-666.	5.2	25
32	Partial deletion of AFG3L2 causing spinocerebellar ataxia type 28. Neurology, 2014, 82, 2092-2100.	1.1	24
33	Metabolic control of adult neural stem cell self-renewal by the mitochondrial protease YME1L. Cell Reports, 2022, 38, 110370.	6.4	24
34	The Mitochondrial m-AAA Protease Prevents Demyelination and Hair Greying. PLoS Genetics, 2016, 12, e1006463.	3.5	23
35	DARS2 protects against neuroinflammation and apoptotic neuronal loss, but is dispensable for myelin producing cells. Human Molecular Genetics, 2017, 26, 4181-4189.	2.9	23
36	Lipid Droplets in the Pathogenesis of Hereditary Spastic Paraplegia. Frontiers in Molecular Biosciences, 2021, 8, 673977.	3.5	13

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37	Alternative Splicing of Spg7, a Gene Involved in Hereditary Spastic Paraplegia, Encodes a Variant of Paraplegin Targeted to the Endoplasmic Reticulum. PLoS ONE, 2012, 7, e36337.	2.5	10
38	Is mitochondrial free radical theory of aging getting old?. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1345-1346.	1.0	9
39	Phosphoproteomics of the developing heart identifies PERM1 - An outer mitochondrial membrane protein. Journal of Molecular and Cellular Cardiology, 2021, 154, 41-59.	1.9	9
40	CLUH controls astrin-1 expression to couple mitochondrial metabolism to cell cycle progression. ELife, 2022, 11, .	6.0	7
41	Microtubule-dependent and independent roles of spastin in lipid droplet dispersion and biogenesis. Life Science Alliance, 2020, 3, e202000715.	2.8	6
42	Post-transcriptional regulation of mitochondrial function. Current Opinion in Physiology, 2018, 3, 6-15.	1.8	2
43	Plant mitochondrial FMT and its mammalian homolog CLUH controls development and behavior in Arabidopsis and locomotion in mice. Cellular and Molecular Life Sciences, 2022, 79, .	5.4	2