Craig Blackstone

List of Publications by Year
in descending order

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101 papers	13,372 citations	44069 48 h-index	37204 96 g-index
105 all docs	105 docs citations	105 times ranked	22395 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Cyclic AMP-dependent Protein Kinase Phosphorylation of Drp1 Regulates Its GTPase Activity and Mitochondrial Morphology. Journal of Biological Chemistry, 2007, 282, 21583-21587.	3.4	652
3	A Class of Dynamin-like GTPases Involved in the Generation of the Tubular ER Network. Cell, 2009, 138, 549-561.	28.9	495
4	Dynamic regulation of mitochondrial fission through modification of the dynaminâ€related protein Drp1. Annals of the New York Academy of Sciences, 2010, 1201, 34-39.	3.8	455
5	Increased spatiotemporal resolution reveals highly dynamic dense tubular matrices in the peripheral ER. Science, 2016, 354, .	12.6	361
6	Hereditary spastic paraplegia proteins REEP1, spastin, and atlastin-1 coordinate microtubule interactions with the tubular ER network. Journal of Clinical Investigation, 2010, 120, 1097-1110.	8.2	327
7	Regulation of GABAA receptor function by protein kinase C phosphorylation. Neuron, 1994, 12, 1081-1095.	8.1	290
8	Cellular Pathways of Hereditary Spastic Paraplegia. Annual Review of Neuroscience, 2012, 35, 25-47.	10.7	258
9	Hereditary spastic paraplegias: membrane traffic and the motor pathway. Nature Reviews Neuroscience, 2011, 12, 31-42.	10.2	257
10	Release of OPA1 during Apoptosis Participates in the Rapid and Complete Release of Cytochrome c and Subsequent Mitochondrial Fragmentation. Journal of Biological Chemistry, 2005, 280, 35742-35750.	3.4	234
11	Structural basis for midbody targeting of spastin by the ESCRT-III protein CHMP1B. Nature Structural and Molecular Biology, 2008, 15, 1278-1286.	8.2	226
12	Bax/Bak-Dependent Release of DDP/TIMM8a Promotes Drp1-Mediated Mitochondrial Fission and Mitoptosis during Programmed Cell Death. Current Biology, 2005, 15, 2112-2118.	3.9	217
13	L166P Mutant DJ-1, Causative for Recessive Parkinson's Disease, Is Degraded through the Ubiquitin-Proteasome System. Journal of Biological Chemistry, 2003, 278, 36588-36595.	3.4	211
14	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
15	Atlastin GTPases are required for Golgi apparatus and ER morphogenesis. Human Molecular Genetics, 2008, 17, 1591-1604.	2.9	190
16	Intra- and Intermolecular Domain Interactions of the C-terminal GTPase Effector Domain of the Multimeric Dynamin-like GTPase Drp1. Journal of Biological Chemistry, 2004, 279, 35967-35974.	3.4	175
17	Spastic paraplegia proteins spastizin and spatacsin mediate autophagic lysosome reformation. Journal of Clinical Investigation, 2014, 124, 5249-5262.	8.2	174
18	SUMOylation of the mitochondrial fission protein Drpl occurs at multiple nonconsensus sites within the B domain and is linked to its activity cycle. FASEB Journal, 2009, 23, 3917-3927.	0.5	166

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19	A Lethal de Novo Mutation in the Middle Domain of the Dynamin-related GTPase Drp1 Impairs Higher Order Assembly and Mitochondrial Division. Journal of Biological Chemistry, 2010, 285, 32494-32503.	3.4	155
20	Untangling the web: Mechanisms underlying ER network formation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2492-2498.	4.1	150
21	Metalloproteaseâ€mediated OPA1 processing is modulated by the mitochondrial membrane potential. Biology of the Cell, 2008, 100, 315-325.	2.0	149
22	Spastin tethers lipid droplets to peroxisomes and directs fatty acid trafficking through ESCRT-III. Journal of Cell Biology, 2019, 218, 2583-2599.	5.2	139
23	Cellular Localization, Oligomerization, and Membrane Association of the Hereditary Spastic Paraplegia 3A (SPG3A) Protein Atlastin. Journal of Biological Chemistry, 2003, 278, 49063-49071.	3.4	130
24	Further assembly required: construction and dynamics of the endoplasmic reticulum network. EMBO Reports, 2010, 11, 515-521.	4.5	130
25	A Conserved Role for Atlastin GTPases in Regulating Lipid Droplet Size. Cell Reports, 2013, 3, 1465-1475.	6.4	128
26	Targeted High-Throughput Sequencing Identifies Mutations in atlastin-1 as a Cause of Hereditary Sensory Neuropathy Type I. American Journal of Human Genetics, 2011, 88, 99-105.	6.2	123
27	Loss of Spastin Function Results in Disease-Specific Axonal Defects in Human Pluripotent Stem Cell-Based Models of Hereditary Spastic Paraplegia. Stem Cells, 2014, 32, 414-423.	3.2	123
28	Hereditary spastic paraplegia. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 148, 633-652.	1.8	112
29	SPG3A protein atlastin-1 is enriched in growth cones and promotes axon elongation during neuronal development. Human Molecular Genetics, 2006, 15, 1343-1353.	2.9	110
30	Converging cellular themes for the hereditary spastic paraplegias. Current Opinion in Neurobiology, 2018, 51, 139-146.	4.2	100
31	Lysosomal abnormalities in hereditary spastic paraplegia types <scp>SPG</scp> 15 and <scp>SPG</scp> 11. Annals of Clinical and Translational Neurology, 2014, 1, 379-389.	3.7	98
32	DNA damage triggers tubular endoplasmic reticulum extension to promote apoptosis by facilitating ER-mitochondria signaling. Cell Research, 2018, 28, 833-854.	12.0	90
33	Troyer Syndrome Protein Spartin Is Mono-Ubiquitinated and Functions in EGF Receptor Trafficking. Molecular Biology of the Cell, 2007, 18, 1683-1692.	2.1	89
34	Loss of AP-5 results in accumulation of aberrant endolysosomes: defining a new type of lysosomal storage disease. Human Molecular Genetics, 2015, 24, 4984-4996.	2.9	80
35	Hereditary Spastic Paraplegia Type 43 (SPG43) is Caused by Mutation inC19orf12. Human Mutation, 2013, 34, 1357-1360.	2.5	79
36	SPG20 Protein Spartin Is Recruited to Midbodies by ESCRT-III Protein Ist1 and Participates in Cytokinesis. Molecular Biology of the Cell, 2010, 21, 3293-3303.	2.1	78

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37	ER proteins decipher the tubulin code to regulate organelle distribution. Nature, 2022, 601, 132-138.	27.8	75
38	Traffic accidents: Molecular genetic insights into the pathogenesis of the hereditary spastic paraplegias. , 2006, 109, 42-56.		73
39	Reep1null mice reveal a converging role for hereditary spastic paraplegia proteins in lipid droplet regulation. Human Molecular Genetics, 2016, 25, ddw315.	2.9	72
40	FAM21 directs SNX27â€“retromer cargoes to the plasma membrane by preventing transport to the Golgi apparatus. Nature Communications, 2016, 7, 10939.	12.8	66
41	Mutation inCPT1CAssociated With Pure Autosomal Dominant Spastic Paraplegia. JAMA Neurology, 2015, 72, 561.	9.0	64
42	Protrudin binds atlastins and endoplasmic reticulum-shaping proteins and regulates network formation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14954-14959.	7.1	60
43	Mitochondria unite to survive. Nature Cell Biology, 2011, 13, 521-522.	10.3	55
44	Exome sequencing and SNP analysis detect novel compound heterozygosity in fatty acid hydroxylase-associated neurodegeneration. European Journal of Human Genetics, 2012, 20, 476-479.	2.8	55
45	Pharmacologic rescue of axon growth defects in a human iPSC model of hereditary spastic paraplegia SPG3A. Human Molecular Genetics, 2014, 23, 5638-5648.	2.9	55
46	Protective LRRK2 R1398H Variant Enhances GTPase and Wnt Signaling Activity. Frontiers in Molecular Neuroscience, 2016, 9, 18.	2.9	55
47	Spg20â^'/â^' mice reveal multimodal functions for Troyer syndrome protein spartin in lipid droplet maintenance, cytokinesis and BMP signaling. Human Molecular Genetics, 2012, 21, 3604-3618.	2.9	54
48	Emerging themes of ER organization in the development and maintenance of axons. Current Opinion in Neurobiology, 2010, 20, 531-537.	4.2	53
49	Mammalian knock out cells reveal prominent roles for atlastin GTPases in ER network morphology. Experimental Cell Research, 2016, 349, 32-44.	2.6	43
50	Lack of Spartin Protein in Troyer Syndrome. Archives of Neurology, 2008, 65, 520.	4.5	40
51	Impaired mitochondrial dynamics underlie axonal defects in hereditary spastic paraplegias. Human Molecular Genetics, 2018, 27, 2517-2530.	2.9	38
52	The Troyer syndrome (SPG20) protein spartin interacts with Eps15. Biochemical and Biophysical Research Communications, 2005, 334, 1042-1048.	2.1	37
53	MITD1 is recruited to midbodies by ESCRT-III and participates in cytokinesis. Molecular Biology of the Cell, 2012, 23, 4347-4361.	2.1	35
54	Complicated spastic paraplegia in patients with AP5Z1 mutations (SPG48). Neurology: Genetics, 2016, 2, e98.	1.9	35

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55	Interaction of the SPG21 protein ACP33/maspardin with the aldehyde dehydrogenase ALDH16A1. Neurogenetics, 2009, 10, 217-228.	1.4	33
56	Atlastin Endoplasmic Reticulum-Shaping Proteins Facilitate Zika Virus Replication. Journal of Virology, 2019, 93, .	3.4	33
57	SUMO wrestling with Drp1 at mitochondria. EMBO Journal, 2013, 32, 1496-1498.	7.8	32
58	Neuronal Cx3cr1 Deficiency Protects against Amyloid Î²-Induced Neurotoxicity. PLoS ONE, 2015, 10, e0127730.	2.5	26
59	Chronic Dengue Virus Panencephalitis in a Patient with Progressive Dementia with Extrapyramidal Features. Annals of Neurology, 2019, 86, 695-703.	5.3	24
60	Caspases indirectly regulate cleavage of the mitochondrial fusion GTPase OPA1 in neurons undergoing apoptosis. Brain Research, 2009, 1250, 63-74.	2.2	23
61	Targeted disruption of the Mast syndrome gene SPG21 in mice impairs hind limb function and alters axon branching in cultured cortical neurons. Neurogenetics, 2010, 11, 369-378.	1.4	23
62	Postsynaptic calcium signaling microdomains in neurons. Frontiers in Bioscience - Landmark, 2002, 7, d872-885.	3.0	21
63	ER morphology and endo-lysosomal crosstalk: Functions and disease implications. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158544.	2.4	21
64	Spastin-Interacting Protein NA14/SSNA1 Functions in Cytokinesis and Axon Development. PLoS ONE, 2014, 9, e112428.	2.5	20
65	Clueless/CLUH regulates mitochondrial fission by promoting recruitment of Drp1 to mitochondria. Nature Communications, 2022, 13, 1582.	12.8	20
66	STAM Adaptor Proteins Interact with COPII Complexes and Function in ERâ€toâ€Golgi Trafficking. Traffic, 2009, 10, 201-217.	2.7	19
67	Multigeneration family with dominant SPG30 hereditary spastic paraplegia. Annals of Clinical and Translational Neurology, 2017, 4, 821-824.	3.7	19
68	Infantile parkinsonism-dystonia: a dopamine â€œtransportopathyâ€• Journal of Clinical Investigation, 2009, 119, 1455-8.	8.2	19
69	N-terminal cleavage of the mitochondrial fusion GTPase OPA1 occurs via a caspase-independent mechanism in cerebellar granule neurons exposed to oxidative or nitrosative stress. Brain Research, 2013, 1494, 28-43.	2.2	18
70	Characterization of a novel SPG3A deletion in a French-Canadian family. Annals of Neurology, 2007, 61, 599-603.	5.3	17
71	Hereditary spastic paraplegia SPG8 mutations impair CAV1-dependent, integrin-mediated cell adhesion. Science Signaling, 2020, 13, .	3.6	17
72	Impaired lipid metabolism in astrocytes underlies degeneration of cortical projection neurons in hereditary spastic paraplegia. Acta Neuropathologica Communications, 2020, 8, 214.	5.2	17

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73	A novel mutation in KIF5A in a Malian family with spastic paraplegia and sensory loss. Annals of Clinical and Translational Neurology, 2017, 4, 272-275.	3.7	16
74	Clinical Trial Designs and Measures in Hereditary Spastic Paraplegias. Frontiers in Neurology, 2018, 9, 1017.	2.4	16
75	Interaction of the deafnessâ€“dystonia protein DDP/TIMM8a with the signal transduction adaptor molecule STAM1. Biochemical and Biophysical Research Communications, 2003, 305, 345-352.	2.1	15
76	Ataxia with oculomotor apraxia type 2 fibroblasts exhibit increased susceptibility to oxidative DNA damage. Journal of Clinical Neuroscience, 2014, 21, 1627-1631.	1.5	15
77	Srv2 Is a Pro-fission Factor that Modulates Yeast Mitochondrial Morphology and Respiration by Regulating Actin Assembly. IScience, 2019, 11, 305-317.	4.1	15
78	Neurologic syndrome associated with homozygous mutation at <scp>MAG</scp> sialic acid binding site. Annals of Clinical and Translational Neurology, 2016, 3, 650-654.	3.7	13
79	Roles for the VCP co-factors Npl4 and Ufd1 in neuronal function in Drosophila melanogaster. Journal of Genetics and Genomics, 2017, 44, 493-501.	3.9	12
80	Novel Compound Heterozygous Spatacsin Mutations in a Greek Kindred with Hereditary Spastic Paraplegia SPG11 and Dementia. Neurodegenerative Diseases, 2016, 16, 373-381.	1.4	11
81	OUP accepted manuscript. Brain, 2022, , .	7.6	11
82	Transverse endoplasmic reticulum expansion in hereditary spastic paraplegia corticospinal axons. Human Molecular Genetics, 2022, 31, 2779-2795.	2.9	11
83	Laing distal myopathy pathologically resembling inclusion body myositis. Annals of Clinical and Translational Neurology, 2014, 1, 1053-1058.	3.7	10
84	De novo REEP2 missense mutation in pure hereditary spastic paraplegia. Annals of Clinical and Translational Neurology, 2017, 4, 347-350.	3.7	9
85	Loss of the Mitochondrial Fission GTPase Drp1 Contributes to Neurodegeneration in a Drosophila Model of Hereditary Spastic Paraplegia. Brain Sciences, 2020, 10, 646.	2.3	9
86	Earlyâ€onset hereditary spastic paraplegia: the possibility of a genetic diagnosis. Developmental Medicine and Child Neurology, 2020, 62, 1011-1011.	2.1	9
87	Expanding the Spectrum of <scp>AP5Z1â€</scp>Related Hereditary Spastic Paraplegia (<scp>HSPâ€SPG48</scp>): A Multicenter Study on a Rare Disease. Movement Disorders, 2021, 36, 1034-1038.	3.9	9
88	Huntington's disease: from disease mechanisms to therapies. Drug Discovery Today, 2014, 19, 949-950.	6.4	7
89	Keeping in shape. ELife, 2016, 5, .	6.0	7
90	Rab10 joins the ER social network. Nature Cell Biology, 2013, 15, 135-136.	10.3	6

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91	SCA8 should not be tested in isolation for ataxia. Neurology: Genetics, 2017, 3, e150.	1.9	5
92	Infantile parkinsonism-dystonia due to dopamine transporter gene mutations: another genetic twist. Lancet Neurology, The, 2011, 10, 24-25.	10.2	3
93	Murine Models of Autosomal Recessive Hereditary Spastic Paraplegia. , 2015, , 1087-1093.		3
94	KIF1BÎ² and Neuroblastoma: Failure to Divide and Cull. Developmental Cell, 2016, 36, 127-128.	7.0	3
95	Liver X receptor-agonist treatment rescues degeneration in a Drosophila model of hereditary spastic paraplegia. Acta Neuropathologica Communications, 2022, 10, 40.	5.2	3
96	ER Morphology: Sculpting with XendoU. Current Biology, 2014, 24, R1170-R1172.	3.9	2
97	Nonalcoholic Fatty Liver Disease in Patients with Inherited and Sporadic Motor Neuron Degeneration. Genes, 2022, 13, 936.	2.4	2
98	Protein Targeting: ER Leads the Way to the Inner Nuclear Envelope. Current Biology, 2017, 27, R1284-R1286.	3.9	1
99	The Neuron: Cell and Molecular Biology. Archives of Neurology, 2003, 60, 901.	4.5	0
100	Hereditary Spastic Paraplegias. , 2015, , 1063-1071.		0
101	A Larger BAT Improves Metabolism but Whiffs on Safety. EBioMedicine, 2017, 24, 9-10.	6.1	0