Serena Carra

List of Publications by Year
in descending order

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69 papers	13,074 citations	66234 42 h-index	95083 68 g-index
76 all docs	76 docs citations	76 times ranked	23742 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. EMBO Journal, 2017, 36, 1669-1687.	3.5	370
4	Structural and Functional Diversities between Members of the Human HSPB, HSPH, HSPA, and DNAJ Chaperone Families. Biochemistry, 2008, 47, 7001-7011.	1.2	327
5	HspB8 Chaperone Activity toward Poly(Q)-containing Proteins Depends on Its Association with Bag3, a Stimulator of Macroautophagy. Journal of Biological Chemistry, 2008, 283, 1437-1444.	1.6	306
6	The small heat shock protein B8 (HspB8) promotes autophagic removal of misfolded proteins involved in amyotrophic lateral sclerosis (ALS). Human Molecular Genetics, 2010, 19, 3440-3456.	1.4	303
7	A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. Molecular Cell, 2016, 63, 796-810.	4.5	244
8	HspB8 and Bag3: A new chaperone complex targeting misfolded proteins to macroautophagy. Autophagy, 2008, 4, 237-239.	4.3	214
9	Identification of the key structural motifs involved in HspB8/HspB6â€“Bag3 interaction. Biochemical Journal, 2010, 425, 245-257.	1.7	161
10	HspB8, a small heat shock protein mutated in human neuromuscular disorders, has in vivo chaperone activity in cultured cells. Human Molecular Genetics, 2005, 14, 1659-1669.	1.4	159
11	The growing world of small heat shock proteins: from structure to functions. Cell Stress and Chaperones, 2017, 22, 601-611.	1.2	158
12	HSPB7 is the most potent polyQ aggregation suppressor within the HSPB family of molecular chaperones. Human Molecular Genetics, 2010, 19, 4677-4693.	1.4	146
13	Inhibition of autophagy, lysosome and VCP function impairs stress granule assembly. Cell Death and Differentiation, 2014, 21, 1838-1851.	5.0	132
14	BAG3 induces the sequestration of proteasomal clients into cytoplasmic puncta. Autophagy, 2014, 10, 1603-1621.	4.3	131
15	HspB8 Participates in Protein Quality Control by a Non-chaperone-like Mechanism That Requires eIF2Î± Phosphorylation. Journal of Biological Chemistry, 2009, 284, 5523-5532.	1.6	109
16	Granulostasis: Protein Quality Control of RNP Granules. Frontiers in Molecular Neuroscience, 2017, 10, 84.	1.4	108
17	Emerging roles of molecular chaperones and co-chaperones in selective autophagy: focus on BAG proteins. Journal of Molecular Medicine, 2011, 89, 1175-1182.	1.7	102
18	Barcoding heat shock proteins to human diseases: looking beyond the heat shock response. DMM Disease Models and Mechanisms, 2014, 7, 421-434.	1.2	100

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19	A role of small heat shock protein B8 (HspB8) in the autophagic removal of misfolded proteins responsible for neurodegenerative diseases. Autophagy, 2010, 6, 958-960.	4.3	97
20	Identification of the Drosophila Ortholog of HSPB8. Journal of Biological Chemistry, 2010, 285, 37811-37822.	1.6	79
21	Transcriptional induction of the heat shock protein B8 mediates the clearance of misfolded proteins responsible for motor neuron diseases. Scientific Reports, 2016, 6, 22827.	1.6	78
22	The HSPB8â€BAG3 chaperone complex is upregulated in astrocytes in the human brain affected by protein aggregation diseases. Neuropathology and Applied Neurobiology, 2012, 38, 39-53.	1.8	76
23	The family of mammalian small heat shock proteins (HSPBs): Implications in protein deposit diseases and motor neuropathies. International Journal of Biochemistry and Cell Biology, 2012, 44, 1657-1669.	1.2	75
24	Quality Control of Membraneless Organelles. Journal of Molecular Biology, 2018, 430, 4711-4729.	2.0	75
25	The chaperone HSPB8 reduces the accumulation of truncated TDP-43 species in cells and protects against TDP-43-mediated toxicity. Human Molecular Genetics, 2016, 25, 3908-3924.	1.4	72
26	Different anti-aggregation and pro-degradative functions of the members of the mammalian sHSP family in neurological disorders. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20110409.	1.8	71
27	The small heat shock protein B8 (HSPB8) efficiently removes aggregating species of dipeptides produced in C9ORF72-related neurodegenerative diseases. Cell Stress and Chaperones, 2018, 23, 1-12.	1.2	69
28	Alteration of protein folding and degradation in motor neuron diseases: Implications and protective functions of small heat shock proteins. Progress in Neurobiology, 2012, 97, 83-100.	2.8	66
29	Myopathy associated BAG3 mutations lead to protein aggregation by stalling Hsp70 networks. Nature Communications, 2018, 9, 5342.	5.8	65
30	Inhibition of retrograde transport modulates misfolded protein accumulation and clearance in motoneuron diseases. Autophagy, 2017, 13, 1280-1303.	4.3	62
31	The landscape of molecular chaperones across human tissues reveals a layered architecture of core and variable chaperones. Nature Communications, 2021, 12, 2180.	5.8	62
32	BAG3 Directly Interacts with Mutated alphaB-Crystallin to Suppress Its Aggregation and Toxicity. PLoS ONE, 2011, 6, e16828.	1.1	62
33	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. EMBO Journal, 2019, 38, e101341.	3.5	58
34	Clearance of the mutant androgen receptor in motoneuronal models of spinal and bulbar muscular atrophy. Neurobiology of Aging, 2013, 34, 2585-2603.	1.5	57
35	The stress-inducible HspB8-Bag3 complex induces the eIF2Î± kinase pathway: Implications for protein quality control and viral factory degradation?. Autophagy, 2009, 5, 428-429.	4.3	55
36	The Role of the Heat Shock Protein B8 (HSPB8) in Motoneuron Diseases. Frontiers in Molecular Neuroscience, 2017, 10, 176.	1.4	54

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37	Differential autophagy power in the spinal cord and muscle of transgenic ALS mice. Frontiers in Cellular Neuroscience, 2013, 7, 234.	1.8	53
38	Modulation of glutamate receptors in response to the novel antipsychotic olanzapine in rats. Biological Psychiatry, 2001, 50, 117-122.	0.7	50
39	Chronic treatment with desipramine and fluoxetine modulate BDNF, CaMKKÎ± and CaMKKÎ² mRNA levels in the hippocampus of transgenic mice expressing antisense RNA against the glucocorticoid receptor. Neuropharmacology, 2004, 47, 1062-1069.	2.0	50
40	Tdp-25 Routing to Autophagy and Proteasome Ameliorates its Aggregation in Amyotrophic Lateral Sclerosis Target Cells. Scientific Reports, 2018, 8, 12390.	1.6	50
41	Small heat shock proteins, protein degradation and protein aggregation diseases. Autophagy, 2011, 7, 101-103.	4.3	46
42	Specific protein homeostatic functions of small heatâ€shock proteins increase lifespan. Aging Cell, 2016, 15, 217-226.	3.0	45
43	Proteostasis and ALS: protocol for a phase II, randomised, double-blind, placebo-controlled, multicentre clinical trial for colchicine in ALS (Co-ALS). BMJ Open, 2019, 9, e028486.	0.8	44
44	Aberrant Compartment Formation by HSPB2 Mislocalizes Lamin A and Compromises Nuclear Integrity and Function. Cell Reports, 2017, 20, 2100-2115.	2.9	43
45	The small heat shock protein B8 (HSPB8) modulates proliferation and migration of breast cancer cells. Oncotarget, 2017, 8, 10400-10415.	0.8	42
46	HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. ELife, 2021, 10, .	2.8	42
47	Hsp90â€mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. EMBO Reports, 2021, 22, e51740.	2.0	41
48	ALS and FTD: Where RNA metabolism meets protein quality control. Seminars in Cell and Developmental Biology, 2020, 99, 183-192.	2.3	39
49	Altered Regulation of CREB by Chronic Antidepressant Administration in the Brain of Transgenic Mice with Impaired Glucocorticoid Receptor Function. Neuropsychopharmacology, 2002, 26, 605-614.	2.8	37
50	The Regulation of the Autophagic Network and Its Implications for Human Disease. International Journal of Biological Sciences, 2013, 9, 1121-1133.	2.6	33
51	Abnormal interaction of motor neuropathy-associated mutant HspB8 (Hsp22) forms with the RNA helicase Ddx20 (gemin3). Cell Stress and Chaperones, 2010, 15, 567-582.	1.2	32
52	The Role of the Protein Quality Control System in SBMA. Journal of Molecular Neuroscience, 2016, 58, 348-364.	1.1	32
53	BAG3 Pro209 mutants associated with myopathy and neuropathy relocate chaperones of the CASA-complex to aggresomes. Scientific Reports, 2020, 10, 8755.	1.6	32
54	Cloning of mouse Ca2+/calmodulin-dependent protein kinase kinase beta (CaMKKÎ²) and characterization of CaMKKÎ² and CaMKKÎ± distribution in the adult mouse brain. Molecular Brain Research, 2003, 111, 216-221.	2.5	27

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55	The Regulation of the Small Heat Shock Protein B8 in Misfolding Protein Diseases Causing Motoneuronal and Muscle Cell Death. Frontiers in Neuroscience, 2019, 13, 796.	1.4	23
56	An interaction study in mammalian cells demonstrates weak binding of HSPB2 to BAG3, which is regulated by HSPB3 and abrogated by HSPB8. Cell Stress and Chaperones, 2017, 22, 531-540.	1.2	22
57	Autophagic and Proteasomal Mediated Removal of Mutant Androgen Receptor in Muscle Models of Spinal and Bulbar Muscular Atrophy. Frontiers in Endocrinology, 2019, 10, 569.	1.5	22
58	Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. Cell Death and Disease, 2021, 12, 452.	2.7	16
59	Nucleolus: A Liquid Droplet Compartment for Misbehaving Proteins. Current Biology, 2019, 29, R930-R932.	1.8	10
60	Nucleoli and Promyelocytic Leukemia Protein (PML) bodies are phase separated nuclear protein quality control compartments for misfolded proteins. Molecular and Cellular Oncology, 2019, 6, e1415624.	0.3	10
61	BAG3 and BAG6 differentially affect the dynamics of stress granules by targeting distinct subsets of defective polypeptides released from ribosomes. Cell Stress and Chaperones, 2020, 25, 1045-1058.	1.2	7
62	Protein products of nonstop mRNA disrupt nucleolar homeostasis. Cell Stress and Chaperones, 2021, 26, 549-561.	1.2	7
63	Studying heat shock proteins through single-molecule mechanical manipulation. Cell Stress and Chaperones, 2020, 25, 615-628.	1.2	5
64	Targeted protein degradation: from small molecules to complex organellesâ€”a Keystone Symposia report. Annals of the New York Academy of Sciences, 2022, 1510, 79-99.	1.8	5
65	RNA Molecular Signature Profiling in PBMCs of Sporadic ALS Patients: HSP70 Overexpression Is Associated with Nuclear SOD1. Cells, 2022, 11, 293.	1.8	5
66	Pathogenic variants of Valosinâ€containing protein induce lysosomal damage and transcriptional activation of autophagy regulators in neuronal cells. Neuropathology and Applied Neurobiology, 2022, 48, e12818.	1.8	5
67	Role of HSPB8 in the Proteostasis Network: From Protein Synthesis to Protein Degradation and Beyond. Heat Shock Proteins, 2015, , 487-510.	0.2	0
68	Molecular Chaperones Regulating the Dynamics, Composition and Functionality of RNP Granules: Implications for Age-Related Diseases. Heat Shock Proteins, 2018, , 205-222.	0.2	0
69	Role of HspB1 and HspB8 in Hereditary Peripheral Neuropathies: Beyond the Chaperone Function. , 2008, , 139-155.		0