

Serena Carra

List of Publications by Year in descending order

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69
papers

13,074
citations

66343

42
h-index

95266

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). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. <i>EMBO Journal</i> , 2017, 36, 1669-1687.	7.8	370
4	Structural and Functional Diversities between Members of the Human HSPB, HSPH, HSPA, and DNAJ Chaperone Families. <i>Biochemistry</i> , 2008, 47, 7001-7011.	2.5	327
5	HspB8 Chaperone Activity toward Poly(Q)-containing Proteins Depends on Its Association with Bag3, a Stimulator of Macroautophagy. <i>Journal of Biological Chemistry</i> , 2008, 283, 1437-1444.	3.4	306
6	The small heat shock protein B8 (HspB8) promotes autophagic removal of misfolded proteins involved in amyotrophic lateral sclerosis (ALS). <i>Human Molecular Genetics</i> , 2010, 19, 3440-3456.	2.9	303
7	A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. <i>Molecular Cell</i> , 2016, 63, 796-810.	9.7	244
8	HspB8 and Bag3: A new chaperone complex targeting misfolded proteins to macroautophagy. <i>Autophagy</i> , 2008, 4, 237-239.	9.1	214
9	Identification of the key structural motifs involved in HspB8/HspB8-Bag3 interaction. <i>Biochemical Journal</i> , 2010, 425, 245-257.	3.7	161
10	HspB8, a small heat shock protein mutated in human neuromuscular disorders, has in vivo chaperone activity in cultured cells. <i>Human Molecular Genetics</i> , 2005, 14, 1659-1669.	2.9	159
11	The growing world of small heat shock proteins: from structure to functions. <i>Cell Stress and Chaperones</i> , 2017, 22, 601-611.	2.9	158
12	HSPB7 is the most potent polyQ aggregation suppressor within the HSPB family of molecular chaperones. <i>Human Molecular Genetics</i> , 2010, 19, 4677-4693.	2.9	146
13	Inhibition of autophagy, lysosome and VCP function impairs stress granule assembly. <i>Cell Death and Differentiation</i> , 2014, 21, 1838-1851.	11.2	132
14	BAG3 induces the sequestration of proteasomal clients into cytoplasmic puncta. <i>Autophagy</i> , 2014, 10, 1603-1621.	9.1	131
15	HspB8 Participates in Protein Quality Control by a Non-chaperone-like Mechanism That Requires eIF2 γ Phosphorylation. <i>Journal of Biological Chemistry</i> , 2009, 284, 5523-5532.	3.4	109
16	Granulostasis: Protein Quality Control of RNP Granules. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 84.	2.9	108
17	Emerging roles of molecular chaperones and co-chaperones in selective autophagy: focus on BAG proteins. <i>Journal of Molecular Medicine</i> , 2011, 89, 1175-1182.	3.9	102
18	Barcoding heat shock proteins to human diseases: looking beyond the heat shock response. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 421-434.	2.4	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. <i>Autophagy</i> , 2010, 6, 958-960.	9.1	97
20	Identification of the Drosophila Ortholog of HSPB8. <i>Journal of Biological Chemistry</i> , 2010, 285, 37811-37822.	3.4	79
21	Transcriptional induction of the heat shock protein B8 mediates the clearance of misfolded proteins responsible for motor neuron diseases. <i>Scientific Reports</i> , 2016, 6, 22827.	3.3	78
22	The HSPB8-BAG3 chaperone complex is upregulated in astrocytes in the human brain affected by protein aggregation diseases. <i>Neuropathology and Applied Neurobiology</i> , 2012, 38, 39-53.	3.2	76
23	The family of mammalian small heat shock proteins (HSPBs): Implications in protein deposit diseases and motor neuropathies. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1657-1669.	2.8	75
24	Quality Control of Membraneless Organelles. <i>Journal of Molecular Biology</i> , 2018, 430, 4711-4729.	4.2	75
25	The chaperone HSPB8 reduces the accumulation of truncated TDP-43 species in cells and protects against TDP-43-mediated toxicity. <i>Human Molecular Genetics</i> , 2016, 25, 3908-3924.	2.9	72
26	Different anti-aggregation and pro-degradative functions of the members of the mammalian sHSP family in neurological disorders. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20110409.	4.0	71
27	The small heat shock protein B8 (HSPB8) efficiently removes aggregating species of dipeptides produced in C9ORF72-related neurodegenerative diseases. <i>Cell Stress and Chaperones</i> , 2018, 23, 1-12.	2.9	69
28	Alteration of protein folding and degradation in motor neuron diseases: Implications and protective functions of small heat shock proteins. <i>Progress in Neurobiology</i> , 2012, 97, 83-100.	5.7	66
29	Myopathy associated BAG3 mutations lead to protein aggregation by stalling Hsp70 networks. <i>Nature Communications</i> , 2018, 9, 5342.	12.8	65
30	Inhibition of retrograde transport modulates misfolded protein accumulation and clearance in motoneuron diseases. <i>Autophagy</i> , 2017, 13, 1280-1303.	9.1	62
31	The landscape of molecular chaperones across human tissues reveals a layered architecture of core and variable chaperones. <i>Nature Communications</i> , 2021, 12, 2180.	12.8	62
32	BAG3 Directly Interacts with Mutated alphaB-Crystallin to Suppress Its Aggregation and Toxicity. <i>PLoS ONE</i> , 2011, 6, e16828.	2.5	62
33	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. <i>EMBO Journal</i> , 2019, 38, e101341.	7.8	58
34	Clearance of the mutant androgen receptor in motoneuronal models of spinal and bulbar muscular atrophy. <i>Neurobiology of Aging</i> , 2013, 34, 2585-2603.	3.1	57
35	The stress-inducible HspB8-Bag3 complex induces the eIF2 γ kinase pathway: Implications for protein quality control and viral factory degradation?. <i>Autophagy</i> , 2009, 5, 428-429.	9.1	55
36	The Role of the Heat Shock Protein B8 (HSPB8) in Motoneuron Diseases. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 176.	2.9	54

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37	Differential autophagy power in the spinal cord and muscle of transgenic ALS mice. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 234.	3.7	53
38	Modulation of glutamate receptors in response to the novel antipsychotic olanzapine in rats. <i>Biological Psychiatry</i> , 2001, 50, 117-122.	1.3	50
39	Chronic treatment with desipramine and fluoxetine modulate BDNF, CaMKK β and CaMKK δ mRNA levels in the hippocampus of transgenic mice expressing antisense RNA against the glucocorticoid receptor. <i>Neuropharmacology</i> , 2004, 47, 1062-1069.	4.1	50
40	Tdp-25 Routing to Autophagy and Proteasome Ameliorates its Aggregation in Amyotrophic Lateral Sclerosis Target Cells. <i>Scientific Reports</i> , 2018, 8, 12390.	3.3	50
41	Small heat shock proteins, protein degradation and protein aggregation diseases. <i>Autophagy</i> , 2011, 7, 101-103.	9.1	46
42	Specific protein homeostatic functions of small heat shock proteins increase lifespan. <i>Aging Cell</i> , 2016, 15, 217-226.	6.7	45
43	Proteostasis and ALS: protocol for a phase II, randomised, double-blind, placebo-controlled, multicentre clinical trial for colchicine in ALS (Co-ALS). <i>BMJ Open</i> , 2019, 9, e028486.	1.9	44
44	Aberrant Compartment Formation by HSPB2 Mislocalizes Lamin A and Compromises Nuclear Integrity and Function. <i>Cell Reports</i> , 2017, 20, 2100-2115.	6.4	43
45	The small heat shock protein B8 (HSPB8) modulates proliferation and migration of breast cancer cells. <i>Oncotarget</i> , 2017, 8, 10400-10415.	1.8	42
46	HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. <i>ELife</i> , 2021, 10, .	6.0	42
47	Hsp90 α -mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. <i>EMBO Reports</i> , 2021, 22, e51740.	4.5	41
48	ALS and FTD: Where RNA metabolism meets protein quality control. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 183-192.	5.0	39
49	Altered Regulation of CREB by Chronic Antidepressant Administration in the Brain of Transgenic Mice with Impaired Glucocorticoid Receptor Function. <i>Neuropsychopharmacology</i> , 2002, 26, 605-614.	5.4	37
50	The Regulation of the Autophagic Network and Its Implications for Human Disease. <i>International Journal of Biological Sciences</i> , 2013, 9, 1121-1133.	6.4	33
51	Abnormal interaction of motor neuropathy-associated mutant HspB8 (Hsp22) forms with the RNA helicase Ddx20 (gemin3). <i>Cell Stress and Chaperones</i> , 2010, 15, 567-582.	2.9	32
52	The Role of the Protein Quality Control System in SBMA. <i>Journal of Molecular Neuroscience</i> , 2016, 58, 348-364.	2.3	32
53	BAG3 Pro209 mutants associated with myopathy and neuropathy relocate chaperones of the CASA-complex to aggresomes. <i>Scientific Reports</i> , 2020, 10, 8755.	3.3	32
54	Cloning of mouse Ca ²⁺ /calmodulin-dependent protein kinase kinase beta (CaMKK β) and characterization of CaMKK β and CaMKK δ distribution in the adult mouse brain. <i>Molecular Brain Research</i> , 2003, 111, 216-221.	2.3	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. <i>Frontiers in Neuroscience</i> , 2019, 13, 796.	2.8	23
56	An interaction study in mammalian cells demonstrates weak binding of HSPB2 to BAG3, which is regulated by HSPB3 and abrogated by HSPB8. <i>Cell Stress and Chaperones</i> , 2017, 22, 531-540.	2.9	22
57	Autophagic and Proteasomal Mediated Removal of Mutant Androgen Receptor in Muscle Models of Spinal and Bulbar Muscular Atrophy. <i>Frontiers in Endocrinology</i> , 2019, 10, 569.	3.5	22
58	Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. <i>Cell Death and Disease</i> , 2021, 12, 452.	6.3	16
59	Nucleolus: A Liquid Droplet Compartment for Misbehaving Proteins. <i>Current Biology</i> , 2019, 29, R930-R932.	3.9	10
60	Nucleoli and Promyelocytic Leukemia Protein (PML) bodies are phase separated nuclear protein quality control compartments for misfolded proteins. <i>Molecular and Cellular Oncology</i> , 2019, 6, e1415624.	0.7	10
61	BAG3 and BAG6 differentially affect the dynamics of stress granules by targeting distinct subsets of defective polypeptides released from ribosomes. <i>Cell Stress and Chaperones</i> , 2020, 25, 1045-1058.	2.9	7
62	Protein products of nonstop mRNA disrupt nucleolar homeostasis. <i>Cell Stress and Chaperones</i> , 2021, 26, 549-561.	2.9	7
63	Studying heat shock proteins through single-molecule mechanical manipulation. <i>Cell Stress and Chaperones</i> , 2020, 25, 615-628.	2.9	5
64	Targeted protein degradation: from small molecules to complex organelles—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1510, 79-99.	3.8	5
65	RNA Molecular Signature Profiling in PBMCs of Sporadic ALS Patients: HSP70 Overexpression Is Associated with Nuclear SOD1. <i>Cells</i> , 2022, 11, 293.	4.1	5
66	Pathogenic variants of Valosin-containing protein induce lysosomal damage and transcriptional activation of autophagy regulators in neuronal cells. <i>Neuropathology and Applied Neurobiology</i> , 2022, 48, e12818.	3.2	5
67	Role of HSPB8 in the Proteostasis Network: From Protein Synthesis to Protein Degradation and Beyond. <i>Heat Shock Proteins</i> , 2015, , 487-510.	0.2	0
68	Molecular Chaperones Regulating the Dynamics, Composition and Functionality of RNP Granules: Implications for Age-Related Diseases. <i>Heat Shock Proteins</i> , 2018, , 205-222.	0.2	0
69	Role of HspB1 and HspB8 in Hereditary Peripheral Neuropathies: Beyond the Chaperone Function. , 2008, , 139-155.		0