

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
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76
all docs

76
docs citations

76
times ranked

23742
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeted protein degradation: from small molecules to complex organellesâ€”a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2022, 1510, 79-99.	1.8	5
2	RNA Molecular Signature Profiling in PBMCs of Sporadic ALS Patients: HSP70 Overexpression Is Associated with Nuclear SOD1. <i>Cells</i> , 2022, 11, 293.	1.8	5
3	Pathogenic variants of Valosinâ€”containing protein induce lysosomal damage and transcriptional activation of autophagy regulators in neuronal cells. <i>Neuropathology and Applied Neurobiology</i> , 2022, 48, e12818.	1.8	5
4	Protein products of nonstop mRNA disrupt nucleolar homeostasis. <i>Cell Stress and Chaperones</i> , 2021, 26, 549-561.	1.2	7
5	Hsp90â€”mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. <i>EMBO Reports</i> , 2021, 22, e51740.	2.0	41
6	The landscape of molecular chaperones across human tissues reveals a layered architecture of core and variable chaperones. <i>Nature Communications</i> , 2021, 12, 2180.	5.8	62
7	Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. <i>Cell Death and Disease</i> , 2021, 12, 452.	2.7	16
8	HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. <i>ELife</i> , 2021, 10, .	2.8	42
9	ALS and FTD: Where RNA metabolism meets protein quality control. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 183-192.	2.3	39
10	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.	1.2	7
11	BAG3 Pro209 mutants associated with myopathy and neuropathy relocate chaperones of the CASA-complex to aggresomes. <i>Scientific Reports</i> , 2020, 10, 8755.	1.6	32
12	Studying heat shock proteins through single-molecule mechanical manipulation. <i>Cell Stress and Chaperones</i> , 2020, 25, 615-628.	1.2	5
13	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.	1.4	23
14	Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. <i>EMBO Journal</i> , 2019, 38, e101341.	3.5	58
15	Nucleolus: A Liquid Droplet Compartment for Misbehaving Proteins. <i>Current Biology</i> , 2019, 29, R930-R932.	1.8	10
16	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.	0.3	10
17	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.	1.5	22
18	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.	0.8	44

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19	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.	1.2	69
20	Myopathy associated BAG3 mutations lead to protein aggregation by stalling Hsp70 networks. <i>Nature Communications</i> , 2018, 9, 5342.	5.8	65
21	Quality Control of Membraneless Organelles. <i>Journal of Molecular Biology</i> , 2018, 430, 4711-4729.	2.0	75
22	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
23	Tdp-25 Routing to Autophagy and Proteasome Ameliorates its Aggregation in Amyotrophic Lateral Sclerosis Target Cells. <i>Scientific Reports</i> , 2018, 8, 12390.	1.6	50
24	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.	1.2	22
25	Inhibition of retrograde transport modulates misfolded protein accumulation and clearance in motoneuron diseases. <i>Autophagy</i> , 2017, 13, 1280-1303.	4.3	62
26	An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. <i>EMBO Journal</i> , 2017, 36, 1669-1687.	3.5	370
27	The growing world of small heat shock proteins: from structure to functions. <i>Cell Stress and Chaperones</i> , 2017, 22, 601-611.	1.2	158
28	Aberrant Compartment Formation by HSPB2 Mislocalizes Lamin A and Compromises Nuclear Integrity and Function. <i>Cell Reports</i> , 2017, 20, 2100-2115.	2.9	43
29	The small heat shock protein B8 (HSPB8) modulates proliferation and migration of breast cancer cells. <i>Oncotarget</i> , 2017, 8, 10400-10415.	0.8	42
30	Granulostasis: Protein Quality Control of RNP Granules. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 84.	1.4	108
31	The Role of the Heat Shock Protein B8 (HSPB8) in Motoneuron Diseases. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 176.	1.4	54
32	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.	1.6	78
33	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.	1.4	72
34	Specific protein homeostatic functions of small heat shock proteins increase lifespan. <i>Aging Cell</i> , 2016, 15, 217-226.	3.0	45
35	A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. <i>Molecular Cell</i> , 2016, 63, 796-810.	4.5	244
36	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701

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37	The Role of the Protein Quality Control System in SBMA. <i>Journal of Molecular Neuroscience</i> , 2016, 58, 348-364.	1.1	32
38	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
39	BAG3 induces the sequestration of proteasomal clients into cytoplasmic puncta. <i>Autophagy</i> , 2014, 10, 1603-1621.	4.3	131
40	Inhibition of autophagy, lysosome and VCP function impairs stress granule assembly. <i>Cell Death and Differentiation</i> , 2014, 21, 1838-1851.	5.0	132
41	Barcoding heat shock proteins to human diseases: looking beyond the heat shock response. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 421-434.	1.2	100
42	Clearance of the mutant androgen receptor in motoneuronal models of spinal and bulbar muscular atrophy. <i>Neurobiology of Aging</i> , 2013, 34, 2585-2603.	1.5	57
43	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.	1.8	71
44	The Regulation of the Autophagic Network and Its Implications for Human Disease. <i>International Journal of Biological Sciences</i> , 2013, 9, 1121-1133.	2.6	33
45	Differential autophagy power in the spinal cord and muscle of transgenic ALS mice. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 234.	1.8	53
46	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.	2.8	66
47	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.	1.2	75
48	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
49	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.	1.8	76
50	Small heat shock proteins, protein degradation and protein aggregation diseases. <i>Autophagy</i> , 2011, 7, 101-103.	4.3	46
51	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.	1.7	102
52	BAG3 Directly Interacts with Mutated alphaB-Crystallin to Suppress Its Aggregation and Toxicity. <i>PLoS ONE</i> , 2011, 6, e16828.	1.1	62
53	Identification of the key structural motifs involved in HspB8/HspB6&BAG3 interaction. <i>Biochemical Journal</i> , 2010, 425, 245-257.	1.7	161
54	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.	1.2	32

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55	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.	1.4	303
56	Identification of the <i>Drosophila</i> Ortholog of HSPB8. <i>Journal of Biological Chemistry</i> , 2010, 285, 37811-37822.	1.6	79
57	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.	4.3	97
58	HSPB7 is the most potent polyQ aggregation suppressor within the HSPB family of molecular chaperones. <i>Human Molecular Genetics</i> , 2010, 19, 4677-4693.	1.4	146
59	HspB8 Participates in Protein Quality Control by a Non-chaperone-like Mechanism That Requires eIF2 $\hat{\pm}$ Phosphorylation. <i>Journal of Biological Chemistry</i> , 2009, 284, 5523-5532.	1.6	109
60	The stress-inducible HspB8-Bag3 complex induces the eIF2 $\hat{\pm}$ kinase pathway: Implications for protein quality control and viral factory degradation?. <i>Autophagy</i> , 2009, 5, 428-429.	4.3	55
61	Structural and Functional Diversities between Members of the Human HSPB, HSPH, HSPA, and DNAJ Chaperone Families. <i>Biochemistry</i> , 2008, 47, 7001-7011.	1.2	327
62	HspB8 and Bag3: A new chaperone complex targeting misfolded proteins to macroautophagy. <i>Autophagy</i> , 2008, 4, 237-239.	4.3	214
63	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.	1.6	306
64	Role of HspB1 and HspB8 in Hereditary Peripheral Neuropathies: Beyond the Chaperone Function. , 2008, , 139-155.		0
65	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.	1.4	159
66	Chronic treatment with desipramine and fluoxetine modulate BDNF, CaMKK $\hat{\pm}$ and CaMKK $\hat{2}$ mRNA levels in the hippocampus of transgenic mice expressing antisense RNA against the glucocorticoid receptor. <i>Neuropharmacology</i> , 2004, 47, 1062-1069.	2.0	50
67	Cloning of mouse Ca $^{2+}$ /calmodulin-dependent protein kinase kinase beta (CaMKK $\hat{2}$) and characterization of CaMKK $\hat{2}$ and CaMKK $\hat{\pm}$ distribution in the adult mouse brain. <i>Molecular Brain Research</i> , 2003, 111, 216-221.	2.5	27
68	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.	2.8	37
69	Modulation of glutamate receptors in response to the novel antipsychotic olanzapine in rats. <i>Biological Psychiatry</i> , 2001, 50, 117-122.	0.7	50