# Serena Carra

List of Publications by Year
in descending order

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| 69 | 13,074 | 66343 | 95266 |
|---|---|---|---|
| papers | citations | 42 h-index | 68 g-index |

| 76 | 76 | 76 | 23742 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 3.8 | 5 |
| 2 | RNA Molecular Signature Profiling in PBMCs of Sporadic ALS Patients: HSP70 Overexpression Is Associated with Nuclear SOD1. Cells, 2022, 11, 293. | 4.1 | 5 |
| 3 | 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. | 3.2 | 5 |
| 4 | Protein products of nonstop mRNA disrupt nucleolar homeostasis. Cell Stress and Chaperones, 2021, 26, 549-561. | 2.9 | 7 |
| 5 | Hsp90â€mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. EMBO Reports, 2021, 22, e51740. | 4.5 | 41 |
| 6 | The landscape of molecular chaperones across human tissues reveals a layered architecture of core and variable chaperones. Nature Communications, 2021, 12, 2180. | 12.8 | 62 |
| 7 | Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. Cell Death and Disease, 2021, 12, 452. | 6.3 | 16 |
| 8 | HspB8 prevents aberrant phase transitions of FUS by chaperoning its folded RNA-binding domain. ELife, 2021, 10, . | 6.0 | 42 |
| 9 | ALS and FTD: Where RNA metabolism meets protein quality control. Seminars in Cell and Developmental Biology, 2020, 99, 183-192. | 5.0 | 39 |
| 10 | 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. | 2.9 | 7 |
| 11 | BAG3 Pro209 mutants associated with myopathy and neuropathy relocate chaperones of the CASA-complex to aggresomes. Scientific Reports, 2020, 10, 8755. | 3.3 | 32 |
| 12 | Studying heat shock proteins through single-molecule mechanical manipulation. Cell Stress and Chaperones, 2020, 25, 615-628. | 2.9 | 5 |
| 13 | 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. | 2.8 | 23 |
| 14 | Defective ribosomal products challenge nuclear function by impairing nuclear condensate dynamics and immobilizing ubiquitin. EMBO Journal, 2019, 38, e101341. | 7.8 | 58 |
| 15 | Nucleolus: A Liquid Droplet Compartment for Misbehaving Proteins. Current Biology, 2019, 29, R930-R932. | 3.9 | 10 |
| 16 | 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. | 0.7 | 10 |
| 17 | Autophagic and Proteasomal Mediated Removal of Mutant Androgen Receptor in Muscle Models of Spinal and Bulbar Muscular Atrophy. Frontiers in Endocrinology, 2019, 10, 569. | 3.5 | 22 |
| 18 | Proteostasis and ALS: protocol for a phase II, randomised, double-blind, placebo-controlled, multicentre clinical trial for colchicine in ALS (Co-ALS). BMJ Open, 2019, 9, e028486. | 1.9 | 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. Cell Stress and Chaperones, 2018, 23, 1-12. | 2.9 | 69 |
| 20 | Myopathy associated BAG3 mutations lead to protein aggregation by stalling Hsp70 networks. Nature Communications, 2018, 9, 5342. | 12.8 | 65 |
| 21 | Quality Control of Membraneless Organelles. Journal of Molecular Biology, 2018, 430, 4711-4729. | 4.2 | 75 |
| 22 | 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 |
| 23 | Tdp-25 Routing to Autophagy and Proteasome Ameliorates its Aggregation in Amyotrophic Lateral Sclerosis Target Cells. Scientific Reports, 2018, 8, 12390. | 3.3 | 50 |
| 24 | 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. | 2.9 | 22 |
| 25 | Inhibition of retrograde transport modulates misfolded protein accumulation and clearance in motoneuron diseases. Autophagy, 2017, 13, 1280-1303. | 9.1 | 62 |
| 26 | An aberrant phase transition of stress granules triggered by misfolded protein and prevented by chaperone function. EMBO Journal, 2017, 36, 1669-1687. | 7.8 | 370 |
| 27 | The growing world of small heat shock proteins: from structure to functions. Cell Stress and Chaperones, 2017, 22, 601-611. | 2.9 | 158 |
| 28 | Aberrant Compartment Formation by HSPB2 Mislocalizes Lamin A and Compromises Nuclear Integrity and Function. Cell Reports, 2017, 20, 2100-2115. | 6.4 | 43 |
| 29 | The small heat shock protein B8 (HSPB8) modulates proliferation and migration of breast cancer cells. Oncotarget, 2017, 8, 10400-10415. | 1.8 | 42 |
| 30 | Granulostasis: Protein Quality Control of RNP Granules. Frontiers in Molecular Neuroscience, 2017, 10, 84. | 2.9 | 108 |
| 31 | The Role of the Heat Shock Protein B8 (HSPB8) in Motoneuron Diseases. Frontiers in Molecular Neuroscience, 2017, 10, 176. | 2.9 | 54 |
| 32 | Transcriptional induction of the heat shock protein B8 mediates the clearance of misfolded proteins responsible for motor neuron diseases. Scientific Reports, 2016, 6, 22827. | 3.3 | 78 |
| 33 | 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. | 2.9 | 72 |
| 34 | Specific protein homeostatic functions of small heatâ€shock proteins increase lifespan. Aging Cell, 2016, 15, 217-226. | 6.7 | 45 |
| 35 | A Surveillance Function of the HSPB8-BAG3-HSP70 Chaperone Complex Ensures Stress Granule Integrity and Dynamism. Molecular Cell, 2016, 63, 796-810. | 9.7 | 244 |
| 36 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |

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|---|---|---|---|
| 37 | The Role of the Protein Quality Control System in SBMA. Journal of Molecular Neuroscience, 2016, 58, 348-364. | 2.3 | 32 |
| 38 | Role of HSPB8 in the Proteostasis Network: From Protein Synthesis to Protein Degradation and Beyond. Heat Shock Proteins, 2015, , 487-510. | 0.2 | 0 |
| 39 | BAG3 induces the sequestration of proteasomal clients into cytoplasmic puncta. Autophagy, 2014, 10, 1603-1621. | 9.1 | 131 |
| 40 | Inhibition of autophagy, lysosome and VCP function impairs stress granule assembly. Cell Death and Differentiation, 2014, 21, 1838-1851. | 11.2 | 132 |
| 41 | Barcoding heat shock proteins to human diseases: looking beyond the heat shock response. DMM Disease Models and Mechanisms, 2014, 7, 421-434. | 2.4 | 100 |
| 42 | Clearance of the mutant androgen receptor in motoneuronal models of spinal and bulbar muscular atrophy. Neurobiology of Aging, 2013, 34, 2585-2603. | 3.1 | 57 |
| 43 | 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. | 4.0 | 71 |
| 44 | The Regulation of the Autophagic Network and Its Implications for Human Disease. International Journal of Biological Sciences, 2013, 9, 1121-1133. | 6.4 | 33 |
| 45 | Differential autophagy power in the spinal cord and muscle of transgenic ALS mice. Frontiers in Cellular Neuroscience, 2013, 7, 234. | 3.7 | 53 |
| 46 | 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. | 5.7 | 66 |
| 47 | 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. | 2.8 | 75 |
| 48 | Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544. | 9.1 | 3,122 |
| 49 | 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. | 3.2 | 76 |
| 50 | Small heat shock proteins, protein degradation and protein aggregation diseases. Autophagy, 2011, 7, 101-103. | 9.1 | 46 |
| 51 | Emerging roles of molecular chaperones and co-chaperones in selective autophagy: focus on BAG proteins. Journal of Molecular Medicine, 2011, 89, 1175-1182. | 3.9 | 102 |
| 52 | BAG3 Directly Interacts with Mutated alphaB-Crystallin to Suppress Its Aggregation and Toxicity. PLoS ONE, 2011, 6, e16828. | 2.5 | 62 |
| 53 | Identification of the key structural motifs involved in HspB8/HspB6â€“Bag3 interaction. Biochemical Journal, 2010, 425, 245-257. | 3.7 | 161 |
| 54 | Abnormal interaction of motor neuropathy-associated mutant HspB8 (Hsp22) forms with the RNA helicase Ddx20 (gemin3). Cell Stress and Chaperones, 2010, 15, 567-582. | 2.9 | 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). Human Molecular Genetics, 2010, 19, 3440-3456. | 2.9 | 303 |
| 56 | Identification of the Drosophila Ortholog of HSPB8. Journal of Biological Chemistry, 2010, 285, 37811-37822. | 3.4 | 79 |
| 57 | 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. | 9.1 | 97 |
| 58 | HSPB7 is the most potent polyQ aggregation suppressor within the HSPB family of molecular chaperones. Human Molecular Genetics, 2010, 19, 4677-4693. | 2.9 | 146 |
| 59 | HspB8 Participates in Protein Quality Control by a Non-chaperone-like Mechanism That Requires eIF2Î± Phosphorylation. Journal of Biological Chemistry, 2009, 284, 5523-5532. | 3.4 | 109 |
| 60 | 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. | 9.1 | 55 |
| 61 | Structural and Functional Diversities between Members of the Human HSPB, HSPH, HSPA, and DNAJ Chaperone Families. Biochemistry, 2008, 47, 7001-7011. | 2.5 | 327 |
| 62 | HspB8 and Bag3: A new chaperone complex targeting misfolded proteins to macroautophagy. Autophagy, 2008, 4, 237-239. | 9.1 | 214 |
| 63 | 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. | 3.4 | 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. Human Molecular Genetics, 2005, 14, 1659-1669. | 2.9 | 159 |
| 66 | 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. | 4.1 | 50 |
| 67 | 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. | 2.3 | 27 |
| 68 | Altered Regulation of CREB by Chronic Antidepressant Administration in the Brain of Transgenic Mice with Impaired Glucocorticoid Receptor Function. Neuropsychopharmacology, 2002, 26, 605-614. | 5.4 | 37 |
| 69 | Modulation of glutamate receptors in response to the novel antipsychotic olanzapine in rats. Biological Psychiatry, 2001, 50, 117-122. | 1.3 | 50 |