

Heath Ecroyd

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

4,367
citations

38
h-index

65
g-index

101
ext. papers

5,000
ext. citations

5.2
avg, IF

5.57
L-index

#	Paper	IF	Citations
93	DNAJB chaperones suppress destabilised protein aggregation via a region distinct from that used to inhibit amyloidogenesis. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	1
92	Proteostasis in the Male and Female Germline: A New Outlook on the Maintenance of Reproductive Health. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 660626	5.7	2
91	De Novo Design, Synthesis, and Mechanistic Evaluation of Short Peptides That Mimic Heat Shock Protein 27 Activity. <i>ACS Medicinal Chemistry Letters</i> , 2021 , 12, 713-719	4.3	2
90	Single-molecule fluorescence-based approach reveals novel mechanistic insights into human small heat shock protein chaperone function. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100161	5.4	3
89	Native disulphide-linked dimers facilitate amyloid fibril formation by bovine milk β casein. <i>Biophysical Chemistry</i> , 2021 , 270, 106530	3.5	3
88	Illuminating amyloid fibrils: Fluorescence-based single-molecule approaches. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 4711-4724	6.8	1
87	N- and C-terminal regions of B-crystallin and Hsp27 mediate inhibition of amyloid nucleation, fibril binding, and fibril disaggregation. <i>Journal of Biological Chemistry</i> , 2020 , 295, 9838-9854	5.4	10
86	Neurodegenerative disease-associated protein aggregates are poor inducers of the heat shock response in neuronal cells. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	4
85	An ECyanostilbene Derivative for the Enhanced Detection and Imaging of Amyloid Fibril Aggregates. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 4191-4202	5.7	7
84	High tolerance of repeated heatwaves in Australian native plants. <i>Austral Ecology</i> , 2019 , 44, 597-608	1.5	6
83	Proteomics Approaches for Biomarker and Drug Target Discovery in ALS and FTD. <i>Frontiers in Neuroscience</i> , 2019 , 13, 548	5.1	25
82	The influence of the N-terminal region proximal to the core domain on the assembly and chaperone activity of B-crystallin. <i>Cell Stress and Chaperones</i> , 2018 , 23, 827-836	4	5
81	Proteostasis and the Regulation of Intra- and Extracellular Protein Aggregation by ATP-Independent Molecular Chaperones: Lens β Crystallins and Milk Caseins. <i>Accounts of Chemical Research</i> , 2018 , 51, 745-752	24.3	27
80	The small heat shock protein Hsp27 binds β synuclein fibrils, preventing elongation and cytotoxicity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4486-4497	5.4	64
79	Assessment of metal concentrations in the SOD1 mouse model of amyotrophic lateral sclerosis and its potential role in muscular denervation, with particular focus on muscle tissue. <i>Molecular and Cellular Neurosciences</i> , 2018 , 88, 319-329	4.8	1
78	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic β Synuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
77	Stress in native grasses under ecologically relevant heat waves. <i>PLoS ONE</i> , 2018 , 13, e0204906	3.7	5

76	Using Single-Molecule Approaches to Understand the Molecular Mechanisms of Heat-Shock Protein Chaperone Function. <i>Journal of Molecular Biology</i> , 2018 , 430, 4525-4546	6.5	20
75	The functional roles of the unstructured N- and C-terminal regions in B-crystallin and other mammalian small heat-shock proteins. <i>Cell Stress and Chaperones</i> , 2017 , 22, 627-638	4	33
74	Using bicistronic constructs to evaluate the chaperone activities of heat shock proteins in cells. <i>Scientific Reports</i> , 2017 , 7, 2387	4.9	2
73	The small heat shock proteins B-crystallin (HSPB5) and Hsp27 (HSPB1) inhibit the intracellular aggregation of β synuclein. <i>Cell Stress and Chaperones</i> , 2017 , 22, 589-600	4	28
72	The growing world of small heat shock proteins: from structure to functions. <i>Cell Stress and Chaperones</i> , 2017 , 22, 601-611	4	101
71	Longitudinal assessment of metal concentrations and copper isotope ratios in the G93A SOD1 mouse model of amyotrophic lateral sclerosis. <i>Metalomics</i> , 2017 , 9, 161-174	4.5	7
70	The heat shock response in neurons and astroglia and its role in neurodegenerative diseases. <i>Molecular Neurodegeneration</i> , 2017 , 12, 65	19	38
69	Monitoring Early-Stage Protein Aggregation by an Aggregation-Induced Emission Fluorogen. <i>Analytical Chemistry</i> , 2017 , 89, 9322-9329	7.8	44
68	Evaluating the Effect of Phosphorylation on the Structure and Dynamics of Hsp27 Dimers by Means of Ion Mobility Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 13275-13282	7.8	12
67	Letter to the Editor: A response to Horne and Lucey (2017). <i>Journal of Dairy Science</i> , 2017 , 100, 5121-5124	4	6
66	Functional Amyloid Protection in the Eye Lens: Retention of β Crystallin Molecular Chaperone Activity after Modification into Amyloid Fibrils. <i>Biomolecules</i> , 2017 , 7,	5.9	16
65	An automated chromatography procedure optimized for analysis of stable Cu isotopes from biological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 2023-2030	3.7	24
64	Formation and Dissociation of Sperm Bundles in Monotremes. <i>Biology of Reproduction</i> , 2016 , 95, 91	3.9	17
63	Effect of molecular chaperones on aberrant protein oligomers in vitro: super-versus sub-stoichiometric chaperone concentrations. <i>Biological Chemistry</i> , 2016 , 397, 401-15	4.5	18
62	The Effect of Milk Constituents and Crowding Agents on Amyloid Fibril Formation by β Casein. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 1335-43	5.7	15
61	Multi-kinase inhibitors can associate with heat shock proteins through their NH ₂ -termini by which they suppress chaperone function. <i>Oncotarget</i> , 2016 , 7, 12975-96	3.3	35
60	AR-12 Inhibits Chaperone Proteins Preventing Virus Replication and the Accumulation of Toxic Misfolded Proteins. <i>Journal of Clinical & Cellular Immunology</i> , 2016 , 7,	2.7	6
59	Small Heat-shock Proteins Prevent β Synuclein Aggregation via Transient Interactions and Their Efficacy Is Affected by the Rate of Aggregation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22618-22629	5.4	73

58	AR-12 Inhibits Multiple Chaperones Concomitant With Stimulating Autophagosome Formation Collectively Preventing Virus Replication. <i>Journal of Cellular Physiology</i> , 2016 , 231, 2286-302	7	32
57	Walking the tightrope: proteostasis and neurodegenerative disease. <i>Journal of Neurochemistry</i> , 2016 , 137, 489-505	6	126
56	Phosphomimics destabilize Hsp27 oligomeric assemblies and enhance chaperone activity. <i>Chemistry and Biology</i> , 2015 , 22, 186-95		82
55	Redefining the Chaperone Mechanism of sHsps: Not Just Holdase Chaperones. <i>Heat Shock Proteins</i> , 2015 , 179-195	0.2	5
54	SOD1 protein aggregates stimulate macropinocytosis in neurons to facilitate their propagation. <i>Molecular Neurodegeneration</i> , 2015 , 10, 57	19	53
53	Small heat-shock proteins: important players in regulating cellular proteostasis. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 429-451	10.3	138
52	Casein structures in the context of unfolded proteins. <i>International Dairy Journal</i> , 2015 , 46, 2-11	3.5	42
51	Preventing β synuclein aggregation: the role of the small heat-shock molecular chaperone proteins. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1830-43	6.9	61
50	Polymorphism in Casein Protein Aggregation and Amyloid Fibril Formation 2014 , 323-331		1
49	Post-testicular sperm maturation and identification of an epididymal protein in the Japanese quail (<i>Coturnix coturnix japonica</i>). <i>Reproduction</i> , 2014 , 147, 265-77	3.8	24
48	The structured core domain of β -crystallin can prevent amyloid fibrillation and associated toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1562-70	11.5	154
47	Invited review: Caseins and the casein micelle: their biological functions, structures, and behavior in foods. <i>Journal of Dairy Science</i> , 2013 , 96, 6127-46	4	261
46	Preparation, Processing and Applications of Protein Nanofibers 2013 , 599-612		
45	Protease-activated alpha-2-macroglobulin can inhibit amyloid formation via two distinct mechanisms. <i>FEBS Letters</i> , 2013 , 587, 398-403	3.8	32
44	Structural and functional aspects of hetero-oligomers formed by the small heat shock proteins β -crystallin and HSP27. <i>Journal of Biological Chemistry</i> , 2013 , 288, 13602-9	5.4	55
43	Avoiding the oligomeric state: β -crystallin inhibits fragmentation and induces dissociation of apolipoprotein C-II amyloid fibrils. <i>FASEB Journal</i> , 2013 , 27, 1214-22	0.9	41
42	Extracellular chaperones and proteostasis. <i>Annual Review of Biochemistry</i> , 2013 , 82, 295-322	29.1	110
41	Amyloid fibrils from readily available sources: milk casein and lens crystallin proteins. <i>Methods in Molecular Biology</i> , 2013 , 996, 103-17	1.4	4

40	The small heat shock proteins β -crystallin and Hsp27 suppress SOD1 aggregation in vitro. <i>Cell Stress and Chaperones</i> , 2013 , 18, 251-7	4	66
39	Extracellular chaperones. <i>Topics in Current Chemistry</i> , 2013 , 328, 241-68		19
38	The small heat-shock protein β -crystallin uses different mechanisms of chaperone action to prevent the amorphous versus fibrillar aggregation of β -lactalbumin. <i>Biochemical Journal</i> , 2012 , 448, 343-52	3.8	42
37	Molecular dynamics analysis of apolipoprotein-D-lipid hydroperoxide interactions: mechanism for selective oxidation of Met-93. <i>PLoS ONE</i> , 2012 , 7, e34057	3.7	19
36	The contribution of proteomics to understanding epididymal maturation of mammalian spermatozoa. <i>Systems Biology in Reproductive Medicine</i> , 2012 , 58, 197-210	2.9	75
35	Binding of the molecular chaperone β -crystallin to A β amyloid fibrils inhibits fibril elongation. <i>Biophysical Journal</i> , 2011 , 101, 1681-9	2.9	122
34	Monotremes provide a key to understanding the evolutionary significance of epididymal sperm maturation. <i>Journal of Andrology</i> , 2011 , 32, 665-71		11
33	NMR spectroscopy of 14-3-3 σ reveals a flexible C-terminal extension: differentiation of the chaperone and phosphoserine-binding activities of 14-3-3 σ . <i>Biochemical Journal</i> , 2011 , 437, 493-503	3.8	25
32	Enhanced molecular chaperone activity of the small heat-shock protein α B-crystallin following covalent immobilization onto a solid-phase support. <i>Biopolymers</i> , 2011 , 95, 376-89	2.2	12
31	Bioprospecting keratinous materials. <i>International Journal of Trichology</i> , 2010 , 2, 47-9	1.1	5
30	The dissociated form of kappa-casein is the precursor to its amyloid fibril formation. <i>Biochemical Journal</i> , 2010 , 429, 251-60	3.8	42
29	Small heat-shock proteins interact with a flanking domain to suppress polyglutamine aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10424-9	11.5	72
28	The interaction of α B-crystallin with mature α -synuclein amyloid fibrils inhibits their elongation. <i>Biophysical Journal</i> , 2010 , 98, 843-51	2.9	120
27	Extracellular Chaperones. <i>Topics in Current Chemistry</i> , 2010 , 1		1
26	Carboxymethylated-kappa-casein: a convenient tool for the identification of polyphenolic inhibitors of amyloid fibril formation. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 222-8	3.4	26
25	β -Crystallin inhibits the cell toxicity associated with amyloid fibril formation by β -casein and the amyloid- β peptide. <i>Cell Stress and Chaperones</i> , 2010 , 15, 1013-26	4	51
24	The interaction of unfolding β -lactalbumin and malate dehydrogenase with the molecular chaperone β -crystallin: a light and X-ray scattering investigation. <i>Molecular Vision</i> , 2010 , 16, 2446-56	2.3	20
23	Testicular descent, sperm maturation and capacitation. Lessons from our most distant relatives, the monotremes. <i>Reproduction, Fertility and Development</i> , 2009 , 21, 992-1001	1.8	5

22	Crystallin proteins and amyloid fibrils. <i>Cellular and Molecular Life Sciences</i> , 2009 , 66, 62-81	10.3	196
21	The thioflavin T fluorescence assay for amyloid fibril detection can be biased by the presence of exogenous compounds. <i>FEBS Journal</i> , 2009 , 276, 5960-72	5.7	395
20	Model for amorphous aggregation processes. <i>Physical Review E</i> , 2009 , 80, 051907	2.4	25
19	(-)-epigallocatechin-3-gallate (EGCG) maintains kappa-casein in its pre-fibrillar state without redirecting its aggregation pathway. <i>Journal of Molecular Biology</i> , 2009 , 392, 689-700	6.5	117
18	New proteins identified in epididymal fluid from the platypus (<i>Ornithorhynchus anatinus</i>). <i>Reproduction, Fertility and Development</i> , 2009 , 21, 1002-7	1.8	9
17	Amyloid fibril formation by bovine milk alpha s2-casein occurs under physiological conditions yet is prevented by its natural counterpart, alpha s1-casein. <i>Biochemistry</i> , 2008 , 47, 3926-36	3.2	88
16	Dissociation from the oligomeric state is the rate-limiting step in fibril formation by kappa-casein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9012-22	5.4	66
15	Unraveling the mysteries of protein folding and misfolding. <i>IUBMB Life</i> , 2008 , 60, 769-74	4.7	57
14	The effect of small molecules in modulating the chaperone activity of alphaB-crystallin against ordered and disordered protein aggregation. <i>FEBS Journal</i> , 2008 , 275, 935-47	5.7	52
13	Role of the epididymis in sperm competition. <i>Asian Journal of Andrology</i> , 2007 , 9, 493-9	2.8	32
12	Characterisation of amyloid fibril formation by small heat-shock chaperone proteins human alphaA-, alphaB- and R120G alphaB-crystallins. <i>Journal of Molecular Biology</i> , 2007 , 372, 470-84	6.5	85
11	Mimicking phosphorylation of alphaB-crystallin affects its chaperone activity. <i>Biochemical Journal</i> , 2007 , 401, 129-41	3.8	147
10	Site-directed mutations in the C-terminal extension of human alphaB-crystallin affect chaperone function and block amyloid fibril formation. <i>PLoS ONE</i> , 2007 , 2, e1046	3.7	38
9	An epididymal form of cauxin, a carboxylesterase-like enzyme, is present and active in mammalian male reproductive fluids. <i>Biology of Reproduction</i> , 2006 , 74, 439-47	3.9	20
8	The epididymal soluble prion protein forms a high-molecular-mass complex in association with hydrophobic proteins. <i>Biochemical Journal</i> , 2005 , 392, 211-9	3.8	31
7	Compartmentalization of prion isoforms within the reproductive tract of the ram. <i>Biology of Reproduction</i> , 2004 , 71, 993-1001	3.9	54
6	Analysis of the mechanism by which calcium negatively regulates the tyrosine phosphorylation cascade associated with sperm capacitation. <i>Journal of Cell Science</i> , 2004 , 117, 211-22	5.3	84
5	The development of signal transduction pathways during epididymal maturation is calcium dependent. <i>Developmental Biology</i> , 2004 , 268, 53-63	3.1	37

4	Tyrosine phosphorylation of HSP-90 during mammalian sperm capacitation. <i>Biology of Reproduction</i> , 2003 , 69, 1801-7	3.9	79
3	Endogenous redox activity in mouse spermatozoa and its role in regulating the tyrosine phosphorylation events associated with sperm capacitation. <i>Biology of Reproduction</i> , 2003 , 69, 347-54	3.9	63
2	Single-molecule fluorescence-based approach reveals novel mechanistic insights into small heat shock protein chaperone function		1
1	Neurodegenerative disease-associated protein aggregates are poor inducers of the heat shock response in neuronal-like cells		2