Bernd Bukau

List of Publications by Year in descending order

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159 25,307 88 152 papers citations h-index g-index

174 174 174 16342 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	The Hsp70 and Hsp60 Chaperone Machines. Cell, 1998, 92, 351-366.	28.9	2,634
2	Molecular Chaperones and Protein Quality Control. Cell, 2006, 125, 443-451.	28.9	1,352
3	Cellular strategies for controlling protein aggregation. Nature Reviews Molecular Cell Biology, 2010, 11, 777-788.	37.0	785
4	The Hsp70 chaperone network. Nature Reviews Molecular Cell Biology, 2019, 20, 665-680.	37.0	721
5	Trigger factor and DnaK cooperate in folding of newly synthesized proteins. Nature, 1999, 400, 693-696.	27.8	465
6	Thermotolerance Requires Refolding of Aggregated Proteins by Substrate Translocation through the Central Pore of ClpB. Cell, 2004, 119, 653-665.	28.9	433
7	The ribosome as a platform for co-translational processing, folding and targeting of newly synthesized proteins. Nature Structural and Molecular Biology, 2009, 16, 589-597.	8.2	420
8	Selective Ribosome Profiling Reveals the Cotranslational Chaperone Action of Trigger Factor InÂVivo. Cell, 2011, 147, 1295-1308.	28.9	419
9	Getting Newly Synthesized Proteins into Shape. Cell, 2000, 101, 119-122.	28.9	406
10	Regulation of the Escherichia coli heat-shock response. Molecular Microbiology, 1993, 9, 671-680.	2.5	365
11	Trigger factor in complex with the ribosome forms a molecular cradle for nascent proteins. Nature, 2004, 431, 590-596.	27.8	347
12	Small heat shock proteins, ClpB and the DnaK system form a functional triade in reversing protein aggregation. Molecular Microbiology, 2003, 50, 585-595.	2.5	342
13	Human Hsp70 Disaggregase Reverses Parkinson's-Linked α-Synuclein Amyloid Fibrils. Molecular Cell, 2015, 59, 781-793.	9.7	336
14	Multistep mechanism of substrate binding determines chaperone activity of Hsp70. Nature Structural Biology, 2000, 7, 586-593.	9.7	335
15	Crucial HSP70 co-chaperone complex unlocks metazoan protein disaggregation. Nature, 2015, 524, 247-251.	27.8	320
16	L23 protein functions as a chaperone docking site on the ribosome. Nature, 2002, 419, 171-174.	27.8	309
17	Genetic dissection of the roles of chaperones and proteases in protein folding and degradation in the Escherichia coli cytosol. Molecular Microbiology, 2001, 40, 397-413.	2.5	302
18	Metazoan Hsp70 machines use Hsp110 to power protein disaggregation. EMBO Journal, 2012, 31, 4221-4235.	7.8	284

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19	Cellular Handling of Protein Aggregates by Disaggregation Machines. Molecular Cell, 2018, 69, 214-226.	9.7	280
20	ClpS, a Substrate Modulator of the ClpAP Machine. Molecular Cell, 2002, 9, 673-683.	9.7	270
21	Cotranslational assembly of protein complexes in eukaryotes revealed by ribosome profiling. Nature, 2018, 561, 268-272.	27.8	266
22	The N-end rule pathway for regulated proteolysis: prokaryotic and eukaryotic strategies. Trends in Cell Biology, 2007, 17, 165-172.	7.9	258
23	Refolding of Substrates Bound to Small Hsps Relies on a Disaggregation Reaction Mediated Most Efficiently by ClpB/DnaK. Journal of Biological Chemistry, 2003, 278, 31033-31042.	3.4	243
24	Chaperone network in the yeast cytosol: Hsp110 is revealed as an Hsp70 nucleotide exchange factor. EMBO Journal, 2006, 25, 2510-2518.	7.8	243
25	Compartmentâ€specific aggregases direct distinct nuclear and cytoplasmic aggregate deposition. EMBO Journal, 2015, 34, 778-797.	7.8	243
26	Quantitative and spatio-temporal features of protein aggregation in Escherichia coli and consequences on protein quality control and cellular ageing. EMBO Journal, 2010, 29, 910-923.	7.8	241
27	Nucleotide-induced Conformational Changes in the ATPase and Substrate Binding Domains of the DnaK Chaperone Provide Evidence for Interdomain Communication. Journal of Biological Chemistry, 1995, 270, 16903-16910.	3.4	233
28	Hsp42 is required for sequestration of protein aggregates into deposition sites in <i>Saccharomyces cerevisiae</i> . Journal of Cell Biology, 2011, 195, 617-629.	5.2	233
29	Roles of Individual Domains and Conserved Motifs of the AAA+ Chaperone ClpB in Oligomerization, ATP Hydrolysis, and Chaperone Activity. Journal of Biological Chemistry, 2003, 278, 17615-17624.	3.4	222
30	Substrate recognition by the AAA+ chaperone ClpB. Nature Structural and Molecular Biology, 2004, 11, 607-615.	8.2	219
31	Structure and function of the molecular chaperone Trigger Factor. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 650-661.	4.1	210
32	The Second Step of ATP Binding to DnaK Induces Peptide Release. Journal of Molecular Biology, 1996, 263, 657-670.	4.2	209
33	Size-dependent Disaggregation of Stable Protein Aggregates by the DnaK Chaperone Machinery. Journal of Biological Chemistry, 2000, 275, 21107-21113.	3.4	207
34	Tuning of chaperone activity of Hsp70 proteins by modulation of nucleotide exchange. Nature Structural Biology, 2001, 8, 427-432.	9.7	205
35	Allosteric Regulation of Hsp70 Chaperones Involves a Conserved Interdomain Linker. Journal of Biological Chemistry, 2006, 281, 38705-38711.	3.4	196
36	Hsp70 targets Hsp100 chaperones to substrates for protein disaggregation and prion fragmentation. Journal of Cell Biology, 2012, 198, 387-404.	5.2	196

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37	Coordination of Translational Control and Protein Homeostasis during Severe Heat Stress. Current Biology, 2013, 23, 2452-2462.	3.9	191
38	Levels of DnaK and DnaJ provide tight control of heat shock gene expression and protein repair in Escherichia coli. Molecular Microbiology, 1998, 30, 567-581.	2.5	185
39	Mechanics of Hsp70 chaperones enables differential interaction with client proteins. Nature Structural and Molecular Biology, 2011, 18, 345-351.	8.2	181
40	Trigger Factor and DnaK possess overlapping substrate pools and binding specificities. Molecular Microbiology, 2003, 47, 1317-1328.	2.5	174
41	Substrate threading through the central pore of the Hsp104 chaperone as a common mechanism for protein disaggregation and prion propagation. Molecular Microbiology, 2008, 68, 87-97.	2.5	171
42	Alternative modes of client binding enable functional plasticity of Hsp70. Nature, 2016, 539, 448-451.	27.8	167
43	Allosteric Regulation of Hsp70 Chaperones by a Proline Switch. Molecular Cell, 2006, 21, 359-367.	9.7	166
44	Spatially Organized Aggregation of Misfolded Proteins as Cellular Stress Defense Strategy. Journal of Molecular Biology, 2015, 427, 1564-1574.	4.2	164
45	Functional Analysis of Hsp70 Inhibitors. PLoS ONE, 2013, 8, e78443.	2.5	160
46	Operon structure and cotranslational subunit association direct protein assembly in bacteria. Science, 2015, 350, 678-680.	12.6	160
47	The growing world of small heat shock proteins: from structure to functions. Cell Stress and Chaperones, 2017, 22, 601-611.	2.9	158
48	Profiling Ssb-Nascent Chain Interactions Reveals Principles of Hsp70-Assisted Folding. Cell, 2017, 170, 298-311.e20.	28.9	154
49	M Domains Couple the ClpB Threading Motor with the DnaK Chaperone Activity. Molecular Cell, 2007, 25, 247-260.	9.7	153
50	Molecular dissection of amyloid disaggregation by human HSP70. Nature, 2020, 587, 483-488.	27.8	153
51	Hsp 70 proteins bind Hsp 100 regulatory M domains to activate AAA+ disaggregase at aggregate surfaces. Nature Structural and Molecular Biology, 2012, 19, 1347-1355.	8.2	152
52	Molecular Basis for Regulation of the Heat Shock Transcription Factor $lar{l}f$ 32 by the DnaK and DnaJ Chaperones. Molecular Cell, 2008, 32, 347-358.	9.7	151
53	Small heat shock proteins sequester misfolding proteins in near-native conformation for cellular protection and efficient refolding. Nature Communications, 2016, 7, 13673.	12.8	147
54	Bag-1M Accelerates Nucleotide Release for Human Hsc70 and Hsp70 and Can Act Concentration-dependent as Positive and Negative Cofactor. Journal of Biological Chemistry, 2001, 276, 32538-32544.	3.4	146

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55	Molecular mechanism and structure of Trigger Factor bound to the translating ribosome. EMBO Journal, 2008, 27, 1622-1632.	7.8	142
56	Hsp110 Is a Nucleotide-activated Exchange Factor for Hsp70. Journal of Biological Chemistry, 2008, 283, 8877-8884.	3.4	142
57	Substrate Shuttling Between the DnaK and GroEL Systems Indicates a Chaperone Network Promoting Protein Folding. Journal of Molecular Biology, 1996, 261, 328-333.	4.2	140
58	Characterization of a Trap Mutant of the AAA+ Chaperone ClpB. Journal of Biological Chemistry, 2003, 278, 32608-32617.	3.4	140
59	Cooperation of Hsp70 and Hsp100 chaperone machines in protein disaggregation. Frontiers in Molecular Biosciences, 2015, 2, 22.	3.5	140
60	HSP40 proteins use class-specific regulation to drive HSP70 functional diversity. Nature, 2020, 587, 489-494.	27.8	140
61	MecA, an adaptor protein necessary for ClpC chaperone activity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2306-2311.	7.1	139
62	Protein disaggregation by the AAA+ chaperone ClpB involves partial threading of looped polypeptide segments. Nature Structural and Molecular Biology, 2008, 15, 641-650.	8.2	139
63	Mechanisms of Cotranslational Maturation of Newly Synthesized Proteins. Annual Review of Biochemistry, 2019, 88, 337-364.	11.1	138
64	Substrate Specificity of the SecB Chaperone. Journal of Biological Chemistry, 1999, 274, 34219-34225.	3.4	137
65	Translation suppression promotes stress granule formation and cell survival in response to cold shock. Molecular Biology of the Cell, 2012, 23, 3786-3800.	2.1	137
66	Co-translational mechanisms of protein maturation. Current Opinion in Structural Biology, 2014, 24, 24-33.	5 . 7	128
67	Cellular Functions and Mechanisms of Action of Small Heat Shock Proteins. Annual Review of Microbiology, 2019, 73, 89-110.	7.3	127
68	Investigation of the Interaction between DnaK and DnaJ by Surface Plasmon Resonance Spectroscopy. Journal of Molecular Biology, 1999, 289, 1131-1144.	4.2	126
69	Global profiling of SRP interaction with nascent polypeptides. Nature, 2016, 536, 219-223.	27.8	125
69 70	Global profiling of SRP interaction with nascent polypeptides. Nature, 2016, 536, 219-223. A conserved loop in the ATPase domain of the DnaK chaperone is essential for stable binding of GrpE. Nature Structural and Molecular Biology, 1994, 1, 95-101.	27.8 8.2	125
	A conserved loop in the ATPase domain of the DnaK chaperone is essential for stable binding of GrpE.		

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73	Hsp70 displaces small heat shock proteins from aggregates to initiate protein refolding. EMBO Journal, 2017, 36, 783-796.	7.8	120
74	Heat shock regulation in the ftsH null mutant of Escherichia coli: dissection of stability and activity control mechanisms of sigma32 in vivo. Molecular Microbiology, 1998, 30, 583-593.	2.5	118
75	Reshaping of the conformational search of a protein by the chaperone trigger factor. Nature, 2013, 500, 98-101.	27.8	118
76	Structural analysis of the adaptor protein ClpS in complex with the N-terminal domain of ClpA. Nature Structural Biology, 2002, 9, 906-911.	9.7	115
77	Selective ribosome profiling as a tool for studying the interaction of chaperones and targeting factors with nascent polypeptide chains and ribosomes. Nature Protocols, 2013, 8, 2212-2239.	12.0	112
78	Structural pathway of regulated substrate transfer and threading through an Hsp100 disaggregase. Science Advances, 2017, 3, e1701726.	10.3	112
79	Molecular Basis for Interactions of the DnaK Chaperone with Substrates. Biological Chemistry, 2000, 381, 877-85.	2.5	111
80	Head-to-tail interactions of the coiled-coil domains regulate ClpB activity and cooperation with Hsp70 in protein disaggregation. ELife, 2014, 3, e02481.	6.0	111
81	Pathways of allosteric regulation in Hsp70 chaperones. Nature Communications, 2015, 6, 8308.	12.8	110
82	Chaperone-Assisted Folding of Newly Synthesized Proteins in the Cytosol. Critical Reviews in Biochemistry and Molecular Biology, 2004, 39, 261-277.	5.2	109
83	Protein Disaggregation in Multicellular Organisms. Trends in Biochemical Sciences, 2018, 43, 285-300.	7.5	103
84	Disassembly of Tau fibrils by the human Hsp70 disaggregation machinery generates small seeding-competent species. Journal of Biological Chemistry, 2020, 295, 9676-9690.	3.4	103
85	Metazoan Hsp70-based protein disaggregases: emergence and mechanisms. Frontiers in Molecular Biosciences, 2015, 2, 57.	3.5	101
86	Selective 40S Footprinting Reveals Cap-Tethered Ribosome Scanning in Human Cells. Molecular Cell, 2020, 79, 561-574.e5.	9.7	96
87	Trigger Factor Peptidyl-prolyl cis/trans Isomerase Activity Is Not Essential for the Folding of Cytosolic Proteins in Escherichia coli. Journal of Biological Chemistry, 2004, 279, 14165-14170.	3.4	94
88	Concerted Action of the Ribosome and the Associated Chaperone Trigger Factor Confines Nascent Polypeptide Folding. Molecular Cell, 2012, 48, 63-74.	9.7	94
89	A peptide deformylase–ribosome complex reveals mechanism of nascent chain processing. Nature, 2008, 452, 108-111.	27.8	93
90	The Amino-terminal 118 Amino Acids of Escherichia coli Trigger Factor Constitute a Domain That Is Necessary and Sufficient for Binding to Ribosomes. Journal of Biological Chemistry, 1997, 272, 21865-21871.	3.4	92

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91	Novel insights into the mechanism of chaperone-assisted protein disaggregation. Biological Chemistry, 2005, 386, 739-44.	2.5	92
92	Role of sHsps in organizing cytosolic protein aggregation and disaggregation. Cell Stress and Chaperones, 2017, 22, 493-502.	2.9	92
93	Processive extrusion of polypeptide loops by a Hsp100 disaggregase. Nature, 2020, 578, 317-320.	27.8	92
94	Three-State Equilibrium of Escherichia coli Trigger Factor. Biological Chemistry, 2002, 383, 1611-9.	2.5	90
95	SecA Interacts with Ribosomes in Order to Facilitate Posttranslational Translocation in Bacteria. Molecular Cell, 2011, 41, 343-353.	9.7	90
96	Dynamics of Trigger Factor Interaction with Translating Ribosomes. Journal of Biological Chemistry, 2008, 283, 4124-4132.	3.4	82
97	Integrating Protein Homeostasis Strategies in Prokaryotes. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004366-a004366.	5.5	82
98	The C-terminal Domain of Escherichia coli Trigger Factor Represents the Central Module of Its Chaperone Activity. Journal of Biological Chemistry, 2006, 281, 31963-31971.	3.4	81
99	Interactions between nascent proteins translated by adjacent ribosomes drive homomer assembly. Science, 2021, 371, 57-64.	12.6	80
100	Solubilization of aggregated proteins by ClpB/DnaK relies on the continuous extraction of unfolded polypeptides. FEBS Letters, 2004, 578, 351-356.	2.8	76
101	ClpS is the recognition component for <i>Escherichia coli</i> substrates of the Nâ€end rule degradation pathway. Molecular Microbiology, 2009, 72, 506-517.	2.5	76
102	Trigger Factor Forms a Protective Shield for Nascent Polypeptides at the Ribosome. Journal of Biological Chemistry, 2006, 281, 6539-6545.	3.4	75
103	Identification of the prolyl isomerase domain of Escherichia coli trigger factor. FEBS Letters, 1996, 385, 67-71.	2.8	74
104	Trigger Factor Reduces the Force Exerted on the Nascent Chain by a Cotranslationally Folding Protein. Journal of Molecular Biology, 2016, 428, 1356-1364.	4.2	74
105	Incomplete proteasomal degradation of green fluorescent proteins in the context of tandem fluorescent protein timers. Molecular Biology of the Cell, 2016, 27, 360-370.	2.1	72
106	Insights into the structural dynamics of the Hsp110–Hsp70 interaction reveal the mechanism for nucleotide exchange activity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16519-16524.	7.1	70
107	Common and specific mechanisms of AAA+ proteins involved in protein quality control. Biochemical Society Transactions, 2008, 36, 120-125.	3.4	70
108	Hsp110 Chaperones Regulate Prion Formation and Propagation in S. cerevisiae by Two Discrete Activities. PLoS ONE, 2008, 3, e1763.	2.5	69

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109	The Yeast AAA ⁺ Chaperone Hsp104 Is Part of a Network That Links the Actin Cytoskeleton with the Inheritance of Damaged Proteins. Molecular and Cellular Biology, 2009, 29, 3738-3745.	2.3	66
110	GPD1 Specifically Marks Dormant Glioma Stem Cells with a Distinct Metabolic Profile. Cell Stem Cell, 2019, 25, 241-257.e8.	11.1	66
111	Modulation of substrate specificity of the DnaK chaperone by alteration of a hydrophobic arch. Journal of Molecular Biology, 2000, 304, 245-251.	4.2	65
112	Modulation of Amyloid States by Molecular Chaperones. Cold Spring Harbor Perspectives in Biology, 2019, 11, a033969.	5.5	63
113	Human and yeast Hsp110 chaperones exhibit functional differences. FEBS Letters, 2006, 580, 168-174.	2.8	62
114	Evolution of an intricate J-protein network driving protein disaggregation in eukaryotes. ELife, 2017, 6,	6.0	60
115	Prolonged starvation drives reversible sequestration of lipid biosynthetic enzymes and organelle reorganization in <i>Saccharomyces cerevisiae</i> Molecular Biology of the Cell, 2015, 26, 1601-1615.	2.1	59
116	SecA Cotranslationally Interacts with Nascent Substrate Proteins <i>In Vivo</i> Iournal of Bacteriology, 2017, 199, .	2.2	59
117	Dynamic enzyme docking to the ribosome coordinates N-terminal processing with polypeptide folding. Nature Structural and Molecular Biology, 2013, 20, 843-850.	8.2	58
118	A prion-like domain in Hsp42 drives chaperone-facilitated aggregation of misfolded proteins. Journal of Cell Biology, 2018, 217, 1269-1285.	5.2	57
119	Towards a unifying mechanism for ClpB/Hsp104-mediated protein disaggregation and prion propagationThis paper is one of a selection of papers published in this special issue entitled 8th International Conference on AAA Proteins and has undergone the Journal's usual peer review process Biochemistry and Cell Biology, 2010, 88, 63-75.	2.0	56
120	Systemic control of protein synthesis through sequestration of translation and ribosome biogenesis factors during severe heat stress. FEBS Letters, 2015, 589, 3654-3664.	2.8	55
121	<i>In vivo</i> properties of the disaggregase function of Jâ€proteins and Hsc70 in <i>Caenorhabditis elegans</i> stress and aging. Aging Cell, 2017, 16, 1414-1424.	6.7	53
122	The HSP110/HSP70 disaggregation system generates spreadingâ€competent toxic αâ€synuclein species. EMBO Journal, 2020, 39, e103954.	7.8	53
123	The Diverse Functions of Small Heat Shock Proteins in the Proteostasis Network. Journal of Molecular Biology, 2022, 434, 167157.	4.2	53
124	Functional Dissection of Trigger Factor and DnaK: Interactions with Nascent Polypeptides and Thermally Denatured Proteins. Biological Chemistry, 2001, 382, 1235-43.	2.5	51
125	Mapping Temperature-induced Conformational Changes in the Escherichia coli Heat Shock Transcription Factor $lf32$ by Amide Hydrogen Exchange. Journal of Biological Chemistry, 2003, 278, 51415-51421.	3.4	50
126	Cellular sequestrases maintain basal Hsp70 capacity ensuring balanced proteostasis. Nature Communications, 2019, 10, 4851.	12.8	49

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127	The Endoplasmic Reticulum Grp170 Acts as a Nucleotide Exchange Factor of Hsp70 via a Mechanism Similar to That of the Cytosolic Hsp110. Journal of Biological Chemistry, 2010, 285, 12445-12453.	3.4	46
128	Two-Step Activation Mechanism of the ClpB Disaggregase for Sequential Substrate Threading by the Main ATPase Motor. Cell Reports, 2019, 27, 3433-3446.e4.	6.4	46
129	Structure-Function Analysis of HscC, theEscherichia coli Member of a Novel Subfamily of Specialized Hsp70 Chaperones. Journal of Biological Chemistry, 2002, 277, 41060-41069.	3.4	45
130	Accurate prediction of cellular co-translational folding indicates proteins can switch from post- to co-translational folding. Nature Communications, 2016, 7, 10341.	12.8	45
131	Role of Region C in Regulation of the Heat Shock Gene-Specific Sigma Factor of <i>Escherichia coli</i> , ï, ³² . Journal of Bacteriology, 1999, 181, 3552-3561.	2.2	45
132	Chaperone-Mediated Protein Disaggregation Triggers Proteolytic Clearance of Intra-nuclear Protein Inclusions. Cell Reports, 2020, 31, 107680.	6.4	43
133	Largeâ€scale purification of ribosomeâ€nascent chain complexes for biochemical and structural studies. FEBS Letters, 2009, 583, 2407-2413.	2.8	41
134	Functional diversity between HSP70 paralogs caused by variable interactions with specific co-chaperones. Journal of Biological Chemistry, 2020, 295, 7301-7316.	3.4	39
135	Stand-alone ClpG disaggregase confers superior heat tolerance to bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E273-E282.	7.1	37
136	Toxic Activation of an AAA+ Protease by the Antibacterial Drug Cyclomarin A. Cell Chemical Biology, 2019, 26, 1169-1179.e4.	5.2	36
137	Structural analysis of a signal peptide inside the ribosome tunnel by DNP MAS NMR. Science Advances, 2016, 2, e1600379.	10.3	33
138	Regulatory coiled-coil domains promote head-to-head assemblies of AAA+ chaperones essential for tunable activity control. ELife, 2017, 6, .	6.0	32
139	Principles of general and regulatory proteolysis by AAA+ proteases in Escherichia coli. Research in Microbiology, 2009, 160, 629-636.	2.1	31
140	Substrate binding by the yeast Hsp110 nucleotide exchange factor and molecular chaperone Sse1 is not obligate for its biological activities. Molecular Biology of the Cell, 2017, 28, 2066-2075.	2.1	31
141	Hormesis enables cells to handle accumulating toxic metabolites during increased energy flux. Redox Biology, 2017, 13, 674-686.	9.0	31
142	Physical Origins of Codon Positions That Strongly Influence Cotranslational Folding: A Framework for Controlling Nascent-Protein Folding. Journal of the American Chemical Society, 2016, 138, 1180-1195.	13.7	27
143	Bacterial ribosome collision sensing by a MutS DNA repair ATPase paralogue. Nature, 2022, 603, 509-514.	27.8	27
144	Nα-terminal acetylation of proteins by NatA and NatB serves distinct physiological roles in Saccharomyces cerevisiae. Cell Reports, 2021, 34, 108711.	6.4	26

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145	Bacterial and Yeast AAA + Disaggregases ClpB and Hsp104 Operate through Conserved Mechanism Involving Cooperation with Hsp70. Journal of Molecular Biology, 2016, 428, 4378-4391.	4.2	22
146	Mechanism of Hsp104/ClpB inhibition by prion curing Guanidinium hydrochloride. FEBS Letters, 2013, 587, 810-817.	2.8	20
147	Monitoring Protein Misfolding by Site-Specific Labeling of Proteins In Vivo. PLoS ONE, 2014, 9, e99395.	2.5	20
148	Poly-L-lysine enhances the protein disaggregation activity of ClpB. FEBS Letters, 2003, 553, 125-130.	2.8	14
149	Cooperative amyloid fibre binding and disassembly by the Hsp70 disaggregase. EMBO Journal, 2022, 41, .	7.8	14
150	The C-terminal Domain of Escherichia coli Trigger Factor Represents the Central Module of Its Chaperone Activity. Journal of Biological Chemistry, 2006, 281, 31963-31971.	3.4	10
151	Pairs of amino acids at the P- and A-sites of the ribosome predictably and causally modulate translation-elongation rates. Journal of Molecular Biology, 2020, 432, 166696.	4.2	9
152	The C-terminal tail of the bacterial translocation ATPase SecA modulates its activity. ELife, 2019, 8, .	6.0	9
153	Mitochondria Tether Protein Trash to Rejuvenate Cellular Environments. Cell, 2014, 159, 471-472.	28.9	8
154	Mutant Analysis Reveals Allosteric Regulation of ClpB Disaggregase. Frontiers in Molecular Biosciences, 2017, 4, 6.	3. 5	8
155	Nucleotide Exchange Factors for Hsp70 Chaperones. Methods in Molecular Biology, 2018, 1709, 179-188.	0.9	7
156	Role for ribosome-associated complex and stress-seventy subfamily B (RAC-Ssb) in integral membrane protein translation. Journal of Biological Chemistry, 2017, 292, 19610-19627.	3.4	4
157	Translational Regulation of Pmt1 and Pmt2 by Bfr1 Affects Unfolded Protein O-Mannosylation. International Journal of Molecular Sciences, 2019, 20, 6220.	4.1	4
158	Combinations of slow-translating codon clusters can increase mRNA half-life in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	2
159	Finding nascent proteins the right home. Science, 2015, 348, 182-183.	12.6	1