Elizabeth A Craig

List of Publications by Year in Descending Order

83 papers	9,219 citations	44 h-index	88 g-index
88 ext. papers	9,932 ext. citations	10.7 avg, IF	6.13 L-index

#	Paper	IF	Citations
83	During FeS-cluster biogenesis ferredoxin and frataxin use overlapping bindings sites on yeast cysteine desulfurase Nfs1.. *Journal of Biological Chemistry*, **2022**, 101570	5.4	1
82	Pathway of Hsp70 interactions at the ribosome. *Nature Communications*, **2021**, 12, 5666	17.4	1
81	Essentiality of Sis1, a J-domain protein Hsp70 cochaperone, can be overcome by Tti1, a specialized PIKK chaperone.. *Molecular Biology of the Cell*, **2021**, mbcE21100493	3.5	
80	Two-step mechanism of J-domain action in driving Hsp70 function. *PLoS Computational Biology*, **2020**, 16, e1007913	5	8
79	Biochemical Convergence of Mitochondrial Hsp70 System Specialized in Iron-Sulfur Cluster Biogenesis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
78	Structure and evolution of the 4-helix bundle domain of Zuotin, a J-domain protein co-chaperone of Hsp70. *PLoS ONE*, **2019**, 14, e0217098	3.7	2
77	Hsp70 at the membrane: driving protein translocation. *BMC Biology*, **2018**, 16, 11	7.3	73
76	Posttranslational control of the scaffold for Fe-S cluster biogenesis as a compensatory regulatory mechanism. *Current Genetics*, **2017**, 63, 51-56	2.9	4
75	How Do J-Proteins Get Hsp70 to Do So Many Different Things?. *Trends in Biochemical Sciences*, **2017**, 42, 355-368	10.3	103
74	Fe-S Cluster Hsp70 Chaperones: The ATPase Cycle and Protein Interactions. *Methods in Enzymology*, **2017**, 595, 161-184	1.7	10
73	Broadening the functionality of a J-protein/Hsp70 molecular chaperone system. *PLoS Genetics*, **2017**, 13, e1007084	6	19
72	Dual interaction of scaffold protein Tim44 of mitochondrial import motor with channel-forming translocase subunit Tim23. *ELife*, **2017**, 6,	8.9	30
71	Iron-Sulfur Cluster Biogenesis Chaperones: Evidence for Emergence of Mutational Robustness of a Highly Specific Protein-Protein Interaction. *Molecular Biology and Evolution*, **2016**, 33, 643-56	8.3	12
70	Protection of scaffold protein Isu from degradation by the Lon protease Pim1 as a component of Fe-S cluster biogenesis regulation. *Molecular Biology of the Cell*, **2016**, 27, 1060-8	3.5	17
69	The Rqc2/Tae2 subunit of the ribosome-associated quality control (RQC) complex marks ribosome-stalled nascent polypeptide chains for aggregation. *ELife*, **2016**, 5, e11794	8.9	92
68	Dual interaction of the Hsp70 J-protein cochaperone Zuotin with the 40S and 60S ribosomal subunits. *Nature Structural and Molecular Biology*, **2016**, 23, 1003-1010	17.6	25
67	Roles of intramolecular and intermolecular interactions in functional regulation of the Hsp70 J-protein co-chaperone Sis1. *Journal of Molecular Biology*, **2015**, 427, 1632-43	6.5	31

66	Functionality of Class A and Class B J-protein co-chaperones with Hsp70. *FEBS Letters*, **2015**, 589, 2825-38	3.8	19
65	Congenital sideroblastic anemia due to mutations in the mitochondrial HSP70 homologue HSPA9. *Blood*, **2015**, 126, 2734-8	2.2	52
64	A conserved domain important for association of eukaryotic J-protein co-chaperones Jjj1 and Zuo1 with the ribosome. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 1035-45	4.9	17
63	Overlapping binding sites of the frataxin homologue assembly factor and the heat shock protein 70 transfer factor on the Isu iron-sulfur cluster scaffold protein. *Journal of Biological Chemistry*, **2014**, 289, 30268-30278	5.4	31
62	Architecture of the TIM23 inner mitochondrial translocon and interactions with the matrix import motor. *Journal of Biological Chemistry*, **2014**, 289, 28689-96	5.4	28
61	Nucleoid localization of Hsp40 Mdj1 is important for its function in maintenance of mitochondrial DNA. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 2233-43	4.9	11
60	Unfolding of the C-terminal domain of the J-protein Zuo1 releases autoinhibition and activates Pdr1-dependent transcription. *Journal of Molecular Biology*, **2013**, 425, 19-31	6.5	24
59	Binding of the chaperone Jac1 protein and cysteine desulfurase Nfs1 to the iron-sulfur cluster scaffold Isu protein is mutually exclusive. *Journal of Biological Chemistry*, **2013**, 288, 29134-42	5.4	41
58	Sequential duplications of an ancient member of the DnaJ-family expanded the functional chaperone network in the eukaryotic cytosol. *Molecular Biology and Evolution*, **2013**, 30, 985-98	8.3	28
57	The complex evolutionary dynamics of Hsp70s: a genomic and functional perspective. *Genome Biology and Evolution*, **2013**, 5, 2460-77	3.9	39
56	Interaction of J-protein co-chaperone Jac1 with Fe-S scaffold Isu is indispensable in vivo and conserved in evolution. *Journal of Molecular Biology*, **2012**, 417, 1-12	6.5	48
55	Genetic analysis of complex interactions among components of the mitochondrial import motor and translocon in Saccharomyces cerevisiae. *Genetics*, **2012**, 190, 1341-53	4	22
54	Influence of prion variant and yeast strain variation on prion-molecular chaperone requirements. *Prion*, **2011**, 5, 238-44	2.3	25
53	The sensitive [SWI (+)] prion: new perspectives on yeast prion diversity. *Prion*, **2011**, 5, 164-8	2.3	19
52	Reevaluation of the role of the Pam18:Pam16 interaction in translocation of proteins by the mitochondrial Hsp70-based import motor. *Molecular Biology of the Cell*, **2011**, 22, 4740-9	3.5	36
51	[SWI], the prion formed by the chromatin remodeling factor Swi1, is highly sensitive to alterations in Hsp70 chaperone system activity. *PLoS Genetics*, **2011**, 7, e1001309	6	56
50	Influence of prion variant and yeast strain variation on prion-molecular chaperone requirements. *Prion*, **2011**, 5, 238-244	2.3	20
49	Co-evolution-driven switch of J-protein specificity towards an Hsp70 partner. *EMBO Reports*, **2010**, 11, 360-5	6.5	37

48	The HSP70 chaperone machinery: J proteins as drivers of functional specificity. *Nature Reviews Molecular Cell Biology*, **2010**, 11, 579-92	48.7	1105
47	Cwc23, an essential J protein critical for pre-mRNA splicing with a dispensable J domain. *Molecular and Cellular Biology*, **2010**, 30, 33-42	4.8	29
46	The cytosolic J-protein, Jjj1, and Rei1 function in the removal of the pre-60 S subunit factor Arx1. *Journal of Biological Chemistry*, **2010**, 285, 961-8	5.4	44
45	Interaction of the J-protein heterodimer Pam18/Pam16 of the mitochondrial import motor with the translocon of the inner membrane. *Molecular Biology of the Cell*, **2008**, 19, 424-32	3.5	63
44	Binding of yeast frataxin to the scaffold for Fe-S cluster biogenesis, Isu. *Journal of Biological Chemistry*, **2008**, 283, 12674-9	5.4	80
43	Residues of Tim44 involved in both association with the translocon of the inner mitochondrial membrane and regulation of mitochondrial Hsp70 tethering. *Molecular and Cellular Biology*, **2008**, 28, 4424-33	4.8	36
42	Specificity of the J-protein Sis1 in the propagation of 3 yeast prions. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 16596-601	11.5	142
41	Posttranslational regulation of the scaffold for Fe-S cluster biogenesis, Isu. *Molecular Biology of the Cell*, **2008**, 19, 5259-66	3.5	22
40	J-protein co-chaperone Sis1 required for generation of [RNQ+] seeds necessary for prion propagation. *EMBO Journal*, **2007**, 26, 3794-803	13	83
39	The specialized cytosolic J-protein, Jjj1, functions in 60S ribosomal subunit biogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 1558-63	11.5	71
38	Evolution of mitochondrial chaperones utilized in Fe-S cluster biogenesis. *Current Biology*, **2006**, 16, 1666-5	6.5	80
37	Characterization of the interaction between the J-protein Jac1p and the scaffold for Fe-S cluster biogenesis, Isu1p. *Journal of Biological Chemistry*, **2006**, 281, 14580-7	5.4	49
36	The Hsp70 chaperone Ssq1p is dispensable for iron-sulfur cluster formation on the scaffold protein Isu1p. *Journal of Biological Chemistry*, **2006**, 281, 7801-8	5.4	53
35	Human Mpp11 J protein: ribosome-tethered molecular chaperones are ubiquitous. *Science*, **2005**, 308, 1032-4	33.3	89
34	Dissecting functional similarities of ribosome-associated chaperones from Saccharomyces cerevisiae and Escherichia coli. *Molecular Microbiology*, **2005**, 57, 357-65	4.1	16
33	The Hsp70 Ssz1 modulates the function of the ribosome-associated J-protein Zuo1. *Nature Structural and Molecular Biology*, **2005**, 12, 497-504	17.6	100
32	Role of Pam16's degenerate J domain in protein import across the mitochondrial inner membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12419-24	11.5	83
31	Compensation for a defective interaction of the hsp70 ssq1 with the mitochondrial Fe-S cluster scaffold isu. *Journal of Biological Chemistry*, **2005**, 280, 28966-72	5.4	26

30	In vivo bipartite interaction between the Hsp40 Sis1 and Hsp70 in Saccharomyces cerevisiae. *Genetics*, **2005**, 169, 1873-82	4	45
29	Broad sensitivity of Saccharomyces cerevisiae lacking ribosome-associated chaperone ssb or zuo1 to cations, including aminoglycosides. *Eukaryotic Cell*, **2005**, 4, 82-9		30
28	Sequence-specific interaction between mitochondrial Fe-S scaffold protein Isu and Hsp70 Ssq1 is essential for their in vivo function. *Journal of Biological Chemistry*, **2004**, 279, 29167-74	5.4	85
27	Activation of pleiotropic drug resistance by the J-protein and Hsp70-related proteins, Zuo1 and Ssz1. *Molecular Microbiology*, **2004**, 53, 335-44	4.1	36
26	Regulated interactions of mtHsp70 with Tim44 at the translocon in the mitochondrial inner membrane. *Nature Structural and Molecular Biology*, **2004**, 11, 1084-91	17.6	89
25	J protein cochaperone of the mitochondrial inner membrane required for protein import into the mitochondrial matrix. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13839-44	11.5	156
24	Regulated cycling of mitochondrial Hsp70 at the protein import channel. *Science*, **2003**, 300, 139-41	33.3	155
23	Ssq1, a mitochondrial Hsp70 involved in iron-sulfur (Fe/S) center biogenesis. Similarities to and differences from its bacterial counterpart. *Journal of Biological Chemistry*, **2003**, 278, 29719-27	5.4	113
22	Eukaryotic chaperonins: lubricating the folding of WD-repeat proteins. *Current Biology*, **2003**, 13, R904-56.3		23
21	Ribosome-tethered molecular chaperones: the first line of defense against protein misfolding?. *Current Opinion in Microbiology*, **2003**, 6, 157-62	7.9	76
20	Specificity of class II Hsp40 Sis1 in maintenance of yeast prion [RNQ+]. *Molecular Biology of the Cell*, **2003**, 14, 1172-81	3.5	98
19	The in vivo function of the ribosome-associated Hsp70, Ssz1, does not require its putative peptide-binding domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4203-8	11.5	91
18	Mitochondrial Hsp70 Ssc1: role in protein folding. *Journal of Biological Chemistry*, **2001**, 276, 6112-8	5.4	93
17	An essential role for the substrate-binding region of Hsp40s in Saccharomyces cerevisiae. *Journal of Cell Biology*, **2001**, 152, 851-6	7.3	86
16	Divergent functional properties of the ribosome-associated molecular chaperone Ssb compared with other Hsp70s. *Molecular Biology of the Cell*, **2001**, 12, 3773-82	3.5	63
15	Role of the mitochondrial Hsp70s, Ssc1 and Ssq1, in the maturation of Yfh1. *Molecular and Cellular Biology*, **2000**, 20, 3677-84	4.8	73
14	Getting newly synthesized proteins into shape. *Cell*, **2000**, 101, 119-22	56.2	352
13	The glycine-phenylalanine-rich region determines the specificity of the yeast Hsp40 Sis1. *Molecular and Cellular Biology*, **1999**, 19, 7751-8	4.8	119

12	The molecular chaperone Ssb from Saccharomyces cerevisiae is a component of the ribosome-nascent chain complex. *EMBO Journal*, **1998**, 17, 3981-9	13	194
11	Mitochondrial preprotein translocase. *Annual Review of Cell and Developmental Biology*, **1997**, 13, 25-51	12.6	157
10	Chaperones: helpers along the pathways to protein folding. *Science*, **1993**, 260, 1902-3	33.3	152
9	The translation machinery and 70 kd heat shock protein cooperate in protein synthesis. *Cell*, **1992**, 71, 97-105	56.2	465
8	Functional analysis of a conserved amino-terminal region of HSP70 by site-directed mutagenesis. *Yeast*, **1991**, 7, 699-716	3.4	7
7	Requirement for hsp70 in the mitochondrial matrix for translocation and folding of precursor proteins. *Nature*, **1990**, 348, 137-43	50.4	694
6	How do polypeptides cross the mitochondrial membranes?. *Cell*, **1990**, 63, 447-50	56.2	260
5	Precursor proteins in transit through mitochondrial contact sites interact with hsp70 in the matrix. *FEBS Letters*, **1990**, 277, 281-4	3.8	88
4	Essential roles of 70kDa heat inducible proteins. *BioEssays*, **1989**, 11, 48-52	4.1	63
3	A subfamily of stress proteins facilitates translocation of secretory and mitochondrial precursor polypeptides. *Nature*, **1988**, 332, 800-5	50.4	1432
2	The heat shock response. *Critical Reviews in Biochemistry*, **1985**, 18, 239-80		706
1	The Stress Response: Changes in Eukaryotic Gene Expression in Response to Environmental Stress . Burr G. Atkinson and David B. Walden, Eds. Academic Press, Orlando, Fla., 1985. xviii, 381 pp., illus. $65. Cell Biology.. *Science*, **1985**, 230, 800-801	33.3	3