Gregory L Blatch

List of Publications by Year
in descending order

112 papers	6,039 citations	76326 40 h-index	76900 74 g-index
114 all docs	114 docs citations	114 times ranked	7455 citing authors

#	Article	IF	Citations
1	The tetratricopeptide repeat: a structural motif mediating protein-protein interactions. BioEssays, 1999, 21, 932-939.	2.5	1,040
2	The African coelacanth genome provides insights into tetrapod evolution. Nature, 2013, 496, 311-316.	27.8	612
3	Not all J domains are created equal: Implications for the specificity of Hsp40-Hsp70 interactions. Protein Science, 2005, 14, 1697-1709.	7.6	265
4	Hop: more than an Hsp70/Hsp90 adaptor protein. BioEssays, 2004, 26, 1058-1068.	2.5	200
5	The ataxia protein sacsin is a functional co-chaperone that protects against polyglutamine-expanded ataxin-1. Human Molecular Genetics, 2009, 18, 1556-1565.	2.9	153
6	Stress-inducible, Murine Protein mSTI1. Journal of Biological Chemistry, 1997, 272, 1876-1884.	3.4	141
7	The complex immunological and inflammatory network of adipose tissue in obesity. Molecular Nutrition and Food Research, 2016, 60, 43-57.	3.3	139
8	<i>Plasmodium falciparum</i>-encoded exported hsp70/hsp40 chaperone/co-chaperone complexes within the host erythrocyte. Cellular Microbiology, 2012, 14, 1784-1795.	2.1	137
9	The Hsp40 proteins of Plasmodium falciparum and other apicomplexa: Regulating chaperone power in the parasite and the host. International Journal of Biochemistry and Cell Biology, 2007, 39, 1781-1803.	2.8	125
10	Parasite-encoded Hsp40 proteins define novel mobile structures in the cytosol of the P. falciparum-infected erythrocyte. Cellular Microbiology, 2010, 12, 1398-1420.	2.1	117
11	The structural and functional diversity of Hsp70 proteins from <i>Plasmodium falciparum</i>. Protein Science, 2007, 16, 1803-1818.	7.6	115
12	Intracellular Protozoan Parasites of Humans: The Role of Molecular Chaperones in Development and Pathogenesis. Protein and Peptide Letters, 2011, 18, 143-157.	0.9	115
13	Cancer stem cells in breast cancer and metastasis. Breast Cancer Research and Treatment, 2009, 118, 241-254.	2.5	113
14	Nuclear translocation of the Hsp70/Hsp90 organizing protein mSTI1 is regulated by cell cycle kinases. Journal of Cell Science, 2004, 117, 701-710.	2.0	100
15	Human DNAJ in cancer and stem cells. Cancer Letters, 2011, 312, 129-142.	7.2	89
16	Tetratricopeptide Repeat Motif-mediated Hsc70-mSTI1 Interaction. Journal of Biological Chemistry, 2003, 278, 6896-6904.	3.4	88
17	Overproduction, purification, and characterization of the Plasmodium falciparum heat shock protein 70. Protein Expression and Purification, 2004, 33, 214-222.	1.3	76
18	Analysis of the levels of conservation of the J domain among the various types of DnaJ-like proteins. Cell Stress and Chaperones, 2000, 5, 347.	2.9	74

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19	Environmental physiology of three species of Collembola at Cape Hallett, North Victoria Land, Antarctica. Journal of Insect Physiology, 2006, 52, 29-50.	2.0	73
20	Isolation of a mouse cDNA encoding MTJ1, a new murine member of the DnaJ family of proteins. Gene, 1995, 153, 249-254.	2.2	72
21	Gold nanoparticle-based fluorescence immunoassay for malaria antigen detection. Analytical and Bioanalytical Chemistry, 2012, 402, 1019-1027.	3.7	69
22	A novel type of co-chaperone mediates transmembrane recruitment of DnaK-like chaperones to ribosomes. EMBO Journal, 2002, 21, 2958-2967.	7.8	67
23	The role of gaping behaviour in habitat partitioning between coexisting intertidal mussels. BMC Ecology, 2010, 10, 17.	3.0	64
24	Characterisation of the Plasmodium falciparum Hsp70â€"Hsp90 organising protein (PfHop). Cell Stress and Chaperones, 2012, 17, 191-202.	2.9	63
25	Chaperoning stem cells: a role for heat shock proteins in the modulation of stem cell selfâ€renewal and differentiation?. BioEssays, 2009, 31, 370-377.	2.5	62
26	Plasmodium falciparum heat shock protein 70 is able to suppress the thermosensitivity of an Escherichia coli DnaK mutant strain. Molecular Genetics and Genomics, 2005, 274, 70-78.	2.1	60
27	Heterologous expression of plasmodial proteins for structural studies and functional annotation. Malaria Journal, 2008, 7, 197.	2.3	60
28	The Plasmodium falciparum heat shock protein 40, Pfj4, associates with heat shock protein 70 and shows similar heat induction and localisation patterns. International Journal of Biochemistry and Cell Biology, 2008, 40, 2914-2926.	2.8	55
29	Structure-Function Study of a Plasmodium falciparum Hsp70 Using Three Dimensional Modelling and in Vitro Analyses. Protein and Peptide Letters, 2008, 15, 1117-1125.	0.9	55
30	Screening for small molecule modulators of Hsp70 chaperone activity using protein aggregation suppression assays: inhibition of the plasmodial chaperone PfHsp70-1. Biological Chemistry, 2011, 392, 431-8.	2.5	55
31	Quinones and halogenated monoterpenes of algal origin show anti-proliferative effects against breast cancer cells in vitro. Investigational New Drugs, 2012, 30, 2187-2200.	2.6	55
32	Plasmodium falciparum encodes a single cytosolic type I Hsp40 that functionally interacts with Hsp70 and is upregulated by heat shock. Cell Stress and Chaperones, 2011, 16, 389-401.	2.9	54
33	Hsp70/Hsp90 Organising Protein (Hop): Beyond Interactions with Chaperones and Prion Proteins. Sub-Cellular Biochemistry, 2015, 78, 69-90.	2.4	53
34	Isolation of a mouse cDNA encoding mSTI1, a stress-inducible protein containing the TPR motif. Gene, 1997, 194, 277-282.	2.2	51
35	Nuclear translocation of the phosphoprotein Hop (Hsp70/Hsp90 organizing protein) occurs under heat shock, and its proposed nuclear localization signal is involved in Hsp90 binding. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1003-1014.	4.1	51
36	Selective modulation of plasmodial Hsp70s by small molecules with antimalarial activity. Biological Chemistry, 2014, 395, 1353-1362.	2.5	50

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37	Nucleotide sequence and analysis of the Vibrio alginolyticus sucrose uptake-encoding region. Gene, 1990, 95, 17-23.	2.2	48
38	Hsp70s and J Proteins of Plasmodium Parasites Infecting Rodents and Primates: Structure, Function, Clinical Relevance, and Drug Targets. Current Pharmaceutical Design, 2013, 19, 387-403.	1.9	47
39	Heat shock proteins as modulators and therapeutic targets of chronic disease: an integrated perspective. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160521.	4.0	46
40	Plasmodial HSP70s are functionally adapted to the malaria parasite life cycle. Frontiers in Molecular Biosciences, 2015, 2, 34.	3.5	45
41	Is there a Link between Vitamin B and Multiple Sclerosis?. Medicinal Chemistry, 2018, 14, 170-180.	1.5	42
42	Heat shock cognate protein 70 chaperone-binding site in the co-chaperone murine stress-inducible protein 1 maps to within three consecutive tetratricopeptide repeat motifs. Biochemical Journal, 2000, 345, 645-651.	3.7	41
43	Heat shock protein 40 (Hsp40) plays a key role in the virus life cycle. Virus Research, 2011, 160, 15-24.	2.2	41
44	The Hsp70 chaperones of the Tritryps are characterized by unusual features and novel members. Parasitology International, 2010, 59, 497-505.	1.3	39
45	Knockdown of the co-chaperone Hop promotes extranuclear accumulation of Stat3 in mouse embryonic stem cells. European Journal of Cell Biology, 2009, 88, 153-166.	3.6	37
46	Assessment of potential anti-cancer stem cell activity of marine algal compounds using an in vitro mammosphere assay. Cancer Cell International, 2013, 13, 39.	4.1	36
47	Plasmodial Hsp40 and Hsp70 chaperones: current and future perspectives. Parasitology, 2014, 141, 1167-1176.	1.5	34
48	Rational mutagenesis of a 40 kDa heat shock protein from Agrobacterium tumefaciens identifies amino acid residues critical to its in vivo function. International Journal of Biochemistry and Cell Biology, 2005, 37, 177-191.	2.8	33
49	Cytosolic and ER J-domains of mammalian and parasitic origin can functionally interact with DnaK. International Journal of Biochemistry and Cell Biology, 2007, 39, 736-751.	2.8	32
50	Knockdown of Hop downregulates RhoC expression, and decreases pseudopodia formation and migration in cancer cell lines. Cancer Letters, 2013, 328, 252-260.	7.2	32
51	STAT3 interacts directly with Hsp90. IUBMB Life, 2012, 64, 266-273.	3.4	31
52	Hsp90Î±/Î² associates with the GSK3Î²/axin1/phospho-Î²-catenin complex in the human MCF-7 epithelial breast cancer model. Biochemical and Biophysical Research Communications, 2011, 413, 550-554.	2.1	30
53	Heat shock cognate protein 70 chaperone-binding site in the co-chaperone murine stress-inducible protein 1 maps to within three consecutive tetratricopeptide repeat motifs. Biochemical Journal, 2000, 345, 645.	3.7	27
54	The in Vitro Phosphorylation of the Co-Chaperone mSTI1 by Cell Cycle Kinases Substantiates a Predicted Casein Kinase II-p34cdc2-NLS (CcN) Motif. Biological Chemistry, 2000, 381, 1133-8.	2.5	27

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55	A Trypanosoma cruzi heat shock protein 40 is able to stimulate the adenosine triphosphate hydrolysis activity of heat shock protein 70 and can substitute for a yeast heat shock protein 40. International Journal of Biochemistry and Cell Biology, 2004, 36, 1585-1598.	2.8	26
56	Netrin-1 as a potential target for metastatic cancer: focus on colorectal cancer. Cancer and Metastasis Reviews, 2014, 33, 101-113.	5.9	26
57	Synthesis and evaluation of phosphonated N-heteroarylcarboxamides as DOXP-reductoisomerase (DXR) inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 1321-1327.	3.0	25
58	<i>Plasmodium falciparum</i>Hsp70-x: a heat shock protein at the hostâ€“parasite interface. Journal of Biomolecular Structure and Dynamics, 2014, 32, 1766-1779.	3.5	25
59	The Malarial Exported PFA0660w Is an Hsp40 Co-Chaperone of PfHsp70-x. PLoS ONE, 2016, 11, e0148517.	2.5	25
60	Identification and characterization of a human mitochondrial homologue of the bacterial co-chaperone GrpE. Gene, 2001, 267, 125-134.	2.2	24
61	Chaperones as Parts of Cellular Networks. , 2007, 594, 55-63.		22
62	Co-expression of the Plasmodium falciparum molecular chaperone, PfHsp70, improves the heterologous production of the antimalarial drug target GTP cyclohydrolase I, PfGCHI. Protein Expression and Purification, 2011, 77, 159-165.	1.3	21
63	Plasmodial Hsp40s: New Avenues for Antimalarial Drug Discovery. Current Pharmaceutical Design, 2017, 23, 4555-4570.	1.9	18
64	A novel twist to protein secretion in eukaryotes. Trends in Parasitology, 2009, 25, 147-150.	3.3	17
65	Dimerization of the yeast eukaryotic translation initiation factorâ€ƒ5A requires hypusine and is RNA dependent. FEBS Journal, 2009, 276, 695-706.	4.7	17
66	PFB0595w is a Plasmodium falciparum J protein that co-localizes with PfHsp70-1 and can stimulate its in vitro ATP hydrolysis activity. International Journal of Biochemistry and Cell Biology, 2015, 62, 47-53.	2.8	17
67	The tetratricopeptide repeat: a structural motif mediating proteinâ€protein interactions. BioEssays, 1999, 21, 932-939.	2.5	17
68	Nucleotide sequence and analysis of the Vibrio alginolyticus scr repressor-encoding gene (scrR). Gene, 1991, 101, 45-50.	2.2	16
69	The in vivo and in vitro characterization of DnaK from Agrobacterium tumefaciens RUOR. Protein Expression and Purification, 2004, 38, 161-169.	1.3	16
70	Approaches to the isolation and characterization of molecular chaperones. Protein Expression and Purification, 2006, 46, 1-15.	1.3	16
71	Leukemia inhibitory factor promotes Hsp90 association with STAT3 in mouse embryonic stem cells. IUBMB Life, 2010, 62, 61-66.	3.4	16
72	Exploring DOXP-reductoisomerase binding limits using phosphonated N-aryl and N-heteroarylcarboxamides as DXR inhibitors. Bioorganic and Medicinal Chemistry, 2013, 21, 4332-4341.	3.0	16

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73	The Cochaperone Murine Stress-Inducible Protein 1: Overexpression, Purification, and Characterization. Protein Expression and Purification, 2001, 21, 462-469.	1.3	14
74	Binding and Activation by the Zinc Cluster Transcription Factors of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2002, 277, 45977-45983.	3.4	14
75	The Malarial Drug Target Plasmodium falciparum 1-Deoxy-D-Xylulose-5- Phosphate Reductoisomerase (PfDXR): Development of a 3-D Model for Identification of Novel, Structural and Functional Features and for Inhibitor Screening (Supplementary Information). Protein and Peptide Letters, 2010, 17, 109-120.	0.9	14
76	Exported plasmodial J domain protein, PFE0055c, and PfHsp70-x form a specific co-chaperone-chaperone partnership. Cell Stress and Chaperones, 2021, 26, 355-366.	2.9	14
77	A topologically conserved aliphatic residue in Î±-helix 6 stabilizes the hydrophobic core in domain II of glutathione transferases and is a structural determinant for the unfolding pathway. Biochemical Journal, 1998, 336, 413-418.	3.7	11
78	Vitamin D enzymes (CYP27A1, CYP27B1, and CYP24A1) and receptor expression in non-melanoma skin cancer. Acta Biochimica Et Biophysica Sinica, 2019, 51, 444-447.	2.0	10
79	Overproduction, purification and characterisation of Tbj1, a novel Type III Hsp40 from Trypanosoma brucei, the African sleeping sickness parasite. Protein Expression and Purification, 2010, 69, 168-177.	1.3	9
80	Sequence and domain conservation of the coelacanth Hsp40 and Hsp90 chaperones suggests conservation of function. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 359-378.	1.3	9
81	Trypanosoma brucei J protein 2 is a stress inducible and essential Hsp40. International Journal of Biochemistry and Cell Biology, 2015, 60, 93-98.	2.8	9
82	The Agrobacterium tumefaciens DnaK: ATPase cycle, oligomeric state and chaperone properties. International Journal of Biochemistry and Cell Biology, 2008, 40, 804-812.	2.8	8
83	3-Substituted Anilines as Scaffolds for the Construction of Glutamine Synthetase and DXP-Reductoisomerase Inhibitors. Synthetic Communications, 2009, 39, 2723-2736.	2.1	8
84	Theilerâ€™s murine encephalomyelitis virus infection induces a redistribution of heat shock proteins 70 and 90 in BHK-21 cells, and is inhibited by novobiocin and geldanamycin. Cell Stress and Chaperones, 2011, 16, 505-515.	2.9	8
85	Plasmodium falciparum Hep1 Is Required to Prevent the Self Aggregation of PfHsp70-3. PLoS ONE, 2016, 11, e0156446.	2.5	8
86	Proteomic analysis of Plasmodium falciparum histone deacetylase 1 complex proteins. Experimental Parasitology, 2019, 198, 7-16.	1.2	8
87	Role of the J Domain Protein Family in the Survival and Pathogenesis of Plasmodium falciparum. Advances in Experimental Medicine and Biology, 2021, 1340, 97-123.	1.6	8
88	STIP1/HOP Regulates the Actin Cytoskeleton through Interactions with Actin and Changes in Actin-Binding Proteins Cofilin and Profilin. International Journal of Molecular Sciences, 2020, 21, 3152.	4.1	7
89	Isolation of a Latimeria menadoensis heat shock protein 70 (Lmhsp70) that has all the features of an inducible gene and encodes a functional molecular chaperone. Molecular Genetics and Genomics, 2009, 282, 185-196.	2.1	6
90	The Proteolytic Profile of Human Cancer Procoagulant Suggests That It Promotes Cancer Metastasis at the Level of Activation Rather Than Degradation. Protein Journal, 2015, 34, 338-348.	1.6	6

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91	Hsp40 Co-chaperones as Drug Targets: Towards the Development of Specific Inhibitors. Topics in Medicinal Chemistry, 2015, , 163-195.	0.8	6
92	HOP expression is regulated by p53 and RAS and characteristic of a cancer gene signature. Cell Stress and Chaperones, 2017, 22, 213-223.	2.9	6
93	Plasmodium falciparum Molecular Chaperones: Guardians of the Malaria Parasite Proteome and Renovators of the Host Proteome. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	6
94	The Druggable Antimalarial Target PfDXR: Overproduction Strategies and Kinetic Characterization. Protein and Peptide Letters, 2013, 20, 115-124.	0.9	5
95	Screening for Small Molecule Modulators of Trypanosoma brucei Hsp70 Chaperone Activity Based upon Alcyonarian Coral-Derived Natural Products. Marine Drugs, 2020, 18, 81.	4.6	5
96	Stress Protein Responses in South African Freshwater Invertebrates Exposed to Detergent Surfactant Linear Alkylbenzene Sulfonate (LAS). Water, Air, and Soil Pollution, 2008, 193, 123-130.	2.4	4
97	The TPR2B Domain of the Hsp70/Hsp90 Organizing Protein (Hop) May Contribute Towards Its Dimerization. Protein and Peptide Letters, 2009, 16, 402-407.	0.9	4
98	The effect of cancer procoagulant on expression of metastatic and angiogenic markers in breast cancer and embryonic stem cell lines. Biological Chemistry, 2012, 393, 113-121.	2.5	4
99	Role of the Hsp40 Family of Proteins in the Survival and Pathogenesis of the Malaria Parasite. , 2014, , 71-85.		4
100	Protein biochemistry: Don't forget the cell biology. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 456.	2.3	3
101	Heat Shock Proteins of Malaria: Highlights and Future Prospects. Advances in Experimental Medicine and Biology, 2021, 1340, 237-246.	1.6	3
102	The tetratricopeptide repeat: a structural motif mediating protein-protein interactions. , 0, .		3
103	DFT study of a substrate and inhibitors of 1-deoxy-2-xylulose-5-phosphate reductoisomerase ? the potential novel target molecule for anti-malaria drug development. Journal of Molecular Modeling, 2001, 7, 378-383.	1.8	2
104	The PINIT domain of PIAS3: structureâ€function analysis of its interaction with STAT3. Journal of Molecular Recognition, 2011, 24, 795-803.	2.1	2
105	Hop: An Hsp70/Hsp90 Co-Chaperone That Functions Within and Beyond Hsp70/Hsp90 Protein Folding Pathways. , 2007, , 26-37.		2
106	Synthesis of 2,3-dihydroxy-3-(N-substituted carbamoyl)propylphosphonic acid derivatives as hybrid DOXP-fosmidomycin analogues. Journal of Molecular Structure, 2022, 1256, 132453.	3.6	2
107	Targeting Conserved Pathways as a Strategy for Novel Drug Development: Disabling the Cellular Stress Response. , 2012, , 85-99.		1
108	Heat Shock Proteins of Malaria: What Do We Not Know, and What Should the Future Focus Be?. , 2014, , 207-211.		1

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109	Netrin-1-like-immunoreactivity Coexpresses With DCC and Has a Differential Level in the Myenteric Cholinergic and Nitrergic Neurons of the Adult Mouse Colon. Journal of Histochemistry and Cytochemistry, 2019, 67, 335-349.	2.5	0
110	Hsp70s and J Proteins of Plasmodium Parasites Infecting Rodents and Primates: Structure, Function, Clinical Relevance, and Drug Targets. Current Pharmaceutical Design, 2012, 19, 387-403.	1.9	0
111	The Druggable Antimalarial Target PfDXR: Overproduction Strategies and Kinetic Characterization. Protein and Peptide Letters, 2012, 20, 115-124.	0.9	0
112	Heat Shock Proteins. , 2013, , 1-9.		0