Chrisostomos Prodromou

List of Articles by Year
in descending order

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106 peer-reviewed articles	12,254 peer-reviewed citations	44087 49 peer-reviewed h-index	66137 6.59 score
115 documents	14282 doc citations	49846 51 h-index	16378 citing authors

#	Article	IF	Citations
1	The role of the FKBP51–Hsp90 complex in Alzheimer's disease: An emerging new drug target. Cell Stress and Chaperones, 2024, 29, 792-804.	2.4	21
2	Malachite Green Assay for the Discovery of Heat-Shock Protein 90 Inhibitors. Journal of Visualized Experiments, 2023, , .	0.2	5
3	The Crystal Structure of the Hsp90-LA1011 Complex and the Mechanism by Which LA1011 May Improve the Prognosis of Alzheimer's Disease. Biomolecules, 2023, 13, 1051.	3.1	15
4	Advances towards Understanding the Mechanism of Action of the Hsp90 Complex. Biomolecules, 2022, 12, 600.	3.1	50
5	Recognition of BRAF by CDC37 and Re-Evaluation of the Activation Mechanism for the Class 2 BRAF-L597R Mutant. Biomolecules, 2022, 12, 905.	3.1	3
6	Structure of the TELO2-TTI1-TTI2 complex and its function in TOR recruitment to the R2TP chaperone. Cell Reports, 2021, 36, 109317.	4.4	38
7	Two-colour single-molecule photoinduced electron transfer fluorescence imaging microscopy of chaperone dynamics. Nature Communications, 2021, 12, .	10.8	33
8	Clinical and functional analyses of AIPL1 variants reveal mechanisms of pathogenicity linked to different forms of retinal degeneration. Scientific Reports, 2020, 10, .	2.7	20
9	The structure-function relationship of oncogenic LMTK3. Science Advances, 2020, 6, .	8.1	38
10	Chemical Perturbation of Oncogenic Protein Folding: from the Prediction of Locally Unstable Structures to the Design of Disruptors of Hsp90–Client Interactions. Chemistry - A European Journal, 2020, 26, 9459-9465.	2.4	54
11	Post-translational Regulation of FNIP1 Creates a Rheostat for the Molecular Chaperone Hsp90. Cell Reports, 2019, 26, 1344-1356.e5.	4.4	53
12	Hsp90 middle domain phosphorylation initiates a complex conformational program to recruit the ATPase-stimulating cochaperone Aha1. Nature Communications, 2019, 10, .	10.8	56
13	Structural mechanism for regulation of the AAA-ATPases RUVBL1-RUVBL2 in the R2TP co-chaperone revealed by cryo-EM. Science Advances, 2019, 5, .	8.1	55
14	In vivo bioassay to test the pathogenicity of missense human AIP variants. Journal of Medical Genetics, 2018, 55, 522-529.	2.2	24
15	RPAP3 provides a flexible scaffold for coupling HSP90 to the human R2TP co-chaperone complex. Nature Communications, 2018, 9, .	10.8	76
16	The integrity and organization of the human AIPL1 functional domains is critical for its role as a HSP90-dependent co-chaperone for rod PDE6. Human Molecular Genetics, 2018, 27, 1309-1309.	2.1	6
17	The Stoichiometric Interaction of the Hsp90-Sgt1-Rar1 Complex by CD and SRCD Spectroscopy. Frontiers in Molecular Biosciences, 2018, 4, .	2.4	15
18	Dihydropyridines Allosterically Modulate Hsp90 Providing a Novel Mechanism for Heat Shock Protein Co-induction and Neuroprotection. Frontiers in Molecular Biosciences, 2018, 5, .	2.4	35

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19	HECTD3 Mediates an HSP90-Dependent Degradation Pathway for Protein Kinase Clients. Cell Reports, 2017, 19, 2515-2528.	4.4	30
20	Differential Regulation of G1 CDK Complexes by the Hsp90-Cdc37 Chaperone System. Cell Reports, 2017, 21, 1386-1398.	4.4	64
21	The integrity and organization of the human AIPL1 functional domains is critical for its role as a HSP90-dependent co-chaperone for rod PDE6. Human Molecular Genetics, 2017, 26, 4465-4480.	2.1	22
22	Tumor suppressor Tsc1 is a new Hsp90 co-chaperone that facilitates folding of kinase and non-kinase clients. EMBO Journal, 2017, 36, 3650-3665.	5.1	85
23	The Structure of the R2TP Complex Defines a Platform for Recruiting Diverse Client Proteins to the HSP90 Molecular Chaperone System. Structure, 2017, 25, 1145-1152.e4.	2.4	65
24	Regulatory Mechanisms of Hsp90. Biochemistry & Molecular Biology Journal, 2017, 03, .	0.0	30
25	The structure of FKBP38 in complex with the MEEVD tetratricopeptide binding-motif of Hsp90. PLoS ONE, 2017, 12, e0173543.	1.5	39
26	Dihydropyridine Derivatives Modulate Heat Shock Responses and have a Neuroprotective Effect in a Transgenic Mouse Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2016, 53, 557-571.	1.6	41
27	Mechanisms of Hsp90 regulation. Biochemical Journal, 2016, 473, 2439-2452.	2.3	309
28	Rapid Proteasomal Degradation of Mutant Proteins Is the Primary Mechanism Leading to Tumorigenesis in Patients With MissenseAIPMutations. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3144-3154.	3.1	60
29	The FNIP co-chaperones decelerate the Hsp90 chaperone cycle and enhance drug binding. Nature Communications, 2016, 7, .	10.8	76
30	Cooperation of local motions in the Hsp90 molecular chaperone ATPase mechanism. Nature Chemical Biology, 2016, 12, 628-635.	9.1	92
31	Mps1 Mediated Phosphorylation of Hsp90 Confers Renal Cell Carcinoma Sensitivity and Selectivity to Hsp90 Inhibitors. Cell Reports, 2016, 14, 872-884.	4.4	78
32	Tah1 helix-swap dimerization prevents mixed Hsp90 co-chaperone complexes. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1197-1206.	3.1	17
33	c-Abl Mediated Tyrosine Phosphorylation of Aha1 Activates Its Co-chaperone Function in Cancer Cells. Cell Reports, 2015, 12, 1006-1018.	4.4	63
34	Asymmetric Hsp90 N Domain SUMOylation Recruits Aha1 and ATP-Competitive Inhibitors. Molecular Cell, 2014, 53, 317-329.	8.6	123
35	Synthesis of macrolactam analogues of radicicol and their binding to heat shock protein Hsp90. Organic and Biomolecular Chemistry, 2014, 12, 1328.	1.8	25
36	Structural Basis for Phosphorylation-Dependent Recruitment of Tel2 to Hsp90 by Pih1. Structure, 2014, 22, 805-818.	2.4	99

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37	Structural basis for the interaction of HSP90 with R2TP and TTT complexes. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1666-C1666.	0.0	0
38	Synthesis of 19-substituted geldanamycins with altered conformations and their binding to heat shock protein Hsp90. Nature Chemistry, 2013, 5, 307-314.	15.5	84
39	ATP-competitive inhibitors block protein kinase recruitment to the Hsp90-Cdc37 system. Nature Chemical Biology, 2013, 9, 307-312.	9.1	153
40	Restricting direct interaction of CDC37 with HSP90 does not compromise chaperoning of client proteins. Oncogene, 2013, 34, 15-26.	5.2	43
41	Charged linker sequence modulates eukaryotic heat shock protein 90 (Hsp90) chaperone activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2937-2942.	5.2	125
42	CDK-Dependent Hsp70 Phosphorylation Controls G1 Cyclin Abundance and Cell-Cycle Progression. Cell, 2012, 151, 1308-1318.	23.4	144
43	Dynamic Tyrosine Phosphorylation Modulates Cycling of the HSP90-P50CDC37-AHA1 Chaperone Machine. Molecular Cell, 2012, 47, 434-443.	8.6	132
44	Structure of the TPR Domain of AIP: Lack of Client Protein Interaction with the C-Terminal α-7 Helix of the TPR Domain of AIP Is Sufficient for Pituitary Adenoma Predisposition. PLoS ONE, 2012, 7, e53339.	1.5	74
45	The 'active life' of Hsp90 complexes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 614-623.	2.5	173
46	Co-Crystalization and In Vitro Biological Characterization of 5-Aryl-4-(5-Substituted-2-4-Dihydroxyphenyl)-1,2,3-Thiadiazole Hsp90 Inhibitors. PLoS ONE, 2012, 7, e44642.	1.5	20
47	Targeting the Hsp90 Molecular Chaperone with Novel Macrolactams. Synthesis, Structural, Binding, and Cellular Studies. ACS Chemical Biology, 2011, 6, 1339-1347.	2.5	27
48	Threonine 22 Phosphorylation Attenuates Hsp90 Interaction with Cochaperones and Affects Its Chaperone Activity. Molecular Cell, 2011, 41, 672-681.	8.6	165
49	Cloning, expression and structure determination of the major extracellular domain of the PepT***1 oligopeptide transporter. Journal of Pharmacy and Pharmacology, 2011, 50, 234-234.	2.5	0
50	Features of the Streptomyces hygroscopicus HtpG reveal how partial geldanamycin resistance can arise with mutation to the ATP binding pocket of a eukaryotic Hsp90. FASEB Journal, 2011, 25, 3828-3837.	2.3	35
51	A Combinatorial Method to Enable Detailed Investigation of Protein–Protein Interactions. Future Medicinal Chemistry, 2011, 3, 271-282.	1.8	5
52	A simple yeast-based system for analyzing inhibitor resistance in the human cancer drug targets Hsp90α/β. Biochemical Pharmacology, 2010, 79, 1581-1588.	3.7	20
53	Inhibition of Hsp90 with Resorcylic Acid Macrolactones: Synthesis and Binding Studies. Chemistry - A European Journal, 2010, 16, 10366-10372.	2.4	24
54	Detection of the ATPase Activity of the Molecular Chaperones Hsp90 and Hsp72 Using the Transcreener™ ADP Assay Kit. SLAS Discovery, 2010, 15, 279-286.	1.9	32

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55	Swe1Wee1-Dependent Tyrosine Phosphorylation of Hsp90 Regulates Distinct Facets of Chaperone Function. Molecular Cell, 2010, 37, 333-343.	8.6	190
56	Structural Basis for Assembly of Hsp90-Sgt1-CHORD Protein Complexes: Implications for Chaperoning of NLR Innate Immunity Receptors. Molecular Cell, 2010, 39, 269-281.	8.6	124
57	Hsp90 charged-linker truncation reverses the functional consequences of weakened hydrophobic contacts in the N domain. Nature Structural and Molecular Biology, 2009, 16, 1141-1147.	5.8	85
58	A common conformationally coupled ATPase mechanism for yeast and human cytoplasmic HSP90s. FEBS Journal, 2009, 276, 199-209.	3.3	53
59	Structural–Thermodynamic Relationships of Interactions in the N-Terminal ATP-Binding Domain of Hsp90. Journal of Molecular Biology, 2009, 392, 923-936.	2.9	20
60	Structural Basis of the Radicicol Resistance Displayed by a Fungal Hsp90. ACS Chemical Biology, 2009, 4, 289-297.	2.5	54
61	Structural and functional coupling of Hsp90- and Sgt1-centred multi-protein complexes. EMBO Journal, 2008, 27, 2789-2798.	5.1	120
62	4,5-Diarylisoxazole Hsp90 Chaperone Inhibitors: Potential Therapeutic Agents for the Treatment of Cancer. Journal of Medicinal Chemistry, 2008, 51, 196-218.	4.0	421
63	Hsp90-Dependent Activation of Protein Kinases Is Regulated by Chaperone-Targeted Dephosphorylation of Cdc37. Molecular Cell, 2008, 31, 886-895.	8.6	200
64	Optimizing Natural Products by Biosynthetic Engineering: Discovery of Nonquinone Hsp90 Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 5494-5497.	4.0	85
65	Molecular Characterization of Macbecin as an Hsp90 Inhibitor. Journal of Medicinal Chemistry, 2008, 51, 2853-2857.	4.0	61
66	The Hsp90 molecular chaperone: an open and shut case for treatment. Biochemical Journal, 2008, 410, 439-453.	2.3	430
67	The ATPase-dependent chaperoning activity of Hsp90a regulates thick filament formation and integration during skeletal muscle myofibrillogenesis. Development (Cambridge), 2008, 135, 1147-1156.	2.1	98
68	Chaperone ligand-discrimination by the TPR-domain protein Tah1. Biochemical Journal, 2008, 413, 261-268.	2.3	50
69	In the Yeast Heat Shock Response, Hsf1-Directed Induction of Hsp90 Facilitates the Activation of the Slt2 (Mpk1) Mitogen-Activated Protein Kinase Required for Cell Integrity. Eukaryotic Cell, 2007, 6, 744-752.	2.7	59
70	DNA fragmentation-based combinatorial approaches to soluble protein expression. Drug Discovery Today, 2007, 12, 931-938.	5.0	20
71	DNA fragmentation based combinatorial approaches to soluble protein expression. Drug Discovery Today, 2007, 12, 939-947.	5.0	11
72	Structure and Mechanism of the Hsp90 Molecular Chaperone Machinery. Annual Review of Biochemistry, 2006, 75, 271-294.	14.0	1,058

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73	Structure of an Hsp90-Cdc37-Cdk4 Complex. Molecular Cell, 2006, 23, 697-707.	8.6	295
74	Crystal structure of an Hsp90–nucleotide–p23/Sba1 closed chaperone complex. Nature, 2006, 440, 1013-1017.	30.7	943
75	Inhibition of Hsp90 with Synthetic Macrolactones: Synthesis and Structural and Biological Evaluation of Ring and Conformational Analogs of Radicicol. Chemistry and Biology, 2006, 13, 1203-1215.	4.7	65
76	Combinatorial Domain Hunting: An effective approach for the identification of soluble protein domains adaptable to high-throughput applications. Protein Science, 2006, 15, 2356-2365.	3.5	35
77	Expressed in the Yeast Saccharomyces cerevisiae, Human ERK5 Is a Client of the Hsp90 Chaperone That Complements Loss of the Slt2p (Mpk1p) Cell Integrity Stress-Activated Protein Kinase. Eukaryotic Cell, 2006, 5, 1914-1924.	2.7	68
78	The identification, synthesis, protein crystal structure and in vitro biochemical evaluation of a new 3,4-diarylpyrazole class of Hsp90 inhibitors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3338-3343.	1.5	234
79	Qri2/Nse4, a component of the essential Smc5/6 DNA repair complex. Molecular Microbiology, 2005, 55, 1735-1750.	1.8	43
80	A Two-Hybrid Screen of the Yeast Proteome for Hsp90 Interactors Uncovers a Novel Hsp90 Chaperone Requirement in the Activity of a Stress-Activated Mitogen-Activated Protein Kinase, Slt2p (Mpk1p). Eukaryotic Cell, 2005, 4, 849-860.	2.7	170
81	Chaperoned Ubiquitylation—Crystal Structures of the CHIP U Box E3 Ubiquitin Ligase and a CHIP-Ubc13-Uev1a Complex. Molecular Cell, 2005, 20, 525-538.	8.6	420
82	Investigating the protein-protein interactions of the yeast Hsp90 chaperone system by two-hybrid analysis: potential uses and limitations of this approach. Cell Stress and Chaperones, 2004, 9, 359.	2.4	42
83	Co-chaperone Regulation of Conformational Switching in the Hsp90 ATPase Cycle. Journal of Biological Chemistry, 2004, 279, 51989-51998.	1.3	199
84	Structural basis for recruitment of the ATPase activator Aha1 to the Hsp90 chaperone machinery. EMBO Journal, 2004, 23, 511-519.	5.1	176
85	High-throughput screening assay for inhibitors of heat-shock protein 90 ATPase activity. Analytical Biochemistry, 2004, 327, 176-183.	2.0	206
86	The Mechanism of Hsp90 Regulation by the Protein Kinase-Specific Cochaperone p50cdc37. Cell, 2004, 116, 87-98.	23.4	346
87	Sensitivity to Hsp90-targeting drugs can arise with mutation to the Hsp90 chaperone, cochaperones and plasma membrane ATP binding cassette transporters of yeast. FEBS Journal, 2003, 270, 4689-4695.	0.2	56
88	Yeast is selectively hypersensitised to heat shock protein 90 (Hsp90)-targetting drugs with heterologous expression of the human Hsp90β, a property that can be exploited in screens for new Hsp90 chaperone inhibitors. Gene, 2003, 302, 165-170.	1.6	52
89	Structural and Functional Analysis of the Middle Segment of Hsp90: Implications for ATP Hydrolysis and Client Protein and Cochaperone Interactions. Molecular Cell, 2003, 11, 647-658.	8.6	482
90	Regulation of Hsp90 ATPase Activity by the Co-chaperone Cdc37p/p50. Journal of Biological Chemistry, 2002, 277, 20151-20159.	1.3	259

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92	Title is missing!. Journal of Biomolecular NMR, 2002, 23, 327-328.	1.6	19
93	Structure, function, and mechanism of the Hsp90 molecular chaperone. Advances in Protein Chemistry, 2001, , 157-186.	5.3	179
94	Structure and in vivo function of Hsp90. Current Opinion in Structural Biology, 2000, 10, 46-51.	4.6	301
95	The ATPase cycle of Hsp90 drives a molecular clamp' via transient dimerization of the N-terminal domains. EMBO Journal, 2000, 19, 4383-4392.	5.1	460
96	Structural Basis for Inhibition of the Hsp90 Molecular Chaperone by the Antitumor Antibiotics Radicicol and Geldanamycin. Journal of Medicinal Chemistry, 1999, 42, 260-266.	4.0	1,000
97	Regulation of Hsp90 ATPase activity by tetratricopeptide repeat (TPR)-domain co-chaperones. EMBO Journal, 1999, 18, 754-762.	5.1	399
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100	A molecular clamp in the crystal structure of the N-terminal domain of the yeast Hsp90 chaperone. Nature Structural Biology, 1997, 4, 477-482.	11.0	230
101	Synthesis of a modified gene encoding human ornithine transcarbamylase for expression in mammalian mitochondrial and universal translation systems: a novel approach towards correction of a genetic defect. Gene, 1996, 169, 251-255.	1.6	15
102	Recursive PCR: a novel technique for total gene synthesis. Protein Engineering, Design and Selection, 1992, 5, 827-829.	2.2	228
103	The aconitase of Escherichia coli. Nucleotide sequence of the aconitase gene and amino acid sequence similarity with mitochondrial aconitases, the iron-responsive-element-binding protein and isopropylmalate isomerases. FEBS Journal, 1992, 204, 599-609.	0.2	76
104	Cloning of theHIS3 gene ofYarrowia lipolytica. Antonie Van Leeuwenhoek, 1991, 60, 95-99.	1.2	3
105	The aconitase of Escherichia coli: purification of the enzyme and molecular cloning and map location of the gene (acn). Journal of General Microbiology, 1991, 137, 2505-2515.	1.5	38
106	The dihydropyridine LA1011 modulates multiple Hsp90—co-chaperone interactions relevant to Alzheimer's disease. Cell Stress and Chaperones, 0, 31, 100131.	2.4	0