Mehdi Mollapour

List of Publications by Year
in descending order

87 papers	6,058 citations	66343 42 h-index	71685 76 g-index
102 all docs	102 docs citations	102 times ranked	6640 citing authors

#	Article	IF	Citations
1	Targeting the dynamic HSP90 complex in cancer. Nature Reviews Cancer, 2010, 10, 537-549.	28.4	1,306
2	Activation of the ATPase Activity of Hsp90 by the Stress-Regulated Cochaperone Aha1. Molecular Cell, 2002, 10, 1307-1318.	9.7	487
3	Post-translational modifications of Hsp90 and their contributions to chaperone regulation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 648-655.	4.1	248
4	Hog1 Mitogen-Activated Protein Kinase Phosphorylation Targets the Yeast Fps1 Aquaglyceroporin for Endocytosis, Thereby Rendering Cells Resistant to Acetic Acid. Molecular and Cellular Biology, 2007, 27, 6446-6456.	2.3	225
5	Fumarate Hydratase Deficiency in Renal Cancer Induces Glycolytic Addiction and Hypoxia-Inducible Transcription Factor 1Î± Stabilization by Glucose-Dependent Generation of Reactive Oxygen Species. Molecular and Cellular Biology, 2009, 29, 4080-4090.	2.3	212
6	Hsp90-Dependent Activation of Protein Kinases Is Regulated by Chaperone-Targeted Dephosphorylation of Cdc37. Molecular Cell, 2008, 31, 886-895.	9.7	184
7	Swe1Wee1-Dependent Tyrosine Phosphorylation of Hsp90 Regulates Distinct Facets of Chaperone Function. Molecular Cell, 2010, 37, 333-343.	9.7	165
8	Threonine 22 Phosphorylation Attenuates Hsp90 Interaction with Cochaperones and Affects Its Chaperone Activity. Molecular Cell, 2011, 41, 672-681.	9.7	146
9	War1p, a Novel Transcription Factor Controlling Weak Acid Stress Response in Yeast. Molecular and Cellular Biology, 2003, 23, 1775-1785.	2.3	129
10	Post-translational modifications of Hsp90 and translating the chaperone code. Journal of Biological Chemistry, 2020, 295, 11099-11117.	3.4	115
11	Dynamic Tyrosine Phosphorylation Modulates Cycling of the HSP90-P50CDC37-AHA1 Chaperone Machine. Molecular Cell, 2012, 47, 434-443.	9.7	113
12	Weak organic acid stress inhibits aromatic amino acid uptake by yeast, causing a strong influence of amino acid auxotrophies on the phenotypes of membrane transporter mutants. FEBS Journal, 2003, 270, 3189-3195.	0.2	110
13	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.	7.1	107
14	Asymmetric Hsp90ÂN Domain SUMOylation Recruits Aha1 and ATP-Competitive Inhibitors. Molecular Cell, 2014, 53, 317-329.	9.7	101
15	Mnsod overexpression extends the yeast chronological (G0) life span but acts independently of Sir2p histone deacetylase to shorten the replicative life span of dividing cells. Free Radical Biology and Medicine, 2003, 34, 1599-1606.	2.9	89
16	Hog1p mitogen-activated protein kinase determines acetic acid resistance inSaccharomyces cerevisiae. FEMS Yeast Research, 2006, 6, 1274-1280.	2.3	84
17	A systematic protocol for the characterization of Hsp90 modulators. Bioorganic and Medicinal Chemistry, 2011, 19, 684-692.	3.0	80
18	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.	8.2	78

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19	Expressed as the sole Hsp90 of yeast, the Î± and Î² isoforms of human Hsp90 differ with regard to their capacities for activation of certain client proteins, whereas only Hsp90Î² generates sensitivity to the Hsp90 inhibitor radicicol. FEBS Journal, 2007, 274, 4453-4463.	4.7	76
20	Hsp90 phosphorylation, Wee1 and the cell cycle. Cell Cycle, 2010, 9, 2310-2316.	2.6	74
21	Screening the yeast deletant mutant collection for hypersensitivity and hyper-resistance to sorbate, a weak organic acid food preservative. Yeast, 2004, 21, 927-946.	1.7	73
22	The shortened replicative life span of prohibitin mutants of yeast appears to be due to defective mitochondrial segregation in old mother cells. Aging Cell, 2002, 1, 149-157.	6.7	69
23	Structural and functional basis of protein phosphatase 5 substrate specificity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9009-9014.	7.1	66
24	Tumor suppressor Tsc1 is a new Hsp90 coâ€chaperone that facilitates folding of kinase and nonâ€kinase clients. EMBO Journal, 2017, 36, 3650-3665.	7.8	64
25	Moderately lipophilic carboxylate compounds are the selective inducers of theSaccharomyces cerevisiaePdr12p ATP-binding cassette transporter. Yeast, 2003, 20, 575-585.	1.7	63
26	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.	3.4	60
27	Novel stress responses facilitate <i>Saccharomyces cerevisiae</i> growth in the presence of the monocarboxylate preservatives. Yeast, 2008, 25, 169-177.	1.7	60
28	Mps1 Mediated Phosphorylation of Hsp90 Confers Renal Cell Carcinoma Sensitivity and Selectivity to Hsp90 Inhibitors. Cell Reports, 2016, 14, 872-884.	6.4	60
29	Post-translational modification and conformational state of Heat Shock Protein 90 differentially affect binding of chemically diverse small molecule inhibitors. Oncotarget, 2013, 4, 1065-1074.	1.8	58
30	The FNIP co-chaperones decelerate the Hsp90 chaperone cycle and enhance drug binding. Nature Communications, 2016, 7, 12037.	12.8	56
31	The ZbYME2 gene from the food spoilage yeast Zygosaccharomyces bailii confers not only YME2 functions in Saccharomyces cerevisiae, but also the capacity for catabolism of sorbate and benzoate, two major weak organic acid preservatives. Molecular Microbiology, 2001, 42, 919-930.	2.5	54
32	Contributions of co-chaperones and post-translational modifications towards Hsp90 drug sensitivity. Future Medicinal Chemistry, 2013, 5, 1059-1071.	2.3	54
33	c-Abl Mediated Tyrosine Phosphorylation of Aha1 Activates Its Co-chaperone Function in Cancer Cells. Cell Reports, 2015, 12, 1006-1018.	6.4	54
34	Casein kinase 2 phosphorylation of Hsp90 threonine 22 modulates chaperone function and drug sensitivity. Oncotarget, 2011, 2, 407-417.	1.8	53
35	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	52
36	Yeast is selectively hypersensitised to heat shock protein 90 (Hsp90)-targetting drugs with heterologous expression of the human Hsp90Î², a property that can be exploited in screens for new Hsp90 chaperone inhibitors. Gene, 2003, 302, 165-170.	2.2	51

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37	Co-chaperones TIMP2 and AHA1 Competitively Regulate Extracellular HSP90:Client MMP2 Activity and Matrix Proteolysis. Cell Reports, 2019, 28, 1894-1906.e6.	6.4	50
38	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.	3.4	49
39	The HSP90 Inhibitor Ganetespib Synergizes with the MET Kinase Inhibitor Crizotinib in both Crizotinib-Sensitive and -Resistant MET-Driven Tumor Models. Cancer Research, 2013, 73, 7022-7033.	0.9	49
40	Targeted gene deletion inZygosaccharomyces bailii. Yeast, 2001, 18, 173-186.	1.7	47
41	Tumor-Intrinsic and Tumor-Extrinsic Factors Impacting Hsp90- Targeted Therapy. Current Molecular Medicine, 2012, 12, 1125-1141.	1.3	47
42	Qri2/Nse4, a component of the essential Smc5/6 DNA repair complex. Molecular Microbiology, 2005, 55, 1735-1750.	2.5	43
43	Overexpressed Sod1p acts either to reduce or to increase the lifespans and stress resistance of yeast, depending on whether it is Cu2+-deficient or an active Cu,Zn-superoxide dismutase. Aging Cell, 2005, 4, 41-52.	6.7	43
44	The complex dance of the molecular chaperone Hsp90. Trends in Biochemical Sciences, 2009, 34, 223-226.	7.5	40
45	Phosphorylation and Ubiquitination Regulate Protein Phosphatase 5 Activity and Its Prosurvival Role in Kidney Cancer. Cell Reports, 2017, 21, 1883-1895.	6.4	40
46	Chemical Perturbation of Oncogenic Protein Folding: from the Prediction of Locally Unstable Structures to the Design of Disruptors of Hsp90â€"Client Interactions. Chemistry - A European Journal, 2020, 26, 9459-9465.	3.3	39
47	Post-translational Regulation of FNIP1 Creates a Rheostat for the Molecular Chaperone Hsp90. Cell Reports, 2019, 26, 1344-1356.e5.	6.4	38
48	Impact of Posttranslational Modifications on the Anticancer Activity of Hsp90 Inhibitors. Advances in Cancer Research, 2016, 129, 31-50.	5.0	36
49	Structural and functional regulation of lactate dehydrogenase-A in cancer. Future Medicinal Chemistry, 2020, 12, 439-455.	2.3	33
50	Targeting Hsp90 in urothelial carcinoma. Oncotarget, 2015, 6, 8454-8473.	1.8	31
51	Extracellular Phosphorylation of TIMP-2 by Secreted c-Src Tyrosine Kinase Controls MMP-2 Activity. IScience, 2018, 1, 87-96.	4.1	29
52	Structure and function of the co-chaperone protein phosphatase 5 in cancer. Cell Stress and Chaperones, 2020, 25, 383-394.	2.9	28
53	Combined inhibition of Wee1 and Hsp90 activates intrinsic apoptosis in cancer cells. Cell Cycle, 2012, 11, 3649-3655.	2.6	23
54	The tumor suppressor folliculin inhibits lactate dehydrogenase A and regulates the Warburg effect. Nature Structural and Molecular Biology, 2021, 28, 662-670.	8.2	19

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55	Mutation of the co-chaperone Tsc1 in bladder cancer diminishes Hsp90 acetylation and reduces drug sensitivity and selectivity. Oncotarget, 2019, 10, 5824-5834.	1.8	18
56	A specialized Hsp90 co-chaperone network regulates steroid hormone receptor response to ligand. Cell Reports, 2022, 40, 111039.	6.4	15
57	Chromophobe Renal Cell Carcinoma is the Most Common Nonclear Renal Cell Carcinoma in Young Women: Results from the SEER Database. Journal of Urology, 2016, 195, 847-851.	0.4	14
58	The mTOR Independent Function of Tsc1 and FNIPs. Trends in Biochemical Sciences, 2018, 43, 935-937.	7.5	14
59	Design of Disruptors of the Hsp90â€"Cdc37 Interface. Molecules, 2020, 25, 360.	3.8	14
60	TRAP1 Chaperones the Metabolic Switch in Cancer. Biomolecules, 2022, 12, 786.	4.0	14
61	Visualizing the twists and turns of a molecular chaperone. Nature Structural and Molecular Biology, 2009, 16, 235-236.	8.2	13
62	Detecting Posttranslational Modifications of Hsp90. Methods in Molecular Biology, 2018, 1709, 209-219.	0.9	13
63	Fumarate hydratase as a therapeutic target in renal cancer. Expert Opinion on Therapeutic Targets, 2020, 24, 923-936.	3.4	12
64	Decrypting the chaperone code. Journal of Biological Chemistry, 2021, 296, 100293.	3.4	12
65	Targeting Hsp90 in Non-Cancerous Maladies. Current Topics in Medicinal Chemistry, 2016, 16, 2792-2804.	2.1	12
66	Comprehensive genomic profiling of metastatic collecting duct carcinoma, renal medullary carcinoma, and clear cell renal cell carcinoma. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 367.e1-367.e5.	1.6	11
67	Sporadic renal angiomyolipoma in a patient with Birt-Hogg-DubÃ©: chaperones in pathogenesis. Oncotarget, 2018, 9, 22220-22229.	1.8	11
68	The dynamic interactome of human Aha1 upon Y223 phosphorylation. Data in Brief, 2015, 5, 752-755.	1.0	10
69	Renal cell carcinoma and brain metastasis: Questioning the dogma of role for cytoreductive nephrectomy. Urologic Oncology: Seminars and Original Investigations, 2019, 37, 182.e9-182.e15.	1.6	10
70	The Hsp90/Cdc37p chaperone system is a determinant of molybdate resistance in <i>Saccharomyces cerevisiae</i>. Yeast, 2009, 26, 339-347.	1.7	9
71	Activity of the yeast zincâ€finger transcription factor War1 is lost with alanine mutation of two putative phosphorylation sites in the activation domain. Yeast, 2012, 29, 39-44.	1.7	9
72	Detection and Analysis of Extracellular Hsp90 (eHsp90). Methods in Molecular Biology, 2018, 1709, 321-329.	0.9	9

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73	The multiple facets of the Hsp90 machine. Nature Structural and Molecular Biology, 2019, 26, 92-95.	8.2	9
74	MMPs, tyrosine kinase signaling and extracellular matrix proteolysis in kidney cancer. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 316-321.	1.6	9
75	Clinically Advanced Pheochromocytomas and Paragangliomas: A Comprehensive Genomic Profiling Study. Cancers, 2021, 13, 3312.	3.7	9
76	Hsp90 chaperone code and the tumor suppressor VHL cooperatively regulate the mitotic checkpoint. Cell Stress and Chaperones, 2021, 26, 965-971.	2.9	9
77	Therapeutic potential of CDK4/6 inhibitors in renal cell carcinoma. Nature Reviews Urology, 2022, 19, 305-320.	3.8	9
78	Comprehensive genomic profiling of histologic subtypes of urethral carcinomas. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 731.e1-731.e15.	1.6	7
79	Detecting HSP90 Phosphorylation. Methods in Molecular Biology, 2011, 787, 67-74.	0.9	7
80	The Role of Heat Shock Protein-90 in the Pathogenesis of Birt-Hogg-DubÃ© and Tuberous Sclerosis Complex Syndromes. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 322-326.	1.6	6
81	<i>PBRM1</i> mutation and immunotherapy efficacy: A comprehensive genomic profiling (CGP) assessment.. Journal of Clinical Oncology, 2018, 36, 12091-12091.	1.6	4
82	Seventh BHD international symposium: recent scientific and clinical advancement. Oncotarget, 2022, 13, 173-181.	1.8	4
83	Emerging Link between Tsc1 and FNIP Co-Chaperones of Hsp90 and Cancer. Biomolecules, 2022, 12, 928.	4.0	2
84	First Virtual International Congress on Cellular and Organismal Stress Responses, November 5â€“6, 2020. Cell Stress and Chaperones, 2021, 26, 289-295.	2.9	0
85	Carcinomas of the renal medulla: A comprehensive genomic profiling (CGP) study.. Journal of Clinical Oncology, 2018, 36, 640-640.	1.6	0
86	Carcinomas of the renal medulla: A comprehensive genomic profiling (CGP) study.. Journal of Clinical Oncology, 2018, 36, e16586-e16586.	1.6	0
87	Clinically advanced renal cell carcinoma (RCC) and renal sarcoma (RSC) in young patients: A comprehensive genomic profiling (CGP) study.. Journal of Clinical Oncology, 2020, 38, 5066-5066.	1.6	0