

Christosomos Prodromou

List of Publications by Year in descending order

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119
papers

15,629
citations

36691

53
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all docs

125
docs citations

125
times ranked

11193
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and Structural Characterization of the ATP/ADP-Binding Site in the Hsp90 Molecular Chaperone. <i>Cell</i> , 1997, 90, 65-75.	13.5	1,203
2	Structure and Mechanism of the Hsp90 Molecular Chaperone Machinery. <i>Annual Review of Biochemistry</i> , 2006, 75, 271-294.	5.0	988
3	Structural Basis for Inhibition of the Hsp90 Molecular Chaperone by the Antitumor Antibiotics Radicol and Geldanamycin. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 260-266.	2.9	948
4	Crystal structure of an Hsp90- α -nucleotide- β 23/Sba1 closed chaperone complex. <i>Nature</i> , 2006, 440, 1013-1017.	13.7	857
5	ATP binding and hydrolysis are essential to the function of the Hsp90 molecular chaperone <i>in vivo</i> . <i>EMBO Journal</i> , 1998, 17, 4829-4836.	3.5	662
6	Activation of the ATPase Activity of Hsp90 by the Stress-Regulated Cochaperone Aha1. <i>Molecular Cell</i> , 2002, 10, 1307-1318.	4.5	487
7	Structural and Functional Analysis of the Middle Segment of Hsp90: Implications for ATP Hydrolysis and Client Protein and Cochaperone Interactions. <i>Molecular Cell</i> , 2003, 11, 647-658.	4.5	434
8	NVP-AUY922: A Novel Heat Shock Protein 90 Inhibitor Active against Xenograft Tumor Growth, Angiogenesis, and Metastasis. <i>Cancer Research</i> , 2008, 68, 2850-2860.	0.4	433
9	The ATPase cycle of Hsp90 drives a molecular clamp' via transient dimerization of the N-terminal domains. <i>EMBO Journal</i> , 2000, 19, 4383-4392.	3.5	418
10	The Hsp90 molecular chaperone: an open and shut case for treatment. <i>Biochemical Journal</i> , 2008, 410, 439-453.	1.7	410
11	4,5-Diarylisoaxazole Hsp90 Chaperone Inhibitors: Potential Therapeutic Agents for the Treatment of Cancer. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 196-218.	2.9	386
12	Chaperoned Ubiquitylation- α Crystal Structures of the CHIP U Box E3 Ubiquitin Ligase and a CHIP-Ubc13-Uev1a Complex. <i>Molecular Cell</i> , 2005, 20, 525-538.	4.5	382
13	Regulation of Hsp90 ATPase activity by tetratricopeptide repeat (TPR)-domain co-chaperones. <i>EMBO Journal</i> , 1999, 18, 754-762.	3.5	376
14	The Mechanism of Hsp90 Regulation by the Protein Kinase-Specific Cochaperone p50cdc37. <i>Cell</i> , 2004, 116, 87-98.	13.5	319
15	Structure and <i>in vivo</i> function of Hsp90. <i>Current Opinion in Structural Biology</i> , 2000, 10, 46-51.	2.6	294
16	Structure of an Hsp90-Cdc37-Cdk4 Complex. <i>Molecular Cell</i> , 2006, 23, 697-707.	4.5	288
17	Regulation of Hsp90 ATPase Activity by the Co-chaperone Cdc37p/p50. <i>Journal of Biological Chemistry</i> , 2002, 277, 20151-20159.	1.6	246
18	Structure and Functional Relationships of Hsp90. <i>Current Cancer Drug Targets</i> , 2003, 3, 301-323.	0.8	242

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19	The identification, synthesis, protein crystal structure and in vitro biochemical evaluation of a new 3,4-diarylpyrazole class of Hsp90 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3338-3343.	1.0	228
20	Mechanisms of Hsp90 regulation. <i>Biochemical Journal</i> , 2016, 473, 2439-2452.	1.7	223
21	Recursive PCR: a novel technique for total gene synthesis. <i>Protein Engineering, Design and Selection</i> , 1992, 5, 827-829.	1.0	217
22	A molecular clamp in the crystal structure of the N-terminal domain of the yeast Hsp90 chaperone. <i>Nature Structural Biology</i> , 1997, 4, 477-482.	9.7	214
23	High-throughput screening assay for inhibitors of heat-shock protein 90 ATPase activity. <i>Analytical Biochemistry</i> , 2004, 327, 176-183.	1.1	192
24	Hsp90-Dependent Activation of Protein Kinases Is Regulated by Chaperone-Targeted Dephosphorylation of Cdc37. <i>Molecular Cell</i> , 2008, 31, 886-895.	4.5	184
25	Co-chaperone Regulation of Conformational Switching in the Hsp90 ATPase Cycle. <i>Journal of Biological Chemistry</i> , 2004, 279, 51989-51998.	1.6	183
26	Structural basis for recruitment of the ATPase activator Aha1 to the Hsp90 chaperone machinery. <i>EMBO Journal</i> , 2004, 23, 1402-1410.	3.5	179
27	Structure, function, and mechanism of the Hsp90 molecular chaperone. <i>Advances in Protein Chemistry</i> , 2001, 59, 157-186.	4.4	172
28	Swe1Wee1-Dependent Tyrosine Phosphorylation of Hsp90 Regulates Distinct Facets of Chaperone Function. <i>Molecular Cell</i> , 2010, 37, 333-343.	4.5	165
29	Structural basis for recruitment of the ATPase activator Aha1 to the Hsp90 chaperone machinery. <i>EMBO Journal</i> , 2004, 23, 511-519.	3.5	164
30	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). <i>Eukaryotic Cell</i> , 2005, 4, 849-860.	3.4	159
31	The "active life" of Hsp90 complexes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 614-623.	1.9	159
32	Threonine 22 Phosphorylation Attenuates Hsp90 Interaction with Cochaperones and Affects Its Chaperone Activity. <i>Molecular Cell</i> , 2011, 41, 672-681.	4.5	146
33	Inhibition of the heat shock protein 90 molecular chaperone in vitro and in vivo by novel, synthetic, potent resorcinyl pyrazole/isoxazole amide analogues. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 1198-1211.	1.9	141
34	ATP-competitive inhibitors block protein kinase recruitment to the Hsp90-Cdc37 system. <i>Nature Chemical Biology</i> , 2013, 9, 307-312.	3.9	132
35	CDK-Dependent Hsp70 Phosphorylation Controls G1 Cyclin Abundance and Cell-Cycle Progression. <i>Cell</i> , 2012, 151, 1308-1318.	13.5	122
36	Dynamic Tyrosine Phosphorylation Modulates Cycling of the HSP90-P50CDC37-AHA1 Chaperone Machine. <i>Molecular Cell</i> , 2012, 47, 434-443.	4.5	113

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37	In vitro Biological Characterization of a Novel, Synthetic Diaryl Pyrazole Resorcinol Class of Heat Shock Protein 90 Inhibitors. <i>Cancer Research</i> , 2007, 67, 2206-2216.	0.4	111
38	Structural Basis for Assembly of Hsp90-Sgt1-CHORD Protein Complexes: Implications for Chaperoning of NLR Innate Immunity Receptors. <i>Molecular Cell</i> , 2010, 39, 269-281.	4.5	108
39	Charged linker sequence modulates eukaryotic heat shock protein 90 (Hsp90) chaperone activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2937-2942.	3.3	107
40	Structural and functional coupling of Hsp90- and Sgt1-centred multi-protein complexes. <i>EMBO Journal</i> , 2008, 27, 2789-2798.	3.5	104
41	Asymmetric Hsp90 α Domain SUMOylation Recruits Aha1 and ATP-Competitive Inhibitors. <i>Molecular Cell</i> , 2014, 53, 317-329.	4.5	101
42	The ATPase-dependent chaperoning activity of Hsp90 α regulates thick filament formation and integration during skeletal muscle myofibrillogenesis. <i>Development (Cambridge)</i> , 2008, 135, 1147-1156.	1.2	94
43	Structural Basis for Phosphorylation-Dependent Recruitment of Tel2 to Hsp90 by Pih1. <i>Structure</i> , 2014, 22, 805-818.	1.6	86
44	Optimizing Natural Products by Biosynthetic Engineering: Discovery of Nonquinone Hsp90 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 5494-5497.	2.9	79
45	Hsp90 charged-linker truncation reverses the functional consequences of weakened hydrophobic contacts in the N domain. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1141-1147.	3.6	78
46	Synthesis of 19-substituted geldanamycins with altered conformations and their binding to heat shock protein Hsp90. <i>Nature Chemistry</i> , 2013, 5, 307-314.	6.6	78
47	The aconitase of <i>Escherichia coli</i> . Nucleotide sequence of the aconitase gene and amino acid sequence similarity with mitochondrial aconitases, the iron-responsive-element-binding protein and isopropylmalate isomerases. <i>FEBS Journal</i> , 1992, 204, 599-609.	0.2	75
48	Cooperation of local motions in the Hsp90 molecular chaperone ATPase mechanism. <i>Nature Chemical Biology</i> , 2016, 12, 628-635.	3.9	68
49	Structure of the TPR Domain of AIP: Lack of Client Protein Interaction with the C-Terminal \pm 7 Helix of the TPR Domain of AIP Is Sufficient for Pituitary Adenoma Predisposition. <i>PLoS ONE</i> , 2012, 7, e53339.	1.1	67
50	Inhibition of Hsp90 with Synthetic Macrolactones: Synthesis and Structural and Biological Evaluation of Ring and Conformational Analogs of Radicol. <i>Chemistry and Biology</i> , 2006, 13, 1203-1215.	6.2	64
51	Tumor suppressor Tsc1 is a new Hsp90 co-chaperone that facilitates folding of kinase and non-kinase clients. <i>EMBO Journal</i> , 2017, 36, 3650-3665.	3.5	64
52	Expressed in the Yeast <i>Saccharomyces cerevisiae</i> , Human ERK5 Is a Client of the Hsp90 Chaperone That Complements Loss of the Slt2p (Mpk1p) Cell Integrity Stress-Activated Protein Kinase. <i>Eukaryotic Cell</i> , 2006, 5, 1914-1924.	3.4	60
53	Mps1 Mediated Phosphorylation of Hsp90 Confers Renal Cell Carcinoma Sensitivity and Selectivity to Hsp90 Inhibitors. <i>Cell Reports</i> , 2016, 14, 872-884.	2.9	60
54	Post-translational modification and conformational state of Heat Shock Protein 90 differentially affect binding of chemically diverse small molecule inhibitors. <i>Oncotarget</i> , 2013, 4, 1065-1074.	0.8	58

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55	Molecular Characterization of Macbecin as an Hsp90 Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 2853-2857.	2.9	56
56	The FNIP co-chaperones decelerate the Hsp90 chaperone cycle and enhance drug binding. <i>Nature Communications</i> , 2016, 7, 12037.	5.8	56
57	c-Abl Mediated Tyrosine Phosphorylation of Aha1 Activates Its Co-chaperone Function in Cancer Cells. <i>Cell Reports</i> , 2015, 12, 1006-1018.	2.9	54
58	RPAP3 provides a flexible scaffold for coupling HSP90 to the human R2TP co-chaperone complex. <i>Nature Communications</i> , 2018, 9, 1501.	5.8	54
59	Structural Basis of the Radicol Resistance Displayed by a Fungal Hsp90. <i>ACS Chemical Biology</i> , 2009, 4, 289-297.	1.6	53
60	Sensitivity to Hsp90-targeting drugs can arise with mutation to the Hsp90 chaperone, cochaperones and plasma membrane ATP binding cassette transporters of yeast. <i>FEBS Journal</i> , 2003, 270, 4689-4695.	0.2	52
61	Yeast is selectively hypersensitized to heat shock protein 90 (Hsp90)-targeting drugs with heterologous expression of the human Hsp90 α , a property that can be exploited in screens for new Hsp90 chaperone inhibitors. <i>Gene</i> , 2003, 302, 165-170.	1.0	51
62	A common conformationally coupled ATPase mechanism for yeast and human cytoplasmic HSP90s. <i>FEBS Journal</i> , 2009, 276, 199-209.	2.2	51
63	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. <i>Eukaryotic Cell</i> , 2007, 6, 744-752.	3.4	49
64	Differential Regulation of G1 CDK Complexes by the Hsp90-Cdc37 Chaperone System. <i>Cell Reports</i> , 2017, 21, 1386-1398.	2.9	49
65	The Structure of the R2TP Complex Defines a Platform for Recruiting Diverse Client Proteins to the HSP90 Molecular Chaperone System. <i>Structure</i> , 2017, 25, 1145-1152.e4.	1.6	48
66	Rapid Proteasomal Degradation of Mutant Proteins Is the Primary Mechanism Leading to Tumorigenesis in Patients With Missense AIP Mutations. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 3144-3154.	1.8	47
67	Chaperone ligand-discrimination by the TPR-domain protein Tah1. <i>Biochemical Journal</i> , 2008, 413, 261-268.	1.7	46
68	Qri2/Nse4, a component of the essential Smc5/6 DNA repair complex. <i>Molecular Microbiology</i> , 2005, 55, 1735-1750.	1.2	43
69	Investigating the protein-protein interactions of the yeast Hsp90 chaperone system by two-hybrid analysis: potential uses and limitations of this approach. <i>Cell Stress and Chaperones</i> , 2004, 9, 359.	1.2	41
70	The Hsp90 mosaic: a picture emerges. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 2-6.	3.6	40
71	Restricting direct interaction of CDC37 with HSP90 does not compromise chaperoning of client proteins. <i>Oncogene</i> , 2015, 34, 15-26.	2.6	39
72	Hsp90 middle domain phosphorylation initiates a complex conformational program to recruit the ATPase-stimulating cochaperone Aha1. <i>Nature Communications</i> , 2019, 10, 2574.	5.8	39

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73	Chemical Perturbation of Oncogenic Protein Folding: from the Prediction of Locally Unstable Structures to the Design of Disruptors of Hsp90 Client Interactions. <i>Chemistry - A European Journal</i> , 2020, 26, 9459-9465.	1.7	39
74	Post-translational Regulation of FNIP1 Creates a Rheostat for the Molecular Chaperone Hsp90. <i>Cell Reports</i> , 2019, 26, 1344-1356.e5.	2.9	38
75	Combinatorial Domain Hunting: An effective approach for the identification of soluble protein domains adaptable to high-throughput applications. <i>Protein Science</i> , 2006, 15, 2356-2365.	3.1	34
76	Dihydropyridine Derivatives Modulate Heat Shock Responses and have a Neuroprotective Effect in a Transgenic Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 557-571.	1.2	34
77	Structural mechanism for regulation of the AAA-ATPases RUVBL1-RUVBL2 in the R2TP co-chaperone revealed by cryo-EM. <i>Science Advances</i> , 2019, 5, eaaw1616.	4.7	33
78	Features of the <i>Streptomyces hygroscopicus</i> HtpG reveal how partial geldanamycin resistance can arise with mutation to the ATP binding pocket of a eukaryotic Hsp90. <i>FASEB Journal</i> , 2011, 25, 3828-3837.	0.2	32
79	Multi-chaperone function modulation and association with cytoskeletal proteins are key features of the function of AIP in the pituitary gland. <i>Oncotarget</i> , 2018, 9, 9177-9198.	0.8	31
80	Detection of the ATPase Activity of the Molecular Chaperones Hsp90 and Hsp72 Using the Transcreeper, ADP Assay Kit. <i>Journal of Biomolecular Screening</i> , 2010, 15, 279-286.	2.6	29
81	Targeting the Hsp90 Molecular Chaperone with Novel Macrolactams. <i>Synthesis, Structural, Binding, and Cellular Studies. ACS Chemical Biology</i> , 2011, 6, 1339-1347.	1.6	27
82	Dihydropyridines Allosterically Modulate Hsp90 Providing a Novel Mechanism for Heat Shock Protein Co-induction and Neuroprotection. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 51.	1.6	27
83	Strategies for Stalling Malignancy: Targeting Cancers Addiction to Hsp90. <i>Current Topics in Medicinal Chemistry</i> , 2009, 9, 1352-1368.	1.0	25
84	Regulatory Mechanisms of Hsp90. <i>Biochemistry & Molecular Biology Journal</i> , 2017, 03, 2.	0.3	25
85	The structure of FKBP38 in complex with the MEEVD tetra-trico-peptide binding-motif of Hsp90. <i>PLoS ONE</i> , 2017, 12, e0173543.	1.1	25
86	The Hsp90 of <i>Candida albicans</i> can confer Hsp90 functions in <i>Saccharomyces cerevisiae</i> : a potential model for the processes that generate immunogenic fragments of this molecular chaperone in <i>C. albicans</i> infections. <i>Microbiology (United Kingdom)</i> , 1999, 145, 3455-3463.	0.7	24
87	Advances towards Understanding the Mechanism of Action of the Hsp90 Complex. <i>Biomolecules</i> , 2022, 12, 600.	1.8	24
88	HECTD3 Mediates an HSP90-Dependent Degradation Pathway for Protein Kinase Clients. <i>Cell Reports</i> , 2017, 19, 2515-2528.	2.9	23
89	Inhibition of Hsp90 with Resorcylic Acid Macrolactones: Synthesis and Binding Studies. <i>Chemistry - A European Journal</i> , 2010, 16, 10366-10372.	1.7	22
90	Synthesis of macrolactam analogues of radicicol and their binding to heat shock protein Hsp90. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1328.	1.5	22

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91	DNA fragmentation-based combinatorial approaches to soluble protein expression. <i>Drug Discovery Today</i> , 2007, 12, 931-938.	3.2	20
92	A simple yeast-based system for analyzing inhibitor resistance in the human cancer drug targets Hsp90 α/β . <i>Biochemical Pharmacology</i> , 2010, 79, 1581-1588.	2.0	20
93	Structure of the TELO2-TTI1-TTI2 complex and its function in TOR recruitment to the R2TP chaperone. <i>Cell Reports</i> , 2021, 36, 109317.	2.9	20
94	Backbone resonance assignments of the 25kD N-terminal ATPase domain from the Hsp90 chaperone. <i>Journal of Biomolecular NMR</i> , 2002, 23, 327-328.	1.6	19
95	Structural and Thermodynamic Relationships of Interactions in the N-Terminal ATP-Binding Domain of Hsp90. <i>Journal of Molecular Biology</i> , 2009, 392, 923-936.	2.0	19
96	The integrity and organization of the human AIPL1 functional domains is critical for its role as a HSP90-dependent co-chaperone for rod PDE6. <i>Human Molecular Genetics</i> , 2017, 26, 4465-4480.	1.4	18
97	The structure-function relationship of oncogenic LMTK3. <i>Science Advances</i> , 2020, 6, .	4.7	18
98	Co-Crystalization and In Vitro Biological Characterization of 5-Aryl-4-(5-Substituted-2-4-Dihydroxyphenyl)-1,2,3-Thiadiazole Hsp90 Inhibitors. <i>PLoS ONE</i> , 2012, 7, e44642.	1.1	18
99	Expression and crystallization of the yeast Hsp82 chaperone, and preliminary x-ray diffraction studies of the amino-terminal domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 25, 517-522.	1.5	17
100	In vivo bioassay to test the pathogenicity of missense human AIP variants. <i>Journal of Medical Genetics</i> , 2018, 55, 522-529.	1.5	15
101	Advances on the Structure of the R2TP/Prefoldin-like Complex. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1106, 73-83.	0.8	15
102	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. <i>Gene</i> , 1996, 169, 251-255.	1.0	14
103	Clinical and functional analyses of AIPL1 variants reveal mechanisms of pathogenicity linked to different forms of retinal degeneration. <i>Scientific Reports</i> , 2020, 10, 17520.	1.6	14
104	Two-colour single-molecule photoinduced electron transfer fluorescence imaging microscopy of chaperone dynamics. <i>Nature Communications</i> , 2021, 12, 6964.	5.8	14
105	Tah1 helix-swap dimerization prevents mixed Hsp90 co-chaperone complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1197-1206.	2.5	13
106	The Stoichiometric Interaction of the Hsp90-Sgt1-Rar1 Complex by CD and SRCD Spectroscopy. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 95.	1.6	12
107	DNA fragmentation based combinatorial approaches to soluble protein expression. <i>Drug Discovery Today</i> , 2007, 12, 939-947.	3.2	11
108	Expression and crystallization of the yeast Hsp82 chaperone, and preliminary x-ray diffraction studies of the amino-terminal domain. , 1996, 25, 517-522.		8

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109	A combinatorial method to enable detailed investigation of protein-protein interactions. <i>Future Medicinal Chemistry</i> , 2011, 3, 271-282.	1.1	5
110	Editorial: The Role of Heat Shock Proteins in Neuroprotection. <i>Frontiers in Pharmacology</i> , 2020, 11, 1227.	1.6	4
111	Cloning of the HIS3 gene of <i>Yarrowia lipolytica</i> . <i>Antonie Van Leeuwenhoek</i> , 1991, 60, 95-99.	0.7	3
112	The PTP51 TPR-Domain: A Novel Lipid Transfer Domain?. <i>Contact (Thousand Oaks (Ventura County), CA)</i> 2010, 10, 100-104.	0.4	2
113	Recognition of BRAF by CDC37 and Re-Evaluation of the Activation Mechanism for the Class 2 BRAF-L597R Mutant. <i>Biomolecules</i> , 2022, 12, 905.	1.8	2
114	Tuning the ATPase Activity of Hsp90. , 2016, , 469-490.		0
115	Abstract 2677: A detailed analysis of protein binding and biological activity of methoxy-substituted resorcinolic isoxazole amide HSP90 inhibitors. , 2010, , .		0
116	Abstract 4749: Insights into the molecular mechanism of HSP90 binding of methoxy-substituted resorcinolic isoxazole amide inhibitors reveal different isoform selectivity profiles. , 2012, , .		0
117	Structural basis for the interaction of HSP90 with R2TP and TTT complexes. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1666-C1666.	0.0	0
118	The "Complex World" of the Hsp90 Co-chaperone R2TP. <i>Heat Shock Proteins</i> , 2019, , 297-316.	0.2	0
119	Structure of the TELO2-TTI1-TTI2 Complex and its Function in TOR Recruitment to the R2TP Chaperone. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0