

Claudio De Virgilio

List of Publications by Year in descending order

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87
papers

10,980
citations

36203

51
h-index

49773

87
g-index

91
all docs

91
docs citations

91
times ranked

10487
citing authors

#	ARTICLE	IF	CITATIONS
1	Global analysis of protein phosphorylation in yeast. <i>Nature</i> , 2005, 438, 679-684.	13.7	915
2	Sch9 Is a Major Target of TORC1 in <i>Saccharomyces cerevisiae</i> . <i>Molecular Cell</i> , 2007, 26, 663-674.	4.5	723
3	The septins: roles in cytokinesis and other processes. <i>Current Opinion in Cell Biology</i> , 1996, 8, 106-119.	2.6	455
4	The Vam6 GEF Controls TORC1 by Activating the EGO Complex. <i>Molecular Cell</i> , 2009, 35, 563-573.	4.5	398
5	Ste20-like protein kinases are required for normal localization of cell growth and for cytokinesis in budding yeast.. <i>Genes and Development</i> , 1995, 9, 1817-1830.	2.7	370
6	Deciphering Protein Kinase Specificity Through Large-Scale Analysis of Yeast Phosphorylation Site Motifs. <i>Science Signaling</i> , 2010, 3, ra12.	1.6	341
7	Leucyl-tRNA Synthetase Controls TORC1 via the EGO Complex. <i>Molecular Cell</i> , 2012, 46, 105-110.	4.5	308
8	The TOR and EGO Protein Complexes Orchestrate Microautophagy in Yeast. <i>Molecular Cell</i> , 2005, 19, 15-26.	4.5	305
9	A Septin-based Hierarchy of Proteins Required for Localized Deposition of Chitin in the <i>Saccharomyces cerevisiae</i> Cell Wall. <i>Journal of Cell Biology</i> , 1997, 139, 75-93.	2.3	301
10	The role of trehalose synthesis for the acquisition of thermotolerance in yeast. II. Physiological concentrations of trehalose increase the thermal stability of proteins in vitro. <i>FEBS Journal</i> , 1994, 219, 187-193.	0.2	295
11	The role of trehalose synthesis for the acquisition of thermotolerance in yeast. I. Genetic evidence that trehalose is a thermoprotectant. <i>FEBS Journal</i> , 1994, 219, 179-186.	0.2	279
12	TOR and PKA Signaling Pathways Converge on the Protein Kinase Rim15 to Control Entry into G0. <i>Molecular Cell</i> , 2003, 12, 1607-1613.	4.5	277
13	Role for the Rho-family GTPase Cdc42 in yeast mating-pheromone signal pathway. <i>Nature</i> , 1995, 376, 702-705.	13.7	251
14	Amino Acid Deprivation Inhibits TORC1 Through a GTPase-Activating Protein Complex for the Rag Family GTPase Gtr1. <i>Science Signaling</i> , 2013, 6, ra42.	1.6	237
15	Cell growth control: little eukaryotes make big contributions. <i>Oncogene</i> , 2006, 25, 6392-6415.	2.6	223
16	Disruption of TPS2, the gene encoding the 100-kDa subunit of the trehalose-6-phosphate synthase/phosphatase complex in <i>Saccharomyces cerevisiae</i> , causes accumulation of trehalose-6-phosphate and loss of trehalose-6-phosphate phosphatase activity. <i>FEBS Journal</i> , 1993, 212, 315-323.	0.2	213
17	<i>Saccharomyces cerevisiae</i> cAMP-dependent protein kinase controls entry into stationary phase through the Rim15p protein kinase. <i>Genes and Development</i> , 1998, 12, 2943-2955.	2.7	197
18	The TOR signalling network from yeast to man. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1476-1481.	1.2	194

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19	Composition and Functional Analysis of the <i>Saccharomyces cerevisiae</i> Trehalose Synthase Complex. <i>Journal of Biological Chemistry</i> , 1998, 273, 33311-33319.	1.6	189
20	Life in the midst of scarcity: adaptations to nutrient availability in <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 2010, 56, 1-32.	0.8	189
21	The essence of yeast quiescence. <i>FEMS Microbiology Reviews</i> , 2012, 36, 306-339.	3.9	189
22	Caffeine extends yeast lifespan by targeting TORC1. <i>Molecular Microbiology</i> , 2008, 69, 277-285.	1.2	186
23	Establishment of Cell Polarity in Yeast. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1995, 60, 729-744.	2.0	185
24	PKA and Sch9 control a molecular switch important for the proper adaptation to nutrient availability. <i>Molecular Microbiology</i> , 2004, 55, 862-880.	1.2	170
25	The Novel Yeast PAS Kinase Rim15 Orchestrates G0-Associated Antioxidant Defense Mechanisms. <i>Cell Cycle</i> , 2004, 3, 460-466.	1.3	154
26	Amino Acids Stimulate TORC1 through Lst4-Lst7, a GTPase-Activating Protein Complex for the Rag Family GTPase Gtr2. <i>Cell Reports</i> , 2015, 13, 1-7.	2.9	145
27	Regulation of G0 entry by the Pho80-Pho85 cyclin-CDK complex. <i>EMBO Journal</i> , 2005, 24, 4271-4278.	3.5	135
28	Rim15 and the crossroads of nutrient signalling pathways in <i>Saccharomyces cerevisiae</i> . <i>Cell Division</i> , 2006, 1, 3.	1.1	129
29	Functional mapping of yeast genomes by saturated transposition. <i>ELife</i> , 2017, 6, .	2.8	126
30	Mutation of RGA1, which encodes a putative GTPase-activating protein for the polarity-establishment protein Cdc42p, activates the pheromone-response pathway in the yeast <i>Saccharomyces cerevisiae</i> . <i>Genes and Development</i> , 1995, 9, 2949-2963.	2.7	124
31	Initiation of the TORC1-Regulated G0 Program Requires Igo1/2, which License Specific mRNAs to Evade Degradation via the 5' mRNA Decay Pathway. <i>Molecular Cell</i> , 2010, 38, 345-355.	4.5	106
32	Phosphorylation, lipid raft interaction and traffic of α -synuclein in a yeast model for Parkinson. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1767-1780.	1.9	104
33	Structural analysis of the subunits of the trehalose-6-phosphate synthase/phosphatase complex in <i>Saccharomyces cerevisiae</i> and their function during heat shock. <i>Molecular Microbiology</i> , 1997, 24, 687-696.	1.2	101
34	Heat shock induces enzymes of trehalose metabolism, trehalose accumulation, and thermotolerance in <i>Schizosaccharomyces pombe</i> , even in the presence of cycloheximide. <i>FEBS Letters</i> , 1990, 273, 107-110.	1.3	99
35	SEACing the GAP that nEGOCiates TORC1 activation. <i>Cell Cycle</i> , 2013, 12, 2948-2952.	1.3	98
36	Spatially Distinct Pools of TORC1 Balance Protein Homeostasis. <i>Molecular Cell</i> , 2019, 73, 325-338.e8.	4.5	95

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37	Bud8p and Bud9p, Proteins That May Mark the Sites for Bipolar Budding in Yeast. <i>Molecular Biology of the Cell</i> , 2001, 12, 2497-2518.	0.9	90
38	Multilayered Control of Protein Turnover by TORC1 and Atg1. <i>Cell Reports</i> , 2019, 28, 3486-3496.e6.	2.9	87
39	Cloning and disruption of a gene required for growth on acetate but not on ethanol: The acetyl-coenzyme a synthetase gene of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1992, 8, 1043-1051.	0.8	84
40	Conserved regulators of Rag GTPases orchestrate amino acid-dependent TORC1 signaling. <i>Cell Discovery</i> , 2016, 2, 15049.	3.1	84
41	The novel yeast PAS kinase Rim 15 orchestrates G0-associated antioxidant defense mechanisms. <i>Cell Cycle</i> , 2004, 3, 462-8.	1.3	84
42	TORC1 controls G1/S cell cycle transition in yeast via Mpk1 and the greatwall kinase pathway. <i>Nature Communications</i> , 2015, 6, 8256.	5.8	79
43	Yeast Endosulfines Control Entry into Quiescence and Chronological Life Span by Inhibiting Protein Phosphatase 2A. <i>Cell Reports</i> , 2013, 3, 16-22.	2.9	77
44	Acquisition of thermotolerance in <i>Saccharomyces cerevisiae</i> without heat shock protein hsp104 and in the absence of protein synthesis. <i>FEBS Letters</i> , 1991, 288, 86-90.	1.3	74
45	<i>Saccharomyces cerevisiae</i> Ccr4-Not complex contributes to the control of Msn2p-dependent transcription by the Ras/cAMP pathway. <i>Molecular Microbiology</i> , 2002, 43, 1023-1037.	1.2	72
46	Crystal structure of the Ego1-Ego2-Ego3 complex and its role in promoting Rag GTPase-dependent TORC1 signaling. <i>Cell Research</i> , 2015, 25, 1043-1059.	5.7	71
47	Trehalose synthesis is important for the acquisition of thermotolerance in <i>Schizosaccharomyces pombe</i> . <i>Molecular Microbiology</i> , 1997, 25, 571-581.	1.2	67
48	Bni5p, a Septin-Interacting Protein, Is Required for Normal Septin Function and Cytokinesis in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2002, 22, 6906-6920.	1.1	65
49	The Ccr4-Not Complex Independently Controls both Msn2-Dependent Transcriptional Activation via a Newly Identified Glc7/Bud14 Type I Protein Phosphatase Module and TFIID Promoter Distribution. <i>Molecular and Cellular Biology</i> , 2005, 25, 488-498.	1.1	61
50	The Architecture of the Rag GTPase Signaling Network. <i>Biomolecules</i> , 2017, 7, 48.	1.8	59
51	Disruption in <i>Candida albicans</i> of the TPS2 gene encoding trehalose-6-phosphate phosphatase affects cell integrity and decreases infectivity The EMBL accession number for the sequence reported in this paper is AJ242990.. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1281-1290.	0.7	59
52	Ego3 Functions as a Homodimer to Mediate the Interaction between Gtr1-Gtr2 and Ego1 in the EGO Complex to Activate TORC1. <i>Structure</i> , 2012, 20, 2151-2160.	1.6	56
53	The 70-kilodalton heat-shock proteins of the SSA subfamily negatively modulate heat-shock-induced accumulation of trehalose and promote recovery from heat stress in the yeast, <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1992, 210, 125-132.	0.2	55
54	TORC1 Regulates Pah1 Phosphatidate Phosphatase Activity via the Nem1/Spo7 Protein Phosphatase Complex. <i>PLoS ONE</i> , 2014, 9, e104194.	1.1	53

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55	Expression of a functional barley sucrose-fructan 6-fructosyltransferase in the methylotrophic yeast <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 1998, 440, 356-360.	1.3	51
56	Modulation of Ubc4p/Ubc5p-Mediated Stress Responses by the RING-Finger-Dependent Ubiquitin-Protein Ligase Not4p in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2007, 176, 181-192.	1.2	48
57	Retromer and TBC1D5 maintain late endosomal RAB7 domains to enable amino acid-induced mTORC1 signaling. <i>Journal of Cell Biology</i> , 2019, 218, 3019-3038.	2.3	46
58	The yeast protein kinase Sch9 adjusts V-ATPase assembly/disassembly to control pH homeostasis and longevity in response to glucose availability. <i>PLoS Genetics</i> , 2017, 13, e1006835.	1.5	45
59	The Thermophilic Yeast <i>Hansenula polymorpha</i> Does Not Require Trehalose Synthesis for Growth at High Temperatures but Does for Normal Acquisition of Thermotolerance. <i>Journal of Bacteriology</i> , 1999, 181, 4665-4668.	1.0	44
60	The I-BAR protein Iy1 is an effector of the Rab7 GTPase Ypt7 involved in vacuole membrane homeostasis. <i>Journal of Cell Science</i> , 2015, 128, 2278-2292.	1.2	40
61	Unsolved mysteries of Rag GTPase signaling in yeast. <i>Small GTPases</i> , 2016, 7, 239-246.	0.7	38
62	The Bud14p-Glc7p complex functions as a cortical regulator of dynein in budding yeast. <i>EMBO Journal</i> , 2005, 24, 3000-3011.	3.5	36
63	Membrane stress is coupled to a rapid translational control of gene expression in chlorpromazine-treated cells. <i>Current Genetics</i> , 2007, 52, 171-185.	0.8	36
64	CNE1, a <i>Saccharomyces cerevisiae</i> Homologue of the Genes Encoding Mammalian Calnexin and Calreticulin. <i>Yeast</i> , 1993, 9, 185-188.	0.8	34
65	A method to study the rapid phosphorylation-related modulation of neutral trehalase activity by temperature shifts in yeast. <i>FEBS Letters</i> , 1991, 291, 355-358.	1.3	33
66	TORC1 specifically inhibits microautophagy through ESCRT-0. <i>Current Genetics</i> , 2019, 65, 1243-1249.	0.8	32
67	Indole-3-acetic acid is a physiological inhibitor of TORC1 in yeast. <i>PLoS Genetics</i> , 2021, 17, e1009414.	1.5	32
68	TORC1 Determines Fab1 Lipid Kinase Function at Signaling Endosomes and Vacuoles. <i>Current Biology</i> , 2021, 31, 297-309.e8.	1.8	31
69	TORC1 coordinates the conversion of Sic1 from a target to an inhibitor of cyclin-CDK-Cks1. <i>Cell Discovery</i> , 2017, 3, 17012.	3.1	30
70	Cyclin-dependent kinase 5 (CDK5) regulates the circadian clock. <i>ELife</i> , 2019, 8, .	2.8	30
71	Control of Cellular Physiology by TM9 Proteins in Yeast and <i>Dictyostelium</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 6764-6772.	1.6	29
72	Mitochondrial Genomic Dysfunction Causes Dephosphorylation of Sch9 in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2011, 10, 1367-1369.	3.4	29

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73	Initiation of the yeast G0program requires Igo1 and Igo2, which antagonize activation of decapping of specific nutrient-regulated mRNAs. <i>RNA Biology</i> , 2011, 8, 14-17.	1.5	26
74	A spatially and functionally distinct pool of TORC1 defines signaling endosomes in yeast. <i>Autophagy</i> , 2019, 15, 915-916.	4.3	24
75	Identification of a Small Molecule Yeast TORC1 Inhibitor with a Multiplex Screen Based on Flow Cytometry. <i>ACS Chemical Biology</i> , 2012, 7, 715-722.	1.6	22
76	Feedback Inhibition of the Rag GTPase GAP Complex Lst4-Lst7 Safeguards TORC1 from Hyperactivation by Amino Acid Signals. <i>Cell Reports</i> , 2017, 20, 281-288.	2.9	22
77	Phosphoproteomic responses of TORC1 target kinases reveal discrete and convergent mechanisms that orchestrate the quiescence program in yeast. <i>Cell Reports</i> , 2021, 37, 110149.	2.9	20
78	The Impact of ESCRT on A β 1-42 Induced Membrane Lesions in a Yeast Model for Alzheimer's Disease. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 406.	1.4	19
79	An EGOcentric view of TORC1 signaling. <i>Cell Cycle</i> , 2010, 9, 221-222.	1.3	18
80	Global phosphoproteomics pinpoints uncharted Gcn2-mediated mechanisms of translational control. <i>Molecular Cell</i> , 2021, 81, 1879-1889.e6.	4.5	16
81	Structural insights into the EGO-TC-mediated membrane tethering of the TORC1-regulatory Rag GTPases. <i>Science Advances</i> , 2019, 5, eaax8164.	4.7	15
82	Phosphatidylinositol 4-Phosphate Is Required for Translation Initiation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 38139-38149.	1.6	13
83	Quantification of mRNA stability of stress-responsive yeast genes following conditional excision of open reading frames. <i>RNA Biology</i> , 2013, 10, 1299-1306.	1.5	10
84	Genetic and physical localization of the acetyl-coenzyme A synthetase gene ACS1 on chromosome I of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1993, 9, 419-421.	0.8	6
85	The evolutionary conserved BER1 gene is involved in microtubule stability in yeast. <i>Current Genetics</i> , 2008, 53, 107-115.	0.8	6
86	N- and C-terminal Gln3-Tor1 interaction sites: one acting negatively and the other positively to regulate nuclear Gln3 localization. <i>Genetics</i> , 2021, 217, .	1.2	6
87	The HOPS tethering complex is required to maintain signaling endosome identity and TORC1 activity. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	6