

David M Sabatini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9576804/publications.pdf>

Version: 2024-02-01

248
papers

128,557
citations

384

134
h-index

718

252
g-index

275
all docs

275
docs citations

275
times ranked

116569
citing authors

#	ARTICLE	IF	CITATIONS
1	GCN2 adapts protein synthesis to scavenging-dependent growth. <i>Cell Systems</i> , 2022, 13, 158-172.e9.	2.9	12
2	Zonated leucine sensing by Sestrin-mTORC1 in the liver controls the response to dietary leucine. <i>Science</i> , 2022, 377, 47-56.	6.0	20
3	Structure of the nutrient-sensing hub GATOR2. <i>Nature</i> , 2022, 607, 610-616.	13.7	32
4	<i>APOE4</i> disrupts intracellular lipid homeostasis in human iPSC-derived glia. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	141
5	CRISPR screens in physiologic medium reveal conditionally essential genes in human cells. <i>Cell Metabolism</i> , 2021, 33, 1248-1263.e9.	7.2	77
6	Limited survival and impaired hepatic fasting metabolism in mice with constitutive Rag GTPase signaling. <i>Nature Communications</i> , 2021, 12, 3660.	5.8	13
7	Genome-wide CRISPR screens reveal multitiered mechanisms through which mTORC1 senses mitochondrial dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	81
8	Fumarate is a terminal electron acceptor in the mammalian electron transport chain. <i>Science</i> , 2021, 374, 1227-1237.	6.0	96
9	Nutrient mTORC1 signaling underpins regulatory T cell control of immune tolerance. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	24
10	A PEROXO-Tag Enables Rapid Isolation of Peroxisomes from Human Cells. <i>IScience</i> , 2020, 23, 101109.	1.9	26
11	MFSD12 mediates the import of cysteine into melanosomes and lysosomes. <i>Nature</i> , 2020, 588, 699-704.	13.7	52
12	Dihydroxyacetone phosphate signals glucose availability to mTORC1. <i>Nature Metabolism</i> , 2020, 2, 893-901.	5.1	131
13	MCART1/SLC25A51 is required for mitochondrial NAD transport. <i>Science Advances</i> , 2020, 6, .	4.7	106
14	Metabolic determinants of cellular fitness dependent on mitochondrial reactive oxygen species. <i>Science Advances</i> , 2020, 6, .	4.7	28
15	<i>ATRAID</i> regulates the action of nitrogen-containing bisphosphonates on bone. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	15
16	A Nutrient-Sensing Transition at Birth Triggers Glucose-Responsive Insulin Secretion. <i>Cell Metabolism</i> , 2020, 31, 1004-1016.e5.	7.2	84
17	Limited Environmental Serine and Glycine Confer Brain Metastasis Sensitivity to PHGDH Inhibition. <i>Cancer Discovery</i> , 2020, 10, 1352-1373.	7.7	145
18	Increased lysosomal biomass is responsible for the resistance of triple-negative breast cancers to CDK4/6 inhibition. <i>Science Advances</i> , 2020, 6, eabb2210.	4.7	46

#	ARTICLE	IF	CITATIONS
19	Dietary modifications for enhanced cancer therapy. <i>Nature</i> , 2020, 579, 507-517.	13.7	219
20	mTOR at the nexus of nutrition, growth, ageing and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 183-203.	16.1	1,483
21	A human ciliopathy reveals essential functions for NEK10 in airway mucociliary clearance. <i>Nature Medicine</i> , 2020, 26, 244-251.	15.2	45
22	DEPTOR modulates activation responses in CD4+ T cells and enhances immunoregulation following transplantation. <i>American Journal of Transplantation</i> , 2019, 19, 77-88.	2.6	12
23	C7orf59/LAMTOR4 phosphorylation and structural flexibility modulate Ragulator assembly. <i>FEBS Open Bio</i> , 2019, 9, 1589-1602.	1.0	6
24	Notum produced by Paneth cells attenuates regeneration of aged intestinal epithelium. <i>Nature</i> , 2019, 571, 398-402.	13.7	166
25	Architecture of human Rag GTPase heterodimers and their complex with mTORC1. <i>Science</i> , 2019, 366, 203-210.	6.0	89
26	Structural basis for the docking of mTORC1 on the lysosomal surface. <i>Science</i> , 2019, 366, 468-475.	6.0	132
27	Cryo-EM Structure of the Human FLCN-FNIP2-Rag-Ragulator Complex. <i>Cell</i> , 2019, 179, 1319-1329.e8.	13.5	98
28	Activation of PASK by mTORC1 is required for the onset of the terminal differentiation program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10382-10391.	3.3	39
29	Genome-wide CRISPR screen for Zika virus resistance in human neural cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9527-9532.	3.3	91
30	Squalene accumulation in cholesterol auxotrophic lymphomas prevents oxidative cell death. <i>Nature</i> , 2019, 567, 118-122.	13.7	262
31	Nutrient regulation of mTORC1 at a glance. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	222
32	Arg-78 of Nprl2 catalyzes GATOR1-stimulated GTP hydrolysis by the Rag GTPases. <i>Journal of Biological Chemistry</i> , 2019, 294, 2970-5944.	1.6	49
33	MITO-Tag Mice enable rapid isolation and multimodal profiling of mitochondria from specific cell types in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 303-312.	3.3	80
34	Genome-Wide CRISPR/Cas9 Screening for Identification of Cancer Genes in Cell Lines. <i>Methods in Molecular Biology</i> , 2019, 1907, 125-136.	0.4	16
35	Discovery and optimization of piperazine-1-thiourea-based human phosphoglycerate dehydrogenase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1727-1739.	1.4	23
36	Serine Catabolism by SHMT2 Is Required for Proper Mitochondrial Translation Initiation and Maintenance of Formylmethionyl-tRNAs. <i>Molecular Cell</i> , 2018, 69, 610-621.e5.	4.5	139

#	ARTICLE	IF	CITATIONS
37	A mouse model of DEPDC5-related epilepsy: Neuronal loss of Depdc5 causes dysplastic and ectopic neurons, increased mTOR signaling, and seizure susceptibility. <i>Neurobiology of Disease</i> , 2018, 111, 91-101.	2.1	79
38	Fasting Activates Fatty Acid Oxidation to Enhance Intestinal Stem Cell Function during Homeostasis and Aging. <i>Cell Stem Cell</i> , 2018, 22, 769-778.e4.	5.2	266
39	NUFIP1 is a ribosome receptor for starvation-induced ribophagy. <i>Science</i> , 2018, 360, 751-758.	6.0	262
40	Architecture of the human GATOR1 and GATOR1â€“Rag GTPases complexes. <i>Nature</i> , 2018, 556, 64-69.	13.7	128
41	RAB7A phosphorylation by TBK1 promotes mitophagy via the PINK-PARKIN pathway. <i>Science Advances</i> , 2018, 4, eaav0443.	4.7	128
42	SFXN1 is a mitochondrial serine transporter required for one-carbon metabolism. <i>Science</i> , 2018, 362, .	6.0	154
43	Glyceraldehyde 3â€“phosphate dehydrogenase modulates nonoxidative pentose phosphate pathway to provide anabolic precursors in hypoxic tumor cells. <i>AICHE Journal</i> , 2018, 64, 4289-4296.	1.8	12
44	Ragulator and SLC38A9 activate the Rag GTPases through noncanonical GEF mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9545-9550.	3.3	115
45	Identification of a transporter complex responsible for the cytosolic entry of nitrogen-containing bisphosphonates. <i>ELife</i> , 2018, 7, .	2.8	42
46	Histidine catabolism is a major determinant of methotrexate sensitivity. <i>Nature</i> , 2018, 559, 632-636.	13.7	238
47	Gene Essentiality Profiling Reveals Gene Networks and Synthetic Lethal Interactions with Oncogenic Ras. <i>Cell</i> , 2017, 168, 890-903.e15.	13.5	535
48	mTOR Signaling in Growth, Metabolism, and Disease. <i>Cell</i> , 2017, 168, 960-976.	13.5	4,800
49	KICSTOR recruits GATOR1 to the lysosome and is necessary for nutrients to regulate mTORC1. <i>Nature</i> , 2017, 543, 438-442.	13.7	229
50	<i>PIK3CA</i> mutant tumors depend on oxoglutarate dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3434-E3443.	3.3	38
51	Germinal Center Selection and Affinity Maturation Require Dynamic Regulation of mTORC1 Kinase. <i>Immunity</i> , 2017, 46, 1045-1058.e6.	6.6	232
52	Physiologic Medium Rewires Cellular Metabolism and Reveals Uric Acid as an Endogenous Inhibitor of UMP Synthase. <i>Cell</i> , 2017, 169, 258-272.e17.	13.5	393
53	Loss of hepatic DEPTOR alters the metabolic transition to fasting. <i>Molecular Metabolism</i> , 2017, 6, 447-458.	3.0	32
54	A genome-wide CRISPR screen identifies a restricted set of HIV host dependency factors. <i>Nature Genetics</i> , 2017, 49, 193-203.	9.4	290

#	ARTICLE	IF	CITATIONS
55	Twenty-five years of mTOR: Uncovering the link from nutrients to growth. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11818-11825.	3.3	380
56	Lysosomal metabolomics reveals V-ATPase- and mTOR-dependent regulation of amino acid efflux from lysosomes. Science, 2017, 358, 807-813.	6.0	450
57	Rapid immunopurification of mitochondria for metabolite profiling and absolute quantification of matrix metabolites. Nature Protocols, 2017, 12, 2215-2231.	5.5	83
58	mTORC1 Activator SLC38A9 Is Required to Efflux Essential Amino Acids from Lysosomes and Use Protein as a Nutrient. Cell, 2017, 171, 642-654.e12.	13.5	340
59	Intersubunit Crosstalk in the Rag GTPase Heterodimer Enables mTORC1 to Respond Rapidly to Amino Acid Availability. Molecular Cell, 2017, 68, 552-565.e8.	4.5	74
60	A CRISPR screen identifies a pathway required for paraquat-induced cell death. Nature Chemical Biology, 2017, 13, 1274-1279.	3.9	138
61	The Dawn of the Age of Amino Acid Sensors for the mTORC1 Pathway. Cell Metabolism, 2017, 26, 301-309.	7.2	437
62	NFS1 undergoes positive selection in lung tumours and protects cells from ferroptosis. Nature, 2017, 551, 639-643.	13.7	478
63	SAMTOR is an S-adenosylmethionine sensor for the mTORC1 pathway. Science, 2017, 358, 813-818.	6.0	384
64	Amino acid-insensitive mTORC1 regulation enables nutritional stress resilience in hematopoietic stem cells. Journal of Clinical Investigation, 2017, 127, 1405-1413.	3.9	23
65	High-fat diet enhances stemness and tumorigenicity of intestinal progenitors. Nature, 2016, 531, 53-58.	13.7	602
66	A PHGDH inhibitor reveals coordination of serine synthesis and one-carbon unit fate. Nature Chemical Biology, 2016, 12, 452-458.	3.9	389
67	Mule Regulates the Intestinal Stem Cell Niche via the Wnt Pathway and Targets EphB3 for Proteasomal and Lysosomal Degradation. Cell Stem Cell, 2016, 19, 205-216.	5.2	21
68	Mediobasal hypothalamic overexpression of DEPTOR protects against high-fat diet-induced obesity. Molecular Metabolism, 2016, 5, 102-112.	3.0	33
69	Mechanism of arginine sensing by CASTOR1 upstream of mTORC1. Nature, 2016, 536, 229-233.	13.7	224
70	Absolute Quantification of Matrix Metabolites Reveals the Dynamics of Mitochondrial Metabolism. Cell, 2016, 166, 1324-1337.e11.	13.5	367
71	Longer lifespan in male mice treated with a weakly estrogenic agonist, an antioxidant, an Î±-glucosidase inhibitor or a Nrf2 inducer. Aging Cell, 2016, 15, 872-884.	3.0	277
72	The TORC1 pathway to protein destruction. Nature, 2016, 536, 155-156.	13.7	17

#	ARTICLE	IF	CITATIONS
73	The apo-structure of the leucine sensor Sestrin2 is still elusive. <i>Science Signaling</i> , 2016, 9, ra92.	1.6	21
74	ERK and p38 MAPK Activities Determine Sensitivity to PI3K/mTOR Inhibition via Regulation of MYC and YAP. <i>Cancer Research</i> , 2016, 76, 7168-7180.	0.4	53
75	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
76	MERAV: a tool for comparing gene expression across human tissues and cell types. <i>Nucleic Acids Research</i> , 2016, 44, D560-D566.	6.5	106
77	Single Guide RNA Library Design and Construction. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot090803.	0.2	30
78	Viral Packaging and Cell Culture for CRISPR-Based Screens. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot090811.	0.2	27
79	Large-Scale Single Guide RNA Library Construction and Use for CRISPR-Cas9-Based Genetic Screens. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.top086892.	0.2	20
80	The CASTOR Proteins Are Arginine Sensors for the mTORC1 Pathway. <i>Cell</i> , 2016, 165, 153-164.	13.5	598
81	Recurrent mTORC1-activating RRAGC mutations in follicular lymphoma. <i>Nature Genetics</i> , 2016, 48, 183-188.	9.4	160
82	Structural basis for leucine sensing by the Sestrin2-mTORC1 pathway. <i>Science</i> , 2016, 351, 53-58.	6.0	340
83	Sestrin2 is a leucine sensor for the mTORC1 pathway. <i>Science</i> , 2016, 351, 43-48.	6.0	901
84	Lysosomal amino acid transporter SLC38A9 signals arginine sufficiency to mTORC1. <i>Science</i> , 2015, 347, 188-194.	6.0	662
85	Nutrient-sensing mechanisms and pathways. <i>Nature</i> , 2015, 517, 302-310.	13.7	860
86	<i>Cell Growth.</i> , 2015, , 179-190.e1.		4
87	An Essential Role of the Mitochondrial Electron Transport Chain in Cell Proliferation Is to Enable Aspartate Synthesis. <i>Cell</i> , 2015, 162, 540-551.	13.5	1,024
88	Asymmetric apportioning of aged mitochondria between daughter cells is required for stemness. <i>Science</i> , 2015, 348, 340-343.	6.0	463
89	Identification of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase as a novel autophagy regulator by high content shRNA screening. <i>Oncogene</i> , 2015, 34, 5662-5676.	2.6	56
90	Nutrient-Sensing Mechanisms across Evolution. <i>Cell</i> , 2015, 161, 67-83.	13.5	293

#	ARTICLE	IF	CITATIONS
91	SHMT2 drives glioma cell survival in ischaemia but imposes a dependence on glycine clearance. <i>Nature</i> , 2015, 520, 363-367.	13.7	303
92	Identification and characterization of essential genes in the human genome. <i>Science</i> , 2015, 350, 1096-1101.	6.0	1,461
93	Disruption of the Rag-Ragulator Complex by c17orf59 Inhibits mTORC1. <i>Cell Reports</i> , 2015, 12, 1445-1455.	2.9	31
94	Identification of an oncogenic RAB protein. <i>Science</i> , 2015, 350, 211-217.	6.0	113
95	Myeloid-Specific Rictor Deletion Induces M1 Macrophage Polarization and Potentiates In Vivo Pro-Inflammatory Response to Lipopolysaccharide. <i>PLoS ONE</i> , 2014, 9, e95432.	1.1	94
96	The Adaptor Protein p66Shc Inhibits mTOR-Dependent Anabolic Metabolism. <i>Science Signaling</i> , 2014, 7, ra17.	1.6	37
97	The Sestrins Interact with GATOR2 to Negatively Regulate the Amino-Acid-Sensing Pathway Upstream of mTORC1. <i>Cell Reports</i> , 2014, 9, 1-8.	2.9	394
98	Systematic identification of signaling pathways with potential to confer anticancer drug resistance. <i>Science Signaling</i> , 2014, 7, ra121.	1.6	163
99	Hepatic signaling by the mechanistic target of rapamycin complex 2 (mTORC2). <i>FASEB Journal</i> , 2014, 28, 300-315.	0.2	65
100	Metabolic determinants of cancer cell sensitivity to glucose limitation and biguanides. <i>Nature</i> , 2014, 508, 108-112.	13.7	585
101	Dietary and Metabolic Control of Stem Cell Function in Physiology and Cancer. <i>Cell Stem Cell</i> , 2014, 14, 292-305.	5.2	136
102	Regulation of mTORC1 by amino acids. <i>Trends in Cell Biology</i> , 2014, 24, 400-406.	3.6	649
103	Genetic Screens in Human Cells Using the CRISPR-Cas9 System. <i>Science</i> , 2014, 343, 80-84.	6.0	2,414
104	The Protein Synthesis Inhibitor Blastocidin S Enters Mammalian Cells via Leucine-rich Repeat-containing Protein 8D. <i>Journal of Biological Chemistry</i> , 2014, 289, 17124-17131.	1.6	67
105	Depletion of Rictor, an essential protein component of mTORC2, decreases male lifespan. <i>Aging Cell</i> , 2014, 13, 911-917.	3.0	99
106	Response and Acquired Resistance to Everolimus in Anaplastic Thyroid Cancer. <i>New England Journal of Medicine</i> , 2014, 371, 1426-1433.	13.9	290
107	A Diverse Array of Cancer-Associated <i>MTOR</i> Mutations Are Hyperactivating and Can Predict Rapamycin Sensitivity. <i>Cancer Discovery</i> , 2014, 4, 554-563.	7.7	384
108	Regulation of growth and metabolism. <i>Cancer & Metabolism</i> , 2014, 2, .	2.4	0

#	ARTICLE	IF	CITATIONS
109	Activating mTOR Mutations in a Patient with an Extraordinary Response on a Phase I Trial of Everolimus and Pazopanib. <i>Cancer Discovery</i> , 2014, 4, 546-553.	7.7	266
110	Dihydropyrimidine Accumulation Is Required for the Epithelial-Mesenchymal Transition. <i>Cell</i> , 2014, 158, 1094-1109.	13.5	186
111	Inhibition of ATPIF1 Ameliorates Severe Mitochondrial Respiratory Chain Dysfunction in Mammalian Cells. <i>Cell Reports</i> , 2014, 7, 27-34.	2.9	62
112	RagA, but Not RagB, Is Essential for Embryonic Development and Adult Mice. <i>Developmental Cell</i> , 2014, 29, 321-329.	3.1	81
113	ZFH4 Interacts with the NuRD Core Member CHD4 and Regulates the Glioblastoma Tumor-Initiating Cell State. <i>Cell Reports</i> , 2014, 6, 313-324.	2.9	106
114	mTORC1 Phosphorylation Sites Encode Their Sensitivity to Starvation and Rapamycin. <i>Science</i> , 2013, 341, 1236566.	6.0	383
115	A Central Role for mTOR in Lipid Homeostasis. <i>Cell Metabolism</i> , 2013, 18, 465-469.	7.2	308
116	A Tumor Suppressor Complex with GAP Activity for the Rag GTPases That Signal Amino Acid Sufficiency to mTORC1. <i>Science</i> , 2013, 340, 1100-1106.	6.0	863
117	The Folliculin Tumor Suppressor Is a GAP for the RagC/D GTPases That Signal Amino Acid Levels to mTORC1. <i>Molecular Cell</i> , 2013, 52, 495-505.	4.5	436
118	A CREB3-ARF4 signalling pathway mediates the response to Golgi stress and susceptibility to pathogens. <i>Nature Cell Biology</i> , 2013, 15, 1473-1485.	4.6	135
119	Characterization of Torin2, an ATP-Competitive Inhibitor of mTOR, ATM, and ATR. <i>Cancer Research</i> , 2013, 73, 2574-2586.	0.4	170
120	MCT1-mediated transport of a toxic molecule is an effective strategy for targeting glycolytic tumors. <i>Nature Genetics</i> , 2013, 45, 104-108.	9.4	204
121	Regulation of mTORC1 by the Rag GTPases is necessary for neonatal autophagy and survival. <i>Nature</i> , 2013, 493, 679-683.	13.7	374
122	Calorie restriction in humans inhibits the PI3K/AKT pathway and induces a younger transcription profile. <i>Aging Cell</i> , 2013, 12, 645-651.	3.0	208
123	Regulation of mTORC1 and its impact on gene expression at a glance. <i>Journal of Cell Science</i> , 2013, 126, 1713-9.	1.2	509
124	The bromodomain protein Brd4 insulates chromatin from DNA damage signalling. <i>Nature</i> , 2013, 498, 246-250.	13.7	278
125	The TSC-mTOR pathway regulates macrophage polarization. <i>Nature Communications</i> , 2013, 4, 2834.	5.8	459
126	Nutrients and growth factors in mTORC1 activation. <i>Biochemical Society Transactions</i> , 2013, 41, 902-905.	1.6	46

#	ARTICLE	IF	CITATIONS
127	<i>Pten</i> -Null Tumors Cohabiting the Same Lung Display Differential AKT Activation and Sensitivity to Dietary Restriction. <i>Cancer Discovery</i> , 2013, 3, 908-921.	7.7	36
128	Young and old genetically heterogeneous HET ³ mice on a rapamycin diet are glucose intolerant but insulin sensitive. <i>Aging Cell</i> , 2013, 12, 712-718.	3.0	70
129	Rapalogs and mTOR inhibitors as anti-aging therapeutics. <i>Journal of Clinical Investigation</i> , 2013, 123, 980-989.	3.9	434
130	Rapamycin doses sufficient to extend lifespan do not compromise muscle mitochondrial content or endurance. <i>Aging</i> , 2013, 5, 539-550.	1.4	46
131	A tumor suppressor complex with GAP activity for the Rag GTPases that signal amino acid sufficiency to mTORC1. <i>FASEB Journal</i> , 2013, 27, 832.1.	0.2	0
132	Kinome-wide Selectivity Profiling of ATP-competitive Mammalian Target of Rapamycin (mTOR) Inhibitors and Characterization of Their Binding Kinetics. <i>Journal of Biological Chemistry</i> , 2012, 287, 9742-9752.	1.6	89
133	mTOR Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a011593-a011593.	2.3	219
134	MicroSCALE Screening Reveals Genetic Modifiers of Therapeutic Response in Melanoma. <i>Science Signaling</i> , 2012, 5, rs4.	1.6	33
135	Rapamycin has a biphasic effect on insulin sensitivity in C2C12 myotubes due to sequential disruption of mTORC1 and mTORC2. <i>Frontiers in Genetics</i> , 2012, 3, 177.	1.1	68
136	Ragulator Is a GEF for the Rag GTPases that Signal Amino Acid Levels to mTORC1. <i>Cell</i> , 2012, 150, 1196-1208.	13.5	777
137	A lysosome-to-nucleus signalling mechanism senses and regulates the lysosome via mTOR and TFEB. <i>EMBO Journal</i> , 2012, 31, 1095-1108.	3.5	1,507
138	Amino acids and mTORC1: from lysosomes to disease. <i>Trends in Molecular Medicine</i> , 2012, 18, 524-533.	3.5	370
139	SnapShot: mTORC1 Signaling at the Lysosomal Surface. <i>Cell</i> , 2012, 151, 1390-1390.e1.	13.5	34
140	Selective ATP-Competitive Inhibitors of TOR Suppress Rapamycin-Insensitive Function of TORC2 in <i>Saccharomyces cerevisiae</i> . <i>ACS Chemical Biology</i> , 2012, 7, 982-987.	1.6	12
141	Cancer Cell Metabolism: One Hallmark, Many Faces. <i>Cancer Discovery</i> , 2012, 2, 881-898.	7.7	773
142	mTOR Signaling in Growth Control and Disease. <i>Cell</i> , 2012, 149, 274-293.	13.5	7,066
143	TOR Signaling and Rapamycin Influence Longevity by Regulating SKN-1/Nrf and DAF-16/FoxO. <i>Cell Metabolism</i> , 2012, 15, 713-724.	7.2	533
144	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122

#	ARTICLE	IF	CITATIONS
145	DEPTOR Cell-Autonomously Promotes Adipogenesis, and Its Expression Is Associated with Obesity. <i>Cell Metabolism</i> , 2012, 16, 202-212.	7.2	99
146	Untuning the tumor metabolic machine: Targeting cancer metabolism: a bedside lesson. <i>Nature Medicine</i> , 2012, 18, 1022-1023.	15.2	60
147	Development of ATP-Competitive mTOR Inhibitors. <i>Methods in Molecular Biology</i> , 2012, 821, 447-460.	0.4	41
148	mTORC1 in the Paneth cell niche couples intestinal stem-cell function to calorie intake. <i>Nature</i> , 2012, 486, 490-495.	13.7	631
149	A unifying model for mTORC1-mediated regulation of mRNA translation. <i>Nature</i> , 2012, 485, 109-113.	13.7	1,245
150	Rapamycin-Induced Insulin Resistance Is Mediated by mTORC2 Loss and Uncoupled from Longevity. <i>Science</i> , 2012, 335, 1638-1643.	6.0	1,022
151	Growth control and metabolism. <i>BMC Proceedings</i> , 2012, 6, .	1.8	0
152	Pharmacologic Means of Extending Lifespan. , 2012, s4, .		5
153	mTORC1 Senses Lysosomal Amino Acids Through an Inside-Out Mechanism That Requires the Vacuolar H ⁺ -ATPase. <i>Science</i> , 2011, 334, 678-683.	6.0	1,369
154	Discovery of 9-(6-Aminopyridin-3-yl)-1-(3-(trifluoromethyl)phenyl)benzo[<i>h</i>][1,6]naphthyridin-2(1 <i>H</i>)-one (Torin2) as a Potent, Selective, and Orally Available Mammalian Target of Rapamycin (mTOR) Inhibitor for Treatment of Cancer. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 1473-1480.	2.9	195
155	Functional genomics reveal that the serine synthesis pathway is essential in breast cancer. <i>Nature</i> , 2011, 476, 346-350.	13.7	1,359
156	mTOR Complex 1 Regulates Lipin 1 Localization to Control the SREBP Pathway. <i>Cell</i> , 2011, 146, 408-420.	13.5	1,002
157	A Radical Role for TOR in Longevity. <i>Cell Metabolism</i> , 2011, 13, 617-618.	7.2	11
158	Postprandial Hepatic Lipid Metabolism Requires Signaling through Akt2 Independent of the Transcription Factors FoxA2, FoxO1, and SREBP1c. <i>Cell Metabolism</i> , 2011, 14, 516-527.	7.2	116
159	The TASCC of Secretion. <i>Science</i> , 2011, 332, 923-925.	6.0	12
160	mTOR: from growth signal integration to cancer, diabetes and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 21-35.	16.1	3,464
161	Defective Regulation of Autophagy upon Leucine Deprivation Reveals a Targetable Liability of Human Melanoma Cells In Vitro and In Vivo. <i>Cancer Cell</i> , 2011, 19, 613-628.	7.7	203
162	Discovery and optimization of potent and selective benzonaphthyridinone analogs as small molecule mTOR inhibitors with improved mouse microsome stability. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4036-4040.	1.0	10

#	ARTICLE	IF	CITATIONS
163	A haploid genetic screen identifies the major facilitator domain containing 2A (MFSD2A) transporter as a key mediator in the response to tunicamycin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11756-11765.	3.3	90
164	Genome-scale RNAi on living-cell microarrays identifies novel regulators of <i>Drosophila melanogaster</i> TORC1-S6K pathway signaling. Genome Research, 2011, 21, 433-446.	2.4	36
165	The mTOR-Regulated Phosphoproteome Reveals a Mechanism of mTORC1-Mediated Inhibition of Growth Factor Signaling. Science, 2011, 332, 1317-1322.	6.0	973
166	<i>Science Signaling</i> Podcast: 8 November 2011. Science Signaling, 2011, 4, .	1.6	0
167	mTOR and cancer: many loops in one pathway. Current Opinion in Cell Biology, 2010, 22, 169-176.	2.6	375
168	mTORC1 controls fasting-induced ketogenesis and its modulation by ageing. Nature, 2010, 468, 1100-1104.	13.7	532
169	mTORC1 activates SREBP-1c and uncouples lipogenesis from gluconeogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3281-3282.	3.3	117
170	Rictor Phosphorylation on the Thr-1135 Site Does Not Require Mammalian Target of Rapamycin Complex 2. Molecular Cancer Research, 2010, 8, 896-906.	1.5	61
171	Regulation of TOR Signaling in Mammals. The Enzymes, 2010, , 21-38.	0.7	5
172	Functional genomics, proteomics, and regulatory DNA analysis in isogenic settings using zinc finger nuclease-driven transgenesis into a safe harbor locus in the human genome. Genome Research, 2010, 20, 1133-1142.	2.4	280
173	Native Capillary Isoelectric Focusing for the Separation of Protein Complex Isoforms and Subcomplexes. Analytical Chemistry, 2010, 82, 6643-6651.	3.2	35
174	Discovery of 1-(4-(4-Propionylpiperazin-1-yl)-3-(trifluoromethyl)phenyl)-9-(quinolin-3-yl)benzo[h][1,6]naphthyridin-2(1 <i>H</i>)-one as a Highly Potent, Selective Mammalian Target of Rapamycin (mTOR) Inhibitor for the Treatment of Cancer. Journal of Medicinal Chemistry, 2010, 53, 7146-7155.	2.9	208
175	Structure of the Human mTOR Complex I and Its Implications for Rapamycin Inhibition. Molecular Cell, 2010, 38, 768-774.	4.5	347
176	Regulation of the mTOR Complex 1 Pathway by Nutrients, Growth Factors, and Stress. Molecular Cell, 2010, 40, 310-322.	4.5	1,075
177	Ragulator-Rag Complex Targets mTORC1 to the Lysosomal Surface and Is Necessary for Its Activation by Amino Acids. Cell, 2010, 141, 290-303.	13.5	2,001
178	Rapamycin inhibits mTORC1, but not completely. Autophagy, 2009, 5, 725-726.	4.3	241
179	The Pharmacology of mTOR Inhibition. Science Signaling, 2009, 2, pe24.	1.6	500
180	Scoring diverse cellular morphologies in image-based screens with iterative feedback and machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1826-1831.	3.3	345

#	ARTICLE	IF	CITATIONS
181	An Emerging Role of mTOR in Lipid Biosynthesis. <i>Current Biology</i> , 2009, 19, R1046-R1052.	1.8	529
182	mTOR Complex 2 Is Required for the Development of Prostate Cancer Induced by Pten Loss in Mice. <i>Cancer Cell</i> , 2009, 15, 148-159.	7.7	358
183	Tumours with PI3K activation are resistant to dietary restriction. <i>Nature</i> , 2009, 458, 725-731.	13.7	416
184	Systematic RNA interference reveals that oncogenic KRAS-driven cancers require TBK1. <i>Nature</i> , 2009, 462, 108-112.	13.7	2,707
185	DEPTOR Is an mTOR Inhibitor Frequently Overexpressed in Multiple Myeloma Cells and Required for Their Survival. <i>Cell</i> , 2009, 137, 873-886.	13.5	1,055
186	Growth Signaling at the Nexus of Stem Cell Life and Death. <i>Cell Stem Cell</i> , 2009, 5, 232-234.	5.2	5
187	An ATP-competitive Mammalian Target of Rapamycin Inhibitor Reveals Rapamycin-resistant Functions of mTORC1. <i>Journal of Biological Chemistry</i> , 2009, 284, 8023-8032.	1.6	1,545
188	mTOR signaling at a glance. <i>Journal of Cell Science</i> , 2009, 122, 3589-3594.	1.2	1,940
189	Rag proteins regulate amino-acid-induced mTORC1 signalling. <i>Biochemical Society Transactions</i> , 2009, 37, 289-290.	1.6	76
190	CellProfiler Analyst: data exploration and analysis software for complex image-based screens. <i>BMC Bioinformatics</i> , 2008, 9, 482.	1.2	496
191	Increased mTORC1 Signaling UPRegulates Stress. <i>Molecular Cell</i> , 2008, 29, 533-535.	4.5	22
192	Cancer Cell Metabolism: Warburg and Beyond. <i>Cell</i> , 2008, 134, 703-707.	13.5	2,017
193	The Rag GTPases Bind Raptor and Mediate Amino Acid Signaling to mTORC1. <i>Science</i> , 2008, 320, 1496-1501.	6.0	2,280
194	Highly parallel identification of essential genes in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20380-20385.	3.3	499
195	<i>Cell Growth.</i> , 2008, , 169-175.		1
196	Rapamycin derivatives reduce mTORC2 signaling and inhibit AKT activation in AML. <i>Blood</i> , 2007, 109, 3509-3512.	0.6	318
197	Off-target effects associated with long dsRNAs in <i>Drosophila</i> RNAi screens. <i>Trends in Pharmacological Sciences</i> , 2007, 28, 149-151.	4.0	51
198	PRAS40 Is an Insulin-Regulated Inhibitor of the mTORC1 Protein Kinase. <i>Molecular Cell</i> , 2007, 25, 903-915.	4.5	1,088

#	ARTICLE	IF	CITATIONS
199	CellProfiler [®] : free, versatile software for automated biological image analysis. <i>BioTechniques</i> , 2007, 42, 71-75.	0.8	801
200	Defining the Role of mTOR in Cancer. <i>Cancer Cell</i> , 2007, 12, 9-22.	7.7	2,610
201	CellProfiler: image analysis software for identifying and quantifying cell phenotypes. <i>Genome Biology</i> , 2006, 7, R100.	13.9	4,287
202	A Lentiviral RNAi Library for Human and Mouse Genes Applied to an Arrayed Viral High-Content Screen. <i>Cell</i> , 2006, 124, 1283-1298.	13.5	1,603
203	Ablation in Mice of the mTORC Components raptor, rictor, or mLST8 Reveals that mTORC2 Is Required for Signaling to Akt-FOXO and PKC ζ , but Not S6K1. <i>Developmental Cell</i> , 2006, 11, 859-871.	3.1	1,271
204	Prolonged Rapamycin Treatment Inhibits mTORC2 Assembly and Akt/PKB. <i>Molecular Cell</i> , 2006, 22, 159-168.	4.5	2,388
205	Role of the mTOR Signaling Pathway in Disease. <i>Inflammatory Bowel Diseases</i> , 2006, 12, S9.	0.9	1
206	Minimizing the risk of reporting false positives in large-scale RNAi screens. <i>Nature Methods</i> , 2006, 3, 777-779.	9.0	417
207	Microarrays of lentiviruses for gene function screens in immortalized and primary cells. <i>Nature Methods</i> , 2006, 3, 117-122.	9.0	121
208	Genome-scale loss-of-function screening with a lentiviral RNAi library. <i>Nature Methods</i> , 2006, 3, 715-719.	9.0	337
209	mTOR and cancer: insights into a complex relationship. <i>Nature Reviews Cancer</i> , 2006, 6, 729-734.	12.8	1,223
210	Building mammalian signalling pathways with RNAi screens. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 177-187.	16.1	197
211	Stress and mTOR signaling. <i>Oncogene</i> , 2006, 25, 6373-6383.	2.6	318
212	Functional Genomics Identifies TOR-Regulated Genes that Control Growth and Division. <i>Current Biology</i> , 2006, 16, 958-970.	1.8	159
213	mSin1 Is Necessary for Akt/PKB Phosphorylation, and Its Isoforms Define Three Distinct mTORC2s. <i>Current Biology</i> , 2006, 16, 1865-1870.	1.8	614
214	Cell microarrays and RNA interference chip away at gene function. <i>Nature Genetics</i> , 2005, 37, S25-S30.	9.4	211
215	Growing roles for the mTOR pathway. <i>Current Opinion in Cell Biology</i> , 2005, 17, 596-603.	2.6	1,413
216	Redox Regulation of the Nutrient-sensitive Raptor-mTOR Pathway and Complex. <i>Journal of Biological Chemistry</i> , 2005, 280, 39505-39509.	1.6	218

#	ARTICLE	IF	CITATIONS
217	Phosphorylation and Regulation of Akt/PKB by the Rictor-mTOR Complex. <i>Science</i> , 2005, 307, 1098-1101.	6.0	5,761
218	Structure of S6 Kinase 1 Determines whether Raptor-mTOR or Rictor-mTOR Phosphorylates Its Hydrophobic Motif Site. <i>Journal of Biological Chemistry</i> , 2005, 280, 19445-19448.	1.6	124
219	eIF3: A ConnecTOR of S6K1 to the Translation Preinitiation Complex. <i>Molecular Cell</i> , 2005, 20, 655-657.	4.5	21
220	An expanding role for mTOR in cancer. <i>Trends in Molecular Medicine</i> , 2005, 11, 353-361.	3.5	472
221	AMPK and p53 help cells through lean times. <i>Cell Metabolism</i> , 2005, 1, 287-288.	7.2	41
222	From The Cover: Microarrays of small molecules embedded in biodegradable polymers for use in mammalian cell-based screens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16144-16149.	3.3	141
223	Huntingtin aggregates ask to be eaten. <i>Nature Genetics</i> , 2004, 36, 553-554.	9.4	9
224	RNAi living-cell microarrays for loss-of-function screens in <i>Drosophila melanogaster</i> cells. <i>Nature Methods</i> , 2004, 1, 127-132.	9.0	136
225	Systematic genome-wide screens of gene function. <i>Nature Reviews Genetics</i> , 2004, 5, 11-22.	7.7	302
226	Rictor, a Novel Binding Partner of mTOR, Defines a Rapamycin-Insensitive and Raptor-Independent Pathway that Regulates the Cytoskeleton. <i>Current Biology</i> , 2004, 14, 1296-1302.	1.8	2,370
227	Raptor and mTOR: Subunits of a Nutrient-Sensitive Complex. <i>Current Topics in Microbiology and Immunology</i> , 2004, 279, 259-270.	0.7	106
228	TOS Motif-Mediated Raptor Binding Regulates 4E-BP1 Multisite Phosphorylation and Function. <i>Current Biology</i> , 2003, 13, 797-806.	1.8	442
229	G β L, a Positive Regulator of the Rapamycin-Sensitive Pathway Required for the Nutrient-Sensitive Interaction between Raptor and mTOR. <i>Molecular Cell</i> , 2003, 11, 895-904.	4.5	883
230	Lentivirus-delivered stable gene silencing by RNAi in primary cells. <i>Rna</i> , 2003, 9, 493-501.	1.6	1,270
231	Enumeration of the Simian Virus 40 Early Region Elements Necessary for Human Cell Transformation. <i>Molecular and Cellular Biology</i> , 2002, 22, 2111-2123.	1.1	575
232	The Immunosuppressant Rapamycin Mimics a Starvation-Like Signal Distinct from Amino Acid and Glucose Deprivation. <i>Molecular and Cellular Biology</i> , 2002, 22, 5575-5584.	1.1	383
233	mTOR Interacts with Raptor to Form a Nutrient-Sensitive Complex that Signals to the Cell Growth Machinery. <i>Cell</i> , 2002, 110, 163-175.	13.5	2,673
234	Cell-biological applications of transfected-cell microarrays. <i>Trends in Cell Biology</i> , 2002, 12, 485-488.	3.6	150

#	ARTICLE	IF	CITATIONS
235	Applications of transfected cell microarrays in high-throughput drug discovery. <i>Drug Discovery Today</i> , 2002, 7, S113-S118.	3.2	73
236	Microarrays of cells expressing defined cDNAs. <i>Nature</i> , 2001, 411, 107-110.	13.7	942
237	Interaction of RAFT1 with Gephyrin Required for Rapamycin-Sensitive Signaling. <i>Science</i> , 1999, 284, 1161-1164.	6.0	172
238	Neural actions of immunophilin ligands. <i>Trends in Pharmacological Sciences</i> , 1998, 19, 21-26.	4.0	187
239	RAFT1 phosphorylation of the translational regulators p70 S6 kinase and 4E-BP1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 1432-1437.	3.3	1,049
240	Neurabin is a synaptic protein linking p70 S6 kinase and the neuronal cytoskeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8351-8356.	3.3	118
241	The 12 kD FK506 Binding Protein FKBP12 Is Released in the Male Reproductive Tract and Stimulates Sperm Motility. <i>Molecular Medicine</i> , 1998, 4, 502-514.	1.9	22
242	The 12 kD FK 506 binding protein FKBP12 is released in the male reproductive tract and stimulates sperm motility. <i>Molecular Medicine</i> , 1998, 4, 502-14.	1.9	10
243	Neural roles of immunophilins and their ligands. <i>Molecular Neurobiology</i> , 1997, 15, 223-239.	1.9	84
244	Immunophilins and nervous system. <i>Nature Medicine</i> , 1995, 1, 32-37.	15.2	180
245	Immunophilin FK506 binding protein associated with inositol 1,4,5-trisphosphate receptor modulates calcium flux.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 1784-1788.	3.3	282
246	The Rapamycin and FKBP12 Target (RAFT) Displays Phosphatidylinositol 4-Kinase Activity. <i>Journal of Biological Chemistry</i> , 1995, 270, 20875-20878.	1.6	74
247	High-sensitivity sequencing of large proteins: Partial structure of the rapamycin-FKBP12 target. <i>Protein Science</i> , 1994, 3, 2435-2446.	3.1	58
248	RAFT1: A mammalian protein that binds to FKBP12 in a rapamycin-dependent fashion and is homologous to yeast TORs. <i>Cell</i> , 1994, 78, 35-43.	13.5	1,355