

Jie Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

6,798
citations

42
h-index

82
g-index

88
ext. papers

7,538
ext. citations

11
avg, IF

5.7
L-index

#	Paper	IF	Citations
79	Phosphatidic acid-mediated mitogenic activation of mTOR signaling. <i>Science</i> , 2001 , 294, 1942-5	33.3	867
78	Control of p70 s6 kinase by kinase activity of FRAP in vivo. <i>Nature</i> , 1995 , 377, 441-6	50.4	626
77	regulation of peroxisome proliferator-activated receptor-gamma activity by mammalian target of rapamycin and amino acids in adipogenesis. <i>Diabetes</i> , 2004 , 53, 2748-56	0.9	352
76	Probing cellular protein complexes using single-molecule pull-down. <i>Nature</i> , 2011 , 473, 484-8	50.4	288
75	TOR kinase domains are required for two distinct functions, only one of which is inhibited by rapamycin. <i>Cell</i> , 1995 , 82, 121-30	56.2	251
74	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. <i>Nature Medicine</i> , 2012 , 18, 934-42	50.5	240
73	IGF-II is regulated by microRNA-125b in skeletal myogenesis. <i>Journal of Cell Biology</i> , 2011 , 192, 69-81	7.3	194
72	Alpha 4 associates with protein phosphatases 2A, 4, and 6. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 247, 827-32	3.4	160
71	mTOR supports long-term self-renewal and suppresses mesoderm and endoderm activities of human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7840-5	11.5	157
70	Interleukin-6 and insulin resistance. <i>Vitamins and Hormones</i> , 2009 , 80, 613-33	2.5	151
69	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. <i>Journal of Cell Biology</i> , 2010 , 189, 1157-69	7.3	147
68	Electrochemical cues regulate assembly of the Frizzled/Dishevelled complex at the plasma membrane during planar epithelial polarization. <i>Nature Cell Biology</i> , 2009 , 11, 286-94	23.4	141
67	PLD1 regulates mTOR signaling and mediates Cdc42 activation of S6K1. <i>Current Biology</i> , 2003 , 13, 2037-43	6.5	139
66	Duration of rapamycin treatment has differential effects on metabolism in mice. <i>Cell Metabolism</i> , 2013 , 17, 456-62	24.6	134
65	IGF-II transcription in skeletal myogenesis is controlled by mTOR and nutrients. <i>Journal of Cell Biology</i> , 2003 , 163, 931-6	7.3	124
64	(+)-Discodermolide binds to microtubules in stoichiometric ratio to tubulin dimers, blocks taxol binding and results in mitotic arrest. <i>Chemistry and Biology</i> , 1996 , 3, 287-93		122
63	Class III PI-3-kinase activates phospholipase D in an amino acid-sensing mTORC1 pathway. <i>Journal of Cell Biology</i> , 2011 , 195, 435-47	7.3	116

62	Sequential involvement of Cdk1, mTOR and p53 in apoptosis induced by the HIV-1 envelope. <i>EMBO Journal</i> , 2002 , 21, 4070-80	13	116
61	The mammalian target of rapamycin regulates C2C12 myogenesis via a kinase-independent mechanism. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36079-82	5.4	116
60	MicroRNAs in skeletal myogenesis. <i>Cell Cycle</i> , 2011 , 10, 441-8	4.7	115
59	The FKBP12-rapamycin-binding domain is required for FKBP12-rapamycin-associated protein kinase activity and G1 progression. <i>Journal of Biological Chemistry</i> , 1999 , 274, 4266-72	5.4	113
58	A novel pathway regulating the mammalian target of rapamycin (mTOR) signaling. <i>Biochemical Pharmacology</i> , 2002 , 64, 1071-7	6	102
57	Genome-wide adaptive complexes to underground stresses in blind mole rats <i>Spalax</i> . <i>Nature Communications</i> , 2014 , 5, 3966	17.4	101
56	Regulation of interleukin-6-induced hepatic insulin resistance by mammalian target of rapamycin through the STAT3-SOCS3 pathway. <i>Journal of Biological Chemistry</i> , 2008 , 283, 708-15	5.4	101
55	Phosphatidic acid activates mammalian target of rapamycin complex 1 (mTORC1) kinase by displacing FK506 binding protein 38 (FKBP38) and exerting an allosteric effect. <i>Journal of Biological Chemistry</i> , 2011 , 286, 29568-74	5.4	96
54	A phosphatidylinositol 3-kinase/protein kinase B-independent activation of mammalian target of rapamycin signaling is sufficient to induce skeletal muscle hypertrophy. <i>Molecular Biology of the Cell</i> , 2010 , 21, 3258-68	3.5	95
53	mTOR regulates skeletal muscle regeneration in vivo through kinase-dependent and kinase-independent mechanisms. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C1434-44	5.4	92
52	Glycerolipid signals alter mTOR complex 2 (mTORC2) to diminish insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1667-72	11.5	81
51	Mammalian target of rapamycin (mTOR) signaling network in skeletal myogenesis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 43928-35	5.4	73
50	mTOR signaling: PLD takes center stage. <i>Cell Cycle</i> , 2008 , 7, 3118-23	4.7	68
49	Regulation of ribosomal S6 kinase 2 by mammalian target of rapamycin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 31423-9	5.4	68
48	Skeletal myocyte hypertrophy requires mTOR kinase activity and S6K1. <i>Experimental Cell Research</i> , 2005 , 309, 211-9	4.2	66
47	Rapid mitogenic regulation of the mTORC1 inhibitor, DEPTOR, by phosphatidic acid. <i>Molecular Cell</i> , 2015 , 58, 549-56	17.6	65
46	Mammalian target of rapamycin (mTOR) signaling is required for a late-stage fusion process during skeletal myotube maturation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32009-17	5.4	65
45	EPRS is a critical mTORC1-S6K1 effector that influences adiposity in mice. <i>Nature</i> , 2017 , 542, 357-361	50.4	64

44	Signal transducer and activator of transcription 3 (STAT3) mediates amino acid inhibition of insulin signaling through serine 727 phosphorylation. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35425-32	5.4	64
43	Leucyl-tRNA Synthetase Activates Vps34 in Amino Acid-Sensing mTORC1 Signaling. <i>Cell Reports</i> , 2016 , 16, 1510-1517	10.6	61
42	A nuclear transport signal in mammalian target of rapamycin is critical for its cytoplasmic signaling to S6 kinase 1. <i>Journal of Biological Chemistry</i> , 2006 , 281, 7357-63	5.4	60
41	Mammalian target of rapamycin and Rictor control neutrophil chemotaxis by regulating Rac/Cdc42 activity and the actin cytoskeleton. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3369-80	3.5	58
40	PLD regulates myoblast differentiation through the mTOR-IGF2 pathway. <i>Journal of Cell Science</i> , 2008 , 121, 282-9	5.3	57
39	Subunit dissociation affects DNA binding in a dimeric lac repressor produced by C-terminal deletion. <i>Biochemistry</i> , 1994 , 33, 8728-35	3.2	54
38	Forkhead box protein O1 negatively regulates skeletal myocyte differentiation through degradation of mammalian target of rapamycin pathway components. <i>Endocrinology</i> , 2008 , 149, 1407-14	4.8	45
37	Lanthionine synthetase C-like protein 2 (LanCL2) is a novel regulator of Akt. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3954-61	3.5	36
36	Distinct amino acid-sensing mTOR pathways regulate skeletal myogenesis. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3754-63	3.5	36
35	MicroRNA-146b promotes myogenic differentiation and modulates multiple gene targets in muscle cells. <i>PLoS ONE</i> , 2014 , 9, e100657	3.7	36
34	Mutually inhibitory Ras-PI(3,4)P feedback loops mediate cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9125-E9134	11.5	36
33	Helicobacter pylori Infection Modulates Host Cell Metabolism through VacA-Dependent Inhibition of mTORC1. <i>Cell Host and Microbe</i> , 2018 , 23, 583-593.e8	23.4	35
32	Stoichiometry and assembly of mTOR complexes revealed by single-molecule pulldown. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17833-8	11.5	35
31	Effects of rapamycin on growth hormone receptor knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1495-E1503	11.5	34
30	Frap-dependent serine phosphorylation of IRS-1 inhibits IRS-1 tyrosine phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 280, 776-81	3.4	33
29	Mechanistic target of rapamycin controls homeostasis of adipogenesis. <i>Journal of Lipid Research</i> , 2013 , 54, 2166-2173	6.3	32
28	XPLN is an endogenous inhibitor of mTORC2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15979-84	11.5	29
27	Raptor and Rheb negatively regulate skeletal myogenesis through suppression of insulin receptor substrate 1 (IRS1). <i>Journal of Biological Chemistry</i> , 2011 , 286, 35675-35682	5.4	28

26	Construction of a dimeric repressor: dissection of subunit interfaces in Lac repressor. <i>Biochemistry</i> , 1994 , 33, 1234-41	3.2	22
25	Activation of mTOR signaling by novel fluoromethylene phosphonate analogues of phosphatidic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 1461-4	2.9	21
24	To Grow or Not to Grow: TOR and SnRK2 Coordinate Growth and Stress Response in Arabidopsis. <i>Molecular Cell</i> , 2018 , 69, 3-4	17.6	18
23	Lack of muscle mTOR kinase activity causes early onset myopathy and compromises whole-body homeostasis. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019 , 10, 35-53	10.3	18
22	RNAi screen reveals potentially novel roles of cytokines in myoblast differentiation. <i>PLoS ONE</i> , 2013 , 8, e68068	3.7	16
21	T41 mutation in lac repressor is Tyr282----Asp. <i>Gene</i> , 1992 , 111, 145-6	3.8	13
20	Single-Molecule Analysis of Lipid-Protein Interactions in Crude Cell Lysates. <i>Analytical Chemistry</i> , 2016 , 88, 4269-76	7.8	13
19	Nontranslational function of leucyl-tRNA synthetase regulates myogenic differentiation and skeletal muscle regeneration. <i>Journal of Clinical Investigation</i> , 2019 , 129, 2088-2093	15.9	12
18	Cxcl14 depletion accelerates skeletal myogenesis by promoting cell cycle withdrawal. <i>Npj Regenerative Medicine</i> , 2017 , 2,	15.8	11
17	LanCL proteins are not Involved in Lanthionine Synthesis in Mammals. <i>Scientific Reports</i> , 2017 , 7, 40980	4.9	11
16	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength through Autophagy. <i>Cell Reports</i> , 2021 , 34, 108594	10.6	11
15	Flt3L is a novel regulator of skeletal myogenesis. <i>Journal of Cell Science</i> , 2013 , 126, 3370-9	5.3	10
14	Amino acid-sensing mTOR signaling is involved in modulation of lipolysis by chronic insulin treatment in adipocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E862-8	6	9
13	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. <i>Cell</i> , 2021 , 184, 2680-2695.e26	56.2	6
12	Integrin regulation of gene transcription in skeletal muscle following an acute bout of eccentric exercise. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 312, C638-C650	5.4	5
11	Redefining the specificity of phosphoinositide-binding by human PH domain-containing proteins. <i>Nature Communications</i> , 2021 , 12, 4339	17.4	5
10	mTORC1 mediates fiber type-specific regulation of protein synthesis and muscle size during denervation. <i>Cell Death Discovery</i> , 2021 , 7, 74	6.9	4
9	Protein modulators made to order. <i>Chemistry and Biology</i> , 2002 , 9, 543-4		3

8	Autophagy-dependent regulation of skeletal muscle regeneration and strength by a RHOGEF. <i>Autophagy</i> , 2021 , 17, 1044-1045	10.2	3
7	Lanthionine synthetase C-like protein 2 (LanCL2) is important for adipogenic differentiation. <i>Journal of Lipid Research</i> , 2018 , 59, 1433-1445	6.3	2
6	Lentivirus-Mediated RNAi in Skeletal Myogenesis. <i>Methods in Molecular Biology</i> , 2019 , 1889, 95-110	1.4	1
5	Muscle-derived TRAIL negatively regulates myogenic differentiation. <i>Experimental Cell Research</i> , 2020 , 394, 112165	4.2	0
4	Aging Does Not Exacerbate Muscle Loss During Denervation and Lends Unique Muscle-Specific Atrophy Resistance With Akt Activation.. <i>Frontiers in Physiology</i> , 2021 , 12, 779547	4.6	0
3	A non-translational role of threonyl-tRNA synthetase in regulating JNK signaling during myogenic differentiation. <i>FASEB Journal</i> , 2021 , 35, e21948	0.9	0
2	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. <i>Journal of Experimental Medicine</i> , 2010 , 207, i21-i21	16.6	
1	Flt3L is a novel regulator of skeletal myogenesis. <i>Development (Cambridge)</i> , 2013 , 140, e1707-e1707	6.6	