Jie Chen

List of Publications by Year in Descending Order

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	Aging Does Not Exacerbate Muscle Loss During Denervation and Lends Unique Muscle-Specific Atrophy Resistance With Akt Activation.. *Frontiers in Physiology*, **2021**, 12, 779547	4.6	0
78	mTORC1 mediates fiber type-specific regulation of protein synthesis and muscle size during denervation. *Cell Death Discovery*, **2021**, 7, 74	6.9	4
77	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. *Cell*, **2021**, 184, 2680-2695.e26	56.2	6
76	Autophagy-dependent regulation of skeletal muscle regeneration and strength by a RHOGEF. *Autophagy*, **2021**, 17, 1044-1045	10.2	3
75	Redefining the specificity of phosphoinositide-binding by human PH domain-containing proteins. *Nature Communications*, **2021**, 12, 4339	17.4	5
74	A non-translational role of threonyl-tRNA synthetase in regulating JNK signaling during myogenic differentiation. *FASEB Journal*, **2021**, 35, e21948	0.9	0
73	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength through Autophagy. *Cell Reports*, **2021**, 34, 108594	10.6	11
72	Muscle-derived TRAIL negatively regulates myogenic differentiation. *Experimental Cell Research*, **2020**, 394, 112165	4.2	0
71	Nontranslational function of leucyl-tRNA synthetase regulates myogenic differentiation and skeletal muscle regeneration. *Journal of Clinical Investigation*, **2019**, 129, 2088-2093	15.9	12
70	Lack of muscle mTOR kinase activity causes early onset myopathy and compromises whole-body homeostasis. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 35-53	10.3	18
69	Lentivirus-Mediated RNAi in Skeletal Myogenesis. *Methods in Molecular Biology*, **2019**, 1889, 95-110	1.4	1
68	Effects of rapamycin on growth hormone receptor knockout mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1495-E1503	11.5	34
67	To Grow or Not to Grow: TOR and SnRK2 Coordinate Growth and Stress Response in Arabidopsis. *Molecular Cell*, **2018**, 69, 3-4	17.6	18
66	Helicobacter pylori Infection Modulates Host Cell Metabolism through VacA-Dependent Inhibition of mTORC1. *Cell Host and Microbe*, **2018**, 23, 583-593.e8	23.4	35
65	Lanthionine synthetase C-like protein 2 (LanCL2) is important for adipogenic differentiation. *Journal of Lipid Research*, **2018**, 59, 1433-1445	6.3	2
64	Mutually inhibitory Ras-PI(3,4)P feedback loops mediate cell migration. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9125-E9134	11.5	36
63	Cxcl14 depletion accelerates skeletal myogenesis by promoting cell cycle withdrawal. *Npj Regenerative Medicine*, **2017**, 2,	15.8	11

62	EPRS is a critical mTORC1-S6K1 effector that influences adiposity in mice. *Nature*, **2017**, 542, 357-361	50.4	64
61	Integrin regulation of gene transcription in skeletal muscle following an acute bout of eccentric exercise. *American Journal of Physiology - Cell Physiology*, **2017**, 312, C638-C650	5.4	5
60	LanCL proteins are not Involved in Lanthionine Synthesis in Mammals. *Scientific Reports*, **2017**, 7, 40980	4.9	11
59	Single-Molecule Analysis of Lipid-Protein Interactions in Crude Cell Lysates. *Analytical Chemistry*, **2016**, 88, 4269-76	7.8	13
58	Leucyl-tRNA Synthetase Activates Vps34 in Amino Acid-Sensing mTORC1 Signaling. *Cell Reports*, **2016**, 16, 1510-1517	10.6	61
57	Rapid mitogenic regulation of the mTORC1 inhibitor, DEPTOR, by phosphatidic acid. *Molecular Cell*, **2015**, 58, 549-56	17.6	65
56	Genome-wide adaptive complexes to underground stresses in blind mole rats Spalax. *Nature Communications*, **2014**, 5, 3966	17.4	101
55	Lanthionine synthetase C-like protein 2 (LanCL2) is a novel regulator of Akt. *Molecular Biology of the Cell*, **2014**, 25, 3954-61	3.5	36
54	Stoichiometry and assembly of mTOR complexes revealed by single-molecule pulldown. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17833-8	11.5	35
53	MicroRNA-146b promotes myogenic differentiation and modulates multiple gene targets in muscle cells. *PLoS ONE*, **2014**, 9, e100657	3.7	36
52	Flt3L is a novel regulator of skeletal myogenesis. *Journal of Cell Science*, **2013**, 126, 3370-9	5.3	10
51	Duration of rapamycin treatment has differential effects on metabolism in mice. *Cell Metabolism*, **2013**, 17, 456-62	24.6	134
50	Mechanistic target of rapamycin controls homeostasis of adipogenesis. *Journal of Lipid Research*, **2013**, 54, 2166-2173	6.3	32
49	Mammalian target of rapamycin and Rictor control neutrophil chemotaxis by regulating Rac/Cdc42 activity and the actin cytoskeleton. *Molecular Biology of the Cell*, **2013**, 24, 3369-80	3.5	58
48	XPLN is an endogenous inhibitor of mTORC2. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15979-84	11.5	29
47	Distinct amino acid-sensing mTOR pathways regulate skeletal myogenesis. *Molecular Biology of the Cell*, **2013**, 24, 3754-63	3.5	36
46	RNAi screen reveals potentially novel roles of cytokines in myoblast differentiation. *PLoS ONE*, **2013**, 8, e68068	3.7	16
45	Flt3L is a novel regulator of skeletal myogenesis. *Development (Cambridge)*, **2013**, 140, e1707-e1707	6.6	

44	Mammalian target of rapamycin (mTOR) signaling network in skeletal myogenesis. *Journal of Biological Chemistry*, **2012**, 287, 43928-35	5.4	73
43	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. *Nature Medicine*, **2012**, 18, 934-42	50.5	240
42	Glycerolipid signals alter mTOR complex 2 (mTORC2) to diminish insulin signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1667-72	11.5	81
41	Probing cellular protein complexes using single-molecule pull-down. *Nature*, **2011**, 473, 484-8	50.4	288
40	MicroRNAs in skeletal myogenesis. *Cell Cycle*, **2011**, 10, 441-8	4.7	115
39	IGF-II is regulated by microRNA-125b in skeletal myogenesis. *Journal of Cell Biology*, **2011**, 192, 69-81	7.3	194
38	Phosphatidic acid activates mammalian target of rapamycin complex 1 (mTORC1) kinase by displacing FK506 binding protein 38 (FKBP38) and exerting an allosteric effect. *Journal of Biological Chemistry*, **2011**, 286, 29568-74	5.4	96
37	Raptor and Rheb negatively regulate skeletal myogenesis through suppression of insulin receptor substrate 1 (IRS1). *Journal of Biological Chemistry*, **2011**, 286, 35675-35682	5.4	28
36	Class III PI-3-kinase activates phospholipase D in an amino acid-sensing mTORC1 pathway. *Journal of Cell Biology*, **2011**, 195, 435-47	7.3	116
35	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. *Journal of Cell Biology*, **2010**, 189, 1157-69	7.3	147
34	A phosphatidylinositol 3-kinase/protein kinase B-independent activation of mammalian target of rapamycin signaling is sufficient to induce skeletal muscle hypertrophy. *Molecular Biology of the Cell*, **2010**, 21, 3258-68	3.5	95
33	Mammalian target of rapamycin regulates miRNA-1 and follistatin in skeletal myogenesis. *Journal of Experimental Medicine*, **2010**, 207, i21-i21	16.6	
32	mTOR supports long-term self-renewal and suppresses mesoderm and endoderm activities of human embryonic stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7840-5	11.5	157
31	Signal transducer and activator of transcription 3 (STAT3) mediates amino acid inhibition of insulin signaling through serine 727 phosphorylation. *Journal of Biological Chemistry*, **2009**, 284, 35425-32	5.4	64
30	Amino acid-sensing mTOR signaling is involved in modulation of lipolysis by chronic insulin treatment in adipocytes. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 296, E862-8	6	9
29	Electrochemical cues regulate assembly of the Frizzled/Dishevelled complex at the plasma membrane during planar epithelial polarization. *Nature Cell Biology*, **2009**, 11, 286-94	23.4	141
28	Interleukin-6 and insulin resistance. *Vitamins and Hormones*, **2009**, 80, 613-33	2.5	151
27	mTOR regulates skeletal muscle regeneration in vivo through kinase-dependent and kinase-independent mechanisms. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C1434-44	5.4	92

26	mTOR signaling: PLD takes center stage. *Cell Cycle*, **2008**, 7, 3118-23	4.7	68
25	Regulation of interleukin-6-induced hepatic insulin resistance by mammalian target of rapamycin through the STAT3-SOCS3 pathway. *Journal of Biological Chemistry*, **2008**, 283, 708-15	5.4	101
24	PLD regulates myoblast differentiation through the mTOR-IGF2 pathway. *Journal of Cell Science*, **2008**, 121, 282-9	5.3	57
23	Forkhead box protein O1 negatively regulates skeletal myocyte differentiation through degradation of mammalian target of rapamycin pathway components. *Endocrinology*, **2008**, 149, 1407-14	4.8	45
22	A nuclear transport signal in mammalian target of rapamycin is critical for its cytoplasmic signaling to S6 kinase 1. *Journal of Biological Chemistry*, **2006**, 281, 7357-63	5.4	60
21	Skeletal myocyte hypertrophy requires mTOR kinase activity and S6K1. *Experimental Cell Research*, **2005**, 309, 211-9	4.2	66
20	Mammalian target of rapamycin (mTOR) signaling is required for a late-stage fusion process during skeletal myotube maturation. *Journal of Biological Chemistry*, **2005**, 280, 32009-17	5.4	65
19	regulation of peroxisome proliferator-activated receptor-gamma activity by mammalian target of rapamycin and amino acids in adipogenesis. *Diabetes*, **2004**, 53, 2748-56	0.9	352
18	Activation of mTOR signaling by novel fluoromethylene phosphonate analogues of phosphatidic acid. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 1461-4	2.9	21
17	IGF-II transcription in skeletal myogenesis is controlled by mTOR and nutrients. *Journal of Cell Biology*, **2003**, 163, 931-6	7.3	124
16	PLD1 regulates mTOR signaling and mediates Cdc42 activation of S6K1. *Current Biology*, **2003**, 13, 2037-44	6.3	139
15	A novel pathway regulating the mammalian target of rapamycin (mTOR) signaling. *Biochemical Pharmacology*, **2002**, 64, 1071-7	6	102
14	Protein modulators made to order. *Chemistry and Biology*, **2002**, 9, 543-4		3
13	Sequential involvement of Cdk1, mTOR and p53 in apoptosis induced by the HIV-1 envelope. *EMBO Journal*, **2002**, 21, 4070-80	13	116
12	Regulation of ribosomal S6 kinase 2 by mammalian target of rapamycin. *Journal of Biological Chemistry*, **2002**, 277, 31423-9	5.4	68
11	Phosphatidic acid-mediated mitogenic activation of mTOR signaling. *Science*, **2001**, 294, 1942-5	33.3	867
10	The mammalian target of rapamycin regulates C2C12 myogenesis via a kinase-independent mechanism. *Journal of Biological Chemistry*, **2001**, 276, 36079-82	5.4	116
9	Frap-dependent serine phosphorylation of IRS-1 inhibits IRS-1 tyrosine phosphorylation. *Biochemical and Biophysical Research Communications*, **2001**, 280, 776-81	3.4	33

8	The FKBP12-rapamycin-binding domain is required for FKBP12-rapamycin-associated protein kinase activity and G1 progression. *Journal of Biological Chemistry*, **1999**, 274, 4266-72	5.4	113
7	Alpha 4 associates with protein phosphatases 2A, 4, and 6. *Biochemical and Biophysical Research Communications*, **1998**, 247, 827-32	3.4	160
6	(+)-Discodermolide binds to microtubules in stoichiometric ratio to tubulin dimers, blocks taxol binding and results in mitotic arrest. *Chemistry and Biology*, **1996**, 3, 287-93		122
5	Control of p70 s6 kinase by kinase activity of FRAP in vivo. *Nature*, **1995**, 377, 441-6	50.4	626
4	TOR kinase domains are required for two distinct functions, only one of which is inhibited by rapamycin. *Cell*, **1995**, 82, 121-30	56.2	251
3	Subunit dissociation affects DNA binding in a dimeric lac repressor produced by C-terminal deletion. *Biochemistry*, **1994**, 33, 8728-35	3.2	54
2	Construction of a dimeric repressor: dissection of subunit interfaces in Lac repressor. *Biochemistry*, **1994**, 33, 1234-41	3.2	22
1	T41 mutation in lac repressor is Tyr282----Asp. *Gene*, **1992**, 111, 145-6	3.8	13