Kun-Liang Guan

List of Publications by Citations

259 papers	70,652 citations	119 h-index	265 g-index
266 ext. papers	81,207 ext. citations	14.9 avg, IF	8.18 L-index

#	Paper	IF	Citations
259	AMPK and mTOR regulate autophagy through direct phosphorylation of Ulk1. *Nature Cell Biology*, **2011**, 13, 132-41	23.4	4181
258	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
257	TSC2 mediates cellular energy response to control cell growth and survival. *Cell*, **2003**, 115, 577-90	56.2	2953
256	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
255	TSC2 is phosphorylated and inhibited by Akt and suppresses mTOR signalling. *Nature Cell Biology*, **2002**, 4, 648-57	23.4	2352
254	Inactivation of YAP oncoprotein by the Hippo pathway is involved in cell contact inhibition and tissue growth control. *Genes and Development*, **2007**, 21, 2747-61	12.6	1938
253	Oncometabolite 2-hydroxyglutarate is a competitive inhibitor of □ketoglutarate-dependent dioxygenases. *Cancer Cell*, **2011**, 19, 17-30	24.3	1919
252	TEAD mediates YAP-dependent gene induction and growth control. *Genes and Development*, **2008**, 22, 1962-71	12.6	1534
251	Regulation of cellular metabolism by protein lysine acetylation. *Science*, **2010**, 327, 1000-4	33.3	1394
250	Rheb GTPase is a direct target of TSC2 GAP activity and regulates mTOR signaling. *Genes and Development*, **2003**, 17, 1829-34	12.6	1333
249	Hippo Pathway in Organ Size Control, Tissue Homeostasis, and Cancer. *Cell*, **2015**, 163, 811-28	56.2	1185
248	Regulation of the Hippo-YAP pathway by G-protein-coupled receptor signaling. *Cell*, **2012**, 150, 780-91	56.2	1028
247	TSC2 integrates Wnt and energy signals via a coordinated phosphorylation by AMPK and GSK3 to regulate cell growth. *Cell*, **2006**, 126, 955-68	56.2	1028
246	ULK1 induces autophagy by phosphorylating Beclin-1 and activating VPS34 lipid kinase. *Nature Cell Biology*, **2013**, 15, 741-50	23.4	1009
245	Regulation of TORC1 by Rag GTPases in nutrient response. *Nature Cell Biology*, **2008**, 10, 935-45	23.4	949
244	mTOR: a pharmacologic target for autophagy regulation. *Journal of Clinical Investigation*, **2015**, 125, 25-32	15.9	897
243	Glioma-derived mutations in IDH1 dominantly inhibit IDH1 catalytic activity and induce HIF-1alpha. *Science*, **2009**, 324, 261-5	33.3	884

242	A coordinated phosphorylation by Lats and CK1 regulates YAP stability through SCF(beta-TRCP). *Genes and Development*, **2010**, 24, 72-85	12.6	849
241	Mechanisms of Hippo pathway regulation. *Genes and Development*, **2016**, 30, 1-17	12.6	834
240	The Hippo pathway in organ size control, tissue regeneration and stem cell self-renewal. *Nature Cell Biology*, **2011**, 13, 877-83	23.4	833
239	The Hippo pathway: regulators and regulations. *Genes and Development*, **2013**, 27, 355-71	12.6	818
238	Dysregulation of the TSC-mTOR pathway in human disease. *Nature Genetics*, **2005**, 37, 19-24	36.3	812
237	The Hippo-YAP pathway in organ size control and tumorigenesis: an updated version. *Genes and Development*, **2010**, 24, 862-74	12.6	781
236	Acetylation of metabolic enzymes coordinates carbon source utilization and metabolic flux. *Science*, **2010**, 327, 1004-7	33.3	767
235	The emerging roles of YAP and TAZ in cancer. *Nature Reviews Cancer*, **2015**, 15, 73-79	31.3	705
234	TAZ promotes cell proliferation and epithelial-mesenchymal transition and is inhibited by the hippo pathway. *Molecular and Cellular Biology*, **2008**, 28, 2426-36	4.8	680
233	Inhibition of □KG-dependent histone and DNA demethylases by fumarate and succinate that are accumulated in mutations of FH and SDH tumor suppressors. *Genes and Development*, **2012**, 26, 1326-38	12.6	641
232	Negative regulation of the forkhead transcription factor FKHR by Akt. *Journal of Biological Chemistry*, **1999**, 274, 16741-6	5.4	610
231	Amino acid signalling upstream of mTOR. *Nature Reviews Molecular Cell Biology*, **2013**, 14, 133-9	48.7	594
230	AMPK and mTOR in cellular energy homeostasis and drug targets. *Annual Review of Pharmacology and Toxicology*, **2012**, 52, 381-400	17.9	536
229	TSC-mTOR maintains quiescence and function of hematopoietic stem cells by repressing mitochondrial biogenesis and reactive oxygen species. *Journal of Experimental Medicine*, **2008**, 205, 2397-408	16.6	534
228	ATM signals to TSC2 in the cytoplasm to regulate mTORC1 in response to ROS. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4153-8	11.5	532
227	Differential regulation of distinct Vps34 complexes by AMPK in nutrient stress and autophagy. *Cell*, **2013**, 152, 290-303	56.2	526
226	Cell detachment activates the Hippo pathway via cytoskeleton reorganization to induce anoikis. *Genes and Development*, **2012**, 26, 54-68	12.6	522
225	The role of YAP transcription coactivator in regulating stem cell self-renewal and differentiation. *Genes and Development*, **2010**, 24, 1106-18	12.6	512

224	Essential function of TORC2 in PKC and Akt turn motif phosphorylation, maturation and signalling. *EMBO Journal*, **2008**, 27, 1919-31	13	487
223	Autophagy regulation by nutrient signaling. *Cell Research*, **2014**, 24, 42-57	24.7	478
222	Angiomotin is a novel Hippo pathway component that inhibits YAP oncoprotein. *Genes and Development*, **2011**, 25, 51-63	12.6	474
221	Metabolism. Differential regulation of mTORC1 by leucine and glutamine. *Science*, **2015**, 347, 194-8	33.3	442
220	Expanding mTOR signaling. *Cell Research*, **2007**, 17, 666-81	24.7	437
219	Regulation of the TSC pathway by LKB1: evidence of a molecular link between tuberous sclerosis complex and Peutz-Jeghers syndrome. *Genes and Development*, **2004**, 18, 1533-8	12.6	427
218	mTOR as a central hub of nutrient signalling and cell growth. *Nature Cell Biology*, **2019**, 21, 63-71	23.4	412
217	The autophagy initiating kinase ULK1 is regulated via opposing phosphorylation by AMPK and mTOR. *Autophagy*, **2011**, 7, 643-4	10.2	405
216	Acetylation targets the M2 isoform of pyruvate kinase for degradation through chaperone-mediated autophagy and promotes tumor growth. *Molecular Cell*, **2011**, 42, 719-30	17.6	404
215	The Hippo signaling pathway in stem cell biology and cancer. *EMBO Reports*, **2014**, 15, 642-56	6.5	400
214	Alternative Wnt Signaling Activates YAP/TAZ. *Cell*, **2015**, 162, 780-94	56.2	393
213	Semaphorins command cells to move. *Nature Reviews Molecular Cell Biology*, **2005**, 6, 789-800	48.7	392
212	A gp130-Src-YAP module links inflammation to epithelial regeneration. *Nature*, **2015**, 519, 57-62	50.4	387
211	Tumour suppressor SIRT3 deacetylates and activates manganese superoxide dismutase to scavenge ROS. *EMBO Reports*, **2011**, 12, 534-41	6.5	387
210	TEAD transcription factors mediate the function of TAZ in cell growth and epithelial-mesenchymal transition. *Journal of Biological Chemistry*, **2009**, 284, 13355-13362	5.4	385
209	Identification of Sin1 as an essential TORC2 component required for complex formation and kinase activity. *Genes and Development*, **2006**, 20, 2820-32	12.6	384
208	mTORC1 activation in podocytes is a critical step in the development of diabetic nephropathy in mice. *Journal of Clinical Investigation*, **2011**, 121, 2181-96	15.9	383
207	The Hippo-YAP pathway: new connections between regulation of organ size and cancer. *Current Opinion in Cell Biology*, **2008**, 20, 638-46	9	351

206	The hippo tumor pathway promotes TAZ degradation by phosphorylating a phosphodegron and recruiting the SCF{beta}-TrCP E3 ligase. *Journal of Biological Chemistry*, **2010**, 285, 37159-69	5.4	342
205	YAP mediates crosstalk between the Hippo and PI(3)K□TOR pathways by suppressing PTEN via miR-29. *Nature Cell Biology*, **2012**, 14, 1322-9	23.4	338
204	YAP and TAZ: a nexus for Hippo signaling and beyond. *Trends in Cell Biology*, **2015**, 25, 499-513	18.3	335
203	TSC2: filling the GAP in the mTOR signaling pathway. *Trends in Biochemical Sciences*, **2004**, 29, 32-8	10.3	333
202	Mechanisms of regulating the Raf kinase family. *Cellular Signalling*, **2003**, 15, 463-9	4.9	327
201	The YAP and TAZ transcription co-activators: key downstream effectors of the mammalian Hippo pathway. *Seminars in Cell and Developmental Biology*, **2012**, 23, 785-93	7.5	321
200	Cellular energy stress induces AMPK-mediated regulation of YAP and the Hippo pathway. *Nature Cell Biology*, **2015**, 17, 500-10	23.4	311
199	Mutant Gq/11 promote uveal melanoma tumorigenesis by activating YAP. *Cancer Cell*, **2014**, 25, 822-30	24.3	307
198	Sirt3 promotes the urea cycle and fatty acid oxidation during dietary restriction. *Molecular Cell*, **2011**, 41, 139-49	17.6	301
197	MAP4K family kinases act in parallel to MST1/2 to activate LATS1/2 in the Hippo pathway. *Nature Communications*, **2015**, 6, 8357	17.4	273
196	Acetylation regulates gluconeogenesis by promoting PEPCK1 degradation via recruiting the UBR5 ubiquitin ligase. *Molecular Cell*, **2011**, 43, 33-44	17.6	273
195	Regulation of intermediary metabolism by protein acetylation. *Trends in Biochemical Sciences*, **2011**, 36, 108-16	10.3	272
194	Nutrient signaling to mTOR and cell growth. *Trends in Biochemical Sciences*, **2013**, 38, 233-42	10.3	265
193	Signaling by target of rapamycin proteins in cell growth control. *Microbiology and Molecular Biology Reviews*, **2005**, 69, 79-100	13.2	260
192	IDH1 and IDH2 mutations in tumorigenesis: mechanistic insights and clinical perspectives. *Clinical Cancer Research*, **2012**, 18, 5562-71	12.9	254
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190	Wildtype Kras2 can inhibit lung carcinogenesis in mice. *Nature Genetics*, **2001**, 29, 25-33	36.3	245
189	MTORC1 regulates cardiac function and myocyte survival through 4E-BP1 inhibition in mice. *Journal of Clinical Investigation*, **2010**, 120, 2805-16	15.9	242

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186	Nutrient sensing, metabolism, and cell growth control. *Molecular Cell*, **2013**, 49, 379-87	17.6	228
185	Sestrins inhibit mTORC1 kinase activation through the GATOR complex. *Cell Reports*, **2014**, 9, 1281-91	10.6	223
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182	The Hippo Pathway Kinases LATS1/2 Suppress Cancer Immunity. *Cell*, **2016**, 167, 1525-1539.e17	56.2	214
181	Regulation of the Hippo-YAP pathway by protease-activated receptors (PARs). *Genes and Development*, **2012**, 26, 2138-43	12.6	210
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179	Lysine-5 acetylation negatively regulates lactate dehydrogenase A and is decreased in pancreatic cancer. *Cancer Cell*, **2013**, 23, 464-76	24.3	202
178	WT1 recruits TET2 to regulate its target gene expression and suppress leukemia cell proliferation. *Molecular Cell*, **2015**, 57, 662-673	17.6	198
177	Flow-dependent YAP/TAZ activities regulate endothelial phenotypes and atherosclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11525-11530	11.5	197
176	Bnip3 mediates the hypoxia-induced inhibition on mammalian target of rapamycin by interacting with Rheb. *Journal of Biological Chemistry*, **2007**, 282, 35803-13	5.4	195
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171	Regulation of PIK3C3/VPS34 complexes by MTOR in nutrient stress-induced autophagy. *Autophagy*, **2013**, 9, 1983-95	10.2	181

170	Negative Regulation of the Serine/Threonine Kinase B-Raf by Akt. *Journal of Biological Chemistry*, **2000**, 275, 27354-27359	5.4	177
169	Amino acid signaling in TOR activation. *Annual Review of Biochemistry*, **2011**, 80, 1001-32	29.1	176
168	A GSK-3/TSC2/mTOR pathway regulates glucose uptake and GLUT1 glucose transporter expression. *American Journal of Physiology - Cell Physiology*, **2008**, 295, C836-43	5.4	170
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165	Mechanistic insights into the regulation of metabolic enzymes by acetylation. *Journal of Cell Biology*, **2012**, 198, 155-64	7.3	168
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163	Complexity of the TOR signaling network. *Trends in Cell Biology*, **2006**, 16, 206-12	18.3	163
162	Regulation of G6PD acetylation by SIRT2 and KAT9 modulates NADPH homeostasis and cell survival during oxidative stress. *EMBO Journal*, **2014**, 33, 1304-20	13	161
161	Disease implications of the Hippo/YAP pathway. *Trends in Molecular Medicine*, **2015**, 21, 212-22	11.5	157
160	RAP2 mediates mechanoresponses of the Hippo pathway. *Nature*, **2018**, 560, 655-660	50.4	157
159	Both TEAD-binding and WW domains are required for the growth stimulation and oncogenic transformation activity of yes-associated protein. *Cancer Research*, **2009**, 69, 1089-98	10.1	155
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152	Characterization of Hippo Pathway Components by Gene Inactivation. *Molecular Cell*, **2016**, 64, 993-1008	17.6	142
151	Constitutive mTOR activation in TSC mutants sensitizes cells to energy starvation and genomic damage via p53. *EMBO Journal*, **2007**, 26, 4812-23	13	141
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139	Atg5-independent autophagy regulates mitochondrial clearance and is essential for iPSC reprogramming. *Nature Cell Biology*, **2015**, 17, 1379-87	23.4	118
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136	The Hippo pathway in organ development, homeostasis, and regeneration. *Current Opinion in Cell Biology*, **2017**, 49, 99-107	9	115
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126	Inactivation of Rheb by PRAK-mediated phosphorylation is essential for energy-depletion-induced suppression of mTORC1. *Nature Cell Biology*, **2011**, 13, 263-72	23.4	102
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108	Glut3 Addiction Is a Druggable Vulnerability for a Molecularly Defined Subpopulation of Glioblastoma. *Cancer Cell*, **2017**, 32, 856-868.e5	24.3	78
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94	YAP-IL-6ST autoregulatory loop activated on APC loss controls colonic tumorigenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1643-1648	11.5	61
93	The tuberous sclerosis complex-mammalian target of rapamycin pathway maintains the quiescence and survival of naive T cells. *Journal of Immunology*, **2011**, 187, 1106-12	5.3	61
92	OTUB2 Promotes Cancer Metastasis via Hippo-Independent Activation of YAP and TAZ. *Molecular Cell*, **2019**, 73, 7-21.e7	17.6	58
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86	Endothelin Promotes Colorectal Tumorigenesis by Activating YAP/TAZ. *Cancer Research*, **2017**, 77, 2413-2423	12.1	49
85	MTORC1-mediated NRBF2 phosphorylation functions as a switch for the class III PtdIns3K and autophagy. *Autophagy*, **2017**, 13, 592-607	10.2	48
84	Insulin and mTOR Pathway Regulate HDAC3-Mediated Deacetylation and Activation of PGK1. *PLoS Biology*, **2015**, 13, e1002243	9.7	48
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