

Ken Inoki

List of Publications by Year in descending order

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52
papers

18,994
citations

101384

36
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205818

48
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54
all docs

54
docs citations

54
times ranked

26092
citing authors

#	ARTICLE	IF	CITATIONS
1	TSC2 Mediates Cellular Energy Response to Control Cell Growth and Survival. <i>Cell</i> , 2003, 115, 577-590.	13.5	3,362
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	TSC2 is phosphorylated and inhibited by Akt and suppresses mTOR signalling. <i>Nature Cell Biology</i> , 2002, 4, 648-657.	4.6	2,667
4	Rheb GTPase is a direct target of TSC2 GAP activity and regulates mTOR signaling. <i>Genes and Development</i> , 2003, 17, 1829-1834.	2.7	1,566
5	TSC2 Integrates Wnt and Energy Signals via a Coordinated Phosphorylation by AMPK and GSK3 to Regulate Cell Growth. <i>Cell</i> , 2006, 126, 955-968.	13.5	1,183
6	Dysregulation of the TSC-mTOR pathway in human disease. <i>Nature Genetics</i> , 2005, 37, 19-24.	9.4	911
7	AMPK and mTOR in Cellular Energy Homeostasis and Drug Targets. <i>Annual Review of Pharmacology and Toxicology</i> , 2012, 52, 381-400.	4.2	650
8	Essential function of TORC2 in PKC and Akt turn motif phosphorylation, maturation and signalling. <i>EMBO Journal</i> , 2008, 27, 1919-1931.	3.5	567
9	Spatial Coupling of mTOR and Autophagy Augments Secretory Phenotypes. <i>Science</i> , 2011, 332, 966-970.	6.0	469
10	Role of mTOR in podocyte function and diabetic nephropathy in humans and mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2197-2209.	3.9	467
11	mTORC1 activation in podocytes is a critical step in the development of diabetic nephropathy in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2181-2196.	3.9	462
12	Identification of Sin1 as an essential TORC2 component required for complex formation and kinase activity. <i>Genes and Development</i> , 2006, 20, 2820-2832.	2.7	434
13	Signaling by Target of Rapamycin Proteins in Cell Growth Control. <i>Microbiology and Molecular Biology Reviews</i> , 2005, 69, 79-100.	2.9	296
14	Emerging role of autophagy in kidney function, diseases and aging. <i>Autophagy</i> , 2012, 8, 1009-1031.	4.3	228
15	Inhibition of AMPK Catabolic Action by GSK3. <i>Molecular Cell</i> , 2013, 50, 407-419.	4.5	191
16	Complexity of the TOR signaling network. <i>Trends in Cell Biology</i> , 2006, 16, 206-212.	3.6	176
17	Critical Role for Hypothalamic mTOR Activity in Energy Balance. <i>Cell Metabolism</i> , 2009, 9, 362-374.	7.2	164
18	AMPK directly activates mTORC2 to promote cell survival during acute energetic stress. <i>Science Signaling</i> , 2019, 12, .	1.6	153

#	ARTICLE	IF	CITATIONS
19	The mTOR pathway is highly activated in diabetic nephropathy and rapamycin has a strong therapeutic potential. <i>Biochemical and Biophysical Research Communications</i> , 2009, 384, 471-475.	1.0	150
20	Growth-Dependent Podocyte Failure Causes Glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2012, 23, 1351-1363.	3.0	150
21	LARP1 functions as a molecular switch for mTORC1-mediated translation of an essential class of mRNAs. <i>ELife</i> , 2017, 6, .	2.8	147
22	Glycolytic Enzymes Coalesce in G Bodies under Hypoxic Stress. <i>Cell Reports</i> , 2017, 20, 895-908.	2.9	139
23	Redox Regulates Mammalian Target of Rapamycin Complex 1 (mTORC1) Activity by Modulating the TSC1/TSC2-Rheb GTPase Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 32651-32660.	1.6	123
24	Regulation of mTORC1 by the Rab and Arf GTPases. <i>Journal of Biological Chemistry</i> , 2010, 285, 19705-19709.	1.6	120
25	Phosphatidylinositol 3,5-bisphosphate plays a role in the activation and subcellular localization of mechanistic target of rapamycin 1. <i>Molecular Biology of the Cell</i> , 2012, 23, 2955-2962.	0.9	117
26	mTORC1 Promotes Denervation-Induced Muscle Atrophy Through a Mechanism Involving the Activation of FoxO and E3 Ubiquitin Ligases. <i>Science Signaling</i> , 2014, 7, ra18.	1.6	98
27	Liver Clock Protein BMAL1 Promotes de Novo Lipogenesis through Insulin-mTORC2-AKT Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 25925-25935.	1.6	94
28	Tuberous sclerosis complex, implication from a rare genetic disease to common cancer treatment. <i>Human Molecular Genetics</i> , 2009, 18, R94-R100.	1.4	89
29	Rheb controls misfolded protein metabolism by inhibiting aggresome formation and autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8923-8928.	3.3	88
30	Growth factor signaling to mTORC1 by amino acid ⁺ laden macropinosomes. <i>Journal of Cell Biology</i> , 2015, 211, 159-172.	2.3	84
31	Macropinocytosis, mTORC1 and cellular growth control. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 1227-1239.	2.4	83
32	Rapamycin directly activates lysosomal mucolipin TRP channels independent of mTOR. <i>PLoS Biology</i> , 2019, 17, e3000252.	2.6	70
33	GSK3 ⁺ -dependent inhibition of AMPK potentiates activation of neutrophils and macrophages and enhances severity of acute lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L735-L745.	1.3	67
34	mTOR Signaling in Autophagy Regulation in the Kidney. <i>Seminars in Nephrology</i> , 2014, 34, 2-8.	0.6	59
35	Role of TSC ⁺ mTOR pathway in diabetic nephropathy. <i>Diabetes Research and Clinical Practice</i> , 2008, 82, S59-S62.	1.1	57
36	Lysosomal Regulation of mTORC1 by Amino Acids in Mammalian Cells. <i>Biomolecules</i> , 2017, 7, 51.	1.8	47

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37	Mammalian target of rapamycin signaling in the podocyte. <i>Current Opinion in Nephrology and Hypertension</i> , 2012, 21, 251-257.	1.0	34
38	Spatial regulation of the mTORC1 system in amino acids sensing pathway. <i>Acta Biochimica Et Biophysica Sinica</i> , 2011, 43, 671-679.	0.9	25
39	Amino Acids Enhance Polyubiquitination of Rheb and Its Binding to mTORC1 by Blocking Lysosomal ATXN3 Deubiquitinase Activity. <i>Molecular Cell</i> , 2020, 80, 437-451.e6.	4.5	17
40	Role of Ragulator in the Regulation of Mechanistic Target of Rapamycin Signaling in Podocytes and Glomerular Function. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 3653-3665.	3.0	13
41	The molecular and metabolic program by which white adipocytes adapt to cool physiologic temperatures. <i>PLoS Biology</i> , 2021, 19, e3000988.	2.6	11
42	PP2A-dependent TFEB activation is blocked by PIKfyve-induced mTORC1 activity. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21060309.	0.9	11
43	The role of mechanistic target of rapamycin in maintenance of glomerular epithelial cells. <i>Current Opinion in Nephrology and Hypertension</i> , 2016, 25, 28-34.	1.0	10
44	Loss of AMPK \pm 2 Impairs Hedgehog-Driven Medulloblastoma Tumorigenesis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3287.	1.8	5
45	Evaluating the mTOR Pathway in Physiological and Pharmacological Settings. <i>Methods in Enzymology</i> , 2017, 587, 405-428.	0.4	4
46	Microphthalmia-associated transcription factors activate mTORC1 through RagD GTPase gene expression. <i>Translational Cancer Research</i> , 2017, 6, S1234-S1238.	0.4	4
47	Rag GTPases regulate cellular amino acid homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	4
48	LST8 level controls basal p70 S6 kinase and Akt phosphorylations, and mTORC1 and mTORC2 negatively regulate each other by competing for association with LST8. <i>Obesity Research and Clinical Practice</i> , 2012, 6, e215-e224.	0.8	2
49	Proximal Tubules Forget "Self-Eating" When They Meet Western Meals. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1711-1713.	3.0	0
50	Aberrant mTORC1 activation kills tubular cells by inactivating miR148b-3p. <i>Kidney International</i> , 2016, 90, 1146-1148.	2.6	0
51	mTOR: Pumping Nutrients into Tubules. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 3-5.	3.0	0
52	PIKFYVE-dependent regulation of MTORC1 and TFEB. , 2022, 1, 247-251.		0