

Reuben J Shaw

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

39,248
citations

28190

55
h-index

45213

90
g-index

105
all docs

105
docs citations

105
times ranked

50236
citing authors

#	ARTICLE	IF	CITATIONS
1	Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006, 444, 337-342.	13.7	3,882
2	AMPK Phosphorylation of Raptor Mediates a Metabolic Checkpoint. <i>Molecular Cell</i> , 2008, 30, 214-226.	4.5	3,147
3	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
4	The AMPK signalling pathway coordinates cell growth, autophagy and metabolism. <i>Nature Cell Biology</i> , 2011, 13, 1016-1023.	4.6	2,345
5	AMPK: guardian of metabolism and mitochondrial homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 121-135.	16.1	2,247
6	Phosphorylation of ULK1 (hATG1) by AMP-Activated Protein Kinase Connects Energy Sensing to Mitophagy. <i>Science</i> , 2011, 331, 456-461.	6.0	2,107
7	Ras, PI(3)K and mTOR signalling controls tumour cell growth. <i>Nature</i> , 2006, 441, 424-430.	13.7	1,839
8	The Kinase LKB1 Mediates Glucose Homeostasis in Liver and Therapeutic Effects of Metformin. <i>Science</i> , 2005, 310, 1642-1646.	6.0	1,704
9	The LKB1-AMPK pathway: metabolism and growth control in tumour suppression. <i>Nature Reviews Cancer</i> , 2009, 9, 563-575.	12.8	1,563
10	The tumor suppressor LKB1 kinase directly activates AMP-activated kinase and regulates apoptosis in response to energy stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3329-3335.	3.3	1,561
11	AMPK Phosphorylates and Inhibits SREBP Activity to Attenuate Hepatic Steatosis and Atherosclerosis in Diet-Induced Insulin-Resistant Mice. <i>Cell Metabolism</i> , 2011, 13, 376-388.	7.2	1,356
12	AMPK: Mechanisms of Cellular Energy Sensing and Restoration of Metabolic Balance. <i>Molecular Cell</i> , 2017, 66, 789-800.	4.5	1,206
13	AMPK and PPAR γ Agonists Are Exercise Mimetics. <i>Cell</i> , 2008, 134, 405-415.	13.5	1,086
14	The LKB1 tumor suppressor negatively regulates mTOR signaling. <i>Cancer Cell</i> , 2004, 6, 91-99.	7.7	956
15	AMP-activated protein kinase mediates mitochondrial fission in response to energy stress. <i>Science</i> , 2016, 351, 275-281.	6.0	816
16	AMPK Regulates the Circadian Clock by Cryptochrome Phosphorylation and Degradation. <i>Science</i> , 2009, 326, 437-440.	6.0	794
17	Small Molecule Inhibition of the Autophagy Kinase ULK1 and Identification of ULK1 Substrates. <i>Molecular Cell</i> , 2015, 59, 285-297.	4.5	561
18	LKB1 and AMP-activated protein kinase control of mTOR signalling and growth. <i>Acta Physiologica</i> , 2009, 196, 65-80.	1.8	532

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19	The autophagy initiating kinase ULK1 is regulated via opposing phosphorylation by AMPK and mTOR. <i>Autophagy</i> , 2011, 7, 643-644.	4.3	508
20	Glucose metabolism and cancer. <i>Current Opinion in Cell Biology</i> , 2006, 18, 598-608.	2.6	495
21	LKB1 Inactivation Dictates Therapeutic Response of Non-Small Cell Lung Cancer to the Metabolism Drug Phenformin. <i>Cancer Cell</i> , 2013, 23, 143-158.	7.7	489
22	Class IIa Histone Deacetylases Are Hormone-Activated Regulators of FOXO and Mammalian Glucose Homeostasis. <i>Cell</i> , 2011, 145, 607-621.	13.5	486
23	Inhibition of acetyl-CoA carboxylase suppresses fatty acid synthesis and tumor growth of non-small-cell lung cancer in preclinical models. <i>Nature Medicine</i> , 2016, 22, 1108-1119.	15.2	357
24	mTOR Complex 2 Controls Glycolytic Metabolism in Glioblastoma through FoxO Acetylation and Upregulation of c-Myc. <i>Cell Metabolism</i> , 2013, 18, 726-739.	7.2	351
25	Lifespan extension induced by AMPK and calcineurin is mediated by CRTC-1 and CREB. <i>Nature</i> , 2011, 470, 404-408.	13.7	339
26	The Nf2 Tumor Suppressor, Merlin, Functions in Rac-Dependent Signaling. <i>Developmental Cell</i> , 2001, 1, 63-72.	3.1	311
27	Autophagic cell death restricts chromosomal instability during replicative crisis. <i>Nature</i> , 2019, 565, 659-663.	13.7	297
28	The Peutz-Jegher Gene Product LKB1 Is a Mediator of p53-Dependent Cell Death. <i>Molecular Cell</i> , 2001, 7, 1307-1319.	4.5	293
29	Metformin Inhibits Hepatic mTORC1 Signaling via Dose-Dependent Mechanisms Involving AMPK and the TSC Complex. <i>Cell Metabolism</i> , 2017, 25, 463-471.	7.2	281
30	Two Conserved Histone Demethylases Regulate Mitochondrial Stress-Induced Longevity. <i>Cell</i> , 2016, 165, 1209-1223.	13.5	279
31	A Hormone-Dependent Module Regulating Energy Balance. <i>Cell</i> , 2011, 145, 596-606.	13.5	219
32	Loss of the tumor suppressor LKB1 promotes metabolic reprogramming of cancer cells via HIF-1 α . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2554-2559.	3.3	212
33	Chemical Proteomics Identifies Druggable Vulnerabilities in a Genetically Defined Cancer. <i>Cell</i> , 2017, 171, 696-709.e23.	13.5	204
34	Genetic Liver-Specific AMPK Activation Protects against Diet-Induced Obesity and NAFLD. <i>Cell Reports</i> , 2019, 26, 192-208.e6.	2.9	202
35	mTOR and HIF-1 α -mediated tumor metabolism in an LKB1 mouse model of Peutz-Jeghers syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11137-11142.	3.3	196
36	MFF-dependent mitochondrial fission regulates presynaptic release and axon branching by limiting axonal mitochondria size. <i>Nature Communications</i> , 2018, 9, 5008.	5.8	179

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37	Cardiac-specific Deletion of LKB1 Leads to Hypertrophy and Dysfunction. <i>Journal of Biological Chemistry</i> , 2009, 284, 35839-35849.	1.6	151
38	AMPK: restoring metabolic homeostasis over space and time. <i>Molecular Cell</i> , 2021, 81, 3677-3690.	4.5	151
39	Identification of AMPK Phosphorylation Sites Reveals a Network of Proteins Involved in Cell Invasion and Facilitates Large-Scale Substrate Prediction. <i>Cell Metabolism</i> , 2015, 22, 907-921.	7.2	149
40	Genetic Analysis Reveals AMPK Is Required to Support Tumor Growth in Murine Kras-Dependent Lung Cancer Models. <i>Cell Metabolism</i> , 2019, 29, 285-302.e7.	7.2	145
41	AMPK governs lineage specification through Tfeb-dependent regulation of lysosomes. <i>Genes and Development</i> , 2016, 30, 535-552.	2.7	143
42	Reduced cell proliferation by IKK2 depletion in a mouse lung-cancer model. <i>Nature Cell Biology</i> , 2012, 14, 257-265.	4.6	127
43	Metabolic and Functional Genomic Studies Identify Deoxythymidylate Kinase as a Target in <i>LKB1</i> -Mutant Lung Cancer. <i>Cancer Discovery</i> , 2013, 3, 870-879.	7.7	127
44	Regulation of the Neurofibromatosis Type 2 Tumor Suppressor Protein, Merlin, by Adhesion and Growth Arrest Stimuli. <i>Journal of Biological Chemistry</i> , 1998, 273, 7757-7764.	1.6	113
45	An AMPK-Independent Signaling Pathway Downstream of the LKB1 Tumor Suppressor Controls Snail1 and Metastatic Potential. <i>Molecular Cell</i> , 2014, 55, 436-450.	4.5	105
46	Leptin-Mediated Increases in Catecholamine Signaling Reduce Adipose Tissue Inflammation via Activation of Macrophage HDAC4. <i>Cell Metabolism</i> , 2014, 19, 1058-1065.	7.2	98
47	The AMPK-Related Kinases SIK1 and SIK3 Mediate Key Tumor-Suppressive Effects of LKB1 in NSCLC. <i>Cancer Discovery</i> , 2019, 9, 1606-1627.	7.7	92
48	Transcriptional Coregulators: Fine-Tuning Metabolism. <i>Cell Metabolism</i> , 2014, 20, 26-40.	7.2	89
49	Metabolic reprogramming by class I and II histone deacetylases. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 48-57.	3.1	81
50	Autophagy in Cancer: Regulation by Small Molecules. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 1021-1032.	4.0	80
51	Optimizing Dietary Restriction for Genetic Epistasis Analysis and Gene Discovery in <i>C. elegans</i> . <i>PLoS ONE</i> , 2009, 4, e4535.	1.1	74
52	AMPK/ULK1-mediated phosphorylation of Parkin ACT domain mediates an early step in mitophagy. <i>Science Advances</i> , 2021, 7, .	4.7	74
53	Pulsed Azidohomoalanine Labeling in Mammals (PALM) Detects Changes in Liver-Specific LKB1 Knockout Mice. <i>Journal of Proteome Research</i> , 2015, 14, 4815-4822.	1.8	69
54	Raptor is Phosphorylated by cdc2 during Mitosis. <i>PLoS ONE</i> , 2010, 5, e9197.	1.1	60

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55	DNA Damage-induced Association of ATM with Its Target Proteins Requires a Protein Interaction Domain in the N Terminus of ATM. <i>Journal of Biological Chemistry</i> , 2005, 280, 15158-15164.	1.6	59
56	mTOR signaling: RAG GTPases transmit the amino acid signal. <i>Trends in Biochemical Sciences</i> , 2008, 33, 565-568.	3.7	56
57	AMPK regulation of Raptor and TSC2 mediate metformin effects on transcriptional control of anabolism and inflammation. <i>Genes and Development</i> , 2020, 34, 1330-1344.	2.7	45
58	Advances and Future Directions for Tuberous Sclerosis Complex Research: Recommendations From the 2015 Strategic Planning Conference. <i>Pediatric Neurology</i> , 2016, 60, 1-12.	1.0	43
59	LKB1 promotes metabolic flexibility in response to energy stress. <i>Metabolic Engineering</i> , 2017, 43, 208-217.	3.6	42
60	LKB1 Deficiency in Tie2-Cre-expressing Cells Impairs Ischemia-induced Angiogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 22291-22298.	1.6	38
61	Inhibition of CAMKK2 impairs autophagy and castration-resistant prostate cancer via suppression of AMPK-ULK1 signaling. <i>Oncogene</i> , 2021, 40, 1690-1705.	2.6	38
62	Tumor Suppression by LKB1: SIK-ness Prevents Metastasis. <i>Science Signaling</i> , 2009, 2, pe55.	1.6	36
63	Tumour friend or foe. <i>Nature</i> , 2012, 485, 590-591.	13.7	36
64	Drugs, diabetes and cancer. <i>Nature</i> , 2011, 470, 338-339.	13.7	30
65	Lipid Synthesis Is a Metabolic Liability of Non-small Cell Lung Cancer. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016, 81, 93-103.	2.0	30
66	The CREB coactivator CRTC2 promotes oncogenesis in LKB1-mutant non-small cell lung cancer. <i>Science Advances</i> , 2019, 5, eaaw6455.	4.7	30
67	Quantitative In Vivo Proteomics of Metformin Response in Liver Reveals AMPK-Dependent and -Independent Signaling Networks. <i>Cell Reports</i> , 2019, 29, 3331-3348.e7.	2.9	30
68	Design, Synthesis, and Characterization of an Orally Active Dual-Specific ULK1/2 Autophagy Inhibitor that Synergizes with the PARP Inhibitor Olaparib for the Treatment of Triple-Negative Breast Cancer. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 14609-14625.	2.9	30
69	Metformin trims fats to restore insulin sensitivity. <i>Nature Medicine</i> , 2013, 19, 1570-1572.	15.2	27
70	Therapeutic Trial of Metformin and Bortezomib in a Mouse Model of Tuberous Sclerosis Complex (TSC). <i>PLoS ONE</i> , 2012, 7, e31900.	1.1	24
71	Spatial regulation of AMPK signaling revealed by a sensitive kinase activity reporter. <i>Nature Communications</i> , 2022, 13, .	5.8	23
72	LKB1: cancer, polarity, metabolism, and now fertility. <i>Biochemical Journal</i> , 2008, 416, e1-e3.	1.7	21

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73	A decade of molecular cell biology: achievements and challenges. Nature Reviews Molecular Cell Biology, 2011, 12, 669-674.	16.1	20
74	Ancient Sensor for Ancient Drug. Science, 2012, 336, 813-814.	6.0	15
75	GNAS shifts metabolism in pancreatic cancer. Nature Cell Biology, 2018, 20, 740-741.	4.6	11
76	GATORS Take a Bite Out of mTOR. Science, 2013, 340, 1056-1057.	6.0	10
77	AMPK Regulates the Epigenome through Phosphorylation of TET2. Cell Metabolism, 2018, 28, 534-536.	7.2	10
78	AMPK Keeps Tumor Cells from Starving to Death. Cell Stem Cell, 2015, 17, 503-504.	5.2	9
79	Inflamed T cells and stroma drive gut tumors. Science, 2018, 361, 332-333.	6.0	9
80	Tumor Metabolism: MAGE-A Proteins Help TRIM Turn Over AMPK. Current Biology, 2015, 25, R418-R420.	1.8	8
81	Progressive alterations in amino acid and lipid metabolism correlate with peripheral neuropathy in <i>Polg^{D257A}</i> mice. Science Advances, 2021, 7, eabj4077.	4.7	8
82	AMPK Control of mTOR Signaling and Growth. The Enzymes, 2010, , 49-75.	0.7	6
83	Comparison of CRISPR Genomic Tagging for Affinity Purification and Endogenous Immunoprecipitation Coupled with Quantitative Mass Spectrometry To Identify the Dynamic AMPK ^{±2} Interactome. Journal of Proteome Research, 2019, 18, 3703-3714.	1.8	6
84	PPTR-1 Counteracts Insulin Signaling. Cell, 2009, 136, 816-818.	13.5	5
85	Raptor Swoops in on Metabolism. Cell Metabolism, 2008, 8, 343-344.	7.2	4
86	Cancer metabolism in breadth and depth. Nature Biotechnology, 2013, 31, 505-507.	9.4	4
87	Mutations in foregut SOX2+ cells induce efficient proliferation via CXCR2 pathway. Protein and Cell, 2019, 10, 485-495.	4.8	4
88	AMPK: guardian of metabolism and mitochondrial homeostasis. FASEB Journal, 2018, 32, 379.3.	0.2	4
89	AMPK: Central Regulator of Glucose and Lipid Metabolism. , 0, , 535-548.		1
90	Metabolism and cancer mix in Madrid. EMBO Reports, 2010, 11, 249-251.	2.0	0

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91	Editorial overview: Cell regulation: 1000 Flavors including chocolate and chili peppers. Current Opinion in Cell Biology, 2017, 45, iv-vi.	2.6	0
92	Spatiotemporal Regulation of AMPK Revealed by a Sensitive Kinase Activity Reporter. FASEB Journal, 2021, 35, .	0.2	0
93	AMPK Control of Metabolic Signaling. FASEB Journal, 2012, 26, 231.3.	0.2	0