Lewis C Cantley

List of Publications by Year
in descending order

578 papers	167,273 citations	184 h-index [49]	396 g-index [49]
622 all docs	622 docs citations	622 times ranked	128601 citing authors

#	Article	IF	Citations
1	Understanding the Warburg Effect: The Metabolic Requirements of Cell Proliferation. Science, 2009, 324, 1029-1033.	6.0	12,186
2	AKT/PKB Signaling: Navigating Downstream. Cell, 2007, 129, 1261-1274.	13.5	5,261
3	The Phosphoinositide 3-Kinase Pathway. Science, 2002, 296, 1655-1657.	6.0	5,004
4	MET Amplification Leads to Gefitinib Resistance in Lung Cancer by Activating ERBB3 Signaling. Science, 2007, 316, 1039-1043.	6.0	4,187
5	Cancer-associated IDH1 mutations produce 2-hydroxyglutarate. Nature, 2009, 462, 739-744.	13.7	3,315
6	Oncogenes and signal transduction. Cell, 1991, 64, 281-302.	13.5	2,874
7	The evolution of phosphatidylinositol 3-kinases as regulators of growth and metabolism. Nature Reviews Genetics, 2006, 7, 606-619.	7.7	2,833
8	SH2 domains recognize specific phosphopeptide sequences. Cell, 1993, 72, 767-778.	13.5	2,735
9	The M2 splice isoform of pyruvate kinase is important for cancer metabolism and tumour growth. Nature, 2008, 452, 230-233.	13.7	2,423
10	New insights into tumor suppression: PTEN suppresses tumor formation by restraining the phosphoinositide 3-kinase/AKT pathway. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4240-4245.	3.3	1,843
11	Ras, PI(3)K and mTOR signalling controls tumour cell growth. Nature, 2006, 441, 424-430.	13.7	1,839
12	The Kinase LKB1 Mediates Glucose Homeostasis in Liver and Therapeutic Effects of Metformin. Science, 2005, 310, 1642-1646.	6.0	1,704
13	The PI3K Pathway in Human Disease. Cell, 2017, 170, 605-635.	13.5	1,702
14	PI3K pathway alterations in cancer: variations on a theme. Oncogene, 2008, 27, 5497-5510.	2.6	1,621
15	Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. Cell, 2012, 149, 656-670.	13.5	1,587
16	PI3K: Downstream AKTion Blocks Apoptosis. Cell, 1997, 88, 435-437.	13.5	1,580
17	Glutamine supports pancreatic cancer growth through a KRAS-regulated metabolic pathway. Nature, 2013, 496, 101-105.	13.7	1,562
18	The tumor suppressor LKB1 kinase directly activates AMP-activated kinase and regulates apoptosis in response to energy stress. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3329-3335.	3.3	1,561

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19	The Structural Basis for 14-3-3:Phosphopeptide Binding Specificity. Cell, 1997, 91, 961-971.	13.5	1,509
20	Bidirectional Transport of Amino Acids Regulates mTOR and Autophagy. Cell, 2009, 136, 521-534.	13.5	1,478
21	Scansite 2.0: proteome-wide prediction of cell signaling interactions using short sequence motifs. Nucleic Acids Research, 2003, 31, 3635-3641.	6.5	1,455
22	Direct Regulation of the Akt Proto-Oncogene Product by Phosphatidylinositol-3,4-bisphosphate. Science, 1997, 275, 665-668.	6.0	1,437
23	Large-scale characterization of HeLa cell nuclear phosphoproteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12130-12135.	3.3	1,434
24	Identification of the Tuberous Sclerosis Complex-2 Tumor Suppressor Gene Product Tuberin as a Target of the Phosphoinositide 3-Kinase/Akt Pathway. Molecular Cell, 2002, 10, 151-162.	4.5	1,376
25	PHOSPHOINOSITIDE KINASES. Annual Review of Biochemistry, 1998, 67, 481-507.	5.0	1,366
26	Recognition of Unique Carboxyl-Terminal Motifs by Distinct PDZ Domains. Science, 1997, 275, 73-77.	6.0	1,329
27	Signalling through the lipid products of phosphoinositide-3-OH kinase. Nature, 1997, 387, 673-676.	13.7	1,290
28	Effective use of PI3K and MEK inhibitors to treat mutant Kras G12D and PIK3CA H1047R murine lung cancers. Nature Medicine, 2008, 14, 1351-1356.	15.2	1,238
29	Targeting the PI3K-Akt pathway in human cancer. Cancer Cell, 2003, 4, 257-262.	7.7	1,230
30	Inhibition of mTORC1 leads to MAPK pathway activation through a PI3K-dependent feedback loop in human cancer. Journal of Clinical Investigation, 2008, 118, 3065-74.	3.9	1,132
31	Tuberous Sclerosis Complex Gene Products, Tuberin and Hamartin, Control mTOR Signaling by Acting as a GTPase-Activating Protein Complex toward Rheb. Current Biology, 2003, 13, 1259-1268.	1.8	1,047
32	Type I phosphatidylinositol kinase makes a novel inositol phospholipid, phosphatidylinositol-3-phosphate. Nature, 1988, 332, 644-646.	13.7	1,015
33	Chromosomal instability drives metastasis through a cytosolic DNA response. Nature, 2018, 553, 467-472.	13.7	1,002
34	Oncogene ablation-resistant pancreatic cancer cells depend on mitochondrial function. Nature, 2014, 514, 628-632.	13.7	998
35	Inhibition of Pyruvate Kinase M2 by Reactive Oxygen Species Contributes to Cellular Antioxidant Responses. Science, 2011, 334, 1278-1283.	6.0	984
36	Cancer metabolism: fatty acid oxidation in the limelight. Nature Reviews Cancer, 2013, 13, 227-232.	12.8	969

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37	The LKB1 tumor suppressor negatively regulates mTOR signaling. Cancer Cell, 2004, 6, 91-99.	7.7	956
38	Specific recruitment of SH-PTP1 to the erythropoietin receptor causes inactivation of JAK2 and termination of proliferative signals. Cell, 1995, 80, 729-738.	13.5	952
39	Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. Nature Genetics, 2011, 43, 869-874.	9.4	945
40	PDGF-dependent tyrosine phosphorylation stimulates production of novel polyphosphoinositides in intact cells. Cell, 1989, 57, 167-175.	13.5	943
41	Catalytic specificity of protein-tyrosine kinases is critical for selective signalling. Nature, 1995, 373, 536-539.	13.7	932
42	The Role of Phosphoinositide 3-Kinase Lipid Products in Cell Function. Journal of Biological Chemistry, 1999, 274, 8347-8350.	1.6	897
43	Pyruvate kinase M2 is a phosphotyrosine-binding protein. Nature, 2008, 452, 181-186.	13.7	881
44	Association of phosphatidylinositol kinase activity with polyoma middle-T competent for transformation. Nature, 1985, 315, 239-242.	13.7	845
45	Pancreatic stellate cells support tumour metabolism through autophagic alanine secretion. Nature, 2016, 536, 479-483.	13.7	843
46	A colorectal cancer classification system that associates cellular phenotype and responses to therapy. Nature Medicine, 2013, 19, 619-625.	15.2	831
47	Phosphoproteomic Analysis Identifies Grb10 as an mTORC1 Substrate That Negatively Regulates Insulin Signaling. Science, 2011, 332, 1322-1326.	6.0	772
48	Sequence-Specific and Phosphorylation-Dependent Proline Isomerization: A Potential Mitotic Regulatory Mechanism. Science, 1997, 278, 1957-1960.	6.0	760
49	Tuberous sclerosis complex-1 and -2 gene products function together to inhibit mammalian target of rapamycin (mTOR)-mediated downstream signaling. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13571-13576.	3.3	744
50	Personalized In Vitro and In Vivo Cancer Models to Guide Precision Medicine. Cancer Discovery, 2017, 7, 462-477.	7.7	735
51	Vascular Dysmorphogenesis Caused by an Activating Mutation in the Receptor Tyrosine Kinase TIE2. Cell, 1996, 87, 1181-1190.	13.5	734
52	Vitamin C selectively kills KRAS and BRAF mutant colorectal cancer cells by targeting GAPDH. Science, 2015, 350, 1391-1396.	6.0	722
53	Common elements in growth factor stimulation and oncogenic transformation: 85 kd phosphoprotein and phosphatidylinositol kinase activity. Cell, 1987, 50, 1021-1029.	13.5	708
54	ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. Nature Cell Biology, 2012, 14, 1295-1304.	4.6	693

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55	The Molecular Basis for Phosphodependent Substrate Targeting and Regulation of Plks by the Polo-Box Domain. Cell, 2003, 115, 83-95.	13.5	687
56	Regulation of mTORC1 by PI3K signaling. Trends in Cell Biology, 2015, 25, 545-555.	3.6	636
57	Proteomic Screen Finds pSer/pThr-Binding Domain Localizing Plk1 to Mitotic Substrates. Science, 2003, 299, 1228-1231.	6.0	634
58	Tyrosine Phosphorylation Inhibits PKM2 to Promote the Warburg Effect and Tumor Growth. Science Signaling, 2009, 2, ra73.	1.6	632
59	Insect cell-expressed p180erbB3 possesses an impaired tyrosine kinase activity.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8132-8136.	3.3	625
60	Spatial Control of the TSC Complex Integrates Insulin and Nutrient Regulation of mTORC1 at the Lysosome. Cell, 2014, 156, 771-785.	13.5	625
61	TAZ: a novel transcriptional co-activator regulated by interactions with 14-3-3 and PDZ domain proteins. EMBO Journal, 2000, 19, 6778-6791.	3.5	623
62	Use of an oriented peptide library to determine the optimal substrates of protein kinases. Current Biology, 1994, 4, 973-982.	1.8	616
63	Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. Nature Chemical Biology, 2012, 8, 839-847.	3.9	614
64	A neu acquaintance for ErbB3 and ErbB4: A role for receptor heterodimerization in growth signaling. Cell, 1994, 78, 5-8.	13.5	603
65	Impaired B Cell Development and Proliferation in Absence of Phosphoinositide 3-Kinase p85. Science, 1999, 283, 393-397.	6.0	603
66	Phosphatidylinositol 3-kinase. BioEssays, 1994, 16, 565-576.	1.2	601
67	Evidence for an Alternative Glycolytic Pathway in Rapidly Proliferating Cells. Science, 2010, 329, 1492-1499.	6.0	586
68	NRF2 regulates serine biosynthesis in nonâ€“small cell lung cancer. Nature Genetics, 2015, 47, 1475-1481.	9.4	579
69	Phosphoinositide kinases. Current Opinion in Cell Biology, 1996, 8, 153-158.	2.6	577
70	The PX domains of p47phox and p40phox bind to lipid products of PI(3)K. Nature Cell Biology, 2001, 3, 675-678.	4.6	567
71	Affinity-Driven Peptide Selection of an NFAT Inhibitor More Selective Than Cyclosporin A. Science, 1999, 285, 2129-2133.	6.0	562
72	Influence of Threonine Metabolism on S -Adenosylmethionine and Histone Methylation. Science, 2013, 339, 222-226.	6.0	555

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73	Activation of phosphatidylinositol 3-kinase by insulin.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1411-1415.	3.3	544
74	The conserved phosphoinositide 3-kinase pathway determines heart size in mice. EMBO Journal, 2000, 19, 2537-2548.	3.5	533
75	Determination of protease cleavage site motifs using mixture-based oriented peptide libraries. Nature Biotechnology, 2001, 19, 661-667.	9.4	524
76	Determination of the Specific Substrate Sequence Motifs of Protein Kinase C Isozymes. Journal of Biological Chemistry, 1997, 272, 952-960.	1.6	516
77	A motif-based profile scanning approach for genome-wide prediction of signaling pathways. Nature Biotechnology, 2001, 19, 348-353.	9.4	509
78	AMPK-Dependent Degradation of TXNIP upon Energy Stress Leads to Enhanced Glucose Uptake via GLUT1. Molecular Cell, 2013, 49, 1167-1175.	4.5	508
79	The mTORC1 Pathway Stimulates Glutamine Metabolism and Cell Proliferation by Repressing SIRT4. Cell, 2013, 153, 840-854.	13.5	505
80	Targeting the PI3K signaling pathway in cancer. Current Opinion in Genetics and Development, 2010, 20, 87-90.	1.5	494
81	Akt/Protein Kinase B Promotes Organ Growth in Transgenic Mice. Molecular and Cellular Biology, 2002, 22, 2799-2809.	1.1	481
82	A PtdInsP3- and Rho GTPase-mediated positive feedback loop regulates neutrophil polarity. Nature Cell Biology, 2002, 4, 509-513.	4.6	480
83	Stem cell metabolism in tissue development and aging. Development (Cambridge), 2013, 140, 2535-2547.	1.2	477
84	Suppression of insulin feedback enhances the efficacy of PI3K inhibitors. Nature, 2018, 560, 499-503.	13.7	477
85	Evidence that the Rous sarcoma virus transforming gene product phosphorylates phosphatidylinositol and diacylglycerol.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 2117-2121.	3.3	474
86	Distinct roles of class I and class III phosphatidylinositol 3-kinases in phagosome formation and maturation. Journal of Cell Biology, 2001, 155, 19-26.	2.3	474
87	ErbB-3 mediates phosphoinositide 3-kinase activity in gefitinib-sensitive non-small cell lung cancer cell lines. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3788-3793.	3.3	472
88	Structural Analysis of 14-3-3 Phosphopeptide Complexes Identifies a Dual Role for the Nuclear Export Signal of 14-3-3 in Ligand Binding. Molecular Cell, 1999, 4, 153-166.	4.5	467
89	The PHD Finger of the Chromatin-Associated Protein ING2 Functions as a Nuclear Phosphoinositide Receptor. Cell, 2003, 114, 99-111.	13.5	467
90	ras-transformed cells: altered levels of phosphatidylinositol-4,5-bisphosphate and catabolites. Science, 1986, 231, 407-410.	6.0	465

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91	Breast Cancerâ€“Associated PIK3CA Mutations Are Oncogenic in Mammary Epithelial Cells. Cancer Research, 2005, 65, 10992-11000.	0.4	456
92	A new pathway for synthesis of phosphatidylinositol-4,5-bisphosphate. Nature, 1997, 390, 192-196.	13.7	448
93	Rho Family GTPases Bind to Phosphoinositide Kinases. Journal of Biological Chemistry, 1995, 270, 17656-17659.	1.6	445
94	Rheb fills a GAP between TSC and TOR. Trends in Biochemical Sciences, 2003, 28, 573-576.	3.7	443
95	A murine lung cancer co-clinical trial identifies genetic modifiers of therapeutic response. Nature, 2012, 483, 613-617.	13.7	430
96	PKM2 Isoform-Specific Deletion Reveals a Differential Requirement for Pyruvate Kinase in Tumor Cells. Cell, 2013, 155, 397-409.	13.5	429
97	Allelic dilution obscures detection of a biologically significant resistance mutation in EGFR-amplified lung cancer. Journal of Clinical Investigation, 2006, 116, 2695-2706.	3.9	423
98	The Multifaceted Role of Chromosomal Instability in Cancer and Its Microenvironment. Cell, 2018, 174, 1347-1360.	13.5	422
99	A Comparative Analysis of the Phosphoinositide Binding Specificity of Pleckstrin Homology Domains. Journal of Biological Chemistry, 1997, 272, 22059-22066.	1.6	420
100	High Frequency of PIK3R1 and PIK3R2 Mutations in Endometrial Cancer Elucidates a Novel Mechanism for Regulation of PTEN Protein Stability. Cancer Discovery, 2011, 1, 170-185.	7.7	419
101	Phosphatidylinositol-3,4,5-trisphosphate (PtdIns-3,4,5-P3)/Tec kinase-dependent calcium signaling pathway: a target for SHIP-mediated inhibitory signals. EMBO Journal, 1998, 17, 1961-1972.	3.5	418
102	MicroRNA-Antagonism Regulates Breast Cancer Stemness and Metastasis via TET-Family-Dependent Chromatin Remodeling. Cell, 2013, 154, 311-324.	13.5	417
103	Evidence that Inositol Polyphosphate 4-Phosphatase Type II Is a Tumor Suppressor that Inhibits PI3K Signaling. Cancer Cell, 2009, 16, 115-125.	7.7	411
104	Transformation of Chicken Cells by the Gene Encoding the Catalytic Subunit of PI 3-Kinase. Science, 1997, 276, 1848-1850.	6.0	398
105	Identification of SARS-CoV-2 inhibitors using lung and colonic organoids. Nature, 2021, 589, 270-275.	13.7	389
106	Combining a PI3K Inhibitor with a PARP Inhibitor Provides an Effective Therapy for BRCA1-Related Breast Cancer. Cancer Discovery, 2012, 2, 1048-1063.	7.7	384
107	Vanadate inhibits the red cell (Na+, K+) ATPase from the cytoplasmic side. Nature, 1978, 272, 552-554.	13.7	381
108	Heterogeneity of tumor-induced gene expression changes in the human metabolic network. Nature Biotechnology, 2013, 31, 522-529.	9.4	381

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109	MUC1 and HIF-1alpha Signaling Crosstalk Induces Anabolic Glucose Metabolism to Impart Gemcitabine Resistance to Pancreatic Cancer. Cancer Cell, 2017, 32, 71-87.e7.	7.7	373
110	In vivo near-infrared fluorescence imaging of osteoblastic activity. Nature Biotechnology, 2001, 19, 1148-1154.	9.4	371
111	Metabolic Flux and the Regulation of Mammalian Cell Growth. Cell Metabolism, 2011, 14, 443-451.	7.2	371
112	Cancer-associated IDH1 mutations produce 2-hydroxyglutarate. Nature, 2010, 465, 966-966.	13.7	360
113	Interaction of Shc with the zeta chain of the T cell receptor upon T cell activation. Science, 1993, 262, 902-905.	6.0	357
114	The colony stimulating factor-1 receptor associates with and activates phosphatidylinositol-3 kinase. Nature, 1989, 342, 699-702.	13.7	354
115	Phosphoinositide kinases. Biochemistry, 1990, 29, 11147-11156.	1.2	353
116	Recognition and specificity in protein tyrosine kinase-mediated signalling. Trends in Biochemical Sciences, 1995, 20, 470-475.	3.7	353
117	The alternative splicing repressors hnRNP A1/A2 and PTB influence pyruvate kinase isoform expression and cell metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1894-1899.	3.3	351
118	Peptide and Protein Library Screening Defines Optimal Substrate Motifs for AKT/PKB. Journal of Biological Chemistry, 2000, 275, 36108-36115.	1.6	349
119	Lipid second messengers. Cell, 1994, 77, 329-334.	13.5	346
120	The Crohn's Disease Protein, NOD2, Requires RIP2 in Order to Induce Ubiquitinylation of a Novel Site on NEMO. Current Biology, 2004, 14, 2217-2227.	1.8	344
121	A rapid method for determining protein kinase phosphorylation specificity. Nature Methods, 2004, 1, 27-29.	9.0	340
122	Interleukin 3-dependent survival by the Akt protein kinase. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11345-11350.	3.3	339
123	Systemic Elevation of PTEN Induces a Tumor-Suppressive Metabolic State. Cell, 2012, 149, 49-62.	13.5	339
124	The Mycobacterium tuberculosis serine/threonine kinases PknA and PknB: substrate identification and regulation of cell shape. Genes and Development, 2005, 19, 1692-1704.	2.7	334
125	Lin28 Enhances Tissue Repair by Reprogramming Cellular Metabolism. Cell, 2013, 155, 778-792.	13.5	322
126	Oncogenic B-RAF Negatively Regulates the Tumor Suppressor LKB1 to Promote Melanoma Cell Proliferation. Molecular Cell, 2009, 33, 237-247.	4.5	318

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127	Phosphatidylinositol (3,4,5)P3 interacts with SH2 domains and modulates PI 3-kinase association with tyrosine-phosphorylated proteins. Cell, 1995, 83, 821-830.	13.5	309
128	PIK3CA Mutation Is Associated With Poor Prognosis Among Patients With Curatively Resected Colon Cancer. Journal of Clinical Oncology, 2009, 27, 1477-1484.	0.8	303
129	Phosphoinositide 3-Kinase Regulates Glycolysis through Mobilization of Aldolase from the Actin Cytoskeleton. Cell, 2016, 164, 433-446.	13.5	301
130	Structure and Mechanism of the (Na,K)-ATPase. Current Topics in Bioenergetics, 1981, 11, 201-237.	2.7	299
131	PtdIns(3,4,5)P3-Dependent Activation of the mTORC2 Kinase Complex. Cancer Discovery, 2015, 5, 1194-1209.	7.7	297
132	Differential Effects of Gefitinib and Cetuximab on Nonâ€“small-cell Lung Cancers Bearing Epidermal Growth Factor Receptor Mutations. Journal of the National Cancer Institute, 2005, 97, 1185-1194.	3.0	294
133	The Peutz-Jegher Gene Product LKB1 Is a Mediator of p53-Dependent Cell Death. Molecular Cell, 2001, 7, 1307-1319.	4.5	293
134	Acute effects of leptin require PI3K signaling in hypothalamic proopiomelanocortin neurons in mice. Journal of Clinical Investigation, 2008, 118, 1796-1805.	3.9	293
135	Cell-State-Specific Metabolic Dependency in Hematopoiesis and Leukemogenesis. Cell, 2014, 158, 1309-1323.	13.5	289
136	Stimulation of the T3-T cell receptor complex induces a membrane-potential-sensitive calcium influx. Cell, 1985, 40, 583-590.	13.5	286
137	Cell-cycle-regulated activation of Akt kinase by phosphorylation at its carboxyl terminus. Nature, 2014, 508, 541-545.	13.7	285
138	Signal transduction and membrane traffic: The PITP/phosphoinositide connection. Cell, 1995, 81, 659-662.	13.5	280
139	SRPK2: A Differentially Expressed SR Protein-specific Kinase Involved in Mediating the Interaction and Localization of Pre-mRNA Splicing Factors in Mammalian Cells. Journal of Cell Biology, 1998, 140, 737-750.	2.3	274
140	Hypoglycaemia, liver necrosis and perinatal death in mice lacking all isoforms of phosphoinositide 3-kinase p85Î±. Nature Genetics, 2000, 26, 379-382.	9.4	273
141	Protein Sequences from Mastodon and Tyrannosaurus Rex Revealed by Mass Spectrometry. Science, 2007, 316, 280-285.	6.0	273
142	T-cell antigen CD28 interacts with the lipid kinase phosphatidylinositol 3-kinase by a cytoplasmic Tyr(P)-Met-Xaa-Met motif.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 2834-2838.	3.3	271
143	A Phase Ib Study of Alpelisib (BYL719), a PI3KÎ±-Specific Inhibitor, with Letrozole in ER+/HER2â^' Metastatic Breast Cancer. Clinical Cancer Research, 2017, 23, 26-34.	3.2	268
144	Isolation of a potent (Na -K) stimulated ATPase inhibitor from striated muscle. Biochemistry, 1977, 16, 4572-4578.	1.2	265

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145	Juxtamembrane tyrosine residues couple the Eph family receptor EphB2/Nuk to specific SH2 domain proteins in neuronal cells. EMBO Journal, 1997, 16, 3877-3888.	3.5	264
146	Aktâ€“RSKâ€“S6 Kinase Signaling Networks Activated by Oncogenic Receptor Tyrosine Kinases. Science Signaling, 2010, 3, ra64.	1.6	263
147	Diverse Biochemical Properties of Shp2 Mutants. Journal of Biological Chemistry, 2005, 280, 30984-30993.	1.6	256
148	Molecular Balance between the Regulatory and Catalytic Subunits of Phosphoinositide 3-Kinase Regulates Cell Signaling and Survival. Molecular and Cellular Biology, 2002, 22, 965-977.	1.1	254
149	Divergent regulation of hepatic glucose and lipid metabolism by phosphoinositide 3-kinase via Akt and PKCÎ»/Î¶. Cell Metabolism, 2006, 3, 343-353.	7.2	249
150	Biochemical Interactions Integrating Itk with the T Cell Receptor-initiated Signaling Cascade. Journal of Biological Chemistry, 2000, 275, 2219-2230.	1.6	244
151	Regulation of epithelial tight junction assembly and disassembly by AMP-activated protein kinase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 819-822.	3.3	244
152	Targeting cancer vulnerabilities with high-dose vitamin C. Nature Reviews Cancer, 2019, 19, 271-282.	12.8	244
153	High-fructose corn syrup enhances intestinal tumor growth in mice. Science, 2019, 363, 1345-1349.	6.0	243
154	Identification of a small molecule inhibitor of 3-phosphoglycerate dehydrogenase to target serine biosynthesis in cancers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1778-1783.	3.3	239
155	Crystal Structures of the XLP Protein SAP Reveal a Class of SH2 Domains with Extended, Phosphotyrosine-Independent Sequence Recognition. Molecular Cell, 1999, 4, 555-561.	4.5	237
156	Glucose Addiction of TSC Null Cells Is Caused by Failed mTORC1-Dependent Balancing of Metabolic Demand with Supply. Molecular Cell, 2010, 38, 487-499.	4.5	236
157	p70S6 Kinase Phosphorylates AMPK on Serine 491 to Mediate Leptin's Effect on Food Intake. Cell Metabolism, 2012, 16, 104-112.	7.2	236
158	Obesity and Cancer Mechanisms: Cancer Metabolism. Journal of Clinical Oncology, 2016, 34, 4277-4283.	0.8	236
159	Type IÎ± phosphatidylinositol-4-phosphate 5-kinase mediates Rac-dependent actin assembly. Current Biology, 2000, 10, 153-156.	1.8	233
160	Chemical Genetic Screen for AMPKÎ±2 Substrates Uncovers a Network of Proteins Involved in Mitosis. Molecular Cell, 2011, 44, 878-892.	4.5	232
161	Phosphatidylinositol metabolism and polyoma-mediated transformation.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 3624-3628.	3.3	228
162	Increased insulin sensitivity in mice lacking p85Â subunit of phosphoinositide 3-kinase. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 419-424.	3.3	228

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163	The SH3 Domain of Amphiphysin Binds the Proline-rich Domain of Dynamin at a Single Site That Defines a New SH3 Binding Consensus Sequence. Journal of Biological Chemistry, 1997, 272, 13419-13425.	1.6	227
164	The C2 Domain of PKCÎ´ Is a Phosphotyrosine Binding Domain. Cell, 2005, 121, 271-280.	13.5	225
165	Rac1 Regulates the Activity of mTORC1 and mTORC2 and Controls Cellular Size. Molecular Cell, 2011, 42, 50-61.	4.5	225
166	Active Pin1 is a key target of all-trans retinoic acid in acute promyelocytic leukemia and breast cancer. Nature Medicine, 2015, 21, 457-466.	15.2	220
167	Corequirement of Specific Phosphoinositides and Small GTP-binding Protein Cdc42 in Inducing Actin Assembly in Xenopus Egg Extracts. Journal of Cell Biology, 1998, 140, 1125-1136.	2.3	219
168	Feedback inhibition of Akt signaling limits the growth of tumors lacking Tsc2. Genes and Development, 2005, 19, 1773-1778.	2.7	216
169	Biomolecular Characterization and Protein Sequences of the Campanian Hadrosaur B. canadensis. Science, 2009, 324, 626-631.	6.0	212
170	mTOR Drives Its Own Activation via SCFÎ²TrCP-Dependent Degradation of the mTOR Inhibitor DEPTOR. Molecular Cell, 2011, 44, 290-303.	4.5	212
171	A labelâ€free quantification method by MS/MS TIC compared to SILAC and spectral counting in a proteomics screen. Proteomics, 2008, 8, 994-999.	1.3	211
172	Phosphatidylinositol 3-Kinase, Growth Disorders, and Cancer. New England Journal of Medicine, 2018, 379, 2052-2062.	13.9	211
173	Paxillin Serves as an ERK-Regulated Scaffold for Coordinating FAK and Rac Activation in Epithelial Morphogenesis. Molecular Cell, 2004, 16, 257-267.	4.5	210
174	PtdIns(5)P activates the host cell PI3-kinase/Akt pathway during Shigella flexneri infection. EMBO Journal, 2006, 25, 1024-1034.	3.5	208
175	Identification of small molecule inhibitors of pyruvate kinase M2. Biochemical Pharmacology, 2010, 79, 1118-1124.	2.0	208
176	Phosphoinositide 3-Kinase Regulates Phospholipase CÎ³-mediated Calcium Signaling. Journal of Biological Chemistry, 1998, 273, 23750-23757.	1.6	207
177	Phosphorylation of the Tumor Suppressor CYLD by the Breast Cancer Oncogene IKKÉ› Promotes Cell Transformation. Molecular Cell, 2009, 34, 461-472.	4.5	207
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