

# Craig B Thompson

## List of Publications by Citations

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125  
papers

66,736  
citations

85  
h-index

132  
g-index

132  
ext. papers

76,887  
ext. citations

19.9  
avg, IF

8.08  
L-index

#	Paper	IF	Citations
125	Understanding the Warburg effect: the metabolic requirements of cell proliferation. <i>Science</i> , <b>2009</b> , 324, 1029-33	33.3	9509
124	Proapoptotic BAX and BAK: a requisite gateway to mitochondrial dysfunction and death. <i>Science</i> , <b>2001</b> , 292, 727-30	33.3	3283
123	The biology of cancer: metabolic reprogramming fuels cell growth and proliferation. <i>Cell Metabolism</i> , <b>2008</b> , 7, 11-20	24.6	2786
122	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-544.2	44.2	2783
121	Cancer-associated IDH1 mutations produce 2-hydroxyglutarate. <i>Nature</i> , <b>2009</b> , 462, 739-44	50.4	2558
120	The Emerging Hallmarks of Cancer Metabolism. <i>Cell Metabolism</i> , <b>2016</b> , 23, 27-47	24.6	2517
119	Metabolic reprogramming: a cancer hallmark even warburg did not anticipate. <i>Cancer Cell</i> , <b>2012</b> , 21, 297-308	30.8	2087
118	Leukemic IDH1 and IDH2 mutations result in a hypermethylation phenotype, disrupt TET2 function, and impair hematopoietic differentiation. <i>Cancer Cell</i> , <b>2010</b> , 18, 553-67	24.3	1933
117	Beyond aerobic glycolysis: transformed cells can engage in glutamine metabolism that exceeds the requirement for protein and nucleotide synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19345-50	11.5	1758
116	CTLA-4 can function as a negative regulator of T cell activation. <i>Immunity</i> , <b>1994</b> , 1, 405-13	32.3	1697
115	Succinate links TCA cycle dysfunction to oncogenesis by inhibiting HIF-alpha prolyl hydroxylase. <i>Cancer Cell</i> , <b>2005</b> , 7, 77-85	24.3	1481
114	The common feature of leukemia-associated IDH1 and IDH2 mutations is a neomorphic enzyme activity converting alpha-ketoglutarate to 2-hydroxyglutarate. <i>Cancer Cell</i> , <b>2010</b> , 17, 225-34	24.3	1473
113	ATP-citrate lyase links cellular metabolism to histone acetylation. <i>Science</i> , <b>2009</b> , 324, 1076-80	33.3	1402
112	IDH mutation impairs histone demethylation and results in a block to cell differentiation. <i>Nature</i> , <b>2012</b> , 483, 474-8	50.4	1393
111	Myc regulates a transcriptional program that stimulates mitochondrial glutaminolysis and leads to glutamine addiction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18782-7	11.5	1379
110	IDH1 mutation is sufficient to establish the glioma hypermethylator phenotype. <i>Nature</i> , <b>2012</b> , 483, 479-83	50.4	1373
109	X-ray and NMR structure of human Bcl-xL, an inhibitor of programmed cell death. <i>Nature</i> , <b>1996</b> , 381, 335-41	50.4	1303

108	CTLA-4 and PD-1 receptors inhibit T-cell activation by distinct mechanisms. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 9543-53	4.8	1273
107	Growth factor regulation of autophagy and cell survival in the absence of apoptosis. <i>Cell</i> , <b>2005</b> , 120, 237-48	5.8	1252
106	Glutamine addiction: a new therapeutic target in cancer. <i>Trends in Biochemical Sciences</i> , <b>2010</b> , 35, 427-33	10.3	1127
105	Akt stimulates aerobic glycolysis in cancer cells. <i>Cancer Research</i> , <b>2004</b> , 64, 3892-9	10.1	1120
104	CD28 costimulation can promote T cell survival by enhancing the expression of Bcl-XL. <i>Immunity</i> , <b>1995</b> , 3, 87-98	32.3	1003
103	Macropinocytosis of protein is an amino acid supply route in Ras-transformed cells. <i>Nature</i> , <b>2013</b> , 497, 633-7	50.4	989
102	The CD28 signaling pathway regulates glucose metabolism. <i>Immunity</i> , <b>2002</b> , 16, 769-77	32.3	970
101	Essential regulation of cell bioenergetics by constitutive InsP3 receptor Ca <sup>2+</sup> transfer to mitochondria. <i>Cell</i> , <b>2010</b> , 142, 270-83	56.2	740
100	ATP citrate lyase inhibition can suppress tumor cell growth. <i>Cancer Cell</i> , <b>2005</b> , 8, 311-21	24.3	718
99	Hypoxia promotes isocitrate dehydrogenase-dependent carboxylation of $\alpha$ -ketoglutarate to citrate to support cell growth and viability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19611-6	11.5	690
98	Quantitative flux analysis reveals folate-dependent NADPH production. <i>Nature</i> , <b>2014</b> , 510, 298-302	50.4	671
97	Fuel feeds function: energy metabolism and the T-cell response. <i>Nature Reviews Immunology</i> , <b>2005</b> , 5, 844-52	36.5	624
96	Intracellular $\alpha$ -ketoglutarate maintains the pluripotency of embryonic stem cells. <i>Nature</i> , <b>2015</b> , 518, 413-6	50.4	571
95	Akt maintains cell size and survival by increasing mTOR-dependent nutrient uptake. <i>Molecular Biology of the Cell</i> , <b>2002</b> , 13, 2276-88	3.5	493
94	Human pancreatic cancer tumors are nutrient poor and tumor cells actively scavenge extracellular protein. <i>Cancer Research</i> , <b>2015</b> , 75, 544-53	10.1	466
93	Akt-directed glucose metabolism can prevent Bax conformation change and promote growth factor-independent survival. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 7315-28	4.8	463
92	Hypoxic and Ras-transformed cells support growth by scavenging unsaturated fatty acids from lysophospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8882-7	11.5	461
91	Growth factors can influence cell growth and survival through effects on glucose metabolism. <i>Molecular and Cellular Biology</i> , <b>2001</b> , 21, 5899-912	4.8	425

90	Role of Mitochondria in Ferroptosis. <i>Molecular Cell</i> , <b>2019</b> , 73, 354-363.e3	17.6	416
89	ATP citrate lyase is an important component of cell growth and transformation. <i>Oncogene</i> , <b>2005</b> , 24, 6314-22	9.2	389
88	In the absence of extrinsic signals, nutrient utilization by lymphocytes is insufficient to maintain either cell size or viability. <i>Molecular Cell</i> , <b>2000</b> , 6, 683-92	17.6	358
87	IL-7 enhances the survival and maintains the size of naive T cells. <i>Journal of Immunology</i> , <b>2001</b> , 167, 6869-76	35.6	349
86	Cellular metabolic stress: considering how cells respond to nutrient excess. <i>Molecular Cell</i> , <b>2010</b> , 40, 323-32	17.6	348
85	Absence of B7-dependent responses in CD28-deficient mice. <i>Immunity</i> , <b>1994</b> , 1, 501-8	32.3	326
84	Cancer-associated IDH1 mutations produce 2-hydroxyglutarate. <i>Nature</i> , <b>2010</b> , 465, 966	50.4	303
83	Hypoxia Induces Production of L-2-Hydroxyglutarate. <i>Cell Metabolism</i> , <b>2015</b> , 22, 304-11	24.6	286
82	The Utilization of Extracellular Proteins as Nutrients Is Suppressed by mTORC1. <i>Cell</i> , <b>2015</b> , 162, 259-270	56.2	286
81	Clinical implications of genomic alterations in the tumour and circulation of pancreatic cancer patients. <i>Nature Communications</i> , <b>2015</b> , 6, 7686	17.4	279
80	The transcription factor HIF-1alpha plays a critical role in the growth factor-dependent regulation of both aerobic and anaerobic glycolysis. <i>Genes and Development</i> , <b>2007</b> , 21, 1037-49	12.6	270
79	At the bench: preclinical rationale for CTLA-4 and PD-1 blockade as cancer immunotherapy. <i>Journal of Leukocyte Biology</i> , <b>2013</b> , 94, 25-39	6.5	266
78	Serine catabolism regulates mitochondrial redox control during hypoxia. <i>Cancer Discovery</i> , <b>2014</b> , 4, 1406-17	17.4	264
77	Ammonia-induced autophagy is independent of ULK1/ULK2 kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11121-6	11.5	261
76	The hexosamine biosynthetic pathway couples growth factor-induced glutamine uptake to glucose metabolism. <i>Genes and Development</i> , <b>2010</b> , 24, 2784-99	12.6	260
75	Pyruvate kinase M2 promotes de novo serine synthesis to sustain mTORC1 activity and cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 6904-9	11.5	257
74	Cancer cell metabolism: the essential role of the nonessential amino acid, glutamine. <i>EMBO Journal</i> , <b>2017</b> , 36, 1302-1315	13	255
73	Metabolic regulation of cell growth and proliferation. <i>Nature Reviews Molecular Cell Biology</i> , <b>2019</b> , 20, 436-450	48.7	247

72	Akt and Bcl-xL promote growth factor-independent survival through distinct effects on mitochondrial physiology. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 12041-8	5.4	240
71	ATF4 regulates MYC-mediated neuroblastoma cell death upon glutamine deprivation. <i>Cancer Cell</i> , <b>2012</b> , 22, 631-44	24.3	236
70	Asparagine plays a critical role in regulating cellular adaptation to glutamine depletion. <i>Molecular Cell</i> , <b>2014</b> , 56, 205-218	17.6	234
69	The CD28 and CTLA-4 receptors associate with the serine/threonine phosphatase PP2A. <i>Immunity</i> , <b>2000</b> , 13, 313-22	32.3	229
68	Activation and inhibition of lymphocytes by costimulation. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 295-299	15.9	224
67	Histone H3K36 mutations promote sarcomagenesis through altered histone methylation landscape. <i>Science</i> , <b>2016</b> , 352, 844-9	33.3	219
66	NRF2 Promotes Tumor Maintenance by Modulating mRNA Translation in Pancreatic Cancer. <i>Cell</i> , <b>2016</b> , 166, 963-976	56.2	214
65	Glutamine-based PET imaging facilitates enhanced metabolic evaluation of gliomas in vivo. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 274ra17	17.5	206
64	Nutrient acquisition strategies of mammalian cells. <i>Nature</i> , <b>2017</b> , 546, 234-242	50.4	202
63	DNA hydroxymethylation profiling reveals that WT1 mutations result in loss of TET2 function in acute myeloid leukemia. <i>Cell Reports</i> , <b>2014</b> , 9, 1841-1855	10.6	183
62	Structural analysis of CTLA-4 function in vivo. <i>Journal of Immunology</i> , <b>2000</b> , 164, 5319-27	5.3	183
61	Metabolic origins of spatial organization in the tumor microenvironment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2934-2939	11.5	181
60	Phosphatidylinositol 3-kinase-dependent modulation of carnitine palmitoyltransferase 1A expression regulates lipid metabolism during hematopoietic cell growth. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 37372-80	5.4	175
59	Evaluation of histone 3 lysine 27 trimethylation (H3K27me3) and enhancer of Zest 2 (EZH2) in pediatric glial and glioneuronal tumors shows decreased H3K27me3 in H3F3A K27M mutant glioblastomas. <i>Brain Pathology</i> , <b>2013</b> , 23, 558-64	6	158
58	GCN2 sustains mTORC1 suppression upon amino acid deprivation by inducing Sestrin2. <i>Genes and Development</i> , <b>2015</b> , 29, 2331-6	12.6	154
57	Autophagy in cellular metabolism and cancer. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 47-54	15.9	153
56	Attenuation of cGAS-STING signaling is mediated by a p62/SQSTM1-dependent autophagy pathway activated by TBK1. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	152
55	Acquired resistance to IDH inhibition through trans or cis dimer-interface mutations. <i>Nature</i> , <b>2018</b> , 559, 125-129	50.4	150

54	Cytokine stimulation of aerobic glycolysis in hematopoietic cells exceeds proliferative demand. <i>FASEB Journal</i> , <b>2004</b> , 18, 1303-5	0.9	144
53	As Extracellular Glutamine Levels Decline, Asparagine Becomes an Essential Amino Acid. <i>Cell Metabolism</i> , <b>2018</b> , 27, 428-438.e5	24.6	139
52	Cancer-associated IDH2 mutants drive an acute myeloid leukemia that is susceptible to Brd4 inhibition. <i>Genes and Development</i> , <b>2013</b> , 27, 1974-85	12.6	134
51	PET imaging of glutaminolysis in tumors by 18F-(2S,4R)4-fluoroglutamine. <i>Journal of Nuclear Medicine</i> , <b>2011</b> , 52, 1947-55	8.9	130
50	L-2-Hydroxyglutarate production arises from noncanonical enzyme function at acidic pH. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 494-500	11.7	129
49	The potential for isocitrate dehydrogenase mutations to produce 2-hydroxyglutarate depends on allele specificity and subcellular compartmentalization. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 3804-15	5.4	116
48	Induction of sarcomas by mutant IDH2. <i>Genes and Development</i> , <b>2013</b> , 27, 1986-98	12.6	114
47	Oncogenic activation of PI3K-AKT-mTOR signaling suppresses ferroptosis via SREBP-mediated lipogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 31189-31197	11.5	112
46	Lowered H3K27me3 and DNA hypomethylation define poorly prognostic pediatric posterior fossa ependymomas. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 366ra161	17.5	109
45	Metabolic regulation of chromatin modifications and gene expression. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 2247-2259	7.3	101
44	The proapoptotic activities of Bax and Bak limit the size of the neural stem cell pool. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 11112-9	6.6	95
43	α-Ketoglutarate links p53 to cell fate during tumour suppression. <i>Nature</i> , <b>2019</b> , 573, 595-599	50.4	90
42	Activation and inhibition of lymphocytes by costimulation. <i>Journal of Clinical Investigation</i> , <b>2002</b> , 109, 295-9	15.9	90
41	Mutant-IDH1-dependent chromatin state reprogramming, reversibility, and persistence. <i>Nature Genetics</i> , <b>2018</b> , 50, 62-72	36.3	86
40	PTEN is a protein tyrosine phosphatase for IRS1. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 522-7	17.6	84
39	In vivo, Argonaute-bound microRNAs exist predominantly in a reservoir of low molecular weight complexes not associated with mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 767-72	11.5	80
38	Impaired mitochondrial oxidative phosphorylation limits the self-renewal of T cells exposed to persistent antigen. <i>Nature Immunology</i> , <b>2020</b> , 21, 1022-1033	19.1	79
37	Isoform-specific requirement for Akt1 in the developmental regulation of cellular metabolism during lactation. <i>Cell Metabolism</i> , <b>2006</b> , 4, 475-90	24.6	74

36	Transsulfuration Activity Can Support Cell Growth upon Extracellular Cysteine Limitation. <i>Cell Metabolism</i> , <b>2019</b> , 30, 865-876.e5	24.6	70
35	Epigenetic Identity in AML Depends on Disruption of Nonpromoter Regulatory Elements and Is Affected by Antagonistic Effects of Mutations in Epigenetic Modifiers. <i>Cancer Discovery</i> , <b>2017</b> , 7, 868-883	24.4	69
34	PIKfyve Regulates Vacuole Maturation and Nutrient Recovery following Engulfment. <i>Developmental Cell</i> , <b>2016</b> , 38, 536-47	10.2	69
33	Combination Targeted Therapy to Disrupt Aberrant Oncogenic Signaling and Reverse Epigenetic Dysfunction in - and -Mutant Acute Myeloid Leukemia. <i>Cancer Discovery</i> , <b>2017</b> , 7, 494-505	24.4	68
32	In Vivo Imaging of Glutamine Metabolism to the Oncometabolite 2-Hydroxyglutarate in IDH1/2 Mutant Tumors. <i>Cell Metabolism</i> , <b>2017</b> , 26, 830-841.e3	24.6	65
31	Long-lived microRNA-Argonaute complexes in quiescent cells can be activated to regulate mitogenic responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 157-62	11.5	57
30	Metabolic Reprogramming in Brain Tumors. <i>Annual Review of Pathology: Mechanisms of Disease</i> , <b>2017</b> , 12, 515-545	34	56
29	Critical role for PI3-kinase in regulating the use of proteins as an amino acid source. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E8628-E8636	11.5	52
28	Cancer Metabolism Drives a Stromal Regenerative Response. <i>Cell Metabolism</i> , <b>2019</b> , 29, 576-591	24.6	52
27	Apoptosis induced by differentiation or serum deprivation in an immortalized central nervous system neuronal cell line. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 1908-20	6	50
26	The Canonical Wnt Pathway Drives Macropinocytosis in Cancer. <i>Cancer Research</i> , <b>2018</b> , 78, 4658-4670	10.1	48
25	Analysis of a lung defect in autophagy-deficient mouse strains. <i>Autophagy</i> , <b>2014</b> , 10, 45-56	10.2	46
24	Histone 3 lysine 9 trimethylation is differentially associated with isocitrate dehydrogenase mutations in oligodendrogliomas and high-grade astrocytomas. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2013</b> , 72, 298-306	3.1	46
23	Proline biosynthesis is a vent for TGFβ-induced mitochondrial redox stress. <i>EMBO Journal</i> , <b>2020</b> , 39, e103334	33.4	45
22	Central role of ULK1 in type I interferon signaling. <i>Cell Reports</i> , <b>2015</b> , 11, 605-17	10.6	45
21	Wnt meets Warburg: another piece in the puzzle?. <i>EMBO Journal</i> , <b>2014</b> , 33, 1420-2	13	40
20	Pluripotency transcription factors and Tet1/2 maintain Brd4-independent stem cell identity. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 565-574	23.4	34
19	Metabolic Profiling Reveals a Dependency of Human Metastatic Breast Cancer on Mitochondrial Serine and One-Carbon Unit Metabolism. <i>Molecular Cancer Research</i> , <b>2020</b> , 18, 599-611	6.6	27



18	Metabolic Alterations in Cancer and Their Potential as Therapeutic Targets. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , <b>2017</b> , 37, 825-832	7.1	26
17	Mitochondrial NADP(H) generation is essential for proline biosynthesis. <i>Science</i> , <b>2021</b> , 372, 968-972	33.3	23
16	Glutamine independence is a selectable feature of pluripotent stem cells. <i>Nature Metabolism</i> , <b>2019</b> , 1, 676-687	14.6	22
15	The hallmarks of cancer metabolism: Still emerging.. <i>Cell Metabolism</i> , <b>2022</b> ,	24.6	22
14	Into Thin Air: How We Sense and Respond to Hypoxia. <i>Cell</i> , <b>2016</b> , 167, 9-11	56.2	22
13	Yap/Taz promote the scavenging of extracellular nutrients through macropinocytosis. <i>Genes and Development</i> , <b>2020</b> , 34, 1345-1358	12.6	19
12	Metabolic Alterations in Cancer and Their Potential as Therapeutic Targets. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , <b>2017</b> , 37, 825-832	7.1	18
11	2-hydroxyglutarate inhibits MyoD-mediated differentiation by preventing H3K9 demethylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 12851-12856	11.5	15
10	Growth factors stimulate anabolic metabolism by directing nutrient uptake. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 17883-17888	5.4	10
9	Translation in amino-acid-poor environments is limited by tRNA charging. <i>ELife</i> , <b>2020</b> , 9,	8.9	8
8	Coordinated Regulation of Cap-Dependent Translation and MicroRNA Function by Convergent Signaling Pathways. <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 2360-73	4.8	5
7	Reexamining How Cancer Cells Exploit the Body's Metabolic Resources. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2016</b> , 81, 67-72	3.9	4
6	Fibroblast pyruvate carboxylase is required for collagen production in the tumour microenvironment. <i>Nature Metabolism</i> , <b>2021</b> , 3, 1484-1499	14.6	3
5	Inducible and reversible inhibition of miRNA-mediated gene repression in vivo. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
4	Cancer Cell Metabolism: Reexamining the Regulation of Anabolic Growth in Health and Disease. <i>FASEB Journal</i> , <b>2019</b> , 33, 226.1	0.9	1
3	Hyperpolarized [5-C,4,4-H,5-N]-L-glutamine provides a means of annotating in vivo metabolic utilization of glutamine.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2120595119	11.5	1
2	Ketohexokinase-mediated fructose metabolism is lost in hepatocellular carcinoma and can be leveraged for metabolic imaging.. <i>Science Advances</i> , <b>2022</b> , 8, eabm7985	14.3	0
1	Cancer Metabolism <b>2016</b> , 1-12		



