Heather Christofk

List of Publications by Citations

68 papers	8,192 citations	36 h-index	75 g-index
75 ext. papers	9,879 ext. citations	16.5 avg, IF	5.81 L-index

#	Paper	IF	Citations
68	The M2 splice isoform of pyruvate kinase is important for cancer metabolism and tumour growth. *Nature*, **2008**, 452, 230-3	50.4	2056
67	Pyruvate kinase M2 is a phosphotyrosine-binding protein. *Nature*, **2008**, 452, 181-6	50.4	767
66	Evidence for an alternative glycolytic pathway in rapidly proliferating cells. *Science*, **2010**, 329, 1492-9	33.3	501
65	Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. *Nature Chemical Biology*, **2012**, 8, 839-47	11.7	476
64	The metabolite □ketoglutarate extends lifespan by inhibiting ATP synthase and TOR. *Nature*, **2014**, 510, 397-401	50.4	340
63	Metabolic state of glioma stem cells and nontumorigenic cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16062-7	11.5	339
62	Asparagine promotes cancer cell proliferation through use as an amino acid exchange factor. *Nature Communications*, **2016**, 7, 11457	17.4	251
61	New aspects of the Warburg effect in cancer cell biology. *Seminars in Cell and Developmental Biology*, **2012**, 23, 352-61	7.5	228
60	Identification of small molecule inhibitors of pyruvate kinase M2. *Biochemical Pharmacology*, **2010**, 79, 1118-24	6	184
59	A label-free quantification method by MS/MS TIC compared to SILAC and spectral counting in a proteomics screen. *Proteomics*, **2008**, 8, 994-9	4.8	179
58	Histone acetylation regulates intracellular pH. *Molecular Cell*, **2013**, 49, 310-21	17.6	171
57	Viral hijacking of cellular metabolism. *BMC Biology*, **2019**, 17, 59	7.3	157
56	Adenovirus E4ORF1-induced MYC activation promotes host cell anabolic glucose metabolism and virus replication. *Cell Metabolism*, **2014**, 19, 694-701	24.6	154
55	Glycolytic Metabolism Plays a Functional Role in Regulating Human Pluripotent Stem Cell State. *Cell Stem Cell*, **2016**, 19, 476-490	18	153
54	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. *Nature Cell Biology*, **2017**, 19, 1027-1036	23.4	152
53	2-Hydroxyglutarate Inhibits ATP Synthase and mTOR Signaling. *Cell Metabolism*, **2015**, 22, 508-15	24.6	139
52	MCT1 Modulates Cancer Cell Pyruvate Export and Growth of Tumors that Co-express MCT1 and MCT4. *Cell Reports*, **2016**, 14, 1590-1601	10.6	121

51	Lactate dehydrogenase activity drives hair follicle stem cell activation. *Nature Cell Biology*, **2017**, 19, 1017-1026	23.1	120
50	An essential requirement for the SCAP/SREBP signaling axis to protect cancer cells from lipotoxicity. *Cancer Research*, **2013**, 73, 2850-62	10.1	116
49	Autocrine VEGF maintains endothelial survival through regulation of metabolism and autophagy. *Journal of Cell Science*, **2015**, 128, 2236-48	5.3	106
48	EGFR mutation-induced alternative splicing of Max contributes to growth of glycolytic tumors in brain cancer. *Cell Metabolism*, **2013**, 17, 1000-1008	24.6	105
47	Doxycycline alters metabolism and proliferation of human cell lines. *PLoS ONE*, **2013**, 8, e64561	3.7	97
46	Extracellular Matrix Remodeling Regulates Glucose Metabolism through TXNIP Destabilization. *Cell* , **2018**, 175, 117-132.e21	56.2	95
45	Targeted Inhibition of EGFR and Glutaminase Induces Metabolic Crisis in EGFR Mutant Lung Cancer. *Cell Reports*, **2017**, 18, 601-610	10.6	91
44	The GSK3 Signaling Axis Regulates Adaptive Glutamine Metabolism in Lung Squamous Cell Carcinoma. *Cancer Cell*, **2018**, 33, 905-921.e5	24.3	89
43	Glucose inhibits cardiac muscle maturation through nucleotide biosynthesis. *ELife*, **2017**, 6,	8.9	85
42	Protein inhibitor of activated STAT Y (PIASy) and a splice variant lacking exon 6 enhance sumoylation but are not essential for embryogenesis and adult life. *Molecular and Cellular Biology*, **2004**, 24, 5577-86	4.8	80
41	MYC-induced reprogramming of glutamine catabolism supports optimal virus replication. *Nature Communications*, **2015**, 6, 8873	17.4	77
40	In vivo imaging of mitochondrial membrane potential in non-small-cell lung cancer. *Nature*, **2019**, 575, 380-384	50.4	77
39	Control of mitochondrial structure and function by the Yorkie/YAP oncogenic pathway. *Genes and Development*, **2012**, 26, 2027-37	12.6	69
38	Dichloroacetate should be considered with platinum-based chemotherapy in hypoxic tumors rather than as a single agent in advanced non-small cell lung cancer. *Journal of Cancer Research and Clinical Oncology*, **2014**, 140, 443-52	4.9	68
37	Estrogen receptor (ER)□regulated lipocalin 2 expression in adipose tissue links obesity with breast cancer progression. *Journal of Biological Chemistry*, **2015**, 290, 5566-81	5.4	49
36	Recurrent patterns of DNA copy number alterations in tumors reflect metabolic selection pressures. *Molecular Systems Biology*, **2017**, 13, 914	12.2	44
35	Asparagine couples mitochondrial respiration to ATF4 activity and tumor growth. *Cell Metabolism*, **2021**, 33, 1013-1026.e6	24.6	39
34	Metabolic characterization of isocitrate dehydrogenase (IDH) mutant and IDH wildtype gliomaspheres uncovers cell type-specific vulnerabilities. *Cancer & Metabolism*, **2018**, 6, 4	5.4	37

33	Differential Metabolic Reprogramming by Zika Virus Promotes Cell Death in Human versus Mosquito Cells. *Cell Metabolism*, **2019**, 29, 1206-1216.e4	24.6	36
32	SARS-CoV-2 infection rewires host cell metabolism and is potentially susceptible to mTORC1 inhibition. *Nature Communications*, **2021**, 12, 1876	17.4	31
31	Novel dedifferentiated liposarcoma xenograft models reveal PTEN down-regulation as a malignant signature and response to PI3K pathway inhibition. *American Journal of Pathology*, **2013**, 182, 1400-11	5.8	26
30	Metabolomics strategy reveals subpopulation of liposarcomas sensitive to gemcitabine treatment. *Cancer Discovery*, **2012**, 2, 1109-17	24.4	25
29	GSK3 Inhibits Macropinocytosis and Lysosomal Activity through the Wnt Destruction Complex Machinery. *Cell Reports*, **2020**, 32, 107973	10.6	23
28	Glioblastoma Utilizes Fatty Acids and Ketone Bodies for Growth Allowing Progression during Ketogenic Diet Therapy. *IScience*, **2020**, 23, 101453	6.1	22
27	Rethinking glutamine addiction. *Nature Cell Biology*, **2015**, 17, 1515-7	23.4	20
26	Metabolic Regulation of Tissue Stem Cells. *Trends in Cell Biology*, **2020**, 30, 566-576	18.3	19
25	Increased lactate dehydrogenase activity is dispensable in squamous carcinoma cells of origin. *Nature Communications*, **2019**, 10, 91	17.4	19
24	Cell cycle: Division enzyme regulates metabolism. *Nature*, **2017**, 546, 357-358	50.4	16
23	The metabolic milieu of metastases. *Cell*, **2015**, 160, 363-4	56.2	15
22	Proteomic screening method for phosphopeptide motif binding proteins using peptide libraries. *Journal of Proteome Research*, **2011**, 10, 4158-64	5.6	14
21	In-gel stable isotope labeling for relative quantification using mass spectrometry. *Nature Protocols*, **2006**, 1, 46-51	18.8	14
20	Fast metabolic response to drug intervention through analysis on a miniaturized, highly integrated molecular imaging system. *Journal of Nuclear Medicine*, **2013**, 54, 1820-4	8.9	10
19	Topical Inhibition of the Electron Transport Chain Can Stimulate the Hair Cycle. *Journal of Investigative Dermatology*, **2018**, 138, 968-972	4.3	9
18	Targeting nucleotide metabolism as the nexus of viral infections, cancer, and the immune response. *Science Advances*, **2021**, 7,	14.3	9
17	Monocarboxylate transporter antagonism reveals metabolic vulnerabilities of viral-driven lymphomas. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
16	GLUT1 overexpression enhances glucose metabolism and promotes neonatal heart regeneration. *Scientific Reports*, **2021**, 11, 8669	4.9	7

List of Publications

15	Epigenetic changes mediated by polycomb repressive complex 2 and E2a are associated with drug resistance in a mouse model of lymphoma. *Genome Medicine*, **2016**, 8, 54	14.4	7
14	Mapping Metabolism: Monitoring Lactate Dehydrogenase Activity Directly in Tissue. *Journal of Visualized Experiments*, **2018**,	1.6	5
13	Development of Novel Mitochondrial Pyruvate Carrier Inhibitors to Treat Hair Loss. *Journal of Medicinal Chemistry*, **2021**, 64, 2046-2063	8.3	5
12	The next decade of metabolism. *Nature Metabolism*, **2019**, 1, 2-4	14.6	3
11	TGF superfamily signaling regulates the state of human stem cell pluripotency and competency to create telencephalic organoids		3
10	Asparagine signals mitochondrial respiration and can be targeted to impair tumour growth		3
9	Challenges in Studying Stem Cell Metabolism. *Cell Stem Cell*, **2021**, 28, 409-423	18	3
8	Fumarate hydratase variant prevalence and manifestations among individuals receiving germline testing. *Cancer*, **2021**,	6.4	1
7	Metabolic Regulation of Stem Cell Fate and Function. *FASEB Journal*, **2020**, 34, 1-1	0.9	1
6	O-Mg! Lactate Drives Mg Mobilization. *Molecular Cell*, **2020**, 80, 762-763	17.6	1
5	Metabolic decisions in development and disease-a Keystone Symposia report. *Annals of the New York Academy of Sciences*, **2021**,	6.5	1
4	A pathogenic role for histone H3 copper reductase activity in a yeast model of Friedreich's ataxia.. *Science Advances*, **2021**, 7, eabj9889	14.3	0
3	Autocrine VEGF maintains endothelial survival through regulation of metabolism and autophagy. *Development (Cambridge)*, **2015**, 142, e1.1-e1.1	6.6	
2	Role of MCT1 in cancer metabolism. *FASEB Journal*, **2012**, 26, 348.2	0.9	
1	Targeting Metabolism in Liposarcomas. *FASEB Journal*, **2012**, 26, 551.6	0.9	