

# Jason W Locasale

## List of Publications by Citations

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196  
papers

19,440  
citations

70  
h-index

138  
g-index

236  
ext. papers

24,973  
ext. citations

16.1  
avg, IF

7.4  
L-index

#	Paper	IF	Citations
196	The Warburg Effect: How Does it Benefit Cancer Cells?. <i>Trends in Biochemical Sciences</i> , <b>2016</b> , 41, 211-218	10.3	1776
195	Oncogenic Kras maintains pancreatic tumors through regulation of anabolic glucose metabolism. <i>Cell</i> , <b>2012</b> , 149, 656-70	56.2	1203
194	Serine, glycine and one-carbon units: cancer metabolism in full circle. <i>Nature Reviews Cancer</i> , <b>2013</b> , 13, 572-83	31.3	923
193	Inhibition of pyruvate kinase M2 by reactive oxygen species contributes to cellular antioxidant responses. <i>Science</i> , <b>2011</b> , 334, 1278-83	33.3	800
192	Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. <i>Nature Genetics</i> , <b>2011</b> , 43, 869-74	36.3	788
191	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. <i>Cell</i> , <b>2015</b> , 162, 1217-28	36.2	746
190	Evidence for an alternative glycolytic pathway in rapidly proliferating cells. <i>Science</i> , <b>2010</b> , 329, 1492-9	33.3	501
189	Influence of threonine metabolism on S-adenosylmethionine and histone methylation. <i>Science</i> , <b>2013</b> , 339, 222-6	33.3	444
188	Metabolic programming and PDHK1 control CD4+ T cell subsets and inflammation. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 194-207	15.9	403
187	A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 34, 189-201	11.4	368
186	Histone Methylation Dynamics and Gene Regulation Occur through the Sensing of One-Carbon Metabolism. <i>Cell Metabolism</i> , <b>2015</b> , 22, 861-73	24.6	329
185	Metabolic flux and the regulation of mammalian cell growth. <i>Cell Metabolism</i> , <b>2011</b> , 14, 443-51	24.6	295
184	Heterogeneity of tumor-induced gene expression changes in the human metabolic network. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 522-9	44.5	279
183	Foxp3 and Toll-like receptor signaling balance T cell anabolic metabolism for suppression. <i>Nature Immunology</i> , <b>2016</b> , 17, 1459-1466	19.1	272
182	Glutamine Metabolism in Cancer: Understanding the Heterogeneity. <i>Trends in Cancer</i> , <b>2017</b> , 3, 169-180	12.5	264
181	Epigenomic reprogramming during pancreatic cancer progression links anabolic glucose metabolism to distant metastasis. <i>Nature Genetics</i> , <b>2017</b> , 49, 367-376	36.3	250
180	The impact of cellular metabolism on chromatin dynamics and epigenetics. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 1298-1306	23.4	236

179	Distinct Regulation of Th17 and Th1 Cell Differentiation by Glutaminase-Dependent Metabolism. <i>Cell</i> , <b>2018</b> , 175, 1780-1795.e19	56.2	236
178	Dietary methionine influences therapy in mouse cancer models and alters human metabolism. <i>Nature</i> , <b>2019</b> , 572, 397-401	50.4	227
177	Extensive phosphorylation with overlapping specificity by Mycobacterium tuberculosis serine/threonine protein kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7521-6	11.5	213
176	Metabolic pathway alterations that support cell proliferation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2011</b> , 76, 325-34	3.9	207
175	mTORC1 and mTORC2 Kinase Signaling and Glucose Metabolism Drive Follicular Helper T Cell Differentiation. <i>Immunity</i> , <b>2016</b> , 45, 540-554	32.3	203
174	T cell stemness and dysfunction in tumors are triggered by a common mechanism. <i>Science</i> , <b>2019</b> , 363,	33.3	196
173	Cancer-cell-secreted exosomal miR-105 promotes tumour growth through the MYC-dependent metabolic reprogramming of stromal cells. <i>Nature Cell Biology</i> , <b>2018</b> , 20, 597-609	23.4	192
172	mTOR drives its own activation via SCF( $\beta$ TrCP)-dependent degradation of the mTOR inhibitor DEPTOR. <i>Molecular Cell</i> , <b>2011</b> , 44, 290-303	17.6	191
171	Dysregulated metabolism contributes to oncogenesis. <i>Seminars in Cancer Biology</i> , <b>2015</b> , 35 Suppl, S129-S150	15.0	189
170	Regional glutamine deficiency in tumours promotes dedifferentiation through inhibition of histone demethylation. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 1090-101	23.4	186
169	Designing a broad-spectrum integrative approach for cancer prevention and treatment. <i>Seminars in Cancer Biology</i> , <b>2015</b> , 35 Suppl, S276-S304	12.7	179
168	One-carbon metabolism and epigenetics: understanding the specificity. <i>Annals of the New York Academy of Sciences</i> , <b>2016</b> , 1363, 91-8	6.5	177
167	Mitophagy defects arising from BNip3 loss promote mammary tumor progression to metastasis. <i>EMBO Reports</i> , <b>2015</b> , 16, 1145-63	6.5	169
166	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4320-5	11.5	169
165	Metabolomics: A Primer. <i>Trends in Biochemical Sciences</i> , <b>2017</b> , 42, 274-284	10.3	167
164	Metformin Targets Central Carbon Metabolism and Reveals Mitochondrial Requirements in Human Cancers. <i>Cell Metabolism</i> , <b>2016</b> , 24, 728-739	24.6	152
163	Metabolic regulation of protein N-alpha-acetylation by Bcl-xL promotes cell survival. <i>Cell</i> , <b>2011</b> , 146, 607-20	56.2	149
162	Metabolic landscape of the tumor microenvironment at single cell resolution. <i>Nature Communications</i> , <b>2019</b> , 10, 3763	17.4	147

161	Quantitative determinants of aerobic glycolysis identify flux through the enzyme GAPDH as a limiting step. <i>ELife</i> , <b>2014</b> , 3,	8.9	142
160	The metabolic co-regulator PGC1 $\beta$ suppresses prostate cancer metastasis. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 645-656	23.4	140
159	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. <i>Cell Metabolism</i> , <b>2016</b> , 23, 649-62	24.6	138
158	Development and quantitative evaluation of a high-resolution metabolomics technology. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2175-84	7.8	135
157	Acetate Production from Glucose and Coupling to Mitochondrial Metabolism in Mammals. <i>Cell</i> , <b>2018</b> , 175, 502-513.e13	56.2	134
156	Effective breast cancer combination therapy targeting BACH1 and mitochondrial metabolism. <i>Nature</i> , <b>2019</b> , 568, 254-258	50.4	131
155	Ubiquitination of K-Ras enhances activation and facilitates binding to select downstream effectors. <i>Science Signaling</i> , <b>2011</b> , 4, ra13	8.8	127
154	Methionine metabolism in health and cancer: a nexus of diet and precision medicine. <i>Nature Reviews Cancer</i> , <b>2019</b> , 19, 625-637	31.3	120
153	Fibroblasts Mobilize Tumor Cell Glycogen to Promote Proliferation and Metastasis. <i>Cell Metabolism</i> , <b>2019</b> , 29, 141-155.e9	24.6	117
152	Paracrine Wnt5a- $\beta$ Catenin Signaling Triggers a Metabolic Program that Drives Dendritic Cell Tolerization. <i>Immunity</i> , <b>2018</b> , 48, 147-160.e7	32.3	116
151	The Nucleotide Sensor ZBP1 and Kinase RIPK3 Induce the Enzyme IRG1 to Promote an Antiviral Metabolic State in Neurons. <i>Immunity</i> , <b>2019</b> , 50, 64-76.e4	32.3	114
150	Gain of glucose-independent growth upon metastasis of breast cancer cells to the brain. <i>Cancer Research</i> , <b>2015</b> , 75, 554-65	10.1	102
149	A Predictive Model for Selective Targeting of the Warburg Effect through GAPDH Inhibition with a Natural Product. <i>Cell Metabolism</i> , <b>2017</b> , 26, 648-659.e8	24.6	102
148	Altered metabolism in cancer. <i>BMC Biology</i> , <b>2010</b> , 8, 88	7.3	102
147	Sel1L is indispensable for mammalian endoplasmic reticulum-associated degradation, endoplasmic reticulum homeostasis, and survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E582-91	11.5	101
146	Serine Availability Influences Mitochondrial Dynamics and Function through Lipid Metabolism. <i>Cell Reports</i> , <b>2018</b> , 22, 3507-3520	10.6	100
145	Proteomic and Biochemical Studies of Lysine Malonylation Suggest Its Malonic Aciduria-associated Regulatory Role in Mitochondrial Function and Fatty Acid Oxidation. <i>Molecular and Cellular Proteomics</i> , <b>2015</b> , 14, 3056-71	7.6	97
144	Characterization of the usage of the serine metabolic network in human cancer. <i>Cell Reports</i> , <b>2014</b> , 9, 1507-19	10.6	94

143	PHGDH amplification and altered glucose metabolism in human melanoma. <i>Pigment Cell and Melanoma Research</i> , <b>2011</b> , 24, 1112-5	4.5	94
142	Purine synthesis promotes maintenance of brain tumor initiating cells in glioma. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 661-673	25.5	93
141	Metabolic plasticity of metastatic breast cancer cells: adaptation to changes in the microenvironment. <i>Neoplasia</i> , <b>2015</b> , 17, 671-84	6.4	86
140	The rate of glycolysis quantitatively mediates specific histone acetylation sites. <i>Cancer &amp; Metabolism</i> , <b>2015</b> , 3, 10	5.4	85
139	ERR $\beta$ Regulated Lactate Metabolism Contributes to Resistance to Targeted Therapies in Breast Cancer. <i>Cell Reports</i> , <b>2016</b> , 15, 323-35	10.6	83
138	mTOR coordinates transcriptional programs and mitochondrial metabolism of activated T subsets to protect tissue homeostasis. <i>Nature Communications</i> , <b>2018</b> , 9, 2095	17.4	83
137	A Genome-wide Haploid Genetic Screen Identifies Regulators of Glutathione Abundance and Ferroptosis Sensitivity. <i>Cell Reports</i> , <b>2019</b> , 26, 1544-1556.e8	10.6	82
136	Transcriptional diversity and bioenergetic shift in human breast cancer metastasis revealed by single-cell RNA sequencing. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 310-320	23.4	81
135	The evolving metabolic landscape of chromatin biology and epigenetics. <i>Nature Reviews Genetics</i> , <b>2020</b> , 21, 737-753	30.1	79
134	Correction for Sun et al., Sel1L is indispensable for mammalian endoplasmic reticulum-associated degradation, endoplasmic reticulum homeostasis, and survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 6115-6115	11.5	78
133	Disturbed mitochondrial dynamics in CD8 TILs reinforce T cell exhaustion. <i>Nature Immunology</i> , <b>2020</b> , 21, 1540-1551	19.1	78
132	Rational Design of Selective Allosteric Inhibitors of PHGDH and Serine Synthesis with Anti-tumor Activity. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 55-65	8.2	77
131	The stimulatory potency of T cell antigens is influenced by the formation of the immunological synapse. <i>Immunity</i> , <b>2007</b> , 26, 345-55	32.3	75
130	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , <b>2015</b> , 356, 309-14	9.9	73
129	Serine synthesis through PHGDH coordinates nucleotide levels by maintaining central carbon metabolism. <i>Nature Communications</i> , <b>2018</b> , 9, 5442	17.4	73
128	Metabolomics of human cerebrospinal fluid identifies signatures of malignant glioma. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, M111.014688	7.6	70
127	Antigen receptor control of methionine metabolism in T cells. <i>ELife</i> , <b>2019</b> , 8,	8.9	70
126	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 46-52	17.6	68

125	High-Resolution Metabolomics with Acyl-CoA Profiling Reveals Widespread Remodeling in Response to Diet. <i>Molecular and Cellular Proteomics</i> , <b>2015</b> , 14, 1489-500	7.6	68
124	p300-Mediated Lysine 2-Hydroxyisobutyrylation Regulates Glycolysis. <i>Molecular Cell</i> , <b>2018</b> , 70, 663-678.e6	6.6	63
123	Scaffold proteins confer diverse regulatory properties to protein kinase cascades. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 13307-12	11.5	62
122	MiR-135 suppresses glycolysis and promotes pancreatic cancer cell adaptation to metabolic stress by targeting phosphofructokinase-1. <i>Nature Communications</i> , <b>2019</b> , 10, 809	17.4	61
121	Nicotinamide mononucleotide requires SIRT3 to improve cardiac function and bioenergetics in a Friedreich@ ataxia cardiomyopathy model. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	60
120	Extraction parameters for metabolomics from cultured cells. <i>Analytical Biochemistry</i> , <b>2015</b> , 475, 22-8	3.1	60
119	Methionine metabolism influences genomic architecture and gene expression through H3K4me3 peak width. <i>Nature Communications</i> , <b>2018</b> , 9, 1955	17.4	60
118	Interactions between epigenetics and metabolism in cancers. <i>Frontiers in Oncology</i> , <b>2012</b> , 2, 163	5.3	59
117	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. <i>Nature Immunology</i> , <b>2019</b> , 20, 1186-1195	19.1	57
116	Myeloid -Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. <i>Journal of Immunology</i> , <b>2019</b> , 202, 1265-1286	5.3	55
115	Metabolomics in cancer research and emerging applications in clinical oncology. <i>Ca-A Cancer Journal for Clinicians</i> , <b>2021</b> , 71, 333-358	220.7	55
114	Bacteria Boost Mammalian Host NAD Metabolism by Engaging the Deamidated Biosynthesis Pathway. <i>Cell Metabolism</i> , <b>2020</b> , 31, 564-579.e7	24.6	54
113	Adaptive changes in amino acid metabolism permit normal longevity in mice consuming a low-carbohydrate ketogenic diet. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2015</b> , 1852, 2056-65	6.9	53
112	Impaired enolase 1 glycolytic activity restrains effector functions of tumor-infiltrating CD8 T cells. <i>Science Immunology</i> , <b>2019</b> , 4,	2.8	52
111	Acetate Metabolism in Physiology, Cancer, and Beyond. <i>Trends in Cell Biology</i> , <b>2019</b> , 29, 695-703	18.3	48
110	Sirtuin 5 is required for mouse survival in response to cardiac pressure overload. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19767-19781	5.4	47
109	Understanding metabolism with flux analysis: From theory to application. <i>Metabolic Engineering</i> , <b>2017</b> , 43, 94-102	9.7	47
108	Sheath Cell Invasion and Trans-differentiation Repair Mechanical Damage Caused by Loss of Caveolae in the Zebrafish Notochord. <i>Current Biology</i> , <b>2017</b> , 27, 1982-1989.e3	6.3	46

107	Melanoma Therapeutic Strategies that Select against Resistance by Exploiting MYC-Driven Evolutionary Convergence. <i>Cell Reports</i> , <b>2017</b> , 21, 2796-2812	10.6	46
106	Autophagy-dependent metabolic reprogramming sensitizes TSC2-deficient cells to the antimetabolite 6-aminonicotinamide. <i>Molecular Cancer Research</i> , <b>2014</b> , 12, 48-57	6.6	42
105	NRF2 activation promotes the recurrence of dormant tumour cells through regulation of redox and nucleotide metabolism. <i>Nature Metabolism</i> , <b>2020</b> , 2, 318-334	14.6	40
104	Methionine metabolism is essential for SIRT1-regulated mouse embryonic stem cell maintenance and embryonic development. <i>EMBO Journal</i> , <b>2017</b> , 36, 3175-3193	13	39
103	Glucose transporter 1-mediated glucose uptake is limiting for B-cell acute lymphoblastic leukemia anabolic metabolism and resistance to apoptosis. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1470	9.8	39
102	Signatures of protein-DNA recognition in free DNA binding sites. <i>Journal of Molecular Biology</i> , <b>2009</b> , 386, 1054-65	6.5	37
101	Short term methionine restriction increases hepatic global DNA methylation in adult but not young male C57BL/6J mice. <i>Experimental Gerontology</i> , <b>2017</b> , 88, 1-8	4.5	34
100	Epigenetic Switch-Induced Viral Mimicry Evasion in Chemotherapy-Resistant Breast Cancer. <i>Cancer Discovery</i> , <b>2020</b> , 10, 1312-1329	24.4	34
99	The Lipid Kinase PI5P4Ks an Intracellular GTP Sensor for Metabolism and Tumorigenesis. <i>Molecular Cell</i> , <b>2016</b> , 61, 187-98	17.6	34
98	Loss of pyruvate kinase M2 limits growth and triggers innate immune signaling in endothelial cells. <i>Nature Communications</i> , <b>2018</b> , 9, 4077	17.4	34
97	IKK $\beta$ promotes metabolic adaptation to glutamine deprivation via phosphorylation and inhibition of PFKFB3. <i>Genes and Development</i> , <b>2016</b> , 30, 1837-51	12.6	33
96	SPHK1 Is a Novel Target of Metformin in Ovarian Cancer. <i>Molecular Cancer Research</i> , <b>2019</b> , 17, 870-881	6.6	32
95	Human pluripotent stem cells decouple respiration from energy production. <i>EMBO Journal</i> , <b>2011</b> , 30, 4851-2	13	32
94	FOXO protects against age-progressive axonal degeneration. <i>Aging Cell</i> , <b>2018</b> , 17, e12701	9.9	31
93	Heterogeneity of glycolysis in cancers and therapeutic opportunities. <i>Biochemical Pharmacology</i> , <b>2014</b> , 92, 12-21	6	30
92	A Flux Balance of Glucose Metabolism Clarifies the Requirements of the Warburg Effect. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1088-100	2.9	30
91	IDH3 $\beta$ regulates one-carbon metabolism in glioblastoma. <i>Science Advances</i> , <b>2019</b> , 5, eaat0456	14.3	30
90	A metabolic signature of colon cancer initiating cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4759-62	0.9	29

89	Integrative modelling of tumour DNA methylation quantifies the contribution of metabolism. <i>Nature Communications</i> , <b>2016</b> , 7, 13666	17.4	29
88	Metabolic interactions with cancer epigenetics. <i>Molecular Aspects of Medicine</i> , <b>2017</b> , 54, 50-57	16.7	28
87	Glucose Metabolism in Cancer: The Saga of Pyruvate Kinase Continues. <i>Cancer Cell</i> , <b>2018</b> , 33, 337-339	24.3	26
86	Revisiting the Warburg Effect: Some Tumors Hold Their Breath. <i>Cell Metabolism</i> , <b>2018</b> , 28, 669-670	24.6	26
85	A fundamental trade-off in covalent switching and its circumvention by enzyme bifunctionality in glucose homeostasis. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 13010-25	5.4	25
84	Using antagonistic pleiotropy to design a chemotherapy-induced evolutionary trap to target drug resistance in cancer. <i>Nature Genetics</i> , <b>2020</b> , 52, 408-417	36.3	23
83	Organization of enzyme concentration across the metabolic network in cancer cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0117131	3.7	23
82	Targeting One Carbon Metabolism with an Antimetabolite Disrupts Pyrimidine Homeostasis and Induces Nucleotide Overflow. <i>Cell Reports</i> , <b>2016</b> , 15, 2367-76	10.6	23
81	The Molecular Link from Diet to Cancer Cell Metabolism. <i>Molecular Cell</i> , <b>2020</b> , 78, 1034-1044	17.6	22
80	Maximum entropy reconstructions of dynamic signaling networks from quantitative proteomics data. <i>PLoS ONE</i> , <b>2009</b> , 4, e6522	3.7	22
79	Inhibition of ERK1 Prevents Mitochondrial Pyruvate Uptake Exposing NADPH-Generating Pathways as Targetable Vulnerabilities in Breast Cancer. <i>Cell Reports</i> , <b>2019</b> , 27, 3587-3601.e4	10.6	20
78	A strategy for sensitive, large scale quantitative metabolomics. <i>Journal of Visualized Experiments</i> , <b>2014</b> ,	1.6	20
77	Maximizing the efficacy of angiogenesis inhibitors. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, 337-8; author reply 338-9	2.2	20
76	Quantitative Analysis of the Physiological Contributions of Glucose to the TCA Cycle. <i>Cell Metabolism</i> , <b>2020</b> , 32, 619-628.e21	24.6	20
75	New concepts in feedback regulation of glucose metabolism. <i>Current Opinion in Systems Biology</i> , <b>2018</b> , 8, 32-38	3.2	19
74	Regulation of signal duration and the statistical dynamics of kinase activation by scaffold proteins. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000099	5	18
73	Ablation of in the postnatal mouse heart results in protein succinylation and normal survival in response to chronic pressure overload. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 10630-10645	5.4	18
72	Histone Lactylation: A New Role for Glucose Metabolism. <i>Trends in Biochemical Sciences</i> , <b>2020</b> , 45, 179-182.3	2.3	17



71	The consequences of enhanced cell-autonomous glucose metabolism. <i>Trends in Endocrinology and Metabolism</i> , <b>2012</b> , 23, 545-51	8.8	15
70	HNF4 $\alpha$ regulates sulfur amino acid metabolism and confers sensitivity to methionine restriction in liver cancer. <i>Nature Communications</i> , <b>2020</b> , 11, 3978	17.4	15
69	Lin28a Regulates Pathological Cardiac Hypertrophic Growth Through Pck2-Mediated Enhancement of Anabolic Synthesis. <i>Circulation</i> , <b>2019</b> , 139, 1725-1740	16.7	15
68	RRmix: A method for simultaneous batch effect correction and analysis of metabolomics data in the absence of internal standards. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179530	3.7	14
67	Exercise inhibits tumor growth and central carbon metabolism in patient-derived xenograft models of colorectal cancer. <i>Cancer &amp; Metabolism</i> , <b>2018</b> , 6, 14	5.4	14
66	Downregulation of hepatic betaine:homocysteine methyltransferase (BHMT) expression in taurine-deficient mice is reversed by taurine supplementation in vivo. <i>Amino Acids</i> , <b>2016</b> , 48, 665-676	3.5	13
65	Differential response to exercise in claudin-low breast cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 100989-101004	3.3	13
64	Identification of BBOX1 as a Therapeutic Target in Triple-Negative Breast Cancer. <i>Cancer Discovery</i> , <b>2020</b> , 10, 1706-1721	24.4	13
63	Metabolism in the tumor microenvironment: insights from single-cell analysis. <i>Oncotarget</i> , <b>2020</b> , 9, 1726556	7.2	12
62	Nutrient availability shapes methionine metabolism in p16/-deleted cells. <i>Science Advances</i> , <b>2019</b> , 5, eaav4769	17.69	12
61	A robust and efficient method for estimating enzyme complex abundance and metabolic flux from expression data. <i>Computational Biology and Chemistry</i> , <b>2015</b> , 59 Pt B, 98-112	3.6	12
60	Dynamic C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. <i>iScience</i> , <b>2020</b> , 23, 100855	6.1	11
59	Molecular features that predict the response to antimetabolite chemotherapies. <i>Cancer &amp; Metabolism</i> , <b>2017</b> , 5, 8	5.4	11
58	Computational approaches for understanding energy metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2013</b> , 5, 733-50	6.6	11
57	Estimating relative changes of metabolic fluxes. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003958	5	11
56	Signal duration and the time scale dependence of signal integration in biochemical pathways. <i>BMC Systems Biology</i> , <b>2008</b> , 2, 108	3.5	11
55	Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer. <i>Nature Communications</i> , <b>2019</b> , 10, 5177	17.4	11
54	Pentose conversions support the tumorigenesis of pancreatic cancer distant metastases. <i>Oncogene</i> , <b>2018</b> , 37, 5248-5256	9.2	11

53	Discovery of a Potent GLUT Inhibitor from a Library of Rapafucins by Using 3D Microarrays. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 17158-17162	16.4	10
52	Thermodynamic constraints on the regulation of metabolic fluxes. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 19725-19739	5.4	10
51	Metabolic pattern formation in the tumor microenvironment. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 915	12.2	9
50	Serine and Methionine Metabolism: Vulnerabilities in Lethal Prostate Cancer. <i>Cancer Cell</i> , <b>2019</b> , 35, 339-343	11.3	9
49	Metabolism: A new layer of glycolysis. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 577-8	11.7	9
48	Allovalency revisited: an analysis of multisite phosphorylation and substrate rebinding. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 115106	3.9	9
47	Tumor-induced reshuffling of lipid composition on the endoplasmic reticulum membrane sustains macrophage survival and pro-tumorigenic activity. <i>Nature Immunology</i> , <b>2021</b> , 22, 1403-1415	19.1	9
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