

Jason W Locasale

List of Publications by Year in descending order

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198
papers

29,244
citations

5896

81
h-index

5829

161
g-index

236
all docs

236
docs citations

236
times ranked

40096
citing authors

#	ARTICLE	IF	CITATIONS
1	The Warburg Effect: How Does it Benefit Cancer Cells?. Trends in Biochemical Sciences, 2016, 41, 211-218.	7.5	3,019
2	Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. Cell, 2012, 149, 656-670.	28.9	1,587
3	Serine, glycine and one-carbon units: cancer metabolism in full circle. Nature Reviews Cancer, 2013, 13, 572-583.	28.4	1,221
4	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. Cell, 2015, 162, 1217-1228.	28.9	1,044
5	Inhibition of Pyruvate Kinase M2 by Reactive Oxygen Species Contributes to Cellular Antioxidant Responses. Science, 2011, 334, 1278-1283.	12.6	984
6	Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. Nature Genetics, 2011, 43, 869-874.	21.4	945
7	Evidence for an Alternative Glycolytic Pathway in Rapidly Proliferating Cells. Science, 2010, 329, 1492-1499.	12.6	586
8	Metabolic programming and PDHK1 control CD4+ T cell subsets and inflammation. Journal of Clinical Investigation, 2015, 125, 194-207.	8.2	562
9	Influence of Threonine Metabolism on <i>S</i> -Adenosylmethionine and Histone Methylation. Science, 2013, 339, 222-226.	12.6	555
10	A roadmap for interpreting ¹³ C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	6.6	513
11	Histone Methylation Dynamics and Gene Regulation Occur through the Sensing of One-Carbon Metabolism. Cell Metabolism, 2015, 22, 861-873.	16.2	481
12	Glutamine Metabolism in Cancer: Understanding the Heterogeneity. Trends in Cancer, 2017, 3, 169-180.	7.4	472
13	Distinct Regulation of Th17 and Th1 Cell Differentiation by Glutaminase-Dependent Metabolism. Cell, 2018, 175, 1780-1795.e19.	28.9	445
14	Dietary methionine influences therapy in mouse cancer models and alters human metabolism. Nature, 2019, 572, 397-401.	27.8	422
15	Foxp3 and Toll-like receptor signaling balance Treg cell anabolic metabolism for suppression. Nature Immunology, 2016, 17, 1459-1466.	14.5	402
16	Heterogeneity of tumor-induced gene expression changes in the human metabolic network. Nature Biotechnology, 2013, 31, 522-529.	17.5	381
17	Metabolic Flux and the Regulation of Mammalian Cell Growth. Cell Metabolism, 2011, 14, 443-451.	16.2	371
18	The impact of cellular metabolism on chromatin dynamics and epigenetics. Nature Cell Biology, 2017, 19, 1298-1306.	10.3	369

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19	Epigenomic reprogramming during pancreatic cancer progression links anabolic glucose metabolism to distant metastasis. <i>Nature Genetics</i> , 2017, 49, 367-376.	21.4	365
20	T cell stemness and dysfunction in tumors are triggered by a common mechanism. <i>Science</i> , 2019, 363, .	12.6	355
21	Cancer-cell-secreted exosomal miR-105 promotes tumour growth through the MYC-dependent metabolic reprogramming of stromal cells. <i>Nature Cell Biology</i> , 2018, 20, 597-609.	10.3	306
22	Regional glutamine deficiency in tumours promotes dedifferentiation through inhibition of histone demethylation. <i>Nature Cell Biology</i> , 2016, 18, 1090-1101.	10.3	291
23	Metabolic landscape of the tumor microenvironment at single cell resolution. <i>Nature Communications</i> , 2019, 10, 3763.	12.8	290
24	One-carbon metabolism and epigenetics: understanding the specificity. <i>Annals of the New York Academy of Sciences</i> , 2016, 1363, 91-98.	3.8	289
25	mTORC1 and mTORC2 Kinase Signaling and Glucose Metabolism Drive Follicular Helper T Cell Differentiation. <i>Immunity</i> , 2016, 45, 540-554.	14.3	283
26	Methionine metabolism in health and cancer: a nexus of diet and precision medicine. <i>Nature Reviews Cancer</i> , 2019, 19, 625-637.	28.4	278
27	Metabolomics: A Primer. <i>Trends in Biochemical Sciences</i> , 2017, 42, 274-284.	7.5	273
28	Acetate Production from Glucose and Coupling to Mitochondrial Metabolism in Mammals. <i>Cell</i> , 2018, 175, 502-513.e13.	28.9	269
29	Metabolomics in cancer research and emerging applications in clinical oncology. <i>Ca-A Cancer Journal for Clinicians</i> , 2021, 71, 333-358.	329.8	267
30	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> , 2016, 113, 4320-4325.	7.1	263
31	The evolving metabolic landscape of chromatin biology and epigenetics. <i>Nature Reviews Genetics</i> , 2020, 21, 737-753.	16.3	255
32	Metabolic Pathway Alterations that Support Cell Proliferation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 325-334.	1.1	252
33	Disturbed mitochondrial dynamics in CD8+ TILs reinforce T cell exhaustion. <i>Nature Immunology</i> , 2020, 21, 1540-1551.	14.5	252
34	Extensive phosphorylation with overlapping specificity by <i>Mycobacterium tuberculosis</i> serine/threonine protein kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7521-7526.	7.1	245
35	Effective breast cancer combination therapy targeting BACH1 and mitochondrial metabolism. <i>Nature</i> , 2019, 568, 254-258.	27.8	233
36	Mitophagy defects arising from BNip3 loss promote mammary tumor progression to metastasis. <i>EMBO Reports</i> , 2015, 16, 1145-1163.	4.5	232

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37	Dysregulated metabolism contributes to oncogenesis. <i>Seminars in Cancer Biology</i> , 2015, 35, S129-S150.	9.6	225
38	Quantitative determinants of aerobic glycolysis identify flux through the enzyme GAPDH as a limiting step. <i>ELife</i> , 2014, 3, .	6.0	222
39	Designing a broad-spectrum integrative approach for cancer prevention and treatment. <i>Seminars in Cancer Biology</i> , 2015, 35, S276-S304.	9.6	220
40	The Nucleotide Sensor ZBP1 and Kinase RIPK3 Induce the Enzyme IRG1 to Promote an Antiviral Metabolic State in Neurons. <i>Immunity</i> , 2019, 50, 64-76.e4.	14.3	214
41	mTOR Drives Its Own Activation via SCF ^{β2TrCP} -Dependent Degradation of the mTOR Inhibitor DEPTOR. <i>Molecular Cell</i> , 2011, 44, 290-303.	9.7	212
42	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. <i>Cell Metabolism</i> , 2016, 23, 649-662.	16.2	195
43	Metformin Targets Central Carbon Metabolism and Reveals Mitochondrial Requirements in Human Cancers. <i>Cell Metabolism</i> , 2016, 24, 728-739.	16.2	192
44	Fibroblasts Mobilize Tumor Cell Glycogen to Promote Proliferation and Metastasis. <i>Cell Metabolism</i> , 2019, 29, 141-155.e9.	16.2	192
45	Transcriptional diversity and bioenergetic shift in human breast cancer metastasis revealed by single-cell RNA sequencing. <i>Nature Cell Biology</i> , 2020, 22, 310-320.	10.3	189
46	Metabolic Regulation of Protein N-Alpha-Acetylation by Bcl-xL Promotes Cell Survival. <i>Cell</i> , 2011, 146, 607-620.	28.9	185
47	Paracrine Wnt5a-β2-Catenin Signaling Triggers a Metabolic Program that Drives Dendritic Cell Tolerization. <i>Immunity</i> , 2018, 48, 147-160.e7.	14.3	185
48	The metabolic co-regulator PGC1β suppresses prostate cancer metastasis. <i>Nature Cell Biology</i> , 2016, 18, 645-656.	10.3	176
49	Serine Availability Influences Mitochondrial Dynamics and Function through Lipid Metabolism. <i>Cell Reports</i> , 2018, 22, 3507-3520.	6.4	170
50	Development and Quantitative Evaluation of a High-Resolution Metabolomics Technology. <i>Analytical Chemistry</i> , 2014, 86, 2175-2184.	6.5	164
51	A Predictive Model for Selective Targeting of the Warburg Effect through GAPDH Inhibition with a Natural Product. <i>Cell Metabolism</i> , 2017, 26, 648-659.e8.	16.2	154
52	Purine synthesis promotes maintenance of brain tumor initiating cells in glioma. <i>Nature Neuroscience</i> , 2017, 20, 661-673.	14.8	153
53	Ubiquitination of K-Ras Enhances Activation and Facilitates Binding to Select Downstream Effectors. <i>Science Signaling</i> , 2011, 4, ra13.	3.6	152
54	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> , 2014, 111, E582-91.	7.1	148

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55	A Genome-wide Haploid Genetic Screen Identifies Regulators of Glutathione Abundance and Ferroptosis Sensitivity. <i>Cell Reports</i> , 2019, 26, 1544-1556.e8.	6.4	146
56	Altered metabolism in cancer. <i>BMC Biology</i> , 2010, 8, 88.	3.8	144
57	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> , 2015, 14, 3056-3071.	3.8	143
58	Serine synthesis through PHGDH coordinates nucleotide levels by maintaining central carbon metabolism. <i>Nature Communications</i> , 2018, 9, 5442.	12.8	143
59	Characterization of the Usage of the Serine Metabolic Network in Human Cancer. <i>Cell Reports</i> , 2014, 9, 1507-1519.	6.4	136
60	Gain of Glucose-Independent Growth upon Metastasis of Breast Cancer Cells to the Brain. <i>Cancer Research</i> , 2015, 75, 554-565.	0.9	133
61	mTOR coordinates transcriptional programs and mitochondrial metabolism of activated Treg subsets to protect tissue homeostasis. <i>Nature Communications</i> , 2018, 9, 2095.	12.8	133
62	Antigen receptor control of methionine metabolism in T cells. <i>ELife</i> , 2019, 8, .	6.0	132
63	Bacteria Boost Mammalian Host NAD Metabolism by Engaging the Deamidated Biosynthesis Pathway. <i>Cell Metabolism</i> , 2020, 31, 564-579.e7.	16.2	130
64	p300-Mediated Lysine 2-Hydroxyisobutyrylation Regulates Glycolysis. <i>Molecular Cell</i> , 2018, 70, 663-678.e6.	9.7	126
65	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. <i>Nature Immunology</i> , 2019, 20, 1186-1195.	14.5	126
66	Acetate Metabolism in Physiology, Cancer, and Beyond. <i>Trends in Cell Biology</i> , 2019, 29, 695-703.	7.9	122
67	The rate of glycolysis quantitatively mediates specific histone acetylation sites. <i>Cancer & Metabolism</i> , 2015, 3, 10.	5.0	121
68	Metabolic Plasticity of Metastatic Breast Cancer Cells: Adaptation to Changes in the Microenvironment. <i>Neoplasia</i> , 2015, 17, 671-684.	5.3	115
69	PHGDH amplification and altered glucose metabolism in human melanoma. <i>Pigment Cell and Melanoma Research</i> , 2011, 24, 1112-1115.	3.3	114
70	ERR α -Regulated Lactate Metabolism Contributes to Resistance to Targeted Therapies in Breast Cancer. <i>Cell Reports</i> , 2016, 15, 323-335.	6.4	113
71	NRF2 activation promotes the recurrence of dormant tumour cells through regulation of redox and nucleotide metabolism. <i>Nature Metabolism</i> , 2020, 2, 318-334.	11.9	106
72	Myeloid Slc2a1-Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. <i>Journal of Immunology</i> , 2019, 202, 1265-1286.	0.8	104

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73	Rational Design of Selective Allosteric Inhibitors of PHGDH and Serine Synthesis with Anti-tumor Activity. <i>Cell Chemical Biology</i> , 2017, 24, 55-65.	5.2	102
74	Nicotinamide mononucleotide requires SIRT3 to improve cardiac function and bioenergetics in a Friedreich's ataxia cardiomyopathy model. <i>JCI Insight</i> , 2017, 2, .	5.0	96
75	Methionine metabolism influences genomic architecture and gene expression through H3K4me3 peak width. <i>Nature Communications</i> , 2018, 9, 1955.	12.8	96
76	MiR-135 suppresses glycolysis and promotes pancreatic cancer cell adaptation to metabolic stress by targeting phosphofructokinase-1. <i>Nature Communications</i> , 2019, 10, 809.	12.8	96
77	High-Resolution Metabolomics with Acyl-CoA Profiling Reveals Widespread Remodeling in Response to Diet*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1489-1500.	3.8	95
78	Impaired enolase 1 glycolytic activity restrains effector functions of tumor-infiltrating CD8 ⁺ T cells. <i>Science Immunology</i> , 2019, 4, .	11.9	95
79	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , 2015, 356, 309-314.	7.2	90
80	Metabolomics of Human Cerebrospinal Fluid Identifies Signatures of Malignant Glioma. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014688.	3.8	89
81	Epigenetic Switch Induced Viral Mimicry Evasion in Chemotherapy-Resistant Breast Cancer. <i>Cancer Discovery</i> , 2020, 10, 1312-1329.	9.4	84
82	The Stimulatory Potency of T Cell Antigens Is Influenced by the Formation of the Immunological Synapse. <i>Immunity</i> , 2007, 26, 345-355.	14.3	83
83	Sheath Cell Invasion and Trans-differentiation Repair Mechanical Damage Caused by Loss of Caveolae in the Zebrafish Notochord. <i>Current Biology</i> , 2017, 27, 1982-1989.e3.	3.9	83
84	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 46-52.	8.2	80
85	Sirtuin 5 is required for mouse survival in response to cardiac pressure overload. <i>Journal of Biological Chemistry</i> , 2017, 292, 19767-19781.	3.4	79
86	Melanoma Therapeutic Strategies that Select against Resistance by Exploiting MYC-Driven Evolutionary Convergence. <i>Cell Reports</i> , 2017, 21, 2796-2812.	6.4	77
87	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> , 2015, 1852, 2056-2065.	3.8	75
88	Understanding metabolism with flux analysis: From theory to application. <i>Metabolic Engineering</i> , 2017, 43, 94-102.	7.0	73
89	HNF4 α regulates sulfur amino acid metabolism and confers sensitivity to methionine restriction in liver cancer. <i>Nature Communications</i> , 2020, 11, 3978.	12.8	73
90	Tumor-induced reshuffling of lipid composition on the endoplasmic reticulum membrane sustains macrophage survival and pro-tumorigenic activity. <i>Nature Immunology</i> , 2021, 22, 1403-1415.	14.5	72

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91	Extraction parameters for metabolomics from cultured cells. <i>Analytical Biochemistry</i> , 2015, 475, 22-28.	2.4	71
92	Methionine metabolism is essential for <sc>SIRT</sc> 1-regulated mouse embryonic stem cell maintenance and embryonic development. <i>EMBO Journal</i> , 2017, 36, 3175-3193.	7.8	71
93	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> , 2007, 104, 13307-13312.	7.1	67
94	Interactions between epigenetics and metabolism in cancers. <i>Frontiers in Oncology</i> , 2012, 2, 163.	2.8	67
95	The Lipid Kinase PI5P4K ² Is an Intracellular GTP Sensor for Metabolism and Tumorigenesis. <i>Molecular Cell</i> , 2016, 61, 187-198.	9.7	62
96	Histone Lactylation: A New Role for Glucose Metabolism. <i>Trends in Biochemical Sciences</i> , 2020, 45, 179-182.	7.5	62
97	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> , 2014, 5, e1470-e1470.	6.3	59
98	IDH3 ¹ regulates one-carbon metabolism in glioblastoma. <i>Science Advances</i> , 2019, 5, eaat0456.	10.3	59
99	Loss of pyruvate kinase M2 limits growth and triggers innate immune signaling in endothelial cells. <i>Nature Communications</i> , 2018, 9, 4077.	12.8	55
100	Autophagy-Dependent Metabolic Reprogramming Sensitizes TSC2-Deficient Cells to the Antimetabolite 6-Aminonicotinamide. <i>Molecular Cancer Research</i> , 2014, 12, 48-57.	3.4	52
101	<sc>FOXO</sc> protects against age-associated progressive axonal degeneration. <i>Aging Cell</i> , 2018, 17, e12701.	6.7	52
102	Revisiting the Warburg Effect: Some Tumors Hold Their Breath. <i>Cell Metabolism</i> , 2018, 28, 669-670.	16.2	52
103	The Molecular Link from Diet to Cancer Cell Metabolism. <i>Molecular Cell</i> , 2020, 78, 1034-1044.	9.7	52
104	SPHK1 Is a Novel Target of Metformin in Ovarian Cancer. <i>Molecular Cancer Research</i> , 2019, 17, 870-881.	3.4	50
105	Using antagonistic pleiotropy to design a chemotherapy-induced evolutionary trap to target drug resistance in cancer. <i>Nature Genetics</i> , 2020, 52, 408-417.	21.4	47
106	IKK ² promotes metabolic adaptation to glutamine deprivation via phosphorylation and inhibition of PFKFB3. <i>Genes and Development</i> , 2016, 30, 1837-1851.	5.9	45
107	Cancer's insatiable appetite. <i>Nature Biotechnology</i> , 2009, 27, 916-917.	17.5	44
108	Heterogeneity of glycolysis in cancers and therapeutic opportunities. <i>Biochemical Pharmacology</i> , 2014, 92, 12-21.	4.4	44

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109	Short term methionine restriction increases hepatic global DNA methylation in adult but not young male C57BL/6J mice. <i>Experimental Gerontology</i> , 2017, 88, 1-8.	2.8	43
110	A Flux Balance of Glucose Metabolism Clarifies the Requirements of the Warburg Effect. <i>Biophysical Journal</i> , 2016, 111, 1088-1100.	0.5	42
111	Signatures of Protein-DNA Recognition in Free DNA Binding Sites. <i>Journal of Molecular Biology</i> , 2009, 386, 1054-1065.	4.2	40
112	Metabolic interactions with cancer epigenetics. <i>Molecular Aspects of Medicine</i> , 2017, 54, 50-57.	6.4	40
113	Glucose Metabolism in Cancer: The Saga of Pyruvate Kinase Continues. <i>Cancer Cell</i> , 2018, 33, 337-339.	16.8	39
114	Integrative modelling of tumour DNA methylation quantifies the contribution of metabolism. <i>Nature Communications</i> , 2016, 7, 13666.	12.8	37
115	Human pluripotent stem cells decouple respiration from energy production. <i>EMBO Journal</i> , 2011, 30, 4851-4852.	7.8	36
116	Quantitative Analysis of the Physiological Contributions of Glucose to the TCA Cycle. <i>Cell Metabolism</i> , 2020, 32, 619-628.e21.	16.2	36
117	Organization of Enzyme Concentration across the Metabolic Network in Cancer Cells. <i>PLoS ONE</i> , 2015, 10, e0117131.	2.5	35
118	Identification of BBOX1 as a Therapeutic Target in Triple-Negative Breast Cancer. <i>Cancer Discovery</i> , 2020, 10, 1706-1721.	9.4	35
119	SUCLA2 mutations cause global protein succinylation contributing to the pathomechanism of a hereditary mitochondrial disease. <i>Nature Communications</i> , 2020, 11, 5927.	12.8	35
120	A glutaminase isoform switch drives therapeutic resistance and disease progression of prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	34
121	A Fundamental Trade-off in Covalent Switching and Its Circumvention by Enzyme Bifunctionality in Glucose Homeostasis. <i>Journal of Biological Chemistry</i> , 2014, 289, 13010-13025.	3.4	33
122	Targeting One Carbon Metabolism with an Antimetabolite Disrupts Pyrimidine Homeostasis and Induces Nucleotide Overflow. <i>Cell Reports</i> , 2016, 15, 2367-2376.	6.4	33
123	Genetic selection for enhanced serine metabolism in cancer development. <i>Cell Cycle</i> , 2011, 10, 3812-3813.	2.6	32
124	Lin28a Regulates Pathological Cardiac Hypertrophic Growth Through Pck2-Mediated Enhancement of Anabolic Synthesis. <i>Circulation</i> , 2019, 139, 1725-1740.	1.6	32
125	SGK1 signaling promotes glucose metabolism and survival in extracellular matrix detached cells. <i>Cell Reports</i> , 2021, 34, 108821.	6.4	32
126	Maximum Entropy Reconstructions of Dynamic Signaling Networks from Quantitative Proteomics Data. <i>PLoS ONE</i> , 2009, 4, e6522.	2.5	31

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127	Ablation of Sirtuin5 in the postnatal mouse heart results in protein succinylation and normal survival in response to chronic pressure overload. <i>Journal of Biological Chemistry</i> , 2018, 293, 10630-10645.	3.4	31
128	Rewiring of glycolysis in cancer cell metabolism. <i>Cell Cycle</i> , 2010, 9, 4253-4253.	2.6	29
129	A metabolic signature of colon cancer initiating cells. , 2014, 2014, 4759-62.		29
130	A Strategy for Sensitive, Large Scale Quantitative Metabolomics. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	29
131	Inhibition of ER α Prevents Mitochondrial Pyruvate Uptake Exposing NADPH-Generating Pathways as Targetable Vulnerabilities in Breast Cancer. <i>Cell Reports</i> , 2019, 27, 3587-3601.e4.	6.4	29
132	New concepts in feedback regulation of glucose metabolism. <i>Current Opinion in Systems Biology</i> , 2018, 8, 32-38.	2.6	28
133	Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer. <i>Nature Communications</i> , 2019, 10, 5177.	12.8	27
134	Dynamic ¹³ C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. <i>IScience</i> , 2020, 23, 100855.	4.1	24
135	Metabolic rewiring drives resistance to targeted cancer therapy. <i>Molecular Systems Biology</i> , 2012, 8, 597.	7.2	23
136	Nutrient availability shapes methionine metabolism in p16/ <i>MTAP</i> -deleted cells. <i>Science Advances</i> , 2019, 5, eaav7769.	10.3	23
137	PKM1 Exerts Critical Roles in Cardiac Remodeling Under Pressure Overload in the Heart. <i>Circulation</i> , 2021, 144, 712-727.	1.6	23
138	Maximizing the Efficacy of Angiogenesis Inhibitors. <i>Journal of Clinical Oncology</i> , 2012, 30, 337-338.	1.6	22
139	A robust and efficient method for estimating enzyme complex abundance and metabolic flux from expression data. <i>Computational Biology and Chemistry</i> , 2015, 59, 98-112.	2.3	22
140	Exercise inhibits tumor growth and central carbon metabolism in patient-derived xenograft models of colorectal cancer. <i>Cancer & Metabolism</i> , 2018, 6, 14.	5.0	22
141	Discovery of a Potent GLUT Inhibitor from a Library of Rapafucins by Using 3D Microarrays. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17158-17162.	13.8	22
142	Cellular stress signaling activates type-I IFN response through FOXO3-regulated lamin posttranslational modification. <i>Nature Communications</i> , 2021, 12, 640.	12.8	22
143	Metabolic regulation of epigenetic remodeling in immune cells. <i>Current Opinion in Biotechnology</i> , 2020, 63, 111-117.	6.6	21
144	Regulation of Signal Duration and the Statistical Dynamics of Kinase Activation by Scaffold Proteins. <i>PLoS Computational Biology</i> , 2008, 4, e1000099.	3.2	19

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145	Pentose conversions support the tumorigenesis of pancreatic cancer distant metastases. <i>Oncogene</i> , 2018, 37, 5248-5256.	5.9	19
146	RRmix: A method for simultaneous batch effect correction and analysis of metabolomics data in the absence of internal standards. <i>PLoS ONE</i> , 2017, 12, e0179530.	2.5	19
147	Thermodynamic constraints on the regulation of metabolic fluxes. <i>Journal of Biological Chemistry</i> , 2018, 293, 19725-19739.	3.4	18
148	The consequences of enhanced cell-autonomous glucose metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 545-551.	7.1	17
149	Cutting Edge: Elevated Glycolytic Metabolism Limits the Formation of Memory CD8+ T Cells in Early Life. <i>Journal of Immunology</i> , 2019, 203, 2571-2576.	0.8	17
150	Serine and Methionine Metabolism: Vulnerabilities in Lethal Prostate Cancer. <i>Cancer Cell</i> , 2019, 35, 339-341.	16.8	16
151	Targeting In Vivo Metabolic Vulnerabilities of Th2 and Th17 Cells Reduces Airway Inflammation. <i>Journal of Immunology</i> , 2021, 206, 1127-1139.	0.8	16
152	Metabolic supervision by PPIP5K, an inositol pyrophosphate kinase/phosphatase, controls proliferation of the HCT116 tumor cell line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
153	Signal duration and the time scale dependence of signal integration in biochemical pathways. <i>BMC Systems Biology</i> , 2008, 2, 108.	3.0	15
154	Downregulation of hepatic betaine:homocysteine methyltransferase (BHMT) expression in taurine-deficient mice is reversed by taurine supplementation in vivo. <i>Amino Acids</i> , 2016, 48, 665-676.	2.7	15
155	Differential response to exercise in claudin-low breast cancer. <i>Oncotarget</i> , 2017, 8, 100989-101004.	1.8	15
156	Allovalency revisited: An analysis of multisite phosphorylation and substrate rebinding. <i>Journal of Chemical Physics</i> , 2008, 128, 115106.	3.0	14
157	Serine Metabolism Links Tumor Suppression to the Epigenetic Landscape. <i>Cell Metabolism</i> , 2016, 24, 777-779.	16.2	14
158	Molecular features that predict the response to antimetabolite chemotherapies. <i>Cancer & Metabolism</i> , 2017, 5, 8.	5.0	13
159	Metabolism in the tumor microenvironment: insights from single-cell analysis. <i>Oncolmmunology</i> , 2020, 9, 1726556.	4.6	13
160	Computational approaches for understanding energy metabolism. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 733-750.	6.6	12
161	Estimating Relative Changes of Metabolic Fluxes. <i>PLoS Computational Biology</i> , 2014, 10, e1003958.	3.2	12
162	Effects of a block in cysteine catabolism on energy balance and fat metabolism in mice. <i>Annals of the New York Academy of Sciences</i> , 2016, 1363, 99-115.	3.8	12

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163	A new layer of glycolysis. <i>Nature Chemical Biology</i> , 2016, 12, 577-578.	8.0	11
164	Metabolic pattern formation in the tumor microenvironment. <i>Molecular Systems Biology</i> , 2017, 13, 915.	7.2	11
165	Evolved resistance to partial GAPDH inhibition results in loss of the Warburg effect and in a different state of glycolysis. <i>Journal of Biological Chemistry</i> , 2020, 295, 111-124.	3.4	11
166	¹³ C tracer analysis suggests extensive recycling of endogenous CO ₂ in vivo. <i>Cancer & Metabolism</i> , 2022, 10, .	5.0	11
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