Jason W Locasale

List of Publications by Year
in descending order

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Version: 2024-02-01

198 papers	29,244 citations	5876 81 h-index	5806 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.	3.7	3,019
2	Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. Cell, 2012, 149, 656-670.	13.5	1,587
3	Serine, glycine and one-carbon units: cancer metabolism in full circle. Nature Reviews Cancer, 2013, 13, 572-583.	12.8	1,221
4	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. Cell, 2015, 162, 1217-1228.	13.5	1,044
5	Inhibition of Pyruvate Kinase M2 by Reactive Oxygen Species Contributes to Cellular Antioxidant Responses. Science, 2011, 334, 1278-1283.	6.0	984
6	Phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. Nature Genetics, 2011, 43, 869-874.	9.4	945
7	Evidence for an Alternative Glycolytic Pathway in Rapidly Proliferating Cells. Science, 2010, 329, 1492-1499.	6.0	586
8	Metabolic programming and PDHK1 control CD4+ T cell subsets and inflammation. Journal of Clinical Investigation, 2015, 125, 194-207.	3.9	562
9	Influence of Threonine Metabolism on S -Adenosylmethionine and Histone Methylation. Science, 2013, 339, 222-226.	6.0	555
10	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	3.3	513
11	Histone Methylation Dynamics and Gene Regulation Occur through the Sensing of One-Carbon Metabolism. Cell Metabolism, 2015, 22, 861-873.	7.2	481
12	Glutamine Metabolism in Cancer: Understanding the Heterogeneity. Trends in Cancer, 2017, 3, 169-180.	3.8	472
13	Distinct Regulation of Th17 and Th1 Cell Differentiation by Glutaminase-Dependent Metabolism. Cell, 2018, 175, 1780-1795.e19.	13.5	445
14	Dietary methionine influences therapy in mouse cancer models and alters human metabolism. Nature, 2019, 572, 397-401.	13.7	422
15	Foxp3 and Toll-like receptor signaling balance Treg cell anabolic metabolism for suppression. Nature Immunology, 2016, 17, 1459-1466.	7.0	402
16	Heterogeneity of tumor-induced gene expression changes in the human metabolic network. Nature Biotechnology, 2013, 31, 522-529.	9.4	381
17	Metabolic Flux and the Regulation of Mammalian Cell Growth. Cell Metabolism, 2011, 14, 443-451.	7.2	371
18	The impact of cellular metabolism on chromatin dynamics and epigenetics. Nature Cell Biology, 2017, 19, 1298-1306.	4.6	369

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19	Epigenomic reprogramming during pancreatic cancer progression links anabolic glucose metabolism to distant metastasis. Nature Genetics, 2017, 49, 367-376.	9.4	365
20	T cell stemness and dysfunction in tumors are triggered by a common mechanism. Science, 2019, 363, .	6.0	355
21	Cancer-cell-secreted exosomal miR-105 promotes tumour growth through the MYC-dependent metabolic reprogramming of stromal cells. Nature Cell Biology, 2018, 20, 597-609.	4.6	306
22	Regional glutamine deficiency in tumours promotes dedifferentiation through inhibition of histoneÂdemethylation. Nature Cell Biology, 2016, 18, 1090-1101.	4.6	291
23	Metabolic landscape of the tumor microenvironment at single cell resolution. Nature Communications, 2019, 10, 3763.	5.8	290
24	Oneâ€carbon metabolism and epigenetics: understanding the specificity. Annals of the New York Academy of Sciences, 2016, 1363, 91-98.	1.8	289
25	mTORC1 and mTORC2 Kinase Signaling and Glucose Metabolism Drive Follicular Helper T Cell Differentiation. Immunity, 2016, 45, 540-554.	6.6	283
26	Methionine metabolism in health and cancer: a nexus of diet and precision medicine. Nature Reviews Cancer, 2019, 19, 625-637.	12.8	278
27	Metabolomics: A Primer. Trends in Biochemical Sciences, 2017, 42, 274-284.	3.7	273
28	Acetate Production from Glucose and Coupling to Mitochondrial Metabolism in Mammals. Cell, 2018, 175, 502-513.e13.	13.5	269
29	Metabolomics in cancer research and emerging applications in clinical oncology. Ca-A Cancer Journal for Clinicians, 2021, 71, 333-358.	157.7	267
30	Metabolomics-assisted proteomics identifies succinylation and SIRT5 as important regulators of cardiac function. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4320-4325.	3.3	263
31	The evolving metabolic landscape of chromatin biology and epigenetics. Nature Reviews Genetics, 2020, 21, 737-753.	7.7	255
32	Metabolic Pathway Alterations that Support Cell Proliferation. Cold Spring Harbor Symposia on Quantitative Biology, 2011, 76, 325-334.	2.0	252
33	Disturbed mitochondrial dynamics in CD8+ TILs reinforce T cell exhaustion. Nature Immunology, 2020, 21, 1540-1551.	7.0	252
34	Extensive phosphorylation with overlapping specificity by Mycobacterium tuberculosis serine/threonine protein kinases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7521-7526.	3.3	245
35	Effective breast cancer combination therapy targeting BACH1 and mitochondrial metabolism. Nature, 2019, 568, 254-258.	13.7	233
36	Mitophagy defects arising from BNip3 loss promote mammary tumor progression to metastasis. EMBO Reports, 2015, 16, 1145-1163.	2.0	232

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37	Dysregulated metabolism contributes to oncogenesis. Seminars in Cancer Biology, 2015, 35, S129-S150.	4.3	225
38	Quantitative determinants of aerobic glycolysis identify flux through the enzyme GAPDH as a limiting step. ELife, 2014, 3, .	2.8	222
39	Designing a broad-spectrum integrative approach for cancer prevention and treatment. Seminars in Cancer Biology, 2015, 35, S276-S304.	4.3	220
40	The Nucleotide Sensor ZBP1 and Kinase RIPK3 Induce the Enzyme IRG1 to Promote an Antiviral Metabolic State in Neurons. Immunity, 2019, 50, 64-76.e4.	6.6	214
41	mTOR Drives Its Own Activation via SCFÎ²TrCP-Dependent Degradation of the mTOR Inhibitor DEPTOR. Molecular Cell, 2011, 44, 290-303.	4.5	212
42	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. Cell Metabolism, 2016, 23, 649-662.	7.2	195
43	Metformin Targets Central Carbon Metabolism and Reveals Mitochondrial Requirements in Human Cancers. Cell Metabolism, 2016, 24, 728-739.	7.2	192
44	Fibroblasts Mobilize Tumor Cell Glycogen to Promote Proliferation and Metastasis. Cell Metabolism, 2019, 29, 141-155.e9.	7.2	192
45	Transcriptional diversity and bioenergetic shift in human breast cancer metastasis revealed by single-cell RNA sequencing. Nature Cell Biology, 2020, 22, 310-320.	4.6	189
46	Metabolic Regulation of Protein N-Alpha-Acetylation by Bcl-xL Promotes Cell Survival. Cell, 2011, 146, 607-620.	13.5	185
47	Paracrine Wnt5a-Î²-Catenin Signaling Triggers a Metabolic Program that Drives Dendritic Cell Tolerization. Immunity, 2018, 48, 147-160.e7.	6.6	185
48	The metabolic co-regulator PGC1Î± suppresses prostate cancer metastasis. Nature Cell Biology, 2016, 18, 645-656.	4.6	176
49	Serine Availability Influences Mitochondrial Dynamics and Function through Lipid Metabolism. Cell Reports, 2018, 22, 3507-3520.	2.9	170
50	Development and Quantitative Evaluation of a High-Resolution Metabolomics Technology. Analytical Chemistry, 2014, 86, 2175-2184.	3.2	164
51	A Predictive Model for Selective Targeting of the Warburg Effect through GAPDH Inhibition with a Natural Product. Cell Metabolism, 2017, 26, 648-659.e8.	7.2	154
52	Purine synthesis promotes maintenance of brain tumor initiating cells in glioma. Nature Neuroscience, 2017, 20, 661-673.	7.1	153
53	Ubiquitination of K-Ras Enhances Activation and Facilitates Binding to Select Downstream Effectors. Science Signaling, 2011, 4, ra13.	1.6	152
54	Sel1L is indispensable for mammalian endoplasmic reticulum-associated degradation, endoplasmic reticulum homeostasis, and survival. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E582-91.	3.3	148

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55	A Genome-wide Haploid Genetic Screen Identifies Regulators of Glutathione Abundance and Ferroptosis Sensitivity. Cell Reports, 2019, 26, 1544-1556.e8.	2.9	146
56	Altered metabolism in cancer. BMC Biology, 2010, 8, 88.	1.7	144
57	Proteomic and Biochemical Studies of Lysine Malonylation Suggest Its Malonic Aciduria-associated Regulatory Role in Mitochondrial Function and Fatty Acid Oxidation. Molecular and Cellular Proteomics, 2015, 14, 3056-3071.	2.5	143
58	Serine synthesis through PHGDH coordinates nucleotide levels by maintaining central carbon metabolism. Nature Communications, 2018, 9, 5442.	5.8	143
59	Characterization of the Usage of the Serine Metabolic Network in Human Cancer. Cell Reports, 2014, 9, 1507-1519.	2.9	136
60	Gain of Glucose-Independent Growth upon Metastasis of Breast Cancer Cells to the Brain. Cancer Research, 2015, 75, 554-565.	0.4	133
61	mTOR coordinates transcriptional programs and mitochondrial metabolism of activated Treg subsets to protect tissue homeostasis. Nature Communications, 2018, 9, 2095.	5.8	133
62	Antigen receptor control of methionine metabolism in T cells. ELife, 2019, 8, .	2.8	132
63	Bacteria Boost Mammalian Host NAD Metabolism by Engaging the Deamidated Biosynthesis Pathway. Cell Metabolism, 2020, 31, 564-579.e7.	7.2	130
64	p300-Mediated Lysine 2-Hydroxyisobutyrylation Regulates Glycolysis. Molecular Cell, 2018, 70, 663-678.e6.	4.5	126
65	Glycerol phosphate shuttle enzyme GPD2 regulates macrophage inflammatory responses. Nature Immunology, 2019, 20, 1186-1195.	7.0	126
66	Acetate Metabolism in Physiology, Cancer, and Beyond. Trends in Cell Biology, 2019, 29, 695-703.	3.6	122
67	The rate of glycolysisÂquantitatively mediates specific histone acetylation sites. Cancer & Metabolism, 2015, 3, 10.	2.4	121
68	Metabolic Plasticity of Metastatic Breast Cancer Cells: Adaptation to Changes in the Microenvironment. Neoplasia, 2015, 17, 671-684.	2.3	115
69	PHGDH amplification and altered glucose metabolism in human melanoma. Pigment Cell and Melanoma Research, 2011, 24, 1112-1115.	1.5	114
70	ERRÎ±-Regulated Lactate Metabolism Contributes to Resistance to Targeted Therapies in Breast Cancer. Cell Reports, 2016, 15, 323-335.	2.9	113
71	NRF2 activation promotes the recurrence of dormant tumour cells through regulation of redox and nucleotide metabolism. Nature Metabolism, 2020, 2, 318-334.	5.1	106
72	Myeloid Slc2a1-Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. Journal of Immunology, 2019, 202, 1265-1286.	0.4	104

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73	Rational Design of Selective Allosteric Inhibitors of PHGDH and Serine Synthesis with Anti-tumor Activity. Cell Chemical Biology, 2017, 24, 55-65.	2.5	102
74	Nicotinamide mononucleotide requires SIRT3 to improve cardiac function and bioenergetics in a Friedreichâ€™s ataxia cardiomyopathy model. JCI Insight, 2017, 2, .	2.3	96
75	Methionine metabolism influences genomic architecture and gene expression through H3K4me3 peak width. Nature Communications, 2018, 9, 1955.	5.8	96
76	MiR-135 suppresses glycolysis and promotes pancreatic cancer cell adaptation to metabolic stress by targeting phosphofructokinase-1. Nature Communications, 2019, 10, 809.	5.8	96
77	High-Resolution Metabolomics with Acyl-CoA Profiling Reveals Widespread Remodeling in Response to Diet*. Molecular and Cellular Proteomics, 2015, 14, 1489-1500.	2.5	95
78	Impaired enolase 1 glycolytic activity restrains effector functions of tumor-infiltrating CD8 ⁺ T cells. Science Immunology, 2019, 4, .	5.6	95
79	Epigenetics and cancer metabolism. Cancer Letters, 2015, 356, 309-314.	3.2	90
80	Metabolomics of Human Cerebrospinal Fluid Identifies Signatures of Malignant Glioma. Molecular and Cellular Proteomics, 2012, 11, M111.014688.	2.5	89
81	Epigenetic Switchâ€“Induced Viral Mimicry Evasion in Chemotherapy-Resistant Breast Cancer. Cancer Discovery, 2020, 10, 1312-1329.	7.7	84
82	The Stimulatory Potency of T Cell Antigens Is Influenced by the Formation of the Immunological Synapse. Immunity, 2007, 26, 345-355.	6.6	83
83	Sheath Cell Invasion and Trans-differentiation Repair Mechanical Damage Caused by Loss of Caveolae in the Zebrafish Notochord. Current Biology, 2017, 27, 1982-1989.e3.	1.8	83
84	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. Nature Structural and Molecular Biology, 2013, 20, 46-52.	3.6	80
85	Sirtuin 5 is required for mouse survival in response to cardiac pressure overload. Journal of Biological Chemistry, 2017, 292, 19767-19781.	1.6	79
86	Melanoma Therapeutic Strategies that Select against Resistance by Exploiting MYC-Driven Evolutionary Convergence. Cell Reports, 2017, 21, 2796-2812.	2.9	77
87	Adaptive changes in amino acid metabolism permit normal longevity in mice consuming a low-carbohydrate ketogenic diet. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2056-2065.	1.8	75
88	Understanding metabolism with flux analysis: From theory to application. Metabolic Engineering, 2017, 43, 94-102.	3.6	73
89	HNF4Î± regulates sulfur amino acid metabolism and confers sensitivity to methionine restriction in liver cancer. Nature Communications, 2020, 11, 3978.	5.8	73
90	Tumor-induced reshuffling of lipid composition on the endoplasmic reticulum membrane sustains macrophage survival and pro-tumorigenic activity. Nature Immunology, 2021, 22, 1403-1415.	7.0	72

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91	Extraction parameters for metabolomics from cultured cells. Analytical Biochemistry, 2015, 475, 22-28.	1.1	71
92	Methionine metabolism is essential for <scp>SIRT</scp> 1â€regulated mouse embryonic stem cell maintenance and embryonic development. EMBO Journal, 2017, 36, 3175-3193.	3.5	71
93	Scaffold proteins confer diverse regulatory properties to protein kinase cascades. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13307-13312.	3.3	67
94	Interactions between epigenetics and metabolism in cancers. Frontiers in Oncology, 2012, 2, 163.	1.3	67
95	The Lipid Kinase PI5P4KÎ² Is an Intracellular GTP Sensor for Metabolism and Tumorigenesis. Molecular Cell, 2016, 61, 187-198.	4.5	62
96	Histone Lactylation: A New Role for Glucose Metabolism. Trends in Biochemical Sciences, 2020, 45, 179-182.	3.7	62
97	Glucose transporter 1-mediated glucose uptake is limiting for B-cell acute lymphoblastic leukemia anabolic metabolism and resistance to apoptosis. Cell Death and Disease, 2014, 5, e1470-e1470.	2.7	59
98	IDH3Î± regulates one-carbon metabolism in glioblastoma. Science Advances, 2019, 5, eaat0456.	4.7	59
99	Loss of pyruvate kinase M2 limits growth and triggers innate immune signaling in endothelial cells. Nature Communications, 2018, 9, 4077.	5.8	55
100	Autophagy-Dependent Metabolic Reprogramming Sensitizes TSC2-Deficient Cells to the Antimetabolite 6-Aminonicotinamide. Molecular Cancer Research, 2014, 12, 48-57.	1.5	52
101	<scp>FOXO</scp> protects against ageâ€progressive axonal degeneration. Aging Cell, 2018, 17, e12701.	3.0	52
102	Revisiting the Warburg Effect: Some Tumors Hold Their Breath. Cell Metabolism, 2018, 28, 669-670.	7.2	52
103	The Molecular Link from Diet to Cancer Cell Metabolism. Molecular Cell, 2020, 78, 1034-1044.	4.5	52
104	SPHK1 Is a Novel Target of Metformin in Ovarian Cancer. Molecular Cancer Research, 2019, 17, 870-881.	1.5	50
105	Using antagonistic pleiotropy to design a chemotherapy-induced evolutionary trap to target drug resistance in cancer. Nature Genetics, 2020, 52, 408-417.	9.4	47
106	IKKÎ² promotes metabolic adaptation to glutamine deprivation via phosphorylation and inhibition of PFKFB3. Genes and Development, 2016, 30, 1837-1851.	2.7	45
107	Cancer's insatiable appetite. Nature Biotechnology, 2009, 27, 916-917.	9.4	44
108	Heterogeneity of glycolysis in cancers and therapeutic opportunities. Biochemical Pharmacology, 2014, 92, 12-21.	2.0	44

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109	Short term methionine restriction increases hepatic global DNA methylation in adult but not young male C57BL/6J mice. Experimental Gerontology, 2017, 88, 1-8.	1.2	43
110	A Flux Balance of Glucose Metabolism Clarifies the Requirements of the Warburg Effect. Biophysical Journal, 2016, 111, 1088-1100.	0.2	42
111	Signatures of Protein-DNA Recognition in Free DNA Binding Sites. Journal of Molecular Biology, 2009, 386, 1054-1065.	2.0	40
112	Metabolic interactions with cancer epigenetics. Molecular Aspects of Medicine, 2017, 54, 50-57.	2.7	40
113	Glucose Metabolism in Cancer: The Saga of Pyruvate Kinase Continues. Cancer Cell, 2018, 33, 337-339.	7.7	39
114	Integrative modelling of tumour DNA methylation quantifies the contribution of metabolism. Nature Communications, 2016, 7, 13666.	5.8	37
115	Human pluripotent stem cells decouple respiration from energy production. EMBO Journal, 2011, 30, 4851-4852.	3.5	36
116	Quantitative Analysis of the Physiological Contributions of Glucose to the TCA Cycle. Cell Metabolism, 2020, 32, 619-628.e21.	7.2	36
117	Organization of Enzyme Concentration across the Metabolic Network in Cancer Cells. PLoS ONE, 2015, 10, e0117131.	1.1	35
118	Identification of BBOX1 as a Therapeutic Target in Triple-Negative Breast Cancer. Cancer Discovery, 2020, 10, 1706-1721.	7.7	35
119	SUCLA2 mutations cause global protein succinylation contributing to the pathomechanism of a hereditary mitochondrial disease. Nature Communications, 2020, 11, 5927.	5.8	35
120	A glutaminase isoform switch drives therapeutic resistance and disease progression of prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	34
121	A Fundamental Trade-off in Covalent Switching and Its Circumvention by Enzyme Bifunctionality in Glucose Homeostasis. Journal of Biological Chemistry, 2014, 289, 13010-13025.	1.6	33
122	Targeting One Carbon Metabolism with an Antimetabolite Disrupts Pyrimidine Homeostasis and Induces Nucleotide Overflow. Cell Reports, 2016, 15, 2367-2376.	2.9	33
123	Genetic selection for enhanced serine metabolism in cancer development. Cell Cycle, 2011, 10, 3812-3813.	1.3	32
124	Lin28a Regulates Pathological Cardiac Hypertrophic Growth Through Pck2-Mediated Enhancement of Anabolic Synthesis. Circulation, 2019, 139, 1725-1740.	1.6	32
125	SGK1 signaling promotes glucose metabolism and survival in extracellular matrix detached cells. Cell Reports, 2021, 34, 108821.	2.9	32
126	Maximum Entropy Reconstructions of Dynamic Signaling Networks from Quantitative Proteomics Data. PLoS ONE, 2009, 4, e6522.	1.1	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. Journal of Biological Chemistry, 2018, 293, 10630-10645.	1.6	31
128	Rewiring of glycolysis in cancer cell metabolism. Cell Cycle, 2010, 9, 4253-4253.	1.3	29
129	A metabolic signature of colon cancer initiating cells. , 2014, 2014, 4759-62.		29
130	A Strategy for Sensitive, Large Scale Quantitative Metabolomics. Journal of Visualized Experiments, 2014, , .	0.2	29
131	Inhibition of ERRÎ± Prevents Mitochondrial Pyruvate Uptake Exposing NADPH-Generating Pathways as Targetable Vulnerabilities in Breast Cancer. Cell Reports, 2019, 27, 3587-3601.e4.	2.9	29
132	New concepts in feedback regulation of glucose metabolism. Current Opinion in Systems Biology, 2018, 8, 32-38.	1.3	28
133	Prolyl hydroxylase substrate adenylosuccinate lyase is an oncogenic driver in triple negative breast cancer. Nature Communications, 2019, 10, 5177.	5.8	27
134	Dynamic 13C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. IScience, 2020, 23, 100855.	1.9	24
135	Metabolic rewiring drives resistance to targeted cancer therapy. Molecular Systems Biology, 2012, 8, 597.	3.2	23
136	Nutrient availability shapes methionine metabolism in p16/ MTAP -deleted cells. Science Advances, 2019, 5, eaav7769.	4.7	23
137	PKM1 Exerts Critical Roles in Cardiac Remodeling Under Pressure Overload in the Heart. Circulation, 2021, 144, 712-727.	1.6	23
138	Maximizing the Efficacy of Angiogenesis Inhibitors. Journal of Clinical Oncology, 2012, 30, 337-338.	0.8	22
139	A robust and efficient method for estimating enzyme complex abundance and metabolic flux from expression data. Computational Biology and Chemistry, 2015, 59, 98-112.	1.1	22
140	Exercise inhibits tumor growth and central carbon metabolism in patient-derived xenograft models of colorectal cancer. Cancer & Metabolism, 2018, 6, 14.	2.4	22
141	Discovery of a Potent GLUT Inhibitor from a Library of Rapafucins by Using 3D Microarrays. Angewandte Chemie - International Edition, 2019, 58, 17158-17162.	7.2	22
142	Cellular stress signaling activates type-I IFN response through FOXO3-regulated lamin posttranslational modification. Nature Communications, 2021, 12, 640.	5.8	22
143	Metabolic regulation of epigenetic remodeling in immune cells. Current Opinion in Biotechnology, 2020, 63, 111-117.	3.3	21
144	Regulation of Signal Duration and the Statistical Dynamics of Kinase Activation by Scaffold Proteins. PLoS Computational Biology, 2008, 4, e1000099.	1.5	19

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145	Pentose conversions support the tumorigenesis of pancreatic cancer distant metastases. Oncogene, 2018, 37, 5248-5256.	2.6	19
146	RRmix: A method for simultaneous batch effect correction and analysis of metabolomics data in the absence of internal standards. PLoS ONE, 2017, 12, e0179530.	1.1	19
147	Thermodynamic constraints on the regulation of metabolic fluxes. Journal of Biological Chemistry, 2018, 293, 19725-19739.	1.6	18
148	The consequences of enhanced cell-autonomous glucose metabolism. Trends in Endocrinology and Metabolism, 2012, 23, 545-551.	3.1	17
149	Cutting Edge: Elevated Glycolytic Metabolism Limits the Formation of Memory CD8+ T Cells in Early Life. Journal of Immunology, 2019, 203, 2571-2576.	0.4	17
150	Serine and Methionine Metabolism: Vulnerabilities in Lethal Prostate Cancer. Cancer Cell, 2019, 35, 339-341.	7.7	16
151	Targeting In Vivo Metabolic Vulnerabilities of Th2 and Th17 Cells Reduces Airway Inflammation. Journal of Immunology, 2021, 206, 1127-1139.	0.4	16
152	Metabolic supervision by PPIP5K, an inositol pyrophosphate kinase/phosphatase, controls proliferation of the HCT116 tumor cell line. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
153	Signal duration and the time scale dependence of signal integration in biochemical pathways. BMC Systems Biology, 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. Amino Acids, 2016, 48, 665-676.	1.2	15
155	Differential response to exercise in claudin-low breast cancer. Oncotarget, 2017, 8, 100989-101004.	0.8	15
156	Allovalency revisited: An analysis of multisite phosphorylation and substrate rebinding. Journal of Chemical Physics, 2008, 128, 115106.	1.2	14
157	Serine Metabolism Links Tumor Suppression to the Epigenetic Landscape. Cell Metabolism, 2016, 24, 777-779.	7.2	14
158	Molecular features that predict the response to antimetabolite chemotherapies. Cancer & Metabolism, 2017, 5, 8.	2.4	13
159	Metabolism in the tumor microenvironment: insights from single-cell analysis. OncoImmunology, 2020, 9, 1726556.	2.1	13
160	Computational approaches for understanding energy metabolism. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 733-750.	6.6	12
161	Estimating Relative Changes of Metabolic Fluxes. PLoS Computational Biology, 2014, 10, e1003958.	1.5	12
162	Effects of a block in cysteine catabolism on energy balance and fat metabolism in mice. Annals of the New York Academy of Sciences, 2016, 1363, 99-115.	1.8	12

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163	A new layer of glycolysis. Nature Chemical Biology, 2016, 12, 577-578.	3.9	11
164	Metabolic pattern formation in the tumorÂmicroenvironment. Molecular Systems Biology, 2017, 13, 915.	3.2	11
165	Evolved resistance to partial GAPDH inhibition results in loss of the Warburg effect and in a different state of glycolysis. Journal of Biological Chemistry, 2020, 295, 111-124.	1.6	11
166	13C tracer analysis suggests extensive recycling of endogenous CO2 in vivo. Cancer & Metabolism, 2022, 10, .	2.4	11
167	Rethinking the bioavailability and cellular transport properties of S-adenosylmethionine. Cell Stress, 2021, 6, 1-5.	1.4	10
168	Computational Investigations into the Origins of Short-Term Biochemical Memory in T cell Activation. PLoS ONE, 2007, 2, e627.	1.1	9
169	Targeting metabolism to influence aging. Science, 2021, 371, 234-235.	6.0	9
170	The TGF-Î²/HDAC7 axis suppresses TCA cycle metabolism in renal cancer. JCI Insight, 2021, 6, .	2.3	9
171	MNK2 deficiency potentiates Î²-cell regeneration via translational regulation. Nature Chemical Biology, 2022, 18, 942-953.	3.9	9
172	Teleological Role of L-2-Hydroxyglutarate Dehydrogenase in the Kidney. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	8
173	Dietary Methionine in T Cell Biology and Autoimmune Disease. Cell Metabolism, 2020, 31, 211-212.	7.2	8
174	Metabolomics reveals intratumor heterogeneity â€“ Implications for precision medicine. EBioMedicine, 2017, 19, 4-5.	2.7	7
175	A Missing Link to Vitamin B12 Metabolism. Cell, 2017, 171, 736-737.	13.5	7
176	Metabolic decisions in development and diseaseâ€”a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 55-73.	1.8	6
177	Context-dependent utilization of serine in cancer. Molecular and Cellular Oncology, 2015, 2, e996418.	0.3	5
178	Discovery of a Potent GLUT Inhibitor from a Library of Rapafucins by Using 3D Microarrays. Angewandte Chemie, 2019, 131, 17318-17322.	1.6	5
179	Metabolomics: insights into plantâ€based diets. EMBO Molecular Medicine, 2021, 13, e13568.	3.3	5
180	Epigenomic links from metabolismâ€”methionine and chromatin architecture. Current Opinion in Chemical Biology, 2021, 63, 11-18.	2.8	5

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181	Integrated Metabolic Profiling and Transcriptional Analysis Reveals Therapeutic Modalities for Targeting Rapidly Proliferating Breast Cancers. Cancer Research, 2022, 82, 665-680.	0.4	5
182	Cancer Metabolism. , 2020, , 127-138.e4.		3
183	A reactive metabolite as an immune suppressant. Nature Immunology, 2020, 21, 497-498.	7.0	3
184	Three-state kinetic mechanism for scaffold-mediated signal transduction. Physical Review E, 2008, 78, 051921.	0.8	2
185	IL-6 and Ovarian Cancerâ€"Letter. Clinical Cancer Research, 2011, 17, 7837-7837.	3.2	2
186	Amplification of phosphoglycerate dehydrogenase diverts glycolytic flux and contributes to oncogenesis. BMC Proceedings, 2012, 6, .	1.8	2
187	A toxin that fuels metabolism. Nature, 2017, 548, 533-534.	13.7	2
188	A spoonful of DHAP keeps mTORC1 running on sugars. Nature Metabolism, 2020, 2, 801-802.	5.1	2
189	Scaffold Proteins Confer Diverse Regulatory Properties to Protein Kinase Cascades. FASEB Journal, 2007, 21, A264.	0.2	0
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