

# Joshua D Rabinowitz

## List of Publications by Year in descending order

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201  
papers

42,989  
citations

3264

94  
h-index

2896

196  
g-index

220  
all docs

220  
docs citations

220  
times ranked

55407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Profiling Reveals a Dependency of Human Metastatic Breast Cancer on Mitochondrial Serine and One-Carbon Unit Metabolism. <i>Molecular Cancer Research</i> , 2022, 18, 599-611.	1.5	56
2	GCN2 adapts protein synthesis to scavenging-dependent growth. <i>Cell Systems</i> , 2022, 13, 158-172.e9.	2.9	12
3	Inhibition of glucose transport synergizes with chemical or genetic disruption of mitochondrial metabolism and suppresses TCA cycle-deficient tumors. <i>Cell Chemical Biology</i> , 2022, 29, 423-435.e10.	2.5	18
4	SHMT2 inhibition disrupts the TCF3 transcriptional survival program in Burkitt lymphoma. <i>Blood</i> , 2022, 139, 538-553.	0.6	27
5	MTHFD2 is a metabolic checkpoint controlling effector and regulatory T cell fate and function. <i>Immunity</i> , 2022, 55, 65-81.e9.	6.6	74
6	Circulating metabolite homeostasis achieved through mass action. <i>Nature Metabolism</i> , 2022, 4, 141-152.	5.1	26
7	Sex and genetic background define the metabolic, physiologic, and molecular response to protein restriction. <i>Cell Metabolism</i> , 2022, 34, 209-226.e5.	7.2	44
8	Spatially resolved isotope tracing reveals tissue metabolic activity. <i>Nature Methods</i> , 2022, 19, 223-230.	9.0	67
9	Ketogenic diet and chemotherapy combine to disrupt pancreatic cancer metabolism and growth. <i>Med</i> , 2022, 3, 119-136.e8.	2.2	31
10	SHMT inhibition is effective and synergizes with methotrexate in T-cell acute lymphoblastic leukemia. <i>Leukemia</i> , 2021, 35, 377-388.	3.3	68
11	Upregulation of Antioxidant Capacity and Nucleotide Precursor Availability Suffices for Oncogenic Transformation. <i>Cell Metabolism</i> , 2021, 33, 94-109.e8.	7.2	39
12	Inhibition of <i>de novo</i> pyrimidine synthesis augments Gemcitabine induced growth inhibition in an immunocompetent model of pancreatic cancer. <i>International Journal of Biological Sciences</i> , 2021, 17, 2240-2251.	2.6	8
13	Restoring metabolism of myeloid cells reverses cognitive decline in ageing. <i>Nature</i> , 2021, 590, 122-128.	13.7	264
14	The Source of Glycolytic Intermediates in Mammalian Tissues. <i>Cell Metabolism</i> , 2021, 33, 367-378.e5.	7.2	80
15	The adverse metabolic effects of branched-chain amino acids are mediated by isoleucine and valine. <i>Cell Metabolism</i> , 2021, 33, 905-922.e6.	7.2	183
16	Monitoring mammalian mitochondrial translation with MitoRiboSeq. <i>Nature Protocols</i> , 2021, 16, 2802-2825.	5.5	16
17	mTORC1 promotes cell growth via m6A-dependent mRNA degradation. <i>Molecular Cell</i> , 2021, 81, 2064-2075.e8.	4.5	50
18	NADK is activated by oncogenic signaling to sustain pancreatic ductal adenocarcinoma. <i>Cell Reports</i> , 2021, 35, 109238.	2.9	19

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19	Live-Cell Imaging of NADPH Production from Specific Pathways. <i>CCS Chemistry</i> , 2021, 3, 1642-1648.	4.6	5
20	Local production of lactate, ribose phosphate, and amino acids by human triple-negative breast cancer. <i>Med</i> , 2021, 2, 736-754.e6.	2.2	28
21	Quantitative flux analysis in mammals. <i>Nature Metabolism</i> , 2021, 3, 896-908.	5.1	35
22	Metabolic decisions in development and disease—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 55-73.	1.8	6
23	NAD <sup>+</sup> flux is maintained in aged mice despite lower tissue concentrations. <i>Cell Systems</i> , 2021, 12, 1160-1172.e4.	2.9	51
24	A genetic model of methionine restriction extends <i>Drosophila</i> health- and lifespan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	8
25	CAR T-Cells Depend on the Coupling of NADH Oxidation with ATP Production. <i>Cells</i> , 2021, 10, 2334.	1.8	7
26	Metabolite discovery through global annotation of untargeted metabolomics data. <i>Nature Methods</i> , 2021, 18, 1377-1385.	9.0	107
27	Activation of the NRF2 antioxidant program sensitizes tumors to G6PD inhibition. <i>Science Advances</i> , 2021, 7, eabk1023.	4.7	43
28	Serine catabolism generates liver NADPH and supports hepatic lipogenesis. <i>Nature Metabolism</i> , 2021, 3, 1608-1620.	5.1	37
29	Methionine synthase supports tumour tetrahydrofolate pools. <i>Nature Metabolism</i> , 2021, 3, 1512-1520.	5.1	24
30	Elevated Choline Kinase 1 Mediated Choline Metabolism Supports the Prolonged Survival of TRAF3-Deficient B Lymphocytes. <i>Journal of Immunology</i> , 2020, 204, 459-471.	0.4	13
31	Comprehensive quantification of fuel use by the failing and nonfailing human heart. <i>Science</i> , 2020, 370, 364-368.	6.0	276
32	Bisphosphoglycerate Mutase Deficiency Protects against Cerebral Malaria and Severe Malaria-Induced Anemia. <i>Cell Reports</i> , 2020, 32, 108170.	2.9	7
33	Lactate: the ugly duckling of energy metabolism. <i>Nature Metabolism</i> , 2020, 2, 566-571.	5.1	371
34	Glucose-6-Phosphate Dehydrogenase Is Not Essential for K-Ras Driven Tumor Growth or Metastasis. <i>Cancer Research</i> , 2020, 80, 3820-3829.	0.4	33
35	CD38 ecto-enzyme in immune cells is induced during aging and regulates NAD <sup>+</sup> and NMN levels. <i>Nature Metabolism</i> , 2020, 2, 1284-1304.	5.1	157
36	SLC25A51 is a mammalian mitochondrial NAD <sup>+</sup> transporter. <i>Nature</i> , 2020, 588, 174-179.	13.7	158

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37	Enhancing Chimeric Antigen Receptor T Cell Anti-tumor Function through Advanced Media Design. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 595-606.	1.8	39
38	Quantitative Fluxomics of Circulating Metabolites. <i>Cell Metabolism</i> , 2020, 32, 676-688.e4.	7.2	148
39	Chaperone-mediated autophagy regulates the pluripotency of embryonic stem cells. <i>Science</i> , 2020, 369, 397-403.	6.0	60
40	The hepatocyte clock and feeding control chronophysiology of multiple liver cell types. <i>Science</i> , 2020, 369, 1388-1394.	6.0	103
41	Metabolic excretion associated with nutrientâ€growth dysregulation promotes the rapid evolution of an overt metabolic defect. <i>PLoS Biology</i> , 2020, 18, e3000757.	2.6	17
42	Autophagy promotes growth of tumors with high mutational burden by inhibiting a T-cell immune response. <i>Nature Cancer</i> , 2020, 1, 923-934.	5.7	67
43	Obesity Shapes Metabolism in the Tumor Microenvironment to Suppress Anti-Tumor Immunity. <i>Cell</i> , 2020, 183, 1848-1866.e26.	13.5	347
44	Genome-scale metabolic reconstruction of the non-model yeast <i>Issatchenkia orientalis</i> SD108 and its application to organic acids production. <i>Metabolic Engineering Communications</i> , 2020, 11, e00148.	1.9	20
45	A small molecule G6PD inhibitor reveals immune dependence on pentose phosphate pathway. <i>Nature Chemical Biology</i> , 2020, 16, 731-739.	3.9	101
46	A Dual-Mechanism Antibiotic Kills Gram-Negative Bacteria and Avoids Drug Resistance. <i>Cell</i> , 2020, 181, 1518-1532.e14.	13.5	202
47	The small intestine shields the liver from fructose-induced steatosis. <i>Nature Metabolism</i> , 2020, 2, 586-593.	5.1	81
48	Dietary fructose feeds hepatic lipogenesis via microbiota-derived acetate. <i>Nature</i> , 2020, 579, 586-591.	13.7	314
49	Serine Catabolism Feeds NADH when Respiration Is Impaired. <i>Cell Metabolism</i> , 2020, 31, 809-821.e6.	7.2	118
50	Lactate dehydrogenase inhibition synergizes with IL-21 to promote CD8 <sup>+</sup> T cell stemness and antitumor immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6047-6055.	3.3	128
51	Improved Annotation of Untargeted Metabolomics Data through Buffer Modifications That Shift Adduct Mass and Intensity. <i>Analytical Chemistry</i> , 2020, 92, 11573-11581.	3.2	20
52	Downregulation of the tyrosine degradation pathway extends <i>Drosophila</i> lifespan. <i>ELife</i> , 2020, 9, .	2.8	25
53	Novel Pyrrolo[3,2- <i>d</i> ]pyrimidine Compounds Target Mitochondrial and Cytosolic One-carbon Metabolism with Broad-spectrum Antitumor Efficacy. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 1787-1799.	1.9	38
54	Metabolite Exchange between Mammalian Organs Quantified in Pigs. <i>Cell Metabolism</i> , 2019, 30, 594-606.e3.	7.2	170

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55	Peripheral TREM1 responses to brain and intestinal immunogens amplify stroke severity. <i>Nature Immunology</i> , 2019, 20, 1023-1034.	7.0	101
56	Energy budget of <i>Drosophila</i> embryogenesis. <i>Current Biology</i> , 2019, 29, R566-R567.	1.8	32
57	Natural human genetic variation determines basal and inducible expression of <i>PM20D1</i> , an obesity-associated gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23232-23242.	3.3	35
58	A comprehensive genome-scale model for <i>Rhodospiridium toruloides</i> IFO0880 accounting for functional genomics and phenotypic data. <i>Metabolic Engineering Communications</i> , 2019, 9, e00101.	1.9	55
59	T Cell Activation Depends on Extracellular Alanine. <i>Cell Reports</i> , 2019, 28, 3011-3021.e4.	2.9	117
60	PRDM16 Maintains Homeostasis of the Intestinal Epithelium by Controlling Region-Specific Metabolism. <i>Cell Stem Cell</i> , 2019, 25, 830-845.e8.	5.2	62
61	Near-equilibrium glycolysis supports metabolic homeostasis and energy yield. <i>Nature Chemical Biology</i> , 2019, 15, 1001-1008.	3.9	60
62	Distinct modes of mitochondrial metabolism uncouple T cell differentiation and function. <i>Nature</i> , 2019, 571, 403-407.	13.7	156
63	The Tumor Metabolic Microenvironment: Lessons from Lactate. <i>Cancer Research</i> , 2019, 79, 3155-3162.	0.4	140
64	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. <i>Cell Metabolism</i> , 2019, 30, 174-189.e5.	7.2	141
65	The metabolites NADP <sup>+</sup> and NADPH are the targets of the circadian protein Nocturnin (Curled). <i>Nature Communications</i> , 2019, 10, 2367.	5.8	41
66	A Two-Enzyme Adaptive Unit within Bacterial Folate Metabolism. <i>Cell Reports</i> , 2019, 27, 3359-3370.e7.	2.9	27
67	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. <i>Nature Metabolism</i> , 2019, 1, 404-415.	5.1	209
68	Minor Isozymes Tailor Yeast Metabolism to Carbon Availability. <i>MSystems</i> , 2019, 4, .	1.7	14
69	Serine Metabolism Supports Macrophage IL-1 $\beta$ Production. <i>Cell Metabolism</i> , 2019, 29, 1003-1011.e4.	7.2	192
70	Peak Annotation and Verification Engine for Untargeted LC-MS Metabolomics. <i>Analytical Chemistry</i> , 2019, 91, 1838-1846.	3.2	72
71	Macrophage de novo NAD <sup>+</sup> synthesis specifies immune function in aging and inflammation. <i>Nature Immunology</i> , 2019, 20, 50-63.	7.0	304
72	Quantitative Analysis of the Whole-Body Metabolic Fate of Branched-Chain Amino Acids. <i>Cell Metabolism</i> , 2019, 29, 417-429.e4.	7.2	301

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73	A metabolic strategy to reverse fibrosis?. Nature Metabolism, 2019, 1, 12-13.	5.1	19
74	Quantitative Survey of NAD + Flux in Aged Mice. FASEB Journal, 2019, 33, 794.14.	0.2	0
75	NADPH production by the oxidative pentose-phosphate pathway supports folate metabolism. Nature Metabolism, 2019, 1, 404-415.	5.1	84
76	The Small Intestine Converts Dietary Fructose into Glucose and Organic Acids. Cell Metabolism, 2018, 27, 351-361.e3.	7.2	416
77	Perinatal high fat diet and early life methyl donor supplementation alter one carbon metabolism and <sc>DNA</sc> methylation in the brain. Journal of Neurochemistry, 2018, 145, 362-373.	2.1	25
78	Mitochondrial translation requires folate-dependent tRNA methylation. Nature, 2018, 554, 128-132.	13.7	213
79	As Extracellular Glutamine Levels Decline, Asparagine Becomes an Essential Amino Acid. Cell Metabolism, 2018, 27, 428-438.e5.	7.2	220
80	Metabolomics and Isotope Tracing. Cell, 2018, 173, 822-837.	13.5	537
81	Quantitative Analysis of NAD Synthesis-Breakdown Fluxes. Cell Metabolism, 2018, 27, 1067-1080.e5.	7.2	363
82	Targeting hepatic glutaminase activity to ameliorate hyperglycemia. Nature Medicine, 2018, 24, 518-524.	15.2	50
83	Extraction and Quantitation of Nicotinamide Adenine Dinucleotide Redox Cofactors. Antioxidants and Redox Signaling, 2018, 28, 167-179.	2.5	136
84	Autophagy maintains tumour growth through circulating arginine. Nature, 2018, 563, 569-573.	13.7	279
85	Discovery and Functional Characterization of a Yeast Sugar Alcohol Phosphatase. ACS Chemical Biology, 2018, 13, 3011-3020.	1.6	12
86	Late-gestation maternal dietary methyl donor and cofactor supplementation in sheep partially reverses protection against allergic sensitization by IUGR. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R22-R33.	0.9	4
87	Ribosomes on the night shift. Science, 2018, 360, 710-711.	6.0	3
88	5,10-methenyltetrahydrofolate synthetase deficiency causes a neurometabolic disorder associated with microcephaly, epilepsy, and cerebral hypomyelination. Molecular Genetics and Metabolism, 2018, 125, 118-126.	0.5	18
89	Four Key Steps Control Glycolytic Flux in Mammalian Cells. Cell Systems, 2018, 7, 49-62.e8.	2.9	249
90	Nicotinamide adenine dinucleotide is transported into mammalian mitochondria. ELife, 2018, 7, .	2.8	111

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91	Diet-Induced Circadian Enhancer Remodeling Synchronizes Opposing Hepatic Lipid Metabolic Processes. <i>Cell</i> , 2018, 174, 831-842.e12.	13.5	150
92	Ketohexokinase C blockade ameliorates fructose-induced metabolic dysfunction in fructose-sensitive mice. <i>Journal of Clinical Investigation</i> , 2018, 128, 2226-2238.	3.9	89
93	Metabolite Spectral Accuracy on Orbitraps. <i>Analytical Chemistry</i> , 2017, 89, 5940-5948.	3.2	201
94	Treatment of Pancreatic Cancer Patient-Derived Xenograft Panel with Metabolic Inhibitors Reveals Efficacy of Phenformin. <i>Clinical Cancer Research</i> , 2017, 23, 5639-5647.	3.2	76
95	Direct evidence for cancer-cell-autonomous extracellular protein catabolism in pancreatic tumors. <i>Nature Medicine</i> , 2017, 23, 235-241.	15.2	263
96	Human SHMT inhibitors reveal defective glycine import as a targetable metabolic vulnerability of diffuse large B-cell lymphoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11404-11409.	3.3	190
97	Glucose feeds the TCA cycle via circulating lactate. <i>Nature</i> , 2017, 551, 115-118.	13.7	1,112
98	An LC-MS chemical derivatization method for the measurement of five different one-carbon states of cellular tetrahydrofolate. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5955-5964.	1.9	40
99	Chemical Basis for Deuterium Labeling of Fat and NADPH. <i>Journal of the American Chemical Society</i> , 2017, 139, 14368-14371.	6.6	71
100	Enhancing CD8+ T Cell Fatty Acid Catabolism within a Metabolically Challenging Tumor Microenvironment Increases the Efficacy of Melanoma Immunotherapy. <i>Cancer Cell</i> , 2017, 32, 377-391.e9.	7.7	419
101	mTOR Inhibition Restores Amino Acid Balance in Cells Dependent on Catabolism of Extracellular Protein. <i>Molecular Cell</i> , 2017, 67, 936-946.e5.	4.5	78
102	A Unified Approach to Targeting the Lysosome's Degradative and Growth Signaling Roles. <i>Cancer Discovery</i> , 2017, 7, 1266-1283.	7.7	159
103	PDK4 Inhibits Cardiac Pyruvate Oxidation in Late Pregnancy. <i>Circulation Research</i> , 2017, 121, 1370-1378.	2.0	33
104	Dynamic Control of dNTP Synthesis in Early Embryos. <i>Developmental Cell</i> , 2017, 42, 301-308.e3.	3.1	30
105	Bisphosphoglycerate mutase controls serine pathway flux via 3-phosphoglycerate. <i>Nature Chemical Biology</i> , 2017, 13, 1081-1087.	3.9	47
106	Post-transcriptional Regulation of De Novo Lipogenesis by mTORC1-S6K1-SRPK2 Signaling. <i>Cell</i> , 2017, 171, 1545-1558.e18.	13.5	159
107	Metabolite Measurement: Pitfalls to Avoid and Practices to Follow. <i>Annual Review of Biochemistry</i> , 2017, 86, 277-304.	5.0	322
108	One-Carbon Metabolism in Health and Disease. <i>Cell Metabolism</i> , 2017, 25, 27-42.	7.2	1,275

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109	A systematic genetic screen for genes involved in sensing inorganic phosphate availability in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2017, 12, e0176085.	1.1	25
110	Mitochondrial Biogenesis and Proteome Remodeling Promote One-Carbon Metabolism for T Cell Activation. <i>Cell Metabolism</i> , 2016, 24, 104-117.	7.2	282
111	Reversal of Cytosolic One-Carbon Flux Compensates for Loss of the Mitochondrial Folate Pathway. <i>Cell Metabolism</i> , 2016, 23, 1140-1153.	7.2	296
112	Metabolite concentrations, fluxes and free energies imply efficient enzyme usage. <i>Nature Chemical Biology</i> , 2016, 12, 482-489.	3.9	332
113	Loss of NAD Homeostasis Leads to Progressive and Reversible Degeneration of Skeletal Muscle. <i>Cell Metabolism</i> , 2016, 24, 269-282.	7.2	273
114	Autophagy provides metabolic substrates to maintain energy charge and nucleotide pools in Ras-driven lung cancer cells. <i>Genes and Development</i> , 2016, 30, 1704-1717.	2.7	291
115	Glucose becomes one of the worst carbon sources for <i>E.coli</i> on poor nitrogen sources due to suboptimal levels of cAMP. <i>Scientific Reports</i> , 2016, 6, 24834.	1.6	110
116	Physiological Suppression of Lipotoxic Liver Damage by Complementary Actions of HDAC3 and ASCAP/SREBP. <i>Cell Metabolism</i> , 2016, 24, 863-874.	7.2	59
117	Systems-level analysis of mechanisms regulating yeast metabolic flux. <i>Science</i> , 2016, 354, .	6.0	236
118	Metabolic control of methylation and acetylation. <i>Current Opinion in Chemical Biology</i> , 2016, 30, 52-60.	2.8	241
119	Malic enzyme tracers reveal hypoxia-induced switch in adipocyte NADPH pathway usage. <i>Nature Chemical Biology</i> , 2016, 12, 345-352.	3.9	103
120	Mitochondria and Cancer. <i>Molecular Cell</i> , 2016, 61, 667-676.	4.5	800
121	A branched-chain amino acid metabolite drives vascular fatty acid transport and causes insulin resistance. <i>Nature Medicine</i> , 2016, 22, 421-426.	15.2	421
122	Partners in the Warburg effect. <i>ELife</i> , 2016, 5, e15938.	2.8	10
123	Human Pancreatic Cancer Tumors Are Nutrient Poor and Tumor Cells Actively Scavenge Extracellular Protein. <i>Cancer Research</i> , 2015, 75, 544-553.	0.4	673
124	ZMP: A Master Regulator of One-Carbon Metabolism. <i>Molecular Cell</i> , 2015, 57, 203-204.	4.5	13
125	Avoiding Misannotation of In-Source Fragmentation Products as Cellular Metabolites in Liquid Chromatography-Mass Spectrometry-Based Metabolomics. <i>Analytical Chemistry</i> , 2015, 87, 2273-2281.	3.2	160
126	Hierarchy in Pentose Sugar Metabolism in <i>Clostridium acetobutylicum</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 1452-1462.	1.4	38



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127	A roadmap for interpreting <sup>13</sup> C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015, 34, 189-201.	3.3	513
128	Characterizing the in vivo role of trehalose in <i>Saccharomyces cerevisiae</i> using the <i>AGT1</i> transporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6116-6121.	3.3	77
129	Fatty Acid Elongase 7 Catalyzes Lipidome Remodeling Essential for Human Cytomegalovirus Replication. <i>Cell Reports</i> , 2015, 10, 1375-1385.	2.9	73
130	Oncogenic Myc Induces Expression of Glutamine Synthetase through Promoter Demethylation. <i>Cell Metabolism</i> , 2015, 22, 1068-1077.	7.2	189
131	RNA Futile Cycling in Model Persists Derived from MazF Accumulation. <i>MBio</i> , 2015, 6, e01588-15.	1.8	48
132	The return of metabolism: biochemistry and physiology of the pentose phosphate pathway. <i>Biological Reviews</i> , 2015, 90, 927-963.	4.7	908
133	Genetic Basis of Metabolome Variation in Yeast. <i>PLoS Genetics</i> , 2014, 10, e1004142.	1.5	53
134	Serine Catabolism Regulates Mitochondrial Redox Control during Hypoxia. <i>Cancer Discovery</i> , 2014, 4, 1406-1417.	7.7	342
135	Autophagy Is Required for Glucose Homeostasis and Lung Tumor Maintenance. <i>Cancer Discovery</i> , 2014, 4, 914-927.	7.7	450
136	Asparagine Plays a Critical Role in Regulating Cellular Adaptation to Glutamine Depletion. <i>Molecular Cell</i> , 2014, 56, 205-218.	4.5	347
137	Functional Role of Autophagy-Mediated Proteome Remodeling in Cell Survival Signaling and Innate Immunity. <i>Molecular Cell</i> , 2014, 55, 916-930.	4.5	96
138	Enzyme clustering accelerates processing of intermediates through metabolic channeling. <i>Nature Biotechnology</i> , 2014, 32, 1011-1018.	9.4	340
139	LC-MS and GC-MS based metabolomics platform for cancer research. <i>Cancer &amp; Metabolism</i> , 2014, 2, .	2.4	3
140	Quantitation of Cellular Metabolic Fluxes of Methionine. <i>Analytical Chemistry</i> , 2014, 86, 1583-1591.	3.2	42
141	Quantitative flux analysis reveals folate-dependent NADPH production. <i>Nature</i> , 2014, 510, 298-302.	13.7	892
142	Pyrimidine homeostasis is accomplished by directed overflow metabolism. <i>Nature</i> , 2013, 500, 237-241.	13.7	102
143	Chemical Genetics of Rapamycin-Insensitive TORC2 in <i>S.Âcerevisiae</i> . <i>Cell Reports</i> , 2013, 5, 1725-1736.	2.9	31
144	Biochemical and Structural Studies of Conserved Maf Proteins Revealed Nucleotide Pyrophosphatases with a Preference for Modified Nucleotides. <i>Chemistry and Biology</i> , 2013, 20, 1386-1398.	6.2	15

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145	Nucleotide degradation and ribose salvage in yeast. <i>Molecular Systems Biology</i> , 2013, 9, 665.	3.2	58
146	Macropinocytosis of protein is an amino acid supply route in Ras-transformed cells. <i>Nature</i> , 2013, 497, 633-637.	13.7	1,316
147	Autophagy suppresses progression of K-ras-induced lung tumors to oncocytomas and maintains lipid homeostasis. <i>Genes and Development</i> , 2013, 27, 1447-1461.	2.7	529
148	Glutamine-driven oxidative phosphorylation is a major ATP source in transformed mammalian cells in both normoxia and hypoxia. <i>Molecular Systems Biology</i> , 2013, 9, 712.	3.2	338
149	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> , 2013, 110, 8882-8887.	3.3	585
150	Ultrasensitive regulation of anapleurosis via allosteric activation of PEP carboxylase. <i>Nature Chemical Biology</i> , 2012, 8, 562-568.	3.9	72
151	Regulation of Yeast Pyruvate Kinase by Ultrasensitive Allostery Independent of Phosphorylation. <i>Molecular Cell</i> , 2012, 48, 52-62.	4.5	59
152	LC-MS Data Processing with MAVEN: A Metabolomic Analysis and Visualization Engine. <i>Current Protocols in Bioinformatics</i> , 2012, 37, Unit14.11.	25.8	406
153	Teaching the design principles of metabolism. <i>Nature Chemical Biology</i> , 2012, 8, 497-501.	3.9	26
154	$\hat{\alpha}$ -ketoglutarate coordinates carbon and nitrogen utilization via enzyme I inhibition. <i>Nature Chemical Biology</i> , 2011, 7, 894-901.	3.9	212
155	Riboneogenesis in Yeast. <i>Cell</i> , 2011, 145, 969-980.	13.5	105
156	Liquid Chromatography-High Resolution Mass Spectrometry Analysis of Fatty Acid Metabolism. <i>Analytical Chemistry</i> , 2011, 83, 9114-9122.	3.2	82
157	Robust Control of Nitrogen Assimilation by a Bifunctional Enzyme in <i>E. coli</i> . <i>Molecular Cell</i> , 2011, 41, 117-127.	4.5	56
158	Metabolome Remodeling during the Acidogenic-Solventogenic Transition in <i>Clostridium acetobutylicum</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 7984-7997.	1.4	105
159	Metabolomics in systems microbiology. <i>Current Opinion in Biotechnology</i> , 2011, 22, 17-25.	3.3	110
160	Yeast cells can access distinct quiescent states. <i>Genes and Development</i> , 2011, 25, 336-349.	2.7	143
161	Survival of starving yeast is correlated with oxidative stress response and nonrespiratory mitochondrial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1089-98.	3.3	93
162	Activated Ras requires autophagy to maintain oxidative metabolism and tumorigenesis. <i>Genes and Development</i> , 2011, 25, 460-470.	2.7	1,093

#	ARTICLE	IF	CITATIONS
163	Divergent Effects of Human Cytomegalovirus and Herpes Simplex Virus-1 on Cellular Metabolism. <i>PLoS Pathogens</i> , 2011, 7, e1002124.	2.1	280
164	Remodeling of the Metabolome during Early Frog Development. <i>PLoS ONE</i> , 2011, 6, e16881.	1.1	59
165	Enhancing molecular discovery using descriptor-free rearrangement clustering techniques for sparse data sets. <i>AIChE Journal</i> , 2010, 56, 405-418.	1.8	1
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