

Ralph J Deberardinis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3691162/ralph-j-deberardinis-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

208
papers

38,171
citations

83
h-index

195
g-index

237
ext. papers

47,162
ext. citations

17.7
avg, IF

7.8
L-index

#	Paper	IF	Citations
208	The biology of cancer: metabolic reprogramming fuels cell growth and proliferation. <i>Cell Metabolism</i> , 2008 , 7, 11-20	24.6	2786
207	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018 , 25, 486-541	12.7	2160
206	Beyond aerobic glycolysis: transformed cells can engage in glutamine metabolism that exceeds the requirement for protein and nucleotide synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19345-50	11.5	1758
205	Myc regulates a transcriptional program that stimulates mitochondrial glutaminolysis and leads to glutamine addiction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18782-7	11.5	1379
204	Fundamentals of cancer metabolism. <i>Science Advances</i> , 2016 , 2, e1600200	14.3	1280
203	Understanding the Intersections between Metabolism and Cancer Biology. <i>Cell</i> , 2017 , 168, 657-669	56.2	971
202	Reductive carboxylation supports growth in tumour cells with defective mitochondria. <i>Nature</i> , 2011 , 481, 385-8	50.4	853
201	High frequency retrotransposition in cultured mammalian cells. <i>Cell</i> , 1996 , 87, 917-27	56.2	808
200	Role of PFKFB3-driven glycolysis in vessel sprouting. <i>Cell</i> , 2013 , 154, 651-63	56.2	798
199	Metabolic pathways promoting cancer cell survival and growth. <i>Nature Cell Biology</i> , 2015 , 17, 351-9	23.4	785
198	Brick by brick: metabolism and tumor cell growth. <i>Current Opinion in Genetics and Development</i> , 2008 , 18, 54-61	4.9	769
197	Toll-like receptor-induced changes in glycolytic metabolism regulate dendritic cell activation. <i>Blood</i> , 2010 , 115, 4742-9	2.2	746
196	Systemic treatment with the antidiabetic drug metformin selectively impairs p53-deficient tumor cell growth. <i>Cancer Research</i> , 2007 , 67, 6745-52	10.1	746
195	The distinct metabolic profile of hematopoietic stem cells reflects their location in a hypoxic niche. <i>Cell Stem Cell</i> , 2010 , 7, 380-90	18	729
194	Glutamine and cancer: cell biology, physiology, and clinical opportunities. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3678-84	15.9	710
193	Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015 , 527, 186-91	50.4	681
192	Autophagy in metazoans: cell survival in the land of plenty. <i>Nature Reviews Molecular Cell Biology</i> , 2005 , 6, 439-48	48.7	646

191	Metabolic Heterogeneity in Human Lung Tumors. <i>Cell</i> , 2016 , 164, 681-94	56.2	593
190	AMPK is a negative regulator of the Warburg effect and suppresses tumor growth in vivo. <i>Cell Metabolism</i> , 2013 , 17, 113-24	24.6	593
189	A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. <i>Nature Materials</i> , 2014 , 13, 204-12	27	590
188	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. <i>Nature Medicine</i> , 2012 , 18, 624-9	50.5	584
187	Analysis of cancer metabolism by imaging hyperpolarized nuclei: prospects for translation to clinical research. <i>Neoplasia</i> , 2011 , 13, 81-97	6.4	570
186	Lactate Metabolism in Human Lung Tumors. <i>Cell</i> , 2017 , 171, 358-371.e9	56.2	568
185	Cellular metabolism and disease: what do metabolic outliers teach us?. <i>Cell</i> , 2012 , 148, 1132-44	56.2	509
184	Exon shuffling by L1 retrotransposition. <i>Science</i> , 1999 , 283, 1530-4	33.3	505
183	Acetate is a bioenergetic substrate for human glioblastoma and brain metastases. <i>Cell</i> , 2014 , 159, 1603-1612	36.2	457
182	Analysis of tumor metabolism reveals mitochondrial glucose oxidation in genetically diverse human glioblastomas in the mouse brain in vivo. <i>Cell Metabolism</i> , 2012 , 15, 827-37	24.6	389
181	Many human L1 elements are capable of retrotransposition. <i>Nature Genetics</i> , 1997 , 16, 37-43	36.3	384
180	Hypoxia induces heart regeneration in adult mice. <i>Nature</i> , 2017 , 541, 222-227	50.4	378
179	Glutamine oxidation maintains the TCA cycle and cell survival during impaired mitochondrial pyruvate transport. <i>Molecular Cell</i> , 2014 , 56, 414-424	17.6	376
178	A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 189-201	11.4	368
177	Haem oxygenase is synthetically lethal with the tumour suppressor fumarate hydratase. <i>Nature</i> , 2011 , 477, 225-8	50.4	367
176	Metabolic reprogramming and cancer progression. <i>Science</i> , 2020 , 368,	33.3	360
175	Pyruvate carboxylase is required for glutamine-independent growth of tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8674-9	11.5	350
174	Reductive carboxylation supports redox homeostasis during anchorage-independent growth. <i>Nature</i> , 2016 , 532, 255-8	50.4	332

173	Glioblastoma cells require glutamate dehydrogenase to survive impairments of glucose metabolism or Akt signaling. <i>Cancer Research</i> , 2009 , 69, 7986-93	10.1	313
172	The glucose dependence of Akt-transformed cells can be reversed by pharmacologic activation of fatty acid beta-oxidation. <i>Oncogene</i> , 2005 , 24, 4165-73	9.2	302
171	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017 , 549, 476-483	10.4	272
170	The transcription factor HIF-1alpha plays a critical role in the growth factor-dependent regulation of both aerobic and anaerobic glycolysis. <i>Genes and Development</i> , 2007 , 21, 1037-49	12.6	270
169	TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. <i>Molecular Cell</i> , 2016 , 61, 199-209	17.6	269
168	Phosphoglycerate mutase 1 coordinates glycolysis and biosynthesis to promote tumor growth. <i>Cancer Cell</i> , 2012 , 22, 585-600	24.3	268
167	Metabolism of [U-13 C]glucose in human brain tumors in vivo. <i>NMR in Biomedicine</i> , 2012 , 25, 1234-44	4.4	229
166	A role for the mitochondrial pyruvate carrier as a repressor of the Warburg effect and colon cancer cell growth. <i>Molecular Cell</i> , 2014 , 56, 400-413	17.6	221
165	Human enteric defensins. Gene structure and developmental expression. <i>Journal of Biological Chemistry</i> , 1996 , 271, 4038-45	5.4	221
164	Determination of L1 retrotransposition kinetics in cultured cells. <i>Nucleic Acids Research</i> , 2000 , 28, 1418-23	3.1	218
163	Oxidation of alpha-ketoglutarate is required for reductive carboxylation in cancer cells with mitochondrial defects. <i>Cell Reports</i> , 2014 , 7, 1679-1690	10.6	216
162	We need to talk about the Warburg effect. <i>Nature Metabolism</i> , 2020 , 2, 127-129	14.6	205
161	Mitochondrial reactive oxygen species promote epidermal differentiation and hair follicle development. <i>Science Signaling</i> , 2013 , 6, ra8	8.8	204
160	The proto-oncometabolite fumarate binds glutathione to amplify ROS-dependent signaling. <i>Molecular Cell</i> , 2013 , 51, 236-48	17.6	195
159	Glutamate dehydrogenase 1 signals through antioxidant glutathione peroxidase 1 to regulate redox homeostasis and tumor growth. <i>Cancer Cell</i> , 2015 , 27, 257-70	24.3	194
158	Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. <i>Nature</i> , 2019 , 566, 403-406	50.4	187
157	Phosphatidylinositol 3-kinase-dependent modulation of carnitine palmitoyltransferase 1A expression regulates lipid metabolism during hematopoietic cell growth. <i>Journal of Biological Chemistry</i> , 2006 , 281, 37372-80	5.4	175
156	The gut commensal <i>Bacteroides thetaiotaomicron</i> exacerbates enteric infection through modification of the metabolic landscape. <i>Cell Host and Microbe</i> , 2014 , 16, 759-69	23.4	171

155	A mouse model of human L1 retrotransposition. <i>Nature Genetics</i> , 2002 , 32, 655-60	36.3	169
154	Is cancer a disease of abnormal cellular metabolism? New angles on an old idea. <i>Genetics in Medicine</i> , 2008 , 10, 767-77	8.1	162
153	Mechanisms and Implications of Metabolic Heterogeneity in Cancer. <i>Cell Metabolism</i> , 2019 , 30, 434-446	24.6	159
152	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. <i>Nature Cell Biology</i> , 2015 , 17, 1484-96	23.4	153
151	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. <i>Nature Cell Biology</i> , 2017 , 19, 1027-1036	23.4	152
150	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. <i>PLoS Biology</i> , 2015 , 13, e1002309	9.7	142
149	Metabolic heterogeneity confers differences in melanoma metastatic potential. <i>Nature</i> , 2020 , 577, 115-120	52.4	141
148	Metabolic reprogramming induces resistance to anti-NOTCH1 therapies in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2015 , 21, 1182-9	50.5	139
147	Mechanical regulation of glycolysis via cytoskeleton architecture. <i>Nature</i> , 2020 , 578, 621-626	50.4	137
146	CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. <i>Nature</i> , 2017 , 546, 168-172	50.4	136
145	MCT4 defines a glycolytic subtype of pancreatic cancer with poor prognosis and unique metabolic dependencies. <i>Cell Reports</i> , 2014 , 9, 2233-49	10.6	130
144	Systematic identification of molecular subtype-selective vulnerabilities in non-small-cell lung cancer. <i>Cell</i> , 2013 , 155, 552-66	56.2	129
143	The G protein-coupled taste receptor T1R1/T1R3 regulates mTORC1 and autophagy. <i>Molecular Cell</i> , 2012 , 47, 851-62	17.6	129
142	PEPCK Coordinates the Regulation of Central Carbon Metabolism to Promote Cancer Cell Growth. <i>Molecular Cell</i> , 2015 , 60, 571-83	17.6	126
141	Rapid amplification of a retrotransposon subfamily is evolving the mouse genome. <i>Nature Genetics</i> , 1998 , 20, 288-90	36.3	126
140	Glutamine: pleiotropic roles in tumor growth and stress resistance. <i>Journal of Molecular Medicine</i> , 2011 , 89, 229-36	5.5	124
139	Molecular Profiling Reveals Unique Immune and Metabolic Features of Melanoma Brain Metastases. <i>Cancer Discovery</i> , 2019 , 9, 628-645	24.4	124
138	Fatty Acid Oxidation Mediated by Acyl-CoA Synthetase Long Chain 3 Is Required for Mutant KRAS Lung Tumorigenesis. <i>Cell Reports</i> , 2016 , 16, 1614-1628	10.6	123

137	Metabolic Profiling Using Stable Isotope Tracing Reveals Distinct Patterns of Glucose Utilization by Physiologically Activated CD8 T Cells. <i>Immunity</i> , 2019 , 51, 856-870.e5	32.3	122
136	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation In Vivo. <i>Cell Metabolism</i> , 2018 , 28, 793-800.e2	24.6	118
135	Metabolic regulation of transcription through compartmentalized NAD biosynthesis. <i>Science</i> , 2018 , 360,	33.3	111
134	LKB1 and KEAP1/NRF2 Pathways Cooperatively Promote Metabolic Reprogramming with Enhanced Glutamine Dependence in -Mutant Lung Adenocarcinoma. <i>Cancer Research</i> , 2019 , 79, 3251-3267	10.1	103
133	Lipoic acid metabolism and mitochondrial redox regulation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7522-7530	5.4	99
132	Role of glutamine in cancer: therapeutic and imaging implications. <i>Journal of Nuclear Medicine</i> , 2011 , 52, 1005-8	8.9	96
131	Comparison of kinetic models for analysis of pyruvate-to-lactate exchange by hyperpolarized ¹³ C NMR. <i>NMR in Biomedicine</i> , 2012 , 25, 1286-94	4.4	89
130	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated protein translation. <i>Nature Cell Biology</i> , 2017 , 19, 626-638	23.4	88
129	Metabolic strategies of melanoma cells: Mechanisms, interactions with the tumor microenvironment, and therapeutic implications. <i>Pigment Cell and Melanoma Research</i> , 2018 , 31, 11-30	4.5	88
128	Inhibition of cancer cell proliferation by PPAR α s mediated by a metabolic switch that increases reactive oxygen species levels. <i>Cell Metabolism</i> , 2014 , 20, 650-61	24.6	88
127	MAVS, cGAS, and endogenous retroviruses in T-independent B cell responses. <i>Science</i> , 2014 , 346, 1486-93	33.3	87
126	Applications of metabolomics to study cancer metabolism. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018 , 1870, 2-14	11.2	86
125	Cytochrome c Oxidase Activity Is a Metabolic Checkpoint that Regulates Cell Fate Decisions During T Cell Activation and Differentiation. <i>Cell Metabolism</i> , 2017 , 25, 1254-1268.e7	24.6	83
124	Targeting glutamine metabolism sensitizes pancreatic cancer to PARP-driven metabolic catastrophe induced by β apachone. <i>Cancer & Metabolism</i> , 2015 , 3, 12	5.4	83
123	Lysine acetylation activates 6-phosphogluconate dehydrogenase to promote tumor growth. <i>Molecular Cell</i> , 2014 , 55, 552-65	17.6	78
122	A tribute to Beth Levine (1960-2020). <i>Journal of Clinical Investigation</i> , 2020 , 130, 4517-4518	15.9	78
121	Autophagy Regulation of Metabolism Is Required for CD8 T Cell Anti-tumor Immunity. <i>Cell Reports</i> , 2019 , 27, 502-513.e5	10.6	76
120	Inosine Monophosphate Dehydrogenase Dependence in a Subset of Small Cell Lung Cancers. <i>Cell Metabolism</i> , 2018 , 28, 369-382.e5	24.6	76

119	Serine metabolism: some tumors take the road less traveled. <i>Cell Metabolism</i> , 2011 , 14, 285-6	24.6	73
118	Lipid sensing by mTOR complexes via synthesis of phosphatidic acid. <i>Journal of Biological Chemistry</i> , 2017 , 292, 6303-6311	5.4	70
117	Spectrum of mutations in the renin-angiotensin system genes in autosomal recessive renal tubular dysgenesis. <i>Human Mutation</i> , 2012 , 33, 316-26	4.7	68
116	Metabolic dysregulation in monogenic disorders and cancer - finding method in madness. <i>Nature Reviews Cancer</i> , 2015 , 15, 440-8	31.3	66
115	MYC promotes tryptophan uptake and metabolism by the kynurenine pathway in colon cancer. <i>Genes and Development</i> , 2019 , 33, 1236-1251	12.6	65
114	Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart: Implications for Cardiac Reloading and Conditioning. <i>JACC Basic To Translational Science</i> , 2016 , 1, 432-444	8.7	65
113	Tumor Microenvironment, Metabolism, and Immunotherapy. <i>New England Journal of Medicine</i> , 2020 , 382, 869-871	59.2	63
112	Cutting Edge: Critical Role of Glycolysis in Human Plasmacytoid Dendritic Cell Antiviral Responses. <i>Journal of Immunology</i> , 2016 , 196, 2004-9	5.3	63
111	A comparative study of short- and long-TE ^1H MRS at 3 T for in vivo detection of 2-hydroxyglutarate in brain tumors. <i>NMR in Biomedicine</i> , 2013 , 26, 1242-50	4.4	63
110	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019 , 9, 1228-1247	24.4	61
109	Genetically-defined metabolic reprogramming in cancer. <i>Trends in Endocrinology and Metabolism</i> , 2012 , 23, 552-9	8.8	60
108	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018 , 24, 617-627	50.5	58
107	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. <i>Cell</i> , 2018 , 173, 864-878.e29	56.2	58
106	Both GLS silencing and GLS2 overexpression synergize with oxidative stress against proliferation of glioma cells. <i>Journal of Molecular Medicine</i> , 2014 , 92, 277-90	5.5	58
105	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015 , 6, 8524	17.4	57
104	Glucose metabolism via the pentose phosphate pathway, glycolysis and Krebs cycle in an orthotopic mouse model of human brain tumors. <i>NMR in Biomedicine</i> , 2012 , 25, 1177-86	4.4	57
103	Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. <i>EMBO Molecular Medicine</i> , 2016 , 8, 1134-1142	12	57
102	MYC-Driven Small-Cell Lung Cancer is Metabolically Distinct and Vulnerable to Arginine Depletion. <i>Clinical Cancer Research</i> , 2019 , 25, 5107-5121	12.9	56

101	Quantitative metabolic flux analysis reveals an unconventional pathway of fatty acid synthesis in cancer cells deficient for the mitochondrial citrate transport protein. <i>Metabolic Engineering</i> , 2017 , 43, 198-207	9.7	52
100	Mechanism by which a recently discovered allosteric inhibitor blocks glutamine metabolism in transformed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 394-9	11.5	52
99	Metabolic Diversity in Human Non-Small Cell Lung Cancer Cells. <i>Molecular Cell</i> , 2019 , 76, 838-851.e5	17.6	51
98	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. <i>Nature Cell Biology</i> , 2019 , 21, 1003-1014	23.4	51
97	A mitochondrial RNAi screen defines cellular bioenergetic determinants and identifies an adenylate kinase as a key regulator of ATP levels. <i>Cell Reports</i> , 2014 , 7, 907-17	10.6	50
96	Analysis of the promoter from an expanding mouse retrotransposon subfamily. <i>Genomics</i> , 1999 , 56, 317-23	23	50
95	D2HGDH regulates alpha-ketoglutarate levels and dioxygenase function by modulating IDH2. <i>Nature Communications</i> , 2015 , 6, 7768	17.4	47
94	Hypoxic metabolism in human hematopoietic stem cells. <i>Cell and Bioscience</i> , 2015 , 5, 39	9.8	47
93	LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4063-76	15.9	47
92	RIPK1-mediated induction of mitophagy compromises the viability of extracellular-matrix-detached cells. <i>Nature Cell Biology</i> , 2018 , 20, 272-284	23.4	46
91	Analysis of hypoxia-induced metabolic reprogramming. <i>Methods in Enzymology</i> , 2014 , 542, 425-55	1.7	46
90	The hypoxic epicardial and subepicardial microenvironment. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 654-65	3.3	46
89	Real-time detection of hepatic gluconeogenic and glycogenolytic states using hyperpolarized [2-13C]dihydroxyacetone. <i>Journal of Biological Chemistry</i> , 2014 , 289, 35859-67	5.4	45
88	Simultaneous steady-state and dynamic 13C NMR can differentiate alternative routes of pyruvate metabolism in living cancer cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6212-24	5.4	44
87	Tetrameric Acetyl-CoA Acetyltransferase 1 Is Important for Tumor Growth. <i>Molecular Cell</i> , 2016 , 64, 859-874	17.4	42
86	The NQO1 bioactivatable drug, Elapachone, alters the redox state of NQO1+ pancreatic cancer cells, causing perturbation in central carbon metabolism. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18203-18216	5.4	41
85	Tumor-selective use of DNA base excision repair inhibition in pancreatic cancer using the NQO1 bioactivatable drug, Elapachone. <i>Scientific Reports</i> , 2015 , 5, 17066	4.9	40
84	Chronic innate immune activation of TBK1 suppresses mTORC1 activity and dysregulates cellular metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 746-751	11.5	39

83	Measurement of glycine in the human brain in vivo by 1H-MRS at 3 T: application in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 609-18	4.4	39
82	Metabolic plasticity maintains proliferation in pyruvate dehydrogenase deficient cells. <i>Cancer & Metabolism</i> , 2015 , 3, 7	5.4	38
81	p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. <i>Cell Reports</i> , 2019 , 28, 1860-1878.e9	10.6	35
80	Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. <i>Blood</i> , 2014 , 123, 992-1001	2.2	32
79	Mutations in mitochondrial enzyme GPT2 cause metabolic dysfunction and neurological disease with developmental and progressive features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5598-607	11.5	32
78	Biomarker Accessible and Chemically Addressable Mechanistic Subtypes of BRAF Melanoma. <i>Cancer Discovery</i> , 2017 , 7, 832-851	24.4	31
77	A Novel Mitochondrial Inhibitor Blocks MAPK Pathway and Overcomes MAPK Inhibitor Resistance in Melanoma. <i>Clinical Cancer Research</i> , 2019 , 25, 6429-6442	12.9	30
76	Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. <i>Nature Communications</i> , 2018 , 9, 814	17.4	30
75	A novel radiotracer to image glycogen metabolism in tumors by positron emission tomography. <i>Cancer Research</i> , 2014 , 74, 1319-28	10.1	30
74	Glutathione Depletion, Pentose Phosphate Pathway Activation, and Hemolysis in Erythrocytes Protecting Cancer Cells from Vitamin C-induced Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22861-22867	5.4	29
73	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017 , 3, eaao5268	14.3	28
72	Hyperpolarized (13)C Magnetic Resonance and Its Use in Metabolic Assessment of Cultured Cells and Perfused Organs. <i>Methods in Enzymology</i> , 2015 , 561, 73-106	1.7	28
71	Isocitrate dehydrogenase 1/2 mutational analyses and 2-hydroxyglutarate measurements in Wilms tumors. <i>Pediatric Blood and Cancer</i> , 2011 , 56, 379-83	3	27
70	Regulation of branched-chain amino acid metabolism by hypoxia-inducible factor in glioblastoma. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 195-206	10.3	27
69	Analyzing Tumor Metabolism In Vivo. <i>Annual Review of Cancer Biology</i> , 2017 , 1, 99-117	13.3	26
68	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. <i>Nature Metabolism</i> , 2020 , 2, 1401-1412	14.6	26
67	Reactive metabolite production is a targetable liability of glycolytic metabolism in lung cancer. <i>Nature Communications</i> , 2019 , 10, 5604	17.4	25
66	Loss of a Negative Regulator of mTORC1 Induces Aerobic Glycolysis and Altered Fiber Composition in Skeletal Muscle. <i>Cell Reports</i> , 2018 , 23, 1907-1914	10.6	25

65	Cancer-Specific Production of N-Acetylaspartate via NAT8L Overexpression in Non-Small Cell Lung Cancer and Its Potential as a Circulating Biomarker. <i>Cancer Prevention Research</i> , 2016 , 9, 43-52	3.2	24
64	Oxidation of [U- ¹³ C]glucose in the human brain at 7T under steady state conditions. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2065-2071	4.4	20
63	Wilms tumor in a child with L-2-hydroxyglutaric aciduria. <i>Pediatric and Developmental Pathology</i> , 2010 , 13, 408-11	2.2	20
62	Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. <i>ELife</i> , 2020 , 9,	8.9	20
61	Mitochondrial NADP is essential for proline biosynthesis during cell growth. <i>Nature Metabolism</i> , 2021 , 3, 571-585	14.6	20
60	Functional Assessment of Lipoyltransferase-1 Deficiency in Cells, Mice, and Humans. <i>Cell Reports</i> , 2019 , 27, 1376-1386.e6	10.6	19
59	Transmembrane Protease TMPRSS11B Promotes Lung Cancer Growth by Enhancing Lactate Export and Glycolytic Metabolism. <i>Cell Reports</i> , 2018 , 25, 2223-2233.e6	10.6	19
58	Using a novel NQO1 bioactivatable drug, beta-lapachone (ARQ761), to enhance chemotherapeutic effects by metabolic modulation in pancreatic cancer. <i>Journal of Surgical Oncology</i> , 2017 , 116, 83-88	2.8	17
57	6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. <i>Molecular Cell</i> , 2019 , 76, 857-871.e9	17.6	15
56	The cancer cell energy grid TGF- β signaling coordinates metabolism for migration. <i>Molecular and Cellular Oncology</i> , 2015 , 2, e981994	1.2	15
55	Induction of LEF1 by MYC activates the WNT pathway and maintains cell proliferation. <i>Cell Communication and Signaling</i> , 2019 , 17, 129	7.5	15
54	Guanosine triphosphate links MYC-dependent metabolic and ribosome programs in small-cell lung cancer. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	15
53	Gain-of-function variants in the ODC1 gene cause a syndromic neurodevelopmental disorder associated with macrocephaly, alopecia, dysmorphic features, and neuroimaging abnormalities. <i>American Journal of Medical Genetics, Part A</i> , 2018 , 176, 2554-2560	2.5	15
52	EWS-FLI1-regulated Serine Synthesis and Exogenous Serine are Necessary for Ewing Sarcoma Cellular Proliferation and Tumor Growth. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 1520-1529	6.1	13
51	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020 , 22, 1018-1029	1	13
50	In vivo analysis of lung cancer metabolism: nothing like the real thing. <i>Journal of Clinical Investigation</i> , 2015 , 125, 495-7	15.9	13
49	1-Methylnicotinamide is an immune regulatory metabolite in human ovarian cancer. <i>Science Advances</i> , 2021 , 7,	14.3	13
48	Using arterial-venous analysis to characterize cancer metabolic consumption in patients. <i>Nature Communications</i> , 2020 , 11, 3169	17.4	12

47	p53 deficiency triggers dysregulation of diverse cellular processes in physiological oxygen. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	12
46	Cancer. Silencing a metabolic oncogene. <i>Science</i> , 2013 , 340, 558-9	33.3	11
45	Full-length L1 elements have arisen recently in the same 1-kb region of the gorilla and human genomes. <i>Journal of Molecular Evolution</i> , 1998 , 47, 292-301	3.1	10
44	Good neighbours in the tumour stroma reduce oxidative stress. <i>Nature Cell Biology</i> , 2012 , 14, 235-6	23.4	9
43	Does Tumor FDG-PET Avidity Represent Enhanced Glycolytic Metabolism in Non-Small Cell Lung Cancer?. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1019-1025	2.7	9
42	Glutamine uptake and utilization of human mesenchymal glioblastoma in orthotopic mouse model. <i>Cancer & Metabolism</i> , 2020 , 8, 9	5.4	9
41	Cell-autonomous immune gene expression is repressed in pulmonary neuroendocrine cells and small cell lung cancer. <i>Communications Biology</i> , 2021 , 4, 314	6.7	9
40	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. <i>Nature Metabolism</i> , 2021 , 3, 244-257	14.6	9
39	Conditions for (13)C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. <i>Analytical Biochemistry</i> , 2015 , 481, 4-6	3.1	8
38	In vivo detection of citrate in brain tumors by 1H magnetic resonance spectroscopy at 3T. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 316-23	4.4	8
37	Concentration-dependent Early Antivasular and Antitumor Effects of Itraconazole in Non-Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 6017-6027	12.9	7
36	Metabolic Plasticity of Neutrophils: Relevance to Pathogen Responses and Cancer. <i>Trends in Cancer</i> , 2021 , 7, 700-713	12.5	7
35	Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. <i>Metabolism: Clinical and Experimental</i> , 2019 , 101, 153993	12.7	6
34	Hepatic gluconeogenesis influences (13)C enrichment in lactate in human brain tumors during metabolism of [1,2-(13)C]acetate. <i>Neurochemistry International</i> , 2016 , 97, 133-6	4.4	6
33	Blocking fatty acid synthesis reduces lung tumor growth in mice. <i>Nature Medicine</i> , 2016 , 22, 1077-1078	50.5	6
32	Assessment of Rapid Hepatic Glycogen Synthesis in Humans Using Dynamic C Magnetic Resonance Spectroscopy. <i>Hepatology Communications</i> , 2020 , 4, 425-433	6	5
31	Systematic Analysis of Gene Expression in Lung Adenocarcinoma and Squamous Cell Carcinoma with a Case Study of and. <i>Cancers</i> , 2019 , 11,	6.6	5
30	A mitochondrial power play in lymphoma. <i>Cancer Cell</i> , 2012 , 22, 423-4	24.3	5

29	Isotope tracing reveals glycolysis and oxidative metabolism in childhood tumors of multiple histologies. <i>Med</i> , 2021 , 2, 395-410	31.7	5
28	Proliferating Cells Conserve Nitrogen to Support Growth. <i>Cell Metabolism</i> , 2016 , 23, 957-958	24.6	4
27	A renal cell carcinoma tumorgraft platform to advance precision medicine. <i>Cell Reports</i> , 2021 , 37, 110055	10.6	4
26	Stable isotope tracing to assess tumor metabolism in vivo. <i>Nature Protocols</i> , 2021 , 16, 5123-5145	18.8	4
25	Metabolism: Growth in the fat lane. <i>Nature</i> , 2015 , 520, 165-6	50.4	3
24	Q&A: Targeting metabolism to diagnose and treat cancer. <i>Cancer & Metabolism</i> , 2014 , 2, 5	5.4	3
23	The transcription factors aryl hydrocarbon receptor and MYC cooperate in the regulation of cellular metabolism. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12398-12407	5.4	2
22	β-ketobutyrate links alterations in cystine metabolism to glucose oxidation in mtDNA mutant cells. <i>Metabolic Engineering</i> , 2020 , 60, 157-167	9.7	2
21	Engineering approaches to study cancer metabolism. <i>Metabolic Engineering</i> , 2017 , 43, 93	9.7	2
20	From "N of 1" to N of more. <i>Journal of Physical Education and Sports Management</i> , 2015 , 1, a000521	2.8	2
19	Metabolic diversity within breast cancer brain-tropic cells determines metastatic fitness.. <i>Cell Metabolism</i> , 2022 , 34, 90-105.e7	24.6	2
18	Vitamin B6-dependent epilepsy due to pyridoxal phosphate-binding protein (PLPBP) defect - First case report from Pakistan and review of literature. <i>Annals of Medicine and Surgery</i> , 2020 , 60, 721-727	2	2
17	Liposuction: Extracellular Fat Removal Promotes Proliferation. <i>Cell Chemical Biology</i> , 2016 , 23, 431-2	8.2	2
16	A pathogenic UFSP2 variant in an autosomal recessive form of pediatric neurodevelopmental anomalies and epilepsy. <i>Genetics in Medicine</i> , 2021 , 23, 900-908	8.1	2
15	Profiling Carbohydrate Metabolism in Liver and Hepatocellular Carcinoma with [13C]-Glycerate Probes. <i>Analysis & Sensing</i> , 2021 , 1, 196		2
14	SNAT7 regulates mTORC1 via macropinocytosis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123261119	11.5	2
13	N-Acetyl cysteine abrogates silver-induced reactive oxygen species in human cells without altering silver-based antimicrobial activity. <i>Toxicology Letters</i> , 2020 , 332, 118-129	4.4	1
12	Detection of glucose-derived D- and L-lactate in cancer cells by the use of a chiral NMR shift reagent. <i>Cancer & Metabolism</i> , 2021 , 9, 38	5.4	1

11	Precision mapping of the mouse brain metabolome		1
10	Metabolic Diversity in Human Non-Small Cell Lung Cancer Cells		1
9	Leveraging insights into cancer metabolism-a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1462, 5-13	6.5	1
8	Metabolic impact of pathogenic variants in the mitochondrial glutamyl-tRNA synthetase EARS2. <i>Journal of Inherited Metabolic Disease</i> , 2021 , 44, 949-960	5.4	1
7	Clinically relevant T _H 1 cell expansion media activate distinct metabolic programs uncoupled from cellular function.. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022 , 24, 380-393	6.4	0
6	AIF: an acquired metabolic liability in lung cancer. <i>Cell Research</i> , 2019 , 29, 607-608	24.7	
5	Quantitative Proteomic and Transcriptomic Analysis Reveals Post-Transcriptional Regulation of Mitochondrial Biogenesis during Erythropoiesis. <i>Blood</i> , 2015 , 126, 47-47	2.2	
4	Mitochondria Coordinate Intracellular Metabolism and Epigenetic Gene Regulation during Erythropoiesis. <i>Blood</i> , 2016 , 128, 1038-1038	2.2	
3	Addressing metabolic heterogeneity in clear cell renal cell carcinoma with quantitative magnetic resonance imaging.. <i>Journal of Clinical Oncology</i> , 2017 , 35, 460-460	2.2	
2	Abstract P5-05-01: Metabolite profiling and RNA-seq identifies novel metabolomic-genomic biomarker and therapeutic options for rapidly proliferating breast cancers. <i>Cancer Research</i> , 2022 , 82, P5-05-01-P5-05-01	10.1	
1	Optimized protocol for stable isotope tracing and steady-state metabolomics in mouse HER2+ breast cancer brain metastasis.. <i>STAR Protocols</i> , 2022 , 3, 101345	1.4	