

Ralph J Deberardinis

List of Publications by Year in descending order

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219
papers

53,885
citations

2963

93
h-index

1668

214
g-index

237
all docs

237
docs citations

237
times ranked

62551
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018, 25, 486-541.	5.0	4,036
2	The Biology of Cancer: Metabolic Reprogramming Fuels Cell Growth and Proliferation. <i>Cell Metabolism</i> , 2008, 7, 11-20.	7.2	3,421
3	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, 19345-19350.	3.3	2,127
4	Fundamentals of cancer metabolism. <i>Science Advances</i> , 2016, 2, e1600200.	4.7	2,039
5	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, 18782-18787.	3.3	1,655
6	Understanding the Intersections between Metabolism and Cancer Biology. <i>Cell</i> , 2017, 168, 657-669.	13.5	1,561
7	Metabolic pathways promoting cancer cell survival and growth. <i>Nature Cell Biology</i> , 2015, 17, 351-359.	4.6	1,142
8	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. <i>Cell</i> , 2013, 154, 651-663.	13.5	1,117
9	Reductive carboxylation supports growth in tumour cells with defective mitochondria. <i>Nature</i> , 2012, 481, 385-388.	13.7	1,074
10	Metabolic reprogramming and cancer progression. <i>Science</i> , 2020, 368, .	6.0	1,054
11	Toll-like receptor-induced changes in glycolytic metabolism regulate dendritic cell activation. <i>Blood</i> , 2010, 115, 4742-4749.	0.6	998
12	Glutamine and cancer: cell biology, physiology, and clinical opportunities. <i>Journal of Clinical Investigation</i> , 2013, 123, 3678-3684.	3.9	965
13	Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015, 527, 186-191.	13.7	964
14	High Frequency Retrotransposition in Cultured Mammalian Cells. <i>Cell</i> , 1996, 87, 917-927.	13.5	950
15	The Distinct Metabolic Profile of Hematopoietic Stem Cells Reflects Their Location in a Hypoxic Niche. <i>Cell Stem Cell</i> , 2010, 7, 380-390.	5.2	904
16	Brick by brick: metabolism and tumor cell growth. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 54-61.	1.5	899
17	Lactate Metabolism in Human Lung Tumors. <i>Cell</i> , 2017, 171, 358-371.e9.	13.5	899
18	Systemic Treatment with the Antidiabetic Drug Metformin Selectively Impairs p53-Deficient Tumor Cell Growth. <i>Cancer Research</i> , 2007, 67, 6745-6752.	0.4	835

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19	Metabolic Heterogeneity in Human Lung Tumors. <i>Cell</i> , 2016, 164, 681-694.	13.5	830
20	AMPK Is a Negative Regulator of the Warburg Effect and Suppresses Tumor Growth In Vivo. <i>Cell Metabolism</i> , 2013, 17, 113-124.	7.2	754
21	Autophagy in metazoans: cell survival in the land of plenty. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 439-448.	16.1	712
22	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. <i>Nature Medicine</i> , 2012, 18, 624-629.	15.2	711
23	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, 204-212.	13.3	695
24	Cellular Metabolism and Disease: What Do Metabolic Outliers Teach Us?. <i>Cell</i> , 2012, 148, 1132-1144.	13.5	684
25	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. <i>Neoplasia</i> , 2011, 13, 81-97.	2.3	623
26	Acetate Is a Bioenergetic Substrate for Human Glioblastoma and Brain Metastases. <i>Cell</i> , 2014, 159, 1603-1614.	13.5	594
27	Exon Shuffling by L1 Retrotransposition. <i>Science</i> , 1999, 283, 1530-1534.	6.0	589
28	Hypoxia induces heart regeneration in adult mice. <i>Nature</i> , 2017, 541, 222-227.	13.7	566
29	A roadmap for interpreting ¹³ C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015, 34, 189-201.	3.3	513
30	Glutamine Oxidation Maintains the TCA Cycle and Cell Survival during Impaired Mitochondrial Pyruvate Transport. <i>Molecular Cell</i> , 2014, 56, 414-424.	4.5	504
31	We need to talk about the Warburg effect. <i>Nature Metabolism</i> , 2020, 2, 127-129.	5.1	476
32	Reductive carboxylation supports redox homeostasis during anchorage-independent growth. <i>Nature</i> , 2016, 532, 255-258.	13.7	472
33	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, 827-837.	7.2	459
34	Many human L1 elements are capable of retrotransposition. <i>Nature Genetics</i> , 1997, 16, 37-43.	9.4	451
35	Haem oxygenase is synthetically lethal with the tumour suppressor fumarate hydratase. <i>Nature</i> , 2011, 477, 225-228.	13.7	433
36	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, 8674-8679.	3.3	411

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37	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017, 549, 476-481.	13.7	398
38	TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. <i>Molecular Cell</i> , 2016, 61, 199-209.	4.5	396
39	Glioblastoma Cells Require Glutamate Dehydrogenase to Survive Impairments of Glucose Metabolism or Akt Signaling. <i>Cancer Research</i> , 2009, 69, 7986-7993.	0.4	362
40	Mechanisms and Implications of Metabolic Heterogeneity in Cancer. <i>Cell Metabolism</i> , 2019, 30, 434-446.	7.2	355
41	The glucose dependence of Akt-transformed cells can be reversed by pharmacologic activation of fatty acid β -oxidation. <i>Oncogene</i> , 2005, 24, 4165-4173.	2.6	342
42	The transcription factor HIF-1 α plays a critical role in the growth factor-dependent regulation of both aerobic and anaerobic glycolysis. <i>Genes and Development</i> , 2007, 21, 1037-1049.	2.7	340
43	Phosphoglycerate Mutase 1 Coordinates Glycolysis and Biosynthesis to Promote Tumor Growth. <i>Cancer Cell</i> , 2012, 22, 585-600.	7.7	329
44	Mechanical regulation of glycolysis via cytoskeleton architecture. <i>Nature</i> , 2020, 578, 621-626.	13.7	327
45	Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. <i>Nature</i> , 2019, 566, 403-406.	13.7	326
46	Metabolic heterogeneity confers differences in melanoma metastatic potential. <i>Nature</i> , 2020, 577, 115-120.	13.7	298
47	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.	4.5	294
48	Metabolism of [^{13}C]glucose in human brain tumors <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2012, 25, 1234-1244.	1.6	282
49	Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. <i>Cell Reports</i> , 2014, 7, 1679-1690.	2.9	281
50	Mitochondrial Reactive Oxygen Species Promote Epidermal Differentiation and Hair Follicle Development. <i>Science Signaling</i> , 2013, 6, ra8.	1.6	276
51	Human Enteric Defensins. <i>Journal of Biological Chemistry</i> , 1996, 271, 4038-4045.	1.6	272
52	Glutamate Dehydrogenase 1 Signals through Antioxidant Glutathione Peroxidase 1 to Regulate Redox Homeostasis and Tumor Growth. <i>Cancer Cell</i> , 2015, 27, 257-270.	7.7	269
53	The Gut Commensal <i>Bacteroides thetaiotaomicron</i> Exacerbates Enteric Infection through Modification of the Metabolic Landscape. <i>Cell Host and Microbe</i> , 2014, 16, 759-769.	5.1	255
54	Determination of L1 retrotransposition kinetics in cultured cells. <i>Nucleic Acids Research</i> , 2000, 28, 1418-1423.	6.5	253

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55	Lipoic acid metabolism and mitochondrial redox regulation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7522-7530.	1.6	251
56	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.	6.6	250
57	The Proto-oncometabolite Fumarate Binds Glutathione to Amplify ROS-Dependent Signaling. <i>Molecular Cell</i> , 2013, 51, 236-248.	4.5	244
58	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. <i>Nature Cell Biology</i> , 2017, 19, 1027-1036.	4.6	238
59	Molecular Profiling Reveals Unique Immune and Metabolic Features of Melanoma Brain Metastases. <i>Cancer Discovery</i> , 2019, 9, 628-645.	7.7	231
60	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. <i>Nature Cell Biology</i> , 2015, 17, 1484-1496.	4.6	224
61	CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. <i>Nature</i> , 2017, 546, 168-172.	13.7	222
62	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.	2.9	205
63	PEPCK Coordinates the Regulation of Central Carbon Metabolism to Promote Cancer Cell Growth. <i>Molecular Cell</i> , 2015, 60, 571-583.	4.5	202
64	LKB1 and KEAP1/NRF2 Pathways Cooperatively Promote Metabolic Reprogramming with Enhanced Glutamine Dependence in KRAS-Mutant Lung Adenocarcinoma. <i>Cancer Research</i> , 2019, 79, 3251-3267.	0.4	196
65	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation In Vivo. <i>Cell Metabolism</i> , 2018, 28, 793-800.e2.	7.2	193
66	Is cancer a disease of abnormal cellular metabolism? New angles on an old idea. <i>Genetics in Medicine</i> , 2008, 10, 767-777.	1.1	192
67	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, 37372-37380.	1.6	191
68	A mouse model of human L1 retrotransposition. <i>Nature Genetics</i> , 2002, 32, 655-660.	9.4	189
69	MCT4 Defines a Glycolytic Subtype of Pancreatic Cancer with Poor Prognosis and Unique Metabolic Dependencies. <i>Cell Reports</i> , 2014, 9, 2233-2249.	2.9	182
70	Metabolic regulation of transcription through compartmentalized NAD ⁺ biosynthesis. <i>Science</i> , 2018, 360, .	6.0	182
71	Metabolic reprogramming induces resistance to anti-NOTCH1 therapies in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2015, 21, 1182-1189.	15.2	180
72	Tumor Microenvironment, Metabolism, and Immunotherapy. <i>New England Journal of Medicine</i> , 2020, 382, 869-871.	13.9	179

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73	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. <i>PLoS Biology</i> , 2015, 13, e1002309.	2.6	176
74	The G Protein-Coupled Taste Receptor T1R1/T1R3 Regulates mTORC1 and Autophagy. <i>Molecular Cell</i> , 2012, 47, 851-862.	4.5	160
75	Glutamine: pleiotropic roles in tumor growth and stress resistance. <i>Journal of Molecular Medicine</i> , 2011, 89, 229-236.	1.7	156
76	Systematic Identification of Molecular Subtype-Selective Vulnerabilities in Non-Small-Cell Lung Cancer. <i>Cell</i> , 2013, 155, 552-566.	13.5	151
77	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.	1.5	149
78	Rapid amplification of a retrotransposon subfamily is evolving the mouse genome. <i>Nature Genetics</i> , 1998, 20, 288-290.	9.4	144
79	Inosine Monophosphate Dehydrogenase Dependence in a Subset of Small Cell Lung Cancers. <i>Cell Metabolism</i> , 2018, 28, 369-382.e5.	7.2	136
80	Autophagy Regulation of Metabolism Is Required for CD8+ T Cell Anti-tumor Immunity. <i>Cell Reports</i> , 2019, 27, 502-513.e5.	2.9	134
81	Applications of metabolomics to study cancer metabolism. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018, 1870, 2-14.	3.3	129
82	MYC promotes tryptophan uptake and metabolism by the kynurenine pathway in colon cancer. <i>Genes and Development</i> , 2019, 33, 1236-1251.	2.7	127
83	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated protein translation. <i>Nature Cell Biology</i> , 2017, 19, 626-638.	4.6	126
84	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.	7.2	125
85	Metabolic Diversity in Human Non-Small Cell Lung Cancer Cells. <i>Molecular Cell</i> , 2019, 76, 838-851.e5.	4.5	119
86	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018, 24, 617-627.	15.2	117
87	MYC-Driven Small-Cell Lung Cancer is Metabolically Distinct and Vulnerable to Arginine Depletion. <i>Clinical Cancer Research</i> , 2019, 25, 5107-5121.	3.2	117
88	Lysine Acetylation Activates 6-Phosphogluconate Dehydrogenase to Promote Tumor Growth. <i>Molecular Cell</i> , 2014, 55, 552-565.	4.5	107
89	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. <i>Nature Cell Biology</i> , 2019, 21, 1003-1014.	4.6	107
90	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019, 9, 1228-1247.	7.7	107

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91	Role of Glutamine in Cancer: Therapeutic and Imaging Implications: FIGURE 1.. Journal of Nuclear Medicine, 2011, 52, 1005-1008.	2.8	105
92	MAVS, cGAS, and endogenous retroviruses in T-independent B cell responses. Science, 2014, 346, 1486-1492.	6.0	105
93	Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart. JACC Basic To Translational Science, 2016, 1, 432-444.	1.9	105
94	Targeting glutamine metabolism sensitizes pancreatic cancer to PARP-driven metabolic catastrophe induced by lapachone. Cancer & Metabolism, 2015, 3, 12.	2.4	104
95	Inhibition of Cancer Cell Proliferation by PPAR δ Is Mediated by a Metabolic Switch that Increases Reactive Oxygen Species Levels. Cell Metabolism, 2014, 20, 650-661.	7.2	103
96	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. Cell, 2018, 173, 864-878.e29.	13.5	102
97	Comparison of kinetic models for analysis of pyruvate to lactate exchange by hyperpolarized ¹³ C NMR. NMR in Biomedicine, 2012, 25, 1286-1294.	1.6	100
98	Lipid sensing by mTOR complexes via de novo synthesis of phosphatidic acid. Journal of Biological Chemistry, 2017, 292, 6303-6311.	1.6	99
99	Cutting Edge: Critical Role of Glycolysis in Human Plasmacytoid Dendritic Cell Antiviral Responses. Journal of Immunology, 2016, 196, 2004-2009.	0.4	95
100	Serine Metabolism: Some Tumors Take the Road Less Traveled. Cell Metabolism, 2011, 14, 285-286.	7.2	91
101	Metabolic dysregulation in monogenic disorders and cancer – finding method in madness. Nature Reviews Cancer, 2015, 15, 440-448.	12.8	89
102	Spectrum of mutations in the renin-angiotensin system genes in autosomal recessive renal tubular dysgenesis. Human Mutation, 2012, 33, 316-326.	1.1	86
103	Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. EMBO Molecular Medicine, 2016, 8, 1134-1142.	3.3	83
104	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. Nature Metabolism, 2020, 2, 1401-1412.	5.1	82
105	Quantitative metabolic flux analysis reveals an unconventional pathway of fatty acid synthesis in cancer cells deficient for the mitochondrial citrate transport protein. Metabolic Engineering, 2017, 43, 198-207.	3.6	80
106	LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. Journal of Clinical Investigation, 2015, 125, 4063-4076.	3.9	79
107	Hypoxic metabolism in human hematopoietic stem cells. Cell and Bioscience, 2015, 5, 39.	2.1	77
108	Mechanism by which a recently discovered allosteric inhibitor blocks glutamine metabolism in transformed cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 394-399.	3.3	76

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109	RIPK1-mediated induction of mitophagy compromises the viability of extracellular-matrix-detached cells. <i>Nature Cell Biology</i> , 2018, 20, 272-284.	4.6	75
110	Both GLS silencing and GLS2 overexpression synergize with oxidative stress against proliferation of glioma cells. <i>Journal of Molecular Medicine</i> , 2014, 92, 277-290.	1.7	74
111	Regulation of branched-chain amino acid metabolism by hypoxia-inducible factor in glioblastoma. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 195-206.	2.4	74
112	A comparative study of short- and long-TE ¹ H MRS at 3 T for <i>in vivo</i> detection of 2-hydroxyglutarate in brain tumors. <i>NMR in Biomedicine</i> , 2013, 26, 1242-1250.	1.6	73
113	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, 907-917.	2.9	73
114	Tetrameric Acetyl-CoA Acetyltransferase 1 Is Important for Tumor Growth. <i>Molecular Cell</i> , 2016, 64, 859-874.	4.5	73
115	Genetically-defined metabolic reprogramming in cancer. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 552-559.	3.1	72
116	Analysis of Hypoxia-Induced Metabolic Reprogramming. <i>Methods in Enzymology</i> , 2014, 542, 425-455.	0.4	72
117	The NQO1 bioactivatable drug, Î²-lapachone, 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.	1.6	72
118	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015, 6, 8524.	5.8	71
119	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.	3.3	71
120	p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. <i>Cell Reports</i> , 2019, 28, 1860-1878.e9.	2.9	68
121	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, 1177-1186.	1.6	66
122	D2HGDH regulates alpha-ketoglutarate levels and dioxygenase function by modulating IDH2. <i>Nature Communications</i> , 2015, 6, 7768.	5.8	64
123	Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. <i>ELife</i> , 2020, 9, .	2.8	62
124	A Novel Mitochondrial Inhibitor Blocks MAPK Pathway and Overcomes MAPK Inhibitor Resistance in Melanoma. <i>Clinical Cancer Research</i> , 2019, 25, 6429-6442.	3.2	61
125	Mitochondrial NADP+ is essential for proline biosynthesis during cell growth. <i>Nature Metabolism</i> , 2021, 3, 571-585.	5.1	61
126	Analysis of the Promoter from an Expanding Mouse Retrotransposon Subfamily. <i>Genomics</i> , 1999, 56, 317-323.	1.3	57

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127	Metabolic plasticity maintains proliferation in pyruvate dehydrogenase deficient cells. <i>Cancer & Metabolism</i> , 2015, 3, 7.	2.4	56
128	Real-time Detection of Hepatic Gluconeogenic and Glycogenolytic States Using Hyperpolarized [2-13C]Dihydroxyacetone. <i>Journal of Biological Chemistry</i> , 2014, 289, 35859-35867.	1.6	55
129	Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. <i>Nature Communications</i> , 2018, 9, 814.	5.8	55
130	Functional Assessment of Lipoyltransferase-1 Deficiency in Cells, Mice, and Humans. <i>Cell Reports</i> , 2019, 27, 1376-1386.e6.	2.9	55
131	The Hypoxic Epicardial and Subepicardial Microenvironment. <i>Journal of Cardiovascular Translational Research</i> , 2012, 5, 654-665.	1.1	54
132	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.	2.9	54
133	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.	3.3	51
134	Metabolic analysis as a driver for discovery, diagnosis, and therapy. <i>Cell</i> , 2022, 185, 2678-2689.	13.5	51
135	Tumor-selective use of DNA base excision repair inhibition in pancreatic cancer using the NQO1 bioactivatable drug, Î²-lapachone. <i>Scientific Reports</i> , 2015, 5, 17066.	1.6	50
136	Induction of LEF1 by MYC activates the WNT pathway and maintains cell proliferation. <i>Cell Communication and Signaling</i> , 2019, 17, 129.	2.7	50
137	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, 6212-6224.	1.6	49
138	Biomarker Accessible and Chemically Addressable Mechanistic Subtypes of BRAF Melanoma. <i>Cancer Discovery</i> , 2017, 7, 832-851.	7.7	49
139	Compartmentalized metabolism supports midgestation mammalian development. <i>Nature</i> , 2022, 604, 349-353.	13.7	47
140	1-Methylnicotinamide is an immune regulatory metabolite in human ovarian cancer. <i>Science Advances</i> , 2021, 7, .	4.7	46
141	Reactive metabolite production is a targetable liability of glycolytic metabolism in lung cancer. <i>Nature Communications</i> , 2019, 10, 5604.	5.8	45
142	Measurement of glycine in the human brain in vivo by ¹ Hâ€MRS at 3 T: application in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 609-618.	1.9	44
143	Cell-autonomous immune gene expression is repressed in pulmonary neuroendocrine cells and small cell lung cancer. <i>Communications Biology</i> , 2021, 4, 314.	2.0	44
144	Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. <i>Blood</i> , 2014, 123, 992-1001.	0.6	40

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145	Stable isotope tracing to assess tumor metabolism in vivo. <i>Nature Protocols</i> , 2021, 16, 5123-5145.	5.5	40
146	β -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.	4.5	39
147	A Novel Radiotracer to Image Glycogen Metabolism in Tumors by Positron Emission Tomography. <i>Cancer Research</i> , 2014, 74, 1319-1328.	0.4	38
148	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.	1.6	38
149	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017, 3, eaao5268.	4.7	38
150	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020, 22, 1018-1029.	0.6	37
151	Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	35
152	Transmembrane Protease TMPRSS11B Promotes Lung Cancer Growth by Enhancing Lactate Export and Glycolytic Metabolism. <i>Cell Reports</i> , 2018, 25, 2223-2233.e6.	2.9	34
153	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.	0.7	33
154	Analyzing Tumor Metabolism In Vivo. <i>Annual Review of Cancer Biology</i> , 2017, 1, 99-117.	2.3	33
155	Guanosine triphosphate links MYC-dependent metabolic and ribosome programs in small-cell lung cancer. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	33
156	Metabolic diversity within breast cancer brain-tropic cells determines metastatic fitness. <i>Cell Metabolism</i> , 2022, 34, 90-105.e7.	7.2	33
157	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.	0.4	30
158	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. <i>Nature Metabolism</i> , 2021, 3, 244-257.	5.1	29
159	Isocitrate dehydrogenase 1/2 mutational analyses and ^{2}H -hydroxyglutarate measurements in Wilms tumors. <i>Pediatric Blood and Cancer</i> , 2011, 56, 379-383.	0.8	28
160	Using arterial-venous analysis to characterize cancer metabolic consumption in patients. <i>Nature Communications</i> , 2020, 11, 3169.	5.8	28
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