Ralph J Deberardinis

List of Publications by Year
in descending order

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219 papers	53,885 citations	2975 93 h-index	1676 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. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036
2	The Biology of Cancer: Metabolic Reprogramming Fuels Cell Growth and Proliferation. Cell Metabolism, 2008, 7, 11-20.	16.2	3,421
3	Beyond aerobic glycolysis: Transformed cells can engage in glutamine metabolism that exceeds the requirement for protein and nucleotide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19345-19350.	7.1	2,127
4	Fundamentals of cancer metabolism. Science Advances, 2016, 2, e1600200.	10.3	2,039
5	Myc regulates a transcriptional program that stimulates mitochondrial glutaminolysis and leads to glutamine addiction. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18782-18787.	7.1	1,655
6	Understanding the Intersections between Metabolism and Cancer Biology. Cell, 2017, 168, 657-669.	28.9	1,561
7	Metabolic pathways promoting cancer cell survival and growth. Nature Cell Biology, 2015, 17, 351-359.	10.3	1,142
8	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. Cell, 2013, 154, 651-663.	28.9	1,117
9	Reductive carboxylation supports growth in tumour cells with defective mitochondria. Nature, 2012, 481, 385-388.	27.8	1,074
10	Metabolic reprogramming and cancer progression. Science, 2020, 368, .	12.6	1,054
11	Toll-like receptorâ€“induced changes in glycolytic metabolism regulate dendritic cell activation. Blood, 2010, 115, 4742-4749.	1.4	998
12	Glutamine and cancer: cell biology, physiology, and clinical opportunities. Journal of Clinical Investigation, 2013, 123, 3678-3684.	8.2	965
13	Oxidative stress inhibits distant metastasis by human melanoma cells. Nature, 2015, 527, 186-191.	27.8	964
14	High Frequency Retrotransposition in Cultured Mammalian Cells. Cell, 1996, 87, 917-927.	28.9	950
15	The Distinct Metabolic Profile of Hematopoietic Stem Cells Reflects Their Location in a Hypoxic Niche. Cell Stem Cell, 2010, 7, 380-390.	11.1	904
16	Brick by brick: metabolism and tumor cell growth. Current Opinion in Genetics and Development, 2008, 18, 54-61.	3.3	899
17	Lactate Metabolism in Human Lung Tumors. Cell, 2017, 171, 358-371.e9.	28.9	899
18	Systemic Treatment with the Antidiabetic Drug Metformin Selectively Impairs p53-Deficient Tumor Cell Growth. Cancer Research, 2007, 67, 6745-6752.	0.9	835

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19	Metabolic Heterogeneity in Human Lung Tumors. Cell, 2016, 164, 681-694.	28.9	830
20	AMPK Is a Negative Regulator of the Warburg Effect and Suppresses Tumor Growth InÂVivo. Cell Metabolism, 2013, 17, 113-124.	16.2	754
21	Autophagy in metazoans: cell survival in the land of plenty. Nature Reviews Molecular Cell Biology, 2005, 6, 439-448.	37.0	712
22	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. Nature Medicine, 2012, 18, 624-629.	30.7	711
23	A nanoparticle-based strategy for the imaging of a broad range of tumours by nonlinear amplification of microenvironment signals. Nature Materials, 2014, 13, 204-212.	27.5	695
24	Cellular Metabolism and Disease: What Do Metabolic Outliers Teach Us?. Cell, 2012, 148, 1132-1144.	28.9	684
25	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. Neoplasia, 2011, 13, 81-97.	5.3	623
26	Acetate Is a Bioenergetic Substrate for Human Glioblastoma and Brain Metastases. Cell, 2014, 159, 1603-1614.	28.9	594
27	Exon Shuffling by L1 Retrotransposition. Science, 1999, 283, 1530-1534.	12.6	589
28	Hypoxia induces heart regeneration in adult mice. Nature, 2017, 541, 222-227.	27.8	566
29	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	6.6	513
30	Glutamine Oxidation Maintains the TCA Cycle and Cell Survival during Impaired Mitochondrial Pyruvate Transport. Molecular Cell, 2014, 56, 414-424.	9.7	504
31	We need to talk about the Warburg effect. Nature Metabolism, 2020, 2, 127-129.	11.9	476
32	Reductive carboxylation supports redox homeostasis during anchorage-independent growth. Nature, 2016, 532, 255-258.	27.8	472
33	Analysis of Tumor Metabolism Reveals Mitochondrial Glucose Oxidation in Genetically Diverse Human Glioblastomas in the Mouse Brain InÂVivo. Cell Metabolism, 2012, 15, 827-837.	16.2	459
34	Many human L1 elements are capable of retrotransposition. Nature Genetics, 1997, 16, 37-43.	21.4	451
35	Haem oxygenase is synthetically lethal with the tumour suppressor fumarate hydratase. Nature, 2011, 477, 225-228.	27.8	433
36	Pyruvate carboxylase is required for glutamine-independent growth of tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8674-8679.	7.1	411

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37	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. Nature, 2017, 549, 476-481.	27.8	398
38	TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. Molecular Cell, 2016, 61, 199-209.	9.7	396
39	Glioblastoma Cells Require Glutamate Dehydrogenase to Survive Impairments of Glucose Metabolism or Akt Signaling. Cancer Research, 2009, 69, 7986-7993.	0.9	362
40	Mechanisms and Implications of Metabolic Heterogeneity in Cancer. Cell Metabolism, 2019, 30, 434-446.	16.2	355
41	The glucose dependence of Akt-transformed cells can be reversed by pharmacologic activation of fatty acid Î²-oxidation. Oncogene, 2005, 24, 4165-4173.	5.9	342
42	The transcription factor HIF-1Î± plays a critical role in the growth factor-dependent regulation of both aerobic and anaerobic glycolysis. Genes and Development, 2007, 21, 1037-1049.	5.9	340
43	Phosphoglycerate Mutase 1 Coordinates Glycolysis and Biosynthesis to Promote Tumor Growth. Cancer Cell, 2012, 22, 585-600.	16.8	329
44	Mechanical regulation of glycolysis via cytoskeleton architecture. Nature, 2020, 578, 621-626.	27.8	327
45	Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. Nature, 2019, 566, 403-406.	27.8	326
46	Metabolic heterogeneity confers differences in melanoma metastatic potential. Nature, 2020, 577, 115-120.	27.8	298
47	A Role for the Mitochondrial Pyruvate Carrier as a Repressor of the Warburg Effect and Colon Cancer Cell Growth. Molecular Cell, 2014, 56, 400-413.	9.7	294
48	Metabolism of [Uâ€¹³C]glucose in human brain tumors in vivo. NMR in Biomedicine, 2012, 25, 1234-1244.	2.8	282
49	Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. Cell Reports, 2014, 7, 1679-1690.	6.4	281
50	Mitochondrial Reactive Oxygen Species Promote Epidermal Differentiation and Hair Follicle Development. Science Signaling, 2013, 6, ra8.	3.6	276
51	Human Enteric Defensins. Journal of Biological Chemistry, 1996, 271, 4038-4045.	3.4	272
52	Glutamate Dehydrogenase 1 Signals through Antioxidant Glutathione Peroxidase 1 to Regulate Redox Homeostasis and Tumor Growth. Cancer Cell, 2015, 27, 257-270.	16.8	269
53	The Gut Commensal Bacteroides thetaiotaomicron Exacerbates Enteric Infection through Modification of the Metabolic Landscape. Cell Host and Microbe, 2014, 16, 759-769.	11.0	255
54	Determination of L1 retrotransposition kinetics in cultured cells. Nucleic Acids Research, 2000, 28, 1418-1423.	14.5	253

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55	Lipoic acid metabolism and mitochondrial redox regulation. Journal of Biological Chemistry, 2018, 293, 7522-7530.	3.4	251
56	Metabolic Profiling Using Stable Isotope Tracing Reveals Distinct Patterns of Glucose Utilization by Physiologically Activated CD8+ T Cells. Immunity, 2019, 51, 856-870.e5.	14.3	250
57	The Proto-oncometabolite Fumarate Binds Glutathione to Amplify ROS-Dependent Signaling. Molecular Cell, 2013, 51, 236-248.	9.7	244
58	Control of intestinal stem cell function and proliferation by mitochondrial pyruvate metabolism. Nature Cell Biology, 2017, 19, 1027-1036.	10.3	238
59	Molecular Profiling Reveals Unique Immune and Metabolic Features of Melanoma Brain Metastases. Cancer Discovery, 2019, 9, 628-645.	9.4	231
60	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1â€“AMPK signalling. Nature Cell Biology, 2015, 17, 1484-1496.	10.3	224
61	CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. Nature, 2017, 546, 168-172.	27.8	222
62	Fatty Acid Oxidation Mediated by Acyl-CoA Synthetase Long Chain 3 Is Required for Mutant KRAS Lung Tumorigenesis. Cell Reports, 2016, 16, 1614-1628.	6.4	205
63	PEPCK Coordinates the Regulation of Central Carbon Metabolism to Promote Cancer Cell Growth. Molecular Cell, 2015, 60, 571-583.	9.7	202
64	LKB1 and KEAP1/NRF2 Pathways Cooperatively Promote Metabolic Reprogramming with Enhanced Glutamine Dependence in KRAS-Mutant Lung Adenocarcinoma. Cancer Research, 2019, 79, 3251-3267.	0.9	196
65	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation InÂVivo. Cell Metabolism, 2018, 28, 793-800.e2.	16.2	193
66	Is cancer a disease of abnormal cellular metabolism? New angles on an old idea. Genetics in Medicine, 2008, 10, 767-777.	2.4	192
67	Phosphatidylinositol 3-Kinase-dependent Modulation of Carnitine Palmitoyltransferase 1A Expression Regulates Lipid Metabolism during Hematopoietic Cell Growth*. Journal of Biological Chemistry, 2006, 281, 37372-37380.	3.4	191
68	A mouse model of human L1 retrotransposition. Nature Genetics, 2002, 32, 655-660.	21.4	189
69	MCT4 Defines a Glycolytic Subtype of Pancreatic Cancer with Poor Prognosis and Unique Metabolic Dependencies. Cell Reports, 2014, 9, 2233-2249.	6.4	182
70	Metabolic regulation of transcription through compartmentalized NAD ⁺ biosynthesis. Science, 2018, 360, .	12.6	182
71	Metabolic reprogramming induces resistance to anti-NOTCH1 therapies in T cell acute lymphoblastic leukemia. Nature Medicine, 2015, 21, 1182-1189.	30.7	180
72	Tumor Microenvironment, Metabolism, and Immunotherapy. New England Journal of Medicine, 2020, 382, 869-871.	27.0	179

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73	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. PLoS Biology, 2015, 13, e1002309.	5.6	176
74	The G Protein-Coupled Taste Receptor T1R1/T1R3 Regulates mTORC1 and Autophagy. Molecular Cell, 2012, 47, 851-862.	9.7	160
75	Glutamine: pleiotropic roles in tumor growth and stress resistance. Journal of Molecular Medicine, 2011, 89, 229-236.	3.9	156
76	Systematic Identification of Molecular Subtype-Selective Vulnerabilities in Non-Small-Cell Lung Cancer. Cell, 2013, 155, 552-566.	28.9	151
77	Metabolic strategies of melanoma cells: Mechanisms, interactions with the tumor microenvironment, and therapeutic implications. Pigment Cell and Melanoma Research, 2018, 31, 11-30.	3.3	149
78	Rapid amplification of a retrotransposon subfamily is evolving the mouse genome. Nature Genetics, 1998, 20, 288-290.	21.4	144
79	Inosine Monophosphate Dehydrogenase Dependence in a Subset of Small Cell Lung Cancers. Cell Metabolism, 2018, 28, 369-382.e5.	16.2	136
80	Autophagy Regulation of Metabolism Is Required for CD8+ T Cell Anti-tumor Immunity. Cell Reports, 2019, 27, 502-513.e5.	6.4	134
81	Applications of metabolomics to study cancer metabolism. Biochimica Et Biophysica Acta: Reviews on Cancer, 2018, 1870, 2-14.	7.4	129
82	MYC promotes tryptophan uptake and metabolism by the kynurenine pathway in colon cancer. Genes and Development, 2019, 33, 1236-1251.	5.9	127
83	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated proteinÂtranslation. Nature Cell Biology, 2017, 19, 626-638.	10.3	126
84	Cytochrome c Oxidase Activity Is a Metabolic Checkpoint that Regulates Cell Fate Decisions During T Cell Activation and Differentiation. Cell Metabolism, 2017, 25, 1254-1268.e7.	16.2	125
85	Metabolic Diversity in Human Non-Small Cell Lung Cancer Cells. Molecular Cell, 2019, 76, 838-851.e5.	9.7	119
86	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. Nature Medicine, 2018, 24, 617-627.	30.7	117
87	MYC-Driven Small-Cell Lung Cancer is Metabolically Distinct and Vulnerable to Arginine Depletion. Clinical Cancer Research, 2019, 25, 5107-5121.	7.0	117
88	Lysine Acetylation Activates 6-Phosphogluconate Dehydrogenase to Promote Tumor Growth. Molecular Cell, 2014, 55, 552-565.	9.7	107
89	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. Nature Cell Biology, 2019, 21, 1003-1014.	10.3	107
90	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. Cancer Discovery, 2019, 9, 1228-1247.	9.4	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.	5.0	105
92	MAVS, cGAS, and endogenous retroviruses in T-independent B cell responses. Science, 2014, 346, 1486-1492.	12.6	105
93	Evidence of Glycolysis Up-Regulation andÂPyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading ofÂthe Failing Human Heart. JACC Basic To Translational Science, 2016, 1, 432-444.	4.1	105
94	Targeting glutamine metabolism sensitizes pancreatic cancer to PARP-driven metabolic catastrophe induced by ÃŸ-lapachone. Cancer & Metabolism, 2015, 3, 12.	5.0	104
95	Inhibition of Cancer Cell Proliferation by PPARÎ³ Is Mediated by a Metabolic Switch that Increases Reactive Oxygen Species Levels. Cell Metabolism, 2014, 20, 650-661.	16.2	103
96	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. Cell, 2018, 173, 864-878.e29.	28.9	102
97	Comparison of kinetic models for analysis of pyruvateâ€toâ€lactate exchange by hyperpolarized ¹³C NMR. NMR in Biomedicine, 2012, 25, 1286-1294.	2.8	100
98	Lipid sensing by mTOR complexes via de novo synthesis of phosphatidic acid. Journal of Biological Chemistry, 2017, 292, 6303-6311.	3.4	99
99	Cutting Edge: Critical Role of Glycolysis in Human Plasmacytoid Dendritic Cell Antiviral Responses. Journal of Immunology, 2016, 196, 2004-2009.	0.8	95
100	Serine Metabolism: Some Tumors Take the Road Less Traveled. Cell Metabolism, 2011, 14, 285-286.	16.2	91
101	Metabolic dysregulation in monogenic disorders and cancer â€" finding method in madness. Nature Reviews Cancer, 2015, 15, 440-448.	28.4	89
102	Spectrum of mutations in the renin-angiotensin system genes in autosomal recessive renal tubular dysgenesis. Human Mutation, 2012, 33, 316-326.	2.5	86
103	Metaâ€analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. EMBO Molecular Medicine, 2016, 8, 1134-1142.	6.9	83
104	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. Nature Metabolism, 2020, 2, 1401-1412.	11.9	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.	7.0	80
106	LKB1 loss promotes endometrial cancer progression via CCL2-dependent macrophage recruitment. Journal of Clinical Investigation, 2015, 125, 4063-4076.	8.2	79
107	Hypoxic metabolism in human hematopoietic stem cells. Cell and Bioscience, 2015, 5, 39.	4.8	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.	7.1	76

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109	RIPK1-mediated induction of mitophagy compromises the viability of extracellular-matrix-detached cells. Nature Cell Biology, 2018, 20, 272-284.	10.3	75
110	Both GLS silencing and GLS2 overexpression synergize with oxidative stress against proliferation of glioma cells. Journal of Molecular Medicine, 2014, 92, 277-290.	3.9	74
111	Regulation of branched-chain amino acid metabolism by hypoxia-inducible factor in glioblastoma. Cellular and Molecular Life Sciences, 2021, 78, 195-206.	5.4	74
112	A comparative study of shortâ€•and longâ€TE ¹H MRS at 3 T for in vivo detection of 2â€hydroxyglutarate in brain tumors. NMR in Biomedicine, 2013, 26, 1242-1250.	2.8	73
113	A Mitochondrial RNAi Screen Defines Cellular Bioenergetic Determinants and Identifies an Adenylate Kinase as a Key Regulator of ATP Levels. Cell Reports, 2014, 7, 907-917.	6.4	73
114	Tetrameric Acetyl-CoA Acetyltransferase 1 Is Important for Tumor Growth. Molecular Cell, 2016, 64, 859-874.	9.7	73
115	Genetically-defined metabolic reprogramming in cancer. Trends in Endocrinology and Metabolism, 2012, 23, 552-559.	7.1	72
116	Analysis of Hypoxia-Induced Metabolic Reprogramming. Methods in Enzymology, 2014, 542, 425-455.	1.0	72
117	The NQO1 bioactivatable drug, Î²-lapachone, alters the redox state of NQO1+ pancreatic cancer cells, causing perturbation in central carbon metabolism. Journal of Biological Chemistry, 2017, 292, 18203-18216.	3.4	72
118	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. Nature Communications, 2015, 6, 8524.	12.8	71
119	Chronic innate immune activation of TBK1 suppresses mTORC1 activity and dysregulates cellular metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 746-751.	7.1	71
120	p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. Cell Reports, 2019, 28, 1860-1878.e9.	6.4	68
121	Glucose metabolism via the pentose phosphate pathway, glycolysis and Krebs cycle in an orthotopic mouse model of human brain tumors. NMR in Biomedicine, 2012, 25, 1177-1186.	2.8	66
122	D2HGDH regulates alpha-ketoglutarate levels and dioxygenase function by modulating IDH2. Nature Communications, 2015, 6, 7768.	12.8	64
123	Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. ELife, 2020, 9, .	6.0	62
124	A Novel Mitochondrial Inhibitor Blocks MAPK Pathway and Overcomes MAPK Inhibitor Resistance in Melanoma. Clinical Cancer Research, 2019, 25, 6429-6442.	7.0	61
125	Mitochondrial NADP+ is essential for proline biosynthesis during cell growth. Nature Metabolism, 2021, 3, 571-585.	11.9	61
126	Analysis of the Promoter from an Expanding Mouse Retrotransposon Subfamily. Genomics, 1999, 56, 317-323.	2.9	57

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127	Metabolic plasticity maintains proliferation in pyruvate dehydrogenase deficient cells. Cancer & Metabolism, 2015, 3, 7.	5.0	56
128	Real-time Detection of Hepatic Gluconeogenic and Glycogenolytic States Using Hyperpolarized [2-13C]Dihydroxyacetone. Journal of Biological Chemistry, 2014, 289, 35859-35867.	3.4	55
129	Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. Nature Communications, 2018, 9, 814.	12.8	55
130	Functional Assessment of Lipoyltransferase-1 Deficiency in Cells, Mice, and Humans. Cell Reports, 2019, 27, 1376-1386.e6.	6.4	55
131	The Hypoxic Epicardial and Subepicardial Microenvironment. Journal of Cardiovascular Translational Research, 2012, 5, 654-665.	2.4	54
132	Loss of a Negative Regulator of mTORC1 Induces Aerobic Glycolysis and Altered Fiber Composition in Skeletal Muscle. Cell Reports, 2018, 23, 1907-1914.	6.4	54
133	Mutations in mitochondrial enzyme GPT2 cause metabolic dysfunction and neurological disease with developmental and progressive features. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5598-607.	7.1	51
134	Metabolic analysis as a driver for discovery, diagnosis, and therapy. Cell, 2022, 185, 2678-2689.	28.9	51
135	Tumor-selective use of DNA base excision repair inhibition in pancreatic cancer using the NQO1 bioactivatable drug, Î²-lapachone. Scientific Reports, 2015, 5, 17066.	3.3	50
136	Induction of LEF1 by MYC activates the WNT pathway and maintains cell proliferation. Cell Communication and Signaling, 2019, 17, 129.	6.5	50
137	Simultaneous Steady-state and Dynamic 13C NMR Can Differentiate Alternative Routes of Pyruvate Metabolism in Living Cancer Cells. Journal of Biological Chemistry, 2014, 289, 6212-6224.	3.4	49
138	Biomarker Accessible and Chemically Addressable Mechanistic Subtypes of BRAF Melanoma. Cancer Discovery, 2017, 7, 832-851.	9.4	49
139	Compartmentalized metabolism supports midgestation mammalian development. Nature, 2022, 604, 349-353.	27.8	47
140	1-Methylnicotinamide is an immune regulatory metabolite in human ovarian cancer. Science Advances, 2021, 7, .	10.3	46
141	Reactive metabolite production is a targetable liability of glycolytic metabolism in lung cancer. Nature Communications, 2019, 10, 5604.	12.8	45
142	Measurement of glycine in the human brain in vivo by ¹Hâ€MRS at 3 T: application in brain tumors. Magnetic Resonance in Medicine, 2011, 66, 609-618.	3.0	44
143	Cell-autonomous immune gene expression is repressed in pulmonary neuroendocrine cells and small cell lung cancer. Communications Biology, 2021, 4, 314.	4.4	44
144	Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. Blood, 2014, 123, 992-1001.	1.4	40

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145	Stable isotope tracing to assess tumor metabolism in vivo. Nature Protocols, 2021, 16, 5123-5145.	12.0	40
146	Î³-6-Phosphogluconolactone, a Byproduct of the Oxidative Pentose Phosphate Pathway, Contributes to AMPK Activation through Inhibition of PP2A. Molecular Cell, 2019, 76, 857-871.e9.	9.7	39
147	A Novel Radiotracer to Image Glycogen Metabolism in Tumors by Positron Emission Tomography. Cancer Research, 2014, 74, 1319-1328.	0.9	38
148	Glutathione Depletion, Pentose Phosphate Pathway Activation, and Hemolysis in Erythrocytes Protecting Cancer Cells from Vitamin C-induced Oxidative Stress. Journal of Biological Chemistry, 2016, 291, 22861-22867.	3.4	38
149	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. Science Advances, 2017, 3, eaao5268.	10.3	38
150	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. Neuro-Oncology, 2020, 22, 1018-1029.	1.2	37
151	Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	35
152	Transmembrane Protease TMPRSS11B Promotes Lung Cancer Growth by Enhancing Lactate Export and Glycolytic Metabolism. Cell Reports, 2018, 25, 2223-2233.e6.	6.4	34
153	Cancer-Specific Production of N-Acetylaspartate via NAT8L Overexpression in Nonâ€“Small Cell Lung Cancer and Its Potential as a Circulating Biomarker. Cancer Prevention Research, 2016, 9, 43-52.	1.5	33
154	Analyzing Tumor Metabolism In Vivo. Annual Review of Cancer Biology, 2017, 1, 99-117.	4.5	33
155	Guanosine triphosphate links MYC-dependent metabolic and ribosome programs in small-cell lung cancer. Journal of Clinical Investigation, 2021, 131, .	8.2	33
156	Metabolic diversity within breast cancer brain-tropic cells determines metastatic fitness. Cell Metabolism, 2022, 34, 90-105.e7.	16.2	33
157	Hyperpolarized 13C Magnetic Resonance and Its Use in Metabolic Assessment of Cultured Cells and Perfused Organs. Methods in Enzymology, 2015, 561, 73-106.	1.0	30
158	The major cap-binding protein eIF4E regulates lipid homeostasis and diet-induced obesity. Nature Metabolism, 2021, 3, 244-257.	11.9	29
159	Isocitrate dehydrogenase 1/2 mutational analyses and 2â€hydroxyglutarate measurements in Wilms tumors. Pediatric Blood and Cancer, 2011, 56, 379-383.	1.5	28
160	Using arterialâ€“venous analysis to characterize cancer metabolic consumption in patients. Nature Communications, 2020, 11, 3169.	12.8	28
161	Gainâ€ofâ€function variants in the ODC1 gene cause a syndromic neurodevelopmental disorder associated with macrocephaly, alopecia, dysmorphic features, and neuroimaging abnormalities. American Journal of Medical Genetics, Part A, 2018, 176, 2554-2560.	1.2	26
162	Metabolic Plasticity of Neutrophils: Relevance to Pathogen Responses and Cancer. Trends in Cancer, 2021, 7, 700-713.	7.4	26

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163	p53 deficiency triggers dysregulation of diverse cellular processes in physiological oxygen. Journal of Cell Biology, 2020, 219, .	5.2	26
164	When more is less. Nature, 2012, 489, 511-512.	27.8	25
165	Oxidation of [Uâ€¹³C]glucose in the human brain at 7T under steady state conditions. Magnetic Resonance in Medicine, 2017, 78, 2065-2071.	3.0	25
166	A male-derived nonribosomal peptide pheromone controls female schistosome development. Cell, 2022, 185, 1506-1520.e17.	28.9	25
167	Using a novel NQO1 bioactivatable drug, betaâ€lapachone (ARQ761), to enhance chemotherapeutic effects by metabolic modulation in pancreatic cancer. Journal of Surgical Oncology, 2017, 116, 83-88.	1.7	24
168	Wilms Tumor in a Child with L-2-hydroxyglutaric Aciduria. Pediatric and Developmental Pathology, 2010, 13, 408-411.	1.0	23
169	Glutamine uptake and utilization of human mesenchymal glioblastoma in orthotopic mouse model. Cancer & Metabolism, 2020, 8, 9.	5.0	22
170	Does Tumor FDG-PET Avidity Represent Enhanced Glycolytic Metabolism in Non-Small Cell Lung Cancer?. Annals of Thoracic Surgery, 2020, 109, 1019-1025.	1.3	21
171	EWS-FLI1â€“regulated Serine Synthesis and Exogenous Serine are Necessary for Ewing Sarcoma Cellular Proliferation and Tumor Growth. Molecular Cancer Therapeutics, 2020, 19, 1520-1529.	4.1	21
172	Isotope tracing reveals glycolysis and oxidative metabolism in childhood tumors of multiple histologies. Med, 2021, 2, 395-410.e4.	4.4	21
173	The transcription factors aryl hydrocarbon receptor and MYC cooperate in the regulation of cellular metabolism. Journal of Biological Chemistry, 2020, 295, 12398-12407.	3.4	19
174	In vivo analysis of lung cancer metabolism: nothing like the real thing. Journal of Clinical Investigation, 2015, 125, 495-497.	8.2	17
175	The cancer cell â€˜energy gridâ€™: TGF-Î²1 signaling coordinates metabolism for migration. Molecular and Cellular Oncology, 2015, 2, e981994.	0.7	17
176	Concentration-dependent Early Antivascular and Antitumor Effects of Itraconazole in Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2020, 26, 6017-6027.	7.0	16
177	A renal cell carcinoma tumorgraft platform to advance precision medicine. Cell Reports, 2021, 37, 110055.	6.4	16
178	Targeting BCAT1 Combined with Î±-Ketoglutarate Triggers Metabolic Synthetic Lethality in Glioblastoma. Cancer Research, 2022, 82, 2388-2402.	0.9	16
179	A pathogenic UFSP2 variant in an autosomal recessive form of pediatric neurodevelopmental anomalies and epilepsy. Genetics in Medicine, 2021, 23, 900-908.	2.4	14
180	A Mitochondrial Power Play in Lymphoma. Cancer Cell, 2012, 22, 423-424.	16.8	13

#	Article	IF	Citations
181	Systematic Analysis of Gene Expression in Lung Adenocarcinoma and Squamous Cell Carcinoma with a Case Study of FAM83A and FAM83B. Cancers, 2019, 11, 886.	3.7	13
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