

Aspartate is an endogenous metabolic limitation for tum

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Metabolic Frugality Marks Cancer Cells for Immune Targeting. <i>Cell</i> , 2018, 174, 1344-1346.	13.5	5
2	Rewiring urea cycle metabolism in cancer to support anabolism. <i>Nature Reviews Cancer</i> , 2018, 18, 634-645.	12.8	192
3	Aspartate is a limiting metabolite for cancer cell proliferation under hypoxia and in tumours. <i>Nature Cell Biology</i> , 2018, 20, 775-781.	4.6	311
4	Cytosolic Aspartate Availability Determines Cell Survival When Glutamine Is Limiting. <i>Cell Metabolism</i> , 2018, 28, 706-720.e6.	7.2	132
5	Reprogramming of Amino Acid Transporters to Support Aspartate and Glutamate Dependency Sustains Endocrine Resistance in Breast Cancer. <i>Cell Reports</i> , 2019, 28, 104-118.e8.	2.9	67
6	Glutamine Metabolism in Brain Tumors. <i>Cancers</i> , 2019, 11, 1628.	1.7	53
7	SLC1A3 contributes to asparaginase resistance in solid tumors. <i>EMBO Journal</i> , 2019, 38, e102147.	3.5	41
8	Maintaining cytosolic aspartate levels is a major function of the TCA cycle in proliferating cells. <i>Molecular and Cellular Oncology</i> , 2019, 6, e1536843.	0.3	19
9	Cellular redox state constrains serine synthesis and nucleotide production to impact cell proliferation. <i>Nature Metabolism</i> , 2019, 1, 861-867.	5.1	107
10	Metabolic reprogramming and tumor immunity under hypoxic microenvironment. <i>Current Opinion in Physiology</i> , 2019, 7, 53-59.	0.9	9
11	Enzyme-mediated depletion of l-cyst(e)ine synergizes with thioredoxin reductase inhibition for suppression of pancreatic tumor growth. <i>Npj Precision Oncology</i> , 2019, 3, 16.	2.3	28
12	Diverse Stakeholders of Tumor Metabolism: An Appraisal of the Emerging Approach of Multifaceted Metabolic Targeting by 3-Bromopyruvate. <i>Frontiers in Pharmacology</i> , 2019, 10, 728.	1.6	11
13	Superfluous glutamine synthetase activity in Chinese Hamster Ovary cells selected under glutamine limitation is growth limiting in glutamine-replete conditions and can be inhibited by serine. <i>Biotechnology Progress</i> , 2019, 35, e2856.	1.3	0
14	Circadian Clocks and Cancer: Timekeeping Governs Cellular Metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2019, 30, 445-458.	3.1	73
15	HSP60 silencing promotes Warburg-like phenotypes and switches the mitochondrial function from ATP production to biosynthesis in ccRCC cells. <i>Redox Biology</i> , 2019, 24, 101218.	3.9	44
16	The Diverse Functions of Non-Essential Amino Acids in Cancer. <i>Cancers</i> , 2019, 11, 675.	1.7	119
17	The molecular rationale for therapeutic targeting of glutamine metabolism in pulmonary hypertension. <i>Expert Opinion on Therapeutic Targets</i> , 2019, 23, 511-524.	1.5	19
18	The Fate of Glutamine in Human Metabolism. The Interplay with Glucose in Proliferating Cells. <i>Metabolites</i> , 2019, 9, 81.	1.3	20

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19	SOX12 promotes colorectal cancer cell proliferation and metastasis by regulating asparagine synthesis. <i>Cell Death and Disease</i> , 2019, 10, 239.	2.7	63
20	Metabolic regulation of cell growth and proliferation. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 436-450.	16.1	577
21	Repurposed Biguanide Drugs in Glioblastoma Exert Antiproliferative Effects via the Inhibition of Intracellular Chloride Channel 1 Activity. <i>Frontiers in Oncology</i> , 2019, 9, 135.	1.3	21
22	HIF1 α Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis. <i>Cell Reports</i> , 2019, 26, 2257-2265.e4.	2.9	69
23	Reactive metabolite production is a targetable liability of glycolytic metabolism in lung cancer. <i>Nature Communications</i> , 2019, 10, 5604.	5.8	45
24	A Humanized Bone Niche Model Reveals Bone Tissue Preservation Upon Targeting Mitochondrial Complex I in Pseudo-Orthotopic Osteosarcoma. <i>Journal of Clinical Medicine</i> , 2019, 8, 2184.	1.0	8
25	Metabolomics of Small Intestine Neuroendocrine Tumors and Related Hepatic Metastases. <i>Metabolites</i> , 2019, 9, 300.	1.3	8
26	Starvation and Pseudo-Starvation as Drivers of Cancer Metastasis through Translation Reprogramming. <i>Cell Metabolism</i> , 2019, 29, 254-267.	7.2	88
27	Fuelling cancer cells. <i>Nature Reviews Endocrinology</i> , 2019, 15, 71-72.	4.3	10
28	Metformin modulates innate immune-mediated inflammation and early progression of NAFLD-associated hepatocellular carcinoma in zebrafish. <i>Journal of Hepatology</i> , 2019, 70, 710-721.	1.8	122
29	Reactivation of Dihydroorotate Dehydrogenase-Driven Pyrimidine Biosynthesis Restores Tumor Growth of Respiration-Deficient Cancer Cells. <i>Cell Metabolism</i> , 2019, 29, 399-416.e10.	7.2	190
30	Mitochondrial complex III is necessary for endothelial cell proliferation during angiogenesis. <i>Nature Metabolism</i> , 2019, 1, 158-171.	5.1	141
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35	Reconciling environment-mediated metabolic heterogeneity with the oncogene-driven cancer paradigm in precision oncology. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 202-210.	2.3	23
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37	The mitochondrial carrier Citrin plays a role in regulating cellular energy during carcinogenesis. <i>Oncogene</i> , 2020, 39, 164-175.	2.6	16
38	Metabolomic Profile of Aggressive Meningiomas by Using High-Resolution Magic Angle Spinning Nuclear Magnetic Resonance. <i>Journal of Proteome Research</i> , 2020, 19, 292-299.	1.8	10
39	Metabolic Fitness and Plasticity in Cancer Progression. <i>Trends in Cancer</i> , 2020, 6, 49-61.	3.8	76
40	Activation of Oxidative Stress Response in Cancer Generates a Druggable Dependency on Exogenous Non-essential Amino Acids. <i>Cell Metabolism</i> , 2020, 31, 339-350.e4.	7.2	103
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42	TCA Cycle Rewiring as Emerging Metabolic Signature of Hepatocellular Carcinoma. <i>Cancers</i> , 2020, 12, 68.	1.7	57
43	Disruption of redox homeostasis for combinatorial drug efficacy in K-Ras tumors as revealed by metabolic connectivity profiling. <i>Cancer & Metabolism</i> , 2020, 8, 22.	2.4	10
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45	Functional screening identifies aryl hydrocarbon receptor as suppressor of lung cancer metastasis. <i>Oncogenesis</i> , 2020, 9, 102.	2.1	24
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47	A second Warburg-like effect in cancer metabolism: The metabolic shift of glutamine-derived nitrogen. <i>BioEssays</i> , 2020, 42, e2000169.	1.2	25
48	Treatment of ErbB2 breast cancer by mitochondrial targeting. <i>Cancer & Metabolism</i> , 2020, 8, 17.	2.4	5
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50	Inhibiting both proline biosynthesis and lipogenesis synergistically suppresses tumor growth. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	37
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53	The Role of Pi, Glutamine and the Essential Amino Acids in Modulating the Metabolism in Diabetes and Cancer. <i>Journal of Diabetes and Metabolic Disorders</i> , 2020, 19, 1731-1775.	0.8	6
54	Metabolic Constrains Rule Metastasis Progression. <i>Cells</i> , 2020, 9, 2081.	1.8	13

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57	Metformin Restores Tetracyclines Susceptibility against Multidrug Resistant Bacteria. <i>Advanced Science</i> , 2020, 7, 1902227.	5.6	104
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63	Dihydroorotate dehydrogenase in oxidative phosphorylation and cancer. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165759.	1.8	73
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65	Metabolic effects of bezafibrate in mitochondrial disease. <i>EMBO Molecular Medicine</i> , 2020, 12, e11589.	3.3	45
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68	Metabolic pathway alterations in microvascular endothelial cells in response to hypoxia. <i>PLoS ONE</i> , 2020, 15, e0232072.	1.1	14
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74	Amino Acid Oncometabolism and Immunomodulation of the Tumor Microenvironment in Lung Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 276.	1.3	23
75	New insights into molecules and pathways of cancer metabolism and therapeutic implications. <i>Cancer Communications</i> , 2021, 41, 16-36.	3.7	61
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80	Autophagy sustains glutamate and aspartate synthesis in <i>Saccharomyces cerevisiae</i> during nitrogen starvation. <i>Nature Communications</i> , 2021, 12, 57.	5.8	24
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93	Mitochondria and the permeability transition pore in cancer metabolic reprogramming. <i>Biochemical Pharmacology</i> , 2021, 188, 114537.	2.0	12
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98	Asparagine, a Key Metabolite in Cellular Response to Mitochondrial Dysfunction. <i>Trends in Cancer</i> , 2021, 7, 479-481.	3.8	5
99	Oncogenic KRAS creates an aspartate metabolism signature in colorectal cancer cells. <i>FEBS Journal</i> , 2021, 288, 6683-6699.	2.2	7
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117	Hotspot SF3B1 mutations induce metabolic reprogramming and vulnerability to serine deprivation. <i>Journal of Clinical Investigation</i> , 2019, 129, 4708-4723.	3.9	41
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128	Asparagine reinforces mTORC1 signaling to boost thermogenesis and glycolysis in adipose tissues. <i>EMBO Journal</i> , 2021, 40, e108069.	3.5	23
130	Metabolic Plasticity of IDH1- Mutant Glioma Cell Lines Is Responsible for Low Sensitivity to Glutaminase Inhibition. <i>SSRN Electronic Journal</i> , 0, .	0.4	1
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141	Monitoring Retinoblastoma by Machine Learning of Aqueous Humor Metabolic Fingerprinting. <i>Small Methods</i> , 2022, 6, e2101220.	4.6	20
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146	The role of metabolic ecosystem in cancer progression – metabolic plasticity and mTOR hyperactivity in tumor tissues. <i>Cancer and Metastasis Reviews</i> , 2021, 40, 989-1033.	2.7	14
147	Amino Acid Metabolism in Cancer Drug Resistance. <i>Cells</i> , 2022, 11, 140.	1.8	40
148	Glutamine-Derived Aspartate Biosynthesis in Cancer Cells: Role of Mitochondrial Transporters and New Therapeutic Perspectives. <i>Cancers</i> , 2022, 14, 245.	1.7	12
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150	Lysosomal cystine mobilization shapes the response of TORC1 and tissue growth to fasting. <i>Science</i> , 2022, 375, eabc4203.	6.0	35
152	A reversible metabolic stress-sensitive regulation of CRMP2A orchestrates EMT/stemness and increases metastatic potential in cancer. <i>Cell Reports</i> , 2022, 38, 110511.	2.9	6
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154	Hallmarks of Metabolic Reprogramming and Their Role in Viral Pathogenesis. <i>Viruses</i> , 2022, 14, 602.	1.5	20
155	Impact of cancer metabolism on therapy resistance – Clinical implications. <i>Drug Resistance Updates</i> , 2021, 59, 100797.	6.5	43
156	Metabolic regulation of somatic stem cells in vivo. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 428-443.	16.1	35
157	Effect of Evodiamine on Cancer Metabolism of Liver Tumor Through Met/EGFR and HIF Pathways. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
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160	Plasma Metabolites Forecast Occurrence and Prognosis for Patients With Diffuse Large B-Cell Lymphoma. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	3
161	Supramolecular assembly of GSK3 β as a cellular response to amino acid starvation. <i>Molecular Cell</i> , 2022, 82, 2858-2870.e8.	4.5	3
162	Cancer cells depend on environmental lipids for proliferation when electron acceptors are limited. <i>Nature Metabolism</i> , 2022, 4, 711-723.	5.1	29
163	Adaptive stimulation of macropinocytosis overcomes aspartate limitation in cancer cells under hypoxia. <i>Nature Metabolism</i> , 2022, 4, 724-738.	5.1	20
164	Asparagine synthetase regulates lung-cancer metastasis by stabilizing the β -catenin complex and modulating mitochondrial response. <i>Cell Death and Disease</i> , 2022, 13, .	2.7	7
165	Insight of a Metabolic Prognostic Model to Identify Tumor Environment and Drug Vulnerability for Lung Adenocarcinoma. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	4
167	Metabolic requirement for GOT2 in pancreatic cancer depends on environmental context. <i>ELife</i> , 0, 11, .	2.8	32
168	Exogenous proline enhances susceptibility of NSCLC to cisplatin via metabolic reprogramming and PLK1-mediated cell cycle arrest. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	3
169	Targeting lactate dehydrogenase B-dependent mitochondrial metabolism affects tumor initiating cells and inhibits tumorigenesis of non-small cell lung cancer by inducing mtDNA damage. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	14
170	Activated amino acid response pathway generates apatinib resistance by reprogramming glutamine metabolism in non-small-cell lung cancer. <i>Cell Death and Disease</i> , 2022, 13, .	2.7	7
171	The mechanism of formononetin/calycosin compound optimizing the effects of temozolomide on C6 malignant glioma based on metabolomics and network pharmacology. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113418.	2.5	6
173	Metabolic targeting of malignant tumors: a need for systemic approach. <i>Journal of Cancer Research and Clinical Oncology</i> , 2023, 149, 2115-2138.	1.2	2
174	The Proteome of Extracellular Vesicles Produced by the Human Gut Bacteria <i>Bacteroides thetaiotaomicron</i> <i>In Vivo</i> Is Influenced by Environmental and Host-Derived Factors. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	11
175	Bourgeoning Cancer Targets. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2023, 18, 147-160.	0.8	2
176	Arginine Supplementation Targeting Tumor-Killing Immune Cells Reconstructs the Tumor Microenvironment and Enhances the Antitumor Immune Response. <i>ACS Nano</i> , 2022, 16, 12964-12978.	7.3	21
177	Chemical genomics with pyrvinium identifies C1orf115 as a regulator of drug efflux. <i>Nature Chemical Biology</i> , 0, .	3.9	1
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179	Dual Effect of Tryptamine on Prostate Cancer Cell Growth Regulation: A Pilot Study. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11087.	1.8	3
180	GOT2 consider the tumor microenvironment. <i>Trends in Cancer</i> , 2022, 8, 884-886.	3.8	1
181	Asparagine bioavailability regulates the translation of MYC oncogene. <i>Oncogene</i> , 2022, 41, 4855-4865.	2.6	4
182	An asparagine metabolism-based classification reveals the metabolic and immune heterogeneity of hepatocellular carcinoma. <i>BMC Medical Genomics</i> , 2022, 15, .	0.7	5
183	Targeting PDAC metabolism: Environment determines what has GOT2 give. <i>Cell Metabolism</i> , 2022, 34, 1617-1619.	7.2	0
184	Cell Metabolomics Reveals the Potential Mechanism of Aloe Emodin and Emodin Inhibiting Breast Cancer Metastasis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13738.	1.8	3
185	Differential integrated stress response and asparagine production drive symbiosis and therapy resistance of pancreatic adenocarcinoma cells. <i>Nature Cancer</i> , 2022, 3, 1386-1403.	5.7	15
187	Opa1 and Drp1 reciprocally regulate cristae morphology, ETC function, and NAD ⁺ regeneration in KRas-mutant lung adenocarcinoma. <i>Cell Reports</i> , 2022, 41, 111818.	2.9	12
188	Hindering NAT8L expression in hepatocellular carcinoma increases cytosolic aspartate delivery that fosters pentose phosphate pathway and purine biosynthesis promoting cell proliferation. <i>Redox Biology</i> , 2023, 59, 102585.	3.9	2
191	Development of pseudo-targeted profiling of isotopic metabolomics using combined platform of high resolution mass spectrometry and triple quadrupole mass spectrometry with application of ¹³ C6-glucose tracing in HepG2 cells. <i>Journal of Chromatography A</i> , 2023, 1696, 463923.	1.8	2
193	l-Asparaginase regulates mTORC1 activity via a TSC2-dependent pathway in pancreatic beta cells. <i>Biochemical and Biophysical Research Communications</i> , 2023, 652, 121-130.	1.0	0
195	What is cancer metabolism?. <i>Cell</i> , 2023, 186, 1670-1688.	13.5	41
196	Aspartate and Acetate Fuel Gastrointestinal Stromal Tumors Beyond the Warburg Effect. <i>Annals of Surgery Open</i> , 2022, 3, e224.	0.7	0
197	Inhibition of mitochondrial metabolism by (â ⁺)-jerantinine A: synthesis and biological studies in triple-negative breast cancer cells. <i>RSC Medicinal Chemistry</i> , 2023, 14, 710-714.	1.7	2
198	Mitochondrial redox adaptations enable alternative aspartate synthesis in SDH-deficient cells. <i>ELife</i> , 0, 12, .	2.8	8
199	Metabolic reprogramming in cancer: Mechanisms and therapeutics. <i>MedComm</i> , 2023, 4, .	3.1	18
200	A nomogram based on metabolic profiling to discriminate lung cancer among patients with lung nodules. <i>Journal of International Medical Research</i> , 2023, 51, 030006052311612.	0.4	0
218	Participation of protein metabolism in cancer progression and its potential targeting for the management of cancer. <i>Amino Acids</i> , 2023, 55, 1223-1246.	1.2	2

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220	Amino acid metabolism in health and disease. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	14