

Tissue-specific isoform switch and DNA hypomethylation in human cancers

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Bistability in Glycolysis Pathway as a Physiological Switch in Energy Metabolism. PLoS ONE, 2014, 9, e98756.	1.1	60
2	Synergistic Induction of Potential Warburg Effect in Zebrafish Hepatocellular Carcinoma by Co-Transgenic Expression of Myc and xmrk Oncogenes. PLoS ONE, 2015, 10, e0132319.	1.1	14
3	miR675 upregulates long noncoding RNA H19 through activating EGR1 in human liver cancer. Oncotarget, 2015, 6, 31958-31984.	0.8	86
4	Organ-specific PTB1-associated microRNAs determine expression of pyruvate kinase isoforms. Scientific Reports, 2015, 5, 8647.	1.6	47
5	Pyruvate kinase M2 at a glance. Journal of Cell Science, 2015, 128, 1655-60.	1.2	150
6	Pyruvate kinase M2 interacts with DNA damage-binding protein 2 and reduces cell survival upon UV irradiation. Biochemical and Biophysical Research Communications, 2015, 467, 427-433.	1.0	5
7	How do glycolytic enzymes favour cancer cell proliferation by nonmetabolic functions?. Oncogene, 2015, 34, 3751-3759.	2.6	161
8	Current relevance of hypoxia in head and neck cancer. Oncotarget, 2016, 7, 50781-50804.	0.8	73
9	Quantitative label-free mass spectrometry analysis of formalin-fixed, paraffin-embedded tissue representing the invasive cutaneous malignant melanoma proteome. Oncology Letters, 2016, 12, 3296-3304.	0.8	13
10	Transcription Factors, Transcriptional Coregulators, and Epigenetic Modulation in the Control of Pulmonary Vascular Cell Phenotype: Therapeutic Implications for Pulmonary Hypertension (2015) Tj ETQq1 1 0.784314 rgBT 40verloc		
11	Up-regulation of PKM2 promote malignancy and related to adverse prognostic risk factor in human gallbladder cancer. Scientific Reports, 2016, 6, 26351.	1.6	35
12	PKM2 promotes tumor angiogenesis by regulating HIF-1 α through NF- κ B activation. Molecular Cancer, 2016, 15, 3.	7.9	233
13	DNA methylation, histone acetylation and methylation of epigenetic modifications as a therapeutic approach for cancers. Cancer Letters, 2016, 373, 185-192.	3.2	82
14	SIRT6 deacetylates PKM2 to suppress its nuclear localization and oncogenic functions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E538-47.	3.3	122
15	Cancer stem cell molecular reprogramming of the Warburg effect in glioblastomas: a new target gleaned from an old concept. CNS Oncology, 2016, 5, 101-108.	1.2	59
16	Pyruvate and Metabolic Flexibility: Illuminating a Path Toward Selective Cancer Therapies. Trends in Biochemical Sciences, 2016, 41, 219-230.	3.7	104
17	Screening of potential biomarkers for cholangiocarcinoma by integrated analysis of microarray data sets. Cancer Gene Therapy, 2016, 23, 48-53.	2.2	24
18	Interplay between epigenetics and metabolism in oncogenesis: mechanisms and therapeutic approaches. Oncogene, 2017, 36, 3359-3374.	2.6	219

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19	Enhanced expression of the M2 isoform of pyruvate kinase is involved in gastric cancer development by regulating cancer-specific metabolism. <i>Cancer Science</i> , 2017, 108, 931-940.	1.7	36
20	Intragenic DNA methylation and BORIS-mediated cancer-specific splicing contribute to the Warburg effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11440-11445.	3.3	55
21	Targeting metabolic pathways for head and neck cancers therapeutics. <i>Cancer and Metastasis Reviews</i> , 2017, 36, 503-514.	2.7	36
22	<i>Helicobacter pylori</i> outer inflammatory protein A (OipA) suppresses apoptosis of AGS gastric cells in vitro. <i>Cellular Microbiology</i> , 2017, 19, e12771.	1.1	20
23	Pyruvate Kinase and Warburg Metabolism in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2017, 136, 2486-2490.	1.6	55
24	Impact of Autoantibodies against Glycolytic Enzymes on Pathogenicity of Autoimmune Retinopathy and Other Autoimmune Disorders. <i>Frontiers in Immunology</i> , 2017, 8, 505.	2.2	24
25	lncRNA in HNSCC: challenges and potential. <i>Wspolczesna Onkologia</i> , 2017, 21, 259-266.	0.7	52
26	Pkm2 can enhance pluripotency in ESCs and promote somatic cell reprogramming to iPSCs. <i>Oncotarget</i> , 2017, 8, 84276-84284.	0.8	13
27	Metabo-Devo: A metabolic perspective of development. <i>Mechanisms of Development</i> , 2018, 154, 12-23.	1.7	28
28	Pyruvate kinase M2 interacts with nuclear sterol regulatory element-binding protein 1a and thereby activates lipogenesis and cell proliferation in hepatocellular carcinoma. <i>Journal of Biological Chemistry</i> , 2018, 293, 6623-6634.	1.6	47
29	Metabolic Kinases Moonlighting as Protein Kinases. <i>Trends in Biochemical Sciences</i> , 2018, 43, 301-310.	3.7	173
30	Pyruvate kinase M2 promotes pancreatic ductal adenocarcinoma invasion and metastasis through phosphorylation and stabilization of PAK2 protein. <i>Oncogene</i> , 2018, 37, 1730-1742.	2.6	56
31	Oxidative stress stimulates invasive potential in rat C6 and human U-87 MG glioblastoma cells via activation and cross-talk between PKM2, ENPP2 and APE1 enzymes. <i>Metabolic Brain Disease</i> , 2018, 33, 1307-1326.	1.4	22
32	Impairing energy metabolism in solid tumors through agents targeting oncogenic signaling pathways. <i>Biochemical Pharmacology</i> , 2018, 151, 114-125.	2.0	26
33	Mitochondrial Substrate-Level Phosphorylation as Energy Source for Glioblastoma: Review and Hypothesis. <i>ASN Neuro</i> , 2018, 10, 175909141881826.	1.5	80
34	The Multifarious Functions of Pyruvate Kinase M2 in Oral Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2907.	1.8	33
35	Pyruvate kinase M2 regulates homologous recombination-mediated DNA double-strand break repair. <i>Cell Research</i> , 2018, 28, 1090-1102.	5.7	51
36	Regulation of chromatin and gene expression by metabolic enzymes and metabolites. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 563-578.	16.1	297

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37	The Krebs Cycle Connection: Reciprocal Influence Between Alternative Splicing Programs and Cell Metabolism. <i>Frontiers in Oncology</i> , 2018, 8, 408.	1.3	14
38	Protein kinase CK2 modulation of pyruvate kinase M isoforms augments the Warburg effect in cancer cells. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 8501-8510.	1.2	14
39	Posttranslational Modifications of Pyruvate Kinase M2: Tweaks that Benefit Cancer. <i>Frontiers in Oncology</i> , 2018, 8, 22.	1.3	99
40	Metabolic signature of squamous cell carcinoma of the head and neck: Consequences of TP53 mutation and therapeutic perspectives. <i>Oral Oncology</i> , 2018, 83, 1-10.	0.8	15
41	Pyruvate Kinase M2 Increases Angiogenesis, Neurogenesis, and Functional Recovery Mediated by Upregulation of STAT3 and Focal Adhesion Kinase Activities After Ischemic Stroke in Adult Mice. <i>Neurotherapeutics</i> , 2018, 15, 770-784.	2.1	51
42	Metabolic Regulation of Glycolysis and AMP Activated Protein Kinase Pathways during Black Raspberry-Mediated Oral Cancer Chemoprevention. <i>Metabolites</i> , 2019, 9, 140.	1.3	30
43	FABP7 is a key metabolic regulator in HER2+ breast cancer brain metastasis. <i>Oncogene</i> , 2019, 38, 6445-6460.	2.6	56
44	Multi-dimensional immunoproteomics coupled with in vitro recapitulation of oncogenic NRASQ61R identifies diagnostically relevant autoantibody biomarkers in thyroid neoplasia. <i>Cancer Letters</i> , 2019, 467, 96-106.	3.2	11
45	Aberrant DNA methylation defines isoform usage in cancer, with functional implications. <i>PLoS Computational Biology</i> , 2019, 15, e1007095.	1.5	16
46	Metabolic Dysregulations and Epigenetics: A Bidirectional Interplay that Drives Tumor Progression. <i>Cells</i> , 2019, 8, 798.	1.8	31
47	Effects of Dietary Threonine Levels on Intestinal Immunity and Antioxidant Capacity Based on Cecal Metabolites and Transcription Sequencing of Broiler. <i>Animals</i> , 2019, 9, 739.	1.0	3
48	Mutations in the PKM2 exon-10 region are associated with reduced allostery and increased nuclear translocation. <i>Communications Biology</i> , 2019, 2, 105.	2.0	17
49	Dietary-phytochemical mediated reversion of cancer-specific splicing inhibits Warburg effect in head and neck cancer. <i>BMC Cancer</i> , 2019, 19, 1031.	1.1	21
50	Warburg effect and its role in tumourigenesis. <i>Archives of Pharmacal Research</i> , 2019, 42, 833-847.	2.7	77
51	Primary prostate cancer educates bone stroma through exosomal pyruvate kinase M2 to promote bone metastasis. <i>Journal of Experimental Medicine</i> , 2019, 216, 2883-2899.	4.2	122
52	Metabolic Reprogramming in Breast Cancer and Its Therapeutic Implications. <i>Cells</i> , 2019, 8, 89.	1.8	136
53	HSP90 Molecular Chaperones, Metabolic Rewiring, and Epigenetics: Impact on Tumor Progression and Perspective for Anticancer Therapy. <i>Cells</i> , 2019, 8, 532.	1.8	68
54	miR-140-5p induces cell apoptosis and decreases Warburg effect in chronic myeloid leukemia by targeting SIX1. <i>Bioscience Reports</i> , 2019, 39, .	1.1	30

#	ARTICLE	IF	CITATIONS
55	A genetic toolkit for the analysis of metabolic changes in <i>Drosophila</i> provides new insights into metabolic responses to stress and malignant transformation. <i>Scientific Reports</i> , 2019, 9, 19945.	1.6	11
56	Epigenetic modulation of metabolism in glioblastoma. <i>Seminars in Cancer Biology</i> , 2019, 57, 45-51.	4.3	76
57	Metabolism and Redox in Pulmonary Vascular Physiology and Pathophysiology. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 752-769.	2.5	12
58	Biochemical and biophysical characterization of the smallest pyruvate kinase from <i>Entamoeba histolytica</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140296.	1.1	3
59	Sequenced Combinations of Cisplatin and Selected Phytochemicals towards Overcoming Drug Resistance in Ovarian Tumour Models. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7500.	1.8	8
60	Protein kinase function of pyruvate kinase M2 and cancer. <i>Cancer Cell International</i> , 2020, 20, 523.	1.8	43
61	Identification of Gliotoxin isolated from marine fungus as a new pyruvate kinase M2 inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 594-600.	1.0	21
62	Targeting immunometabolism as an anti-inflammatory strategy. <i>Cell Research</i> , 2020, 30, 300-314.	5.7	285
63	Identification of Parthenolide Dimers as Activators of Pyruvate Kinase M2 in Xenografts of Glioblastoma Multiforme in Vivo. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1597-1611.	2.9	36
64	Characterization of novel USP6 gene rearrangements in a subset of so-called cellular fibroma of tendon sheath. <i>Modern Pathology</i> , 2021, 34, 13-19.	2.9	20
65	Exploring the crosstalk of glycolysis and mitochondrial metabolism in psychiatric disorders and brain tumours. <i>European Journal of Neuroscience</i> , 2021, 53, 3002-3018.	1.2	4
66	FOXMD potentiates PKM2-mediated tumor glycolysis and angiogenesis. <i>Molecular Oncology</i> , 2021, 15, 1466-1485.	2.1	30
67	<i>PTBP1</i> Genetic Variants Affect the Clinical Response to Androgen-deprivation Therapy in Patients With Prostate Cancer. <i>Cancer Genomics and Proteomics</i> , 2021, 18, 325-334.	1.0	5
68	The Evolving Landscape of Noncanonical Functions of Metabolic Enzymes in Cancer and Other Pathologies. <i>Cell Metabolism</i> , 2021, 33, 33-50.	7.2	93
69	The Role of PKM2 in Metabolic Reprogramming: Insights into the Regulatory Roles of Non-Coding RNAs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1171.	1.8	36
70	Metabolic regulation in urological tumors: Interplay with epigenetics and epitranscriptomics. , 2021, , 107-145.		0
71	Research advances on epigenetics and cancer metabolism. <i>Zhejiang Da Xue Xue Bao Yi Xue Ban = Journal of Zhejiang University Medical Sciences</i> , 2021, 50, 1-16.	0.1	4
72	Metabolic Alteration in Hepatocellular Carcinoma: Mechanism of Lipid Accumulation in Well-Differentiated Hepatocellular Carcinoma. <i>Canadian Journal of Gastroenterology and Hepatology</i> , 2021, 2021, 1-13.	0.8	11

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73	Posttranslational modification of pyruvate kinase type M2 (PKM2): novel regulation of its biological roles to be further discovered. <i>Journal of Physiology and Biochemistry</i> , 2021, 77, 355-363.	1.3	18
74	Metabolic adaptation in hypoxia and cancer. <i>Cancer Letters</i> , 2021, 502, 133-142.	3.2	86
75	Epigenomic and Metabolomic Integration Reveals Dynamic Metabolic Regulation in Bladder Cancer. <i>Cancers</i> , 2021, 13, 2719.	1.7	8
76	Oxygen sensing, mitochondrial biology and experimental therapeutics for pulmonary hypertension and cancer. <i>Free Radical Biology and Medicine</i> , 2021, 170, 150-178.	1.3	32
77	Glioma Stem-Like Cells and Metabolism: Potential for Novel Therapeutic Strategies. <i>Frontiers in Oncology</i> , 2021, 11, 743814.	1.3	15
78	Interplay between Epigenetics and Cellular Metabolism in Colorectal Cancer. <i>Biomolecules</i> , 2021, 11, 1406.	1.8	4
79	Mechanisms Governing Metabolic Heterogeneity in Breast Cancer and Other Tumors. <i>Frontiers in Oncology</i> , 2021, 11, 700629.	1.3	17
80	MRL/MpJ tendon matrix-derived therapeutic promotes improved healing outcomes in scar-mediated canonical tendon healing. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1548-1560.	1.2	12
81	Isoform Switch of Pyruvate Kinase M1 Indeed Occurs but Not to Pyruvate Kinase M2 in Human Tumorigenesis. <i>PLoS ONE</i> , 2015, 10, e0118663.	1.1	25
82	Epigenetic and genetic dispositions of ovarian carcinomas. <i>Oncoscience</i> , 2014, 1, 574-579.	0.9	13
83	Human PDE4D isoform composition is deregulated in primary prostate cancer and indicative for disease progression and development of distant metastases. <i>Oncotarget</i> , 2016, 7, 70669-70684.	0.8	21
84	PKM2 in carcinogenesis and oncotherapy. <i>Oncotarget</i> , 2017, 8, 110656-110670.	0.8	44
85	Co-expression of PKM2 and TRIM35 predicts survival and recurrence in hepatocellular carcinoma. <i>Oncotarget</i> , 2015, 6, 2539-2548.	0.8	50
86	The impact of RNA binding motif protein 4-regulated splicing cascade on the progression and metabolism of colorectal cancer cells. <i>Oncotarget</i> , 2015, 6, 38046-38060.	0.8	19
87	The sweet trap in tumors: aerobic glycolysis and potential targets for therapy. <i>Oncotarget</i> , 2016, 7, 38908-38926.	0.8	90
88	QKI5-mediated alternative splicing of the histone variant macroH2A1 regulates gastric carcinogenesis. <i>Oncotarget</i> , 2016, 7, 32821-32834.	0.8	19
89	Phage display library selection of a hypoxia-binding scFv antibody for liver cancer metabolic marker discovery. <i>Oncotarget</i> , 2016, 7, 38105-38121.	0.8	11
90	Correlation of Pyruvate Kinase M2 Expression with Clinicopathological Data in Ovarian Cancer. <i>Anticancer Research</i> , 2018, 38, 295-300.	0.5	6

#	ARTICLE	IF	CITATIONS
91	Mitochondria in Cancer Energy Metabolism: Culprits or Bystanders?. <i>Toxicological Research</i> , 2015, 31, 323-330.	1.1	33
92	Upregulated expression of pyruvate kinase M2 mRNA predicts poor prognosis in lung adenocarcinoma. <i>PeerJ</i> , 2020, 8, e8625.	0.9	3
93	Inducible Liver Cancer Models in Transgenic Zebrafish to Investigate Cancer Biology. <i>Cancers</i> , 2021, 13, 5148.	1.7	8
95	Pyruvate Kinase M2 Knockdown Suppresses Migration, Invasion, and Epithelial-Mesenchymal Transition of Gastric Carcinoma via Hypoxia-Inducible Factor Alpha/B-Cell Lymphoma 6 Pathway. <i>BioMed Research International</i> , 2020, 2020, 1-10.	0.9	4
97	MYC regulates metabolism through vesicular transfer of glycolytic kinases. <i>Open Biology</i> , 2021, 11, 210276.	1.5	5
98	PKM2 Modulation in Head and Neck Squamous Cell Carcinoma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 775.	1.8	8
99	A New Trend in Cancer Treatment: The Combination of Epigenetics and Immunotherapy. <i>Frontiers in Immunology</i> , 2022, 13, 809761.	2.2	29
101	Signal Transduction during Metabolic and Inflammatory Reprogramming in Pulmonary Vascular Remodeling. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2410.	1.8	8
102	Expression of HK2, PKM2, and PFKM Is Associated with Metastasis and Late Disease Onset in Breast Cancer Patients. <i>Genes</i> , 2022, 13, 549.	1.0	14
103	Pyruvate kinase M2 (PKM2) improve symptoms of post-ischemic stroke depression by activating VEGF to mediate the MAPK/ERK pathway. <i>Brain and Behavior</i> , 2022, 12, e2450.	1.0	10
105	Targeting pyruvate kinase M2 signaling for development of effective cancer therapy. , 2022, , 199-222.		0
106	The C-Terminal Acidic Tail Modulates the Anticancer Properties of HMGB1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7865.	1.8	1
107	Connections between metabolism and epigenetics: mechanisms and novel anti-cancer strategy. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	12
108	A Novel Splice Variant of BCAS1 Inhibits Î ² -Arrestin 2 to Promote the Proliferation and Migration of Glioblastoma Cells, and This Effect Was Blocked by Maackiain. <i>Cancers</i> , 2022, 14, 3890.	1.7	2
109	Single-Cell FISH Analysis Reveals Distinct Shifts in PKM Isoform Populations during Drug Resistance Acquisition. <i>Biomolecules</i> , 2022, 12, 1082.	1.8	1
110	Warburg-like metabolic transformation underlies neuronal degeneration in sporadic Alzheimer's disease. <i>Cell Metabolism</i> , 2022, 34, 1248-1263.e6.	7.2	55
111	DNA damage, metabolism, and epigenetic regulation. , 2022, , 111-138.		0
112	Revisited Metabolic Control and Reprogramming Cancers by Means of the Warburg Effect in Tumor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 10037.	1.8	37

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113	Reprogramming Carbohydrate Metabolism in Cancer and Its Role in Regulating the Tumor Microenvironment. <i>Sub-Cellular Biochemistry</i> , 2022, , 3-65.	1.0	4
114	Epigenetic Small-Molecule Modulators Targeting Metabolic Pathways in Cancer. <i>Sub-Cellular Biochemistry</i> , 2022, , 523-555.	1.0	0
115	Modulation of DNA/RNA Methylation Signaling Mediating Metabolic Homeostasis in Cancer. <i>Sub-Cellular Biochemistry</i> , 2022, , 201-237.	1.0	1
116	Correlation of Glucose Metabolism with Cancer and Intervention with Traditional Chinese Medicine. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-17.	0.5	1
117	Targeting hypoxia-related metabolism molecules: How to improve tumour immune and clinical treatment?. <i>Biomedicine and Pharmacotherapy</i> , 2022, 156, 113917.	2.5	0
118	MODELING.Vis: A Graphical User Interface Toolbox Developed for Machine Learning and Pattern Recognition of Biomolecular Data. <i>Symmetry</i> , 2023, 15, 42.	1.1	0
119	<scp>PKM2</scp> controls the translation of <scp>TFE3</scp> to maintain the integrity of the Golgi apparatus for the survival of <scp>HeLa</scp> and <scp>ME</scp>â€180 cervical cancer cells. <i>FEBS Journal</i> , 2023, 290, 3221-3242.	2.2	2
120	Effectiveness for Diagnosis of Malignancy of Bile Pyruvate Kinase M2 in Patients with Indeterminate Biliary Stricture. <i>Surgical Laparoscopy, Endoscopy and Percutaneous Techniques</i> , 2023, 33, 147-151.	0.4	0