

# Pyruvate kinase type M2: A key regulator of the metabo

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Turning on a Fuel Switch of Cancer: hnRNP Proteins Regulate Alternative Splicing of Pyruvate Kinase mRNA. <i>Cancer Research</i> , 2010, 70, 8977-8980.	0.4	189
3	Identification of cytoplasmic and membrane-associated complexes in human embryonic stem cells using blue native PAGE. <i>Molecular BioSystems</i> , 2011, 7, 2688.	2.9	7
4	Targeting cancer metabolism: a therapeutic window opens. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 671-684.	21.5	1,227
5	Nuclear PKM2 regulates $\beta$ -catenin transactivation upon EGFR activation. <i>Nature</i> , 2011, 480, 118-122.	13.7	834
6	PK-M2 Makes Cells Sweeter on HIF1. <i>Cell</i> , 2011, 145, 647-649.	13.5	22
7	Back to the Future: Molecular Biology Meets Metabolism. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 403-411.	2.0	7
8	Metabolic Pathway Alterations that Support Cell Proliferation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 325-334.	2.0	252
9	Serine biosynthesis with one carbon catabolism represents a novel pathway for ATP generation in cells using alternative glycolysis with zero net ATP production. <i>Nature Precedings</i> , 2011, , .	0.1	0
10	Emerging Metabolic Targets in Cancer Therapy. <i>Frontiers in Bioscience - Landmark</i> , 2011, 16, 1844.	3.0	70
11	Aspirin acetylates multiple cellular proteins in HCT-116 colon cancer cells: Identification of novel targets. <i>International Journal of Oncology</i> , 2011, 39, 1273-83.	1.4	36
12	Enzymatic features of the glucose metabolism in tumor cells. <i>FEBS Journal</i> , 2011, 278, 2436-2459.	2.2	56
13	2-Oxo-N-aryl-1,2,3,4-tetrahydroquinoline-6-sulfonamides as activators of the tumor cell specific M2 isoform of pyruvate kinase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6322-6327.	1.0	51
14	Mammalian target of rapamycin up-regulation of pyruvate kinase isoenzyme type M2 is critical for aerobic glycolysis and tumor growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4129-4134.	3.3	498
15	Anticancer Targets in the Glycolytic Metabolism of Tumors: A Comprehensive Review. <i>Frontiers in Pharmacology</i> , 2011, 2, 49.	1.6	367
16	Aerobic Glycolysis: Meeting the Metabolic Requirements of Cell Proliferation. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 441-464.	4.0	2,333
17	The oxygen sensor PHD3 limits glycolysis under hypoxia via direct binding to pyruvate kinase. <i>Cell Research</i> , 2011, 21, 983-986.	5.7	26
18	Defining the Molecular Basis of Tumor Metabolism: a Continuing Challenge Since Warburg's Discovery. <i>Cellular Physiology and Biochemistry</i> , 2011, 28, 771-792.	1.1	29
19	Bioactive Food Components and Cancer-Specific Metabonomic Profiles. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-9.	3.0	19

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20	Pyruvate uptake is increased in highly invasive ovarian cancer cells under anoikis conditions for anaplerosis, mitochondrial function, and migration. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E1036-E1052.	1.8	83
21	Death-associated proliferation kinetic in normal and transformed cells. <i>Cell Cycle</i> , 2012, 11, 1512-1516.	1.3	3
22	Pyruvate kinase M2-specific siRNA induces apoptosis and tumor regression. <i>Journal of Experimental Medicine</i> , 2012, 209, 217-224.	4.2	204
23	PKM2, STAT3 and HIF-1 $\alpha$ . <i>Jak-stat</i> , 2012, 1, 194-196.	2.2	87
24	The immune diet: meeting the metabolic demands of lymphocyte activation. <i>F1000 Biology Reports</i> , 2012, 4, 9.	4.0	25
25	Emerging roles of PKM2 in cell metabolism and cancer progression. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 560-566.	3.1	284
26	Concentration-dependent control of pyruvate kinase M mutually exclusive splicing by hnRNP proteins. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 346-354.	3.6	93
27	Pyruvate Kinase M2: Multiple Faces for Conferring Benefits on Cancer Cells. <i>Clinical Cancer Research</i> , 2012, 18, 5554-5561.	3.2	205
28	1-(sulfonyl)-5-(arylsulfonyl)indoline as activators of the tumor cell specific M2 isoform of pyruvate kinase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 6460-6468.	1.0	37
29	Rocking cell metabolism: revised functions of the key glycolytic regulator PKM2 in cancer. <i>Trends in Biochemical Sciences</i> , 2012, 37, 309-316.	3.7	224
30	Small-Molecule Reprogramming of Cancer Metabolism. <i>Chemistry and Biology</i> , 2012, 19, 1084-1085.	6.2	1
31	The P2X7 receptor is a key modulator of aerobic glycolysis. <i>Cell Death and Disease</i> , 2012, 3, e370-e370.	2.7	117
32	SAICAR Stimulates Pyruvate Kinase Isoform M2 and Promotes Cancer Cell Survival in Glucose-Limited Conditions. <i>Science</i> , 2012, 338, 1069-1072.	6.0	202
33	Death-associated protein kinase increases glycolytic rate through binding and activation of pyruvate kinase. <i>Oncogene</i> , 2012, 31, 683-693.	2.6	46
34	Alterations of metabolic genes and metabolites in cancer. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 370-380.	2.3	100
35	Targeting the ATF4 pathway in cancer therapy. <i>Expert Opinion on Therapeutic Targets</i> , 2012, 16, 1189-1202.	1.5	115
36	Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. <i>Nature Chemical Biology</i> , 2012, 8, 839-847.	3.9	614
37	Inactivation of Spry2 accelerates AKT-driven hepatocarcinogenesis via activation of MAPK and PKM2 pathways. <i>Journal of Hepatology</i> , 2012, 57, 577-583.	1.8	45

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38	PKM2 Enters the Morpheein Academy. <i>Molecular Cell</i> , 2012, 45, 583-584.	4.5	19
39	Pyruvate kinase M2 promotes the growth of gastric cancer cells via regulation of Bcl-xL expression at transcriptional level. <i>Biochemical and Biophysical Research Communications</i> , 2012, 423, 38-44.	1.0	62
40	Vitamin K3 and K5 are inhibitors of tumor pyruvate kinase M2. <i>Cancer Letters</i> , 2012, 316, 204-210.	3.2	45
41	Phosphotyrosine recognition domains: the typical, the atypical and the versatile. <i>Cell Communication and Signaling</i> , 2012, 10, 32.	2.7	70
42	Metabolic checkpoints in activated T cells. <i>Nature Immunology</i> , 2012, 13, 907-915.	7.0	413
43	Glutamine-fueled mitochondrial metabolism is decoupled from glycolysis in melanoma. <i>Pigment Cell and Melanoma Research</i> , 2012, 25, 732-739.	1.5	93
44	PKM2: a new player in the $\beta$ -catenin game. <i>Future Oncology</i> , 2012, 8, 395-398.	1.1	12
45	A global view of the biochemical pathways involved in the regulation of the metabolism of cancer cells. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2012, 1826, 423-433.	3.3	79
46	Analysis of glutamine dependency in non-small cell lung cancer. <i>Cancer Biology and Therapy</i> , 2012, 13, 1185-1194.	1.5	183
47	Homocysteine induces energy imbalance in rat skeletal muscle: Is creatine a protector?. <i>Cell Biochemistry and Function</i> , 2013, 31, 575-584.	1.4	31
48	DAPk and pyruvate kinase: Unlikely partners in cancer metabolic regulation. <i>Cell Cycle</i> , 2012, 11, 3-4.	1.3	2
49	Splicing Programs and Cancer. <i>Journal of Nucleic Acids</i> , 2012, 2012, 1-9.	0.8	43
50	Forward Chemical Genetics in Yeast for Discovery of Chemical Probes Targeting Metabolism. <i>Molecules</i> , 2012, 17, 13098-13115.	1.7	14
51	Metabotype Concept: Flexibility, Usefulness and Meaning in Different Biological Populations. , 0, , .		2
52	Faecal pyruvate kinase isoenzyme type M2 for colorectal cancer screening: A meta-analysis. <i>World Journal of Gastroenterology</i> , 2012, 18, 4004.	1.4	48
53	Cancer stem cells, microRNAs, and therapeutic strategies including natural products. <i>Cancer and Metastasis Reviews</i> , 2012, 31, 733-751.	2.7	58
54	Pyruvate kinase M2 promotes de novo serine synthesis to sustain mTORC1 activity and cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6904-6909.	3.3	323
55	A two-way street: reciprocal regulation of metabolism and signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 270-276.	16.1	430

#	ARTICLE	IF	CITATIONS
56	Anticancer Agents That Counteract Tumor Glycolysis. <i>ChemMedChem</i> , 2012, 7, 1318-1350.	1.6	137
57	Experimental results using 3-bromopyruvate in mesothelioma: in vitro and in vivo studies. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 81-90.	1.0	13
58	Targeting aerobic glycolysis: 3-bromopyruvate as a promising anticancer drug. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 17-29.	1.0	112
59	ATP synthesis and storage. <i>Purinergic Signalling</i> , 2012, 8, 343-357.	1.1	340
60	Metabolic Reprogramming: A Cancer Hallmark Even Warburg Did Not Anticipate. <i>Cancer Cell</i> , 2012, 21, 297-308.	7.7	2,617
61	Understanding the central role of citrate in the metabolism of cancer cells. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2012, 1825, 111-116.	3.3	102
62	A proteomic approach to identification of plutonium-binding proteins in mammalian cells. <i>Journal of Proteomics</i> , 2012, 75, 1505-1514.	1.2	18
63	Association of C-terminal region of phosphoglycerate mutase with glycolytic complex regulates energy production in cancer cells. <i>Journal of Cellular Physiology</i> , 2012, 227, 2613-2621.	2.0	15
64	Pyruvate kinase M2 is a novel diagnostic marker and predicts tumor progression in human biliary tract cancer. <i>Cancer</i> , 2013, 119, 575-585.	2.0	33
65	Mass spectrometric analysis reveals O-methylation of pyruvate kinase from pancreatic cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4937-4943.	1.9	6
66	Epithelial cancers in the post-genomic era: should we reconsider our lifestyle?. <i>Cancer and Metastasis Reviews</i> , 2013, 32, 673-705.	2.7	19
67	Alternative $\langle scp \rangle$ RNA $\langle /scp \rangle$ splicing and cancer. <i>Wiley Interdisciplinary Reviews RNA</i> , 2013, 4, 547-566.	3.2	80
68	Rapid effector function of memory CD8+ T cells requires an immediate-early glycolytic switch. <i>Nature Immunology</i> , 2013, 14, 1064-1072.	7.0	436
69	Linking vitamin B1 with cancer cell metabolism. <i>Cancer &amp; Metabolism</i> , 2013, 1, 16.	2.4	68
70	PKM2 Isoform-Specific Deletion Reveals a Differential Requirement for Pyruvate Kinase in Tumor Cells. <i>Cell</i> , 2013, 155, 397-409.	13.5	429
71	Tumor Metabolism of Malignant Gliomas. <i>Cancers</i> , 2013, 5, 1469-1484.	1.7	63
72	Direct Measurements of Oscillatory Glycolysis in Pancreatic Islet $\beta^2$ -Cells Using Novel Fluorescence Resonance Energy Transfer (FRET) Biosensors for Pyruvate Kinase M2 Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 33312-33322.	1.6	76
73	Human Gametes and Preimplantation Embryos. , 2013, , .		8

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74	Contribution of serine, folate and glycine metabolism to the ATP, NADPH and purine requirements of cancer cells. <i>Cell Death and Disease</i> , 2013, 4, e877-e877.	2.7	223
75	Quinoline 3-sulfonamides inhibit lactate dehydrogenase A and reverse aerobic glycolysis in cancer cells. <i>Cancer &amp; Metabolism</i> , 2013, 1, 19.	2.4	163
76	Fueling Immunity: Insights into Metabolism and Lymphocyte Function. <i>Science</i> , 2013, 342, 1242454.	6.0	1,070
77	Quantitative proteomics analysis of varicose veins: Identification of a set of differentially expressed proteins related to ATP generation and utilization. <i>Kaohsiung Journal of Medical Sciences</i> , 2013, 29, 594-605.	0.8	12
78	An iTRAQ based quantitative proteomic strategy to explore novel secreted proteins in metastatic hepatocellular carcinoma cell lines. <i>Analyst</i> , 2013, 138, 4505.	1.7	20
79	GCN2, an old dog with new tricks. <i>Biochemical Society Transactions</i> , 2013, 41, 1687-1691.	1.6	14
80	Dual roles of PKM2 in cancer metabolism. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 27-35.	0.9	70
81	Serine starvation induces stress and p53-dependent metabolic remodelling in cancer cells. <i>Nature</i> , 2013, 493, 542-546.	13.7	773
82	Mitoplasticity: Adaptation Biology of the Mitochondrion to the Cellular Redox State in Physiology and Carcinogenesis. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 808-849.	2.5	40
83	The Warburg Effect and Beyond: Metabolic Dependencies for Cancer Cells. , 2013, , 35-51.		3
84	Mitogenic and Oncogenic Stimulation of K433 Acetylation Promotes PKM2 Protein Kinase Activity and Nuclear Localization. <i>Molecular Cell</i> , 2013, 52, 340-352.	4.5	246
85	Similar pyruvate kinase modifications in glioblastoma cells by $\gamma$ -hydroxycholesterol and glutamine withdrawal. <i>Biochemical Pharmacology</i> , 2013, 86, 161-167.	2.0	4
86	Improved Clearance during Treatment of HPV-Positive Head and Neck Cancer through mTOR Inhibition. <i>Neoplasia</i> , 2013, 15, 620-629.	2.3	32
87	Activated lymphocytes as a metabolic model for carcinogenesis. <i>Cancer &amp; Metabolism</i> , 2013, 1, 5.	2.4	72
88	Mitochondria-Mediated Energy Adaption in Cancer: The H <sup>+</sup> -ATP Synthase-Geared Switch of Metabolism in Human Tumors. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 285-298.	2.5	59
89	Discovery of 2-((1H-benzo[d]imidazol-1-yl)methyl)-4H-pyrido[1,2-a]pyrimidin-4-ones as novel PKM2 activators. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3358-3363.	1.0	40
90	Analysis of metabolism to select viable human embryos for transfer. <i>Fertility and Sterility</i> , 2013, 99, 1062-1072.	0.5	115
91	Regulation and function of pyruvate kinase M2 in cancer. <i>Cancer Letters</i> , 2013, 339, 153-158.	3.2	159

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92	Overview: Cellular plasticity, cancer stem cells and metastasis. <i>Cancer Letters</i> , 2013, 341, 2-8.	3.2	60
94	Effect of posttranslational modifications on enzyme function and assembly. <i>Journal of Proteomics</i> , 2013, 92, 80-109.	1.2	93
95	The role of interleukin-6 in the evolution of ovarian cancer: clinical and prognostic implications—a review. <i>Journal of Molecular Medicine</i> , 2013, 91, 1355-1368.	1.7	50
96	Proteomics analysis of tumor microenvironment: Implications of metabolic and oxidative stresses in tumorigenesis. <i>Mass Spectrometry Reviews</i> , 2013, 32, 267-311.	2.8	15
97	Allosteric Regulation of PKM2 Allows Cellular Adaptation to Different Physiological States. <i>Science Signaling</i> , 2013, 6, pe7.	1.6	93
98	Aerobic glycolysis: a novel target in kidney cancer. <i>Expert Review of Anticancer Therapy</i> , 2013, 13, 711-719.	1.1	70
99	Emerging Cellular Functions of Cytoplasmic PML. <i>Frontiers in Oncology</i> , 2013, 3, 147.	1.3	14
100	Pharmacologic Activation of PKM2 Slows Lung Tumor Xenograft Growth. <i>Molecular Cancer Therapeutics</i> , 2013, 12, 1453-1460.	1.9	62
101	Natural Compounds as Regulators of the Cancer Cell Metabolism. <i>International Journal of Cell Biology</i> , 2013, 2013, 1-16.	1.0	49
102	PKM2, a Central Point of Regulation in Cancer Metabolism. <i>International Journal of Cell Biology</i> , 2013, 2013, 1-11.	1.0	188
103	Anti-cancer Drug Development: Computational Strategies to Identify and Target Proteins Involved in Cancer Metabolism. <i>Current Pharmaceutical Design</i> , 2013, 19, 532-577.	0.9	30
104	How does cancer cell metabolism affect tumor migration and invasion?. <i>Cell Adhesion and Migration</i> , 2013, 7, 395-403.	1.1	165
105	M2 pyruvate kinase provides a mechanism for nutrient sensing and regulation of cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5881-5886.	3.3	132
106	M2 isoform of pyruvate kinase is dispensable for tumor maintenance and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 489-494.	3.3	145
107	Citrate induces apoptosis of the acute monocytic leukemia U937 cell line through regulation of HIF-1 $\alpha$ signaling. <i>Molecular Medicine Reports</i> , 2013, 8, 1379-1384.	1.1	8
108	In Scarcity and Abundance: Metabolic Signals Regulating Cell Growth. <i>Physiology</i> , 2013, 28, 298-309.	1.6	6
109	STAT6 promotes bi-directional modulation of PKM2 in liver and adipose inflammatory cells in Rosiglitazone-treated mice. <i>Scientific Reports</i> , 2013, 3, 2350.	1.6	14
110	Ectopic expression of the TERE1 (UBIAD1) protein inhibits growth of renal clear cell carcinoma cells: Altered metabolic phenotype associated with reactive oxygen species, nitric oxide and SXR target genes involved in cholesterol and lipid metabolism. <i>International Journal of Oncology</i> , 2013, 43, 638-652.	1.4	25

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111	Fecal Biomarkers in Inflammatory Bowel Disease. <i>Intestinal Research</i> , 2013, 11, 73.	1.0	11
112	Phosphoglycerate dehydrogenase is dispensable for breast tumor maintenance and growth. <i>Oncotarget</i> , 2013, 4, 2502-2511.	0.8	71
113	Bladder Cancer Biomarker Discovery Using Global Metabolomic Profiling of Urine. <i>PLoS ONE</i> , 2014, 9, e115870.	1.1	99
114	Activators of PKM2 in cancer metabolism. <i>Future Medicinal Chemistry</i> , 2014, 6, 1167-1178.	1.1	39
115	Chronophin Dimerization Is Required for Proper Positioning of Its Substrate Specificity Loop. <i>Journal of Biological Chemistry</i> , 2014, 289, 3094-3103.	1.6	14
116	GRIM-19 mutations fail to inhibit v-Src-induced oncogenesis. <i>Oncogene</i> , 2014, 33, 3195-3204.	2.6	7
117	PKM2: The Thread Linking Energy Metabolism Reprogramming with Epigenetics in Cancer. <i>International Journal of Molecular Sciences</i> , 2014, 15, 11435-11445.	1.8	35
118	Pivotal Role of Pervasive Neoplastic and Stromal Cells Reprogramming in Circulating Tumor Cells Dissemination and Metastatic Colonization. <i>Cancer Microenvironment</i> , 2014, 7, 95-115.	3.1	32
119	Different expression of placental pyruvate kinase in normal, preeclamptic and intrauterine growth restriction pregnancies. <i>Placenta</i> , 2014, 35, 883-890.	0.7	31
120	Structures of pyruvate kinases display evolutionarily divergent allosteric strategies. <i>Royal Society Open Science</i> , 2014, 1, 140120.	1.1	21
121	Tumor Metabolome Targeting and Drug Development. <i>Cancer Drug Discovery and Development</i> , 2014, , .	0.2	0
122	Nutrient Sensing via mTOR in T Cells Maintains a Tolerogenic Microenvironment. <i>Frontiers in Immunology</i> , 2014, 5, 409.	2.2	63
123	The proliferating cell hypothesis: a metabolic framework for Plasmodium growth and development. <i>Trends in Parasitology</i> , 2014, 30, 170-175.	1.5	51
124	Pyruvate kinase M2 facilitates colon cancer cell migration via the modulation of STAT3 signalling. <i>Cellular Signalling</i> , 2014, 26, 1853-1862.	1.7	112
125	PKM2 and ACVR 1C are prognostic markers for poor prognosis of gallbladder cancer. <i>Clinical and Translational Oncology</i> , 2014, 16, 200-207.	1.2	37
126	Culture of Viable Mammalian Embryos In Vitro. , 2014, , 63-84.		5
127	Cytoplasmic PML: From Molecular Regulation to Biological Functions. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 812-818.	1.2	11
128	Serine and glycine metabolism in cancer. <i>Trends in Biochemical Sciences</i> , 2014, 39, 191-198.	3.7	801



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129	Estradiol-17 $\beta$ Upregulates Pyruvate Kinase M2 Expression to Coactivate Estrogen Receptor- $\beta$ and to Integrate Metabolic Reprogramming With the Mitogenic Response in Endometrial Cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 3790-3799.	1.8	30
130	JMJD5 regulates PKM2 nuclear translocation and reprograms HIF-1 $\alpha$ -mediated glucose metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 279-284.	3.3	235
131	Pyruvate kinase M2 and cancer: an updated assessment. <i>FEBS Letters</i> , 2014, 588, 2685-2692.	1.3	153
132	Cancer Usurps Skeletal Muscle as an Energy Repository. <i>Cancer Research</i> , 2014, 74, 330-340.	0.4	88
133	The role of mitochondrial electron transport in tumorigenesis and metastasis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1454-1463.	1.1	47
134	Discovery of 3-(trifluoromethyl)-1H-pyrazole-5-carboxamide activators of the M2 isoform of pyruvate kinase (PKM2). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 515-519.	1.0	43
135	Inhibition of tumour cell growth by carnosine: some possible mechanisms. <i>Amino Acids</i> , 2014, 46, 327-337.	1.2	43
136	The multifaceted regulation and functions of PKM2 in tumor progression. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014, 1846, 285-296.	3.3	85
137	Action at a Distance: Allostery and the Development of Drugs to Target Cancer Cell Metabolism. <i>Chemistry and Biology</i> , 2014, 21, 1143-1161.	6.2	39
138	Targeting Bacterial Central Metabolism for Drug Development. <i>Chemistry and Biology</i> , 2014, 21, 1423-1432.	6.2	153
139	PKM2 depletion induces the compensation of glutaminolysis through $\beta$ -catenin/c-Myc pathway in tumor cells. <i>Cellular Signalling</i> , 2014, 26, 2397-2405.	1.7	44
140	The metabolic cooperation between cells in solid cancer tumors. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2014, 1846, 216-225.	3.3	44
141	Heterogeneity of glycolysis in cancers and therapeutic opportunities. <i>Biochemical Pharmacology</i> , 2014, 92, 12-21.	2.0	44
142	Canonical and new generation anticancer drugs also target energy metabolism. <i>Archives of Toxicology</i> , 2014, 88, 1327-1350.	1.9	24
143	Metabolic Alterations During the Growth of Tumour Spheroids. <i>Cell Biochemistry and Biophysics</i> , 2014, 68, 615-628.	0.9	15
144	PKM2 as a biomarker for chemosensitivity to front-line platinum-based chemotherapy in patients with metastatic non-small-cell lung cancer. <i>British Journal of Cancer</i> , 2014, 111, 1757-1764.	2.9	53
145	The influence of cell growth and enzyme activity changes on intracellular metabolite dynamics in AGE1.HN.AAT cells. <i>Journal of Biotechnology</i> , 2014, 178, 43-53.	1.9	8
146	SAICAR Induces Protein Kinase Activity of PKM2 that Is Necessary for Sustained Proliferative Signaling of Cancer Cells. <i>Molecular Cell</i> , 2014, 53, 700-709.	4.5	131

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147	Tumor aerobic glycolysis: new insights into therapeutic strategies with targeted delivery. <i>Expert Opinion on Biological Therapy</i> , 2014, 14, 1145-1159.	1.4	43
148	Molecular Responses to Hypoxia-Inducible Factor 1 $\alpha$ and Beyond. <i>Molecular Pharmacology</i> , 2014, 85, 651-657.	1.0	101
149	Anticancer Effects of $\beta$ -Tocotrienol Are Associated with a Suppression in Aerobic Glycolysis. <i>Biological and Pharmaceutical Bulletin</i> , 2015, 38, 1352-1360.	0.6	19
150	Knockdown of PKM2 induces apoptosis and autophagy in human A549 alveolar adenocarcinoma cells. <i>Molecular Medicine Reports</i> , 2015, 12, 4358-4363.	1.1	35
151	TKTL1 and p63 are biomarkers for the poor prognosis of gastric cancer patients. <i>Cancer Biomarkers</i> , 2015, 15, 591-597.	0.8	26
152	GLUT3 and PKM2 regulate OCT4 expression and support the hypoxic culture of human embryonic stem cells. <i>Scientific Reports</i> , 2015, 5, 17500.	1.6	46
153	The Role of Pyruvate Kinase M2 in Cancer Metabolism. <i>Brain Pathology</i> , 2015, 25, 781-783.	2.1	34
154	The laforin/malin E3-ubiquitin ligase complex ubiquitinates pyruvate kinase M1/M2. <i>BMC Biochemistry</i> , 2015, 16, 24.	4.4	24
155	High Expression of Pyruvate Kinase M2 is Associated with Chemosensitivity to Epirubicin and 5-Fluorouracil in Breast Cancer. <i>Journal of Cancer</i> , 2015, 6, 1130-1139.	1.2	43
156	PKM2 promotes glucose metabolism and cell growth in gliomas through a mechanism involving a let-7a/c-Myc/hnRNPA1 feedback loop. <i>Oncotarget</i> , 2015, 6, 13006-13018.	0.8	110
157	The Role of Ovarian Sex Steroids in Metabolic Homeostasis, Obesity, and Postmenopausal Breast Cancer: Molecular Mechanisms and Therapeutic Implications. <i>BioMed Research International</i> , 2015, 1-13.	0.9	38
158	Free Radical Scavenging Activity: Antiproliferative and Proteomics Analyses of the Differential Expression of Apoptotic Proteins in MCF-7 Cells Treated with Acetone Leaf Extract of <i>Diospyros lycioides</i> (Ebenaceae). <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-13.	0.5	7
159	Aerobic Glycolysis as a Marker of Tumor Aggressiveness: Preliminary Data in High Grade Human Brain Tumors. <i>Disease Markers</i> , 2015, 2015, 1-11.	0.6	25
160	The transglutaminase type 2 and pyruvate kinase isoenzyme M2 interplay in autophagy regulation. <i>Oncotarget</i> , 2015, 6, 44941-44954.	0.8	24
161	Twist promotes reprogramming of glucose metabolism in breast cancer cells through PI3K/AKT and p53 signaling pathways. <i>Oncotarget</i> , 2015, 6, 25755-25769.	0.8	93
162	Point-of-care testing in the diagnosis of gastrointestinal cancers: Current technology and future directions. <i>World Journal of Gastroenterology</i> , 2015, 21, 4111.	1.4	21
163	Common Responses of Tumors and Wounds to Hypoxia. <i>Cancer Journal (Sudbury, Mass)</i> , 2015, 21, 75-87.	1.0	44
164	Pyruvate Kinase M2 Modulates Esophageal Squamous Cell Carcinoma Chemotherapy Response by Regulating the Pentose Phosphate Pathway. <i>Annals of Surgical Oncology</i> , 2015, 22, 1461-1468.	0.7	31

#	ARTICLE	IF	CITATIONS
165	Blastocyst metabolism. <i>Reproduction, Fertility and Development</i> , 2015, 27, 638.	0.1	116
166	Tumor Cell Complexity and Metabolic Flexibility in Tumorigenesis and Metastasis. , 2015, , 23-43.		3
167	New pyridin-3-ylmethyl carbamodithioic esters activate pyruvate kinase M2 and potential anticancer lead compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4815-4823.	1.4	42
168	Organ-specific PTB1-associated microRNAs determine expression of pyruvate kinase isoforms. <i>Scientific Reports</i> , 2015, 5, 8647.	1.6	47
169	Cosilencing of <i>PKM-2</i> and <i>MDR-1</i> Sensitizes Multidrug-Resistant Ovarian Cancer Cells to Paclitaxel in a Murine Model of Ovarian Cancer. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1521-1531.	1.9	39
170	<i>scp</i> -cysteine reversibly inhibits glucose-induced biphasic insulin secretion and ATP production by inactivating PKM2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1067-76.	3.3	57
171	Retinoblastoma protein promotes oxidative phosphorylation through upregulation of glycolytic genes in oncogene-induced senescent cells. <i>Aging Cell</i> , 2015, 14, 689-697.	3.0	53
172	Alteration of O-GlcNAcylation affects serine phosphorylation and regulates gene expression and activity of pyruvate kinase M2 in colorectal cancer cells. <i>Oncology Reports</i> , 2015, 34, 1933-1942.	1.2	29
173	Metabolic modulation of cancer: a new frontier with great translational potential. <i>Journal of Molecular Medicine</i> , 2015, 93, 127-142.	1.7	27
174	Effects of deranged metabolism on epigenetic changes in cancer. <i>Archives of Pharmacal Research</i> , 2015, 38, 321-337.	2.7	10
175	Pyruvate kinase isoenzyme M2 expression correlates with survival of cardiomyocytes after allogeneic rat heterotopic heart transplantation. <i>Pathology Research and Practice</i> , 2015, 211, 12-19.	1.0	11
176	Pyruvate kinase M2 affects liver cancer cell behavior through up-regulation of HIF-1 $\alpha$ and Bcl-xL in culture. <i>Biomedicine and Pharmacotherapy</i> , 2015, 69, 277-284.	2.5	40
178	Differential abundance of sarcoplasmic proteome explains animal effect on beef Longissimus lumborum color stability. <i>Meat Science</i> , 2015, 102, 90-98.	2.7	97
179	NADH-Linked Metabolic Plasticity of MCF-7 Breast Cancer Cells Surviving in a Nutrient-Deprived Microenvironment. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 822-835.	1.2	15
180	Relationship between 18-F-fluoro-deoxy-d-glucose uptake and expression of glucose transporter 1 and pyruvate kinase M2 in intrahepatic cholangiocarcinoma. <i>Digestive and Liver Disease</i> , 2015, 47, 590-596.	0.4	18
181	Dissimilar properties of pyruvate kinase from rabbit and hare muscle. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2015, 51, 117-121.	0.2	2
182	Pyruvate kinase isoenzyme M2 is a therapeutic target of gemcitabine-resistant pancreatic cancer cells. <i>Experimental Cell Research</i> , 2015, 336, 119-129.	1.2	45
183	Differentially expressed proteins among normal cervix, cervical intraepithelial neoplasia and cervical squamous cell carcinoma. <i>Clinical and Translational Oncology</i> , 2015, 17, 620-631.	1.2	25

#	ARTICLE	IF	CITATIONS
184	Proteomic analysis of meat exudates to discriminate fresh and freeze-thawed porcine longissimus thoracis muscle. <i>LWT - Food Science and Technology</i> , 2015, 62, 1235-1238.	2.5	13
185	PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2. <i>Science Translational Medicine</i> , 2015, 7, 310ra169.	5.8	54
186	Reversal of Warburg Effect and Reactivation of Oxidative Phosphorylation by Differential Inhibition of EGFR Signaling Pathways in Nonâ€Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2015, 21, 5110-5120.	3.2	113
187	Relationship between pathological findings and enzymes of the energy metabolism in liver of rats infected by <i>Trypanosoma evansi</i> . <i>Parasitology International</i> , 2015, 64, 547-552.	0.6	8
188	Metabolic control of the cell cycle. <i>Cell Cycle</i> , 2015, 14, 3379-3388.	1.3	92
189	Dysregulated metabolism contributes to oncogenesis. <i>Seminars in Cancer Biology</i> , 2015, 35, S129-S150.	4.3	225
190	Expression and immunological characteristics of the surface-localized pyruvate kinase in <i>Mycoplasma gallisepticum</i> . <i>Microbial Pathogenesis</i> , 2015, 89, 161-168.	1.3	5
191	Homeostasis and the glycogen shunt explains aerobic ethanol production in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10902-10907.	3.3	21
192	Pyruvate kinase: Function, regulation and role in cancer. <i>Seminars in Cell and Developmental Biology</i> , 2015, 43, 43-51.	2.3	388
193	Noninvasive assessment of mitochondrial organization in three-dimensional tissues reveals changes associated with cancer development. <i>International Journal of Cancer</i> , 2015, 136, 322-332.	2.3	36
194	Pyruvate Kinase Isoform Expression Alters Nucleotide Synthesis to Impact Cell Proliferation. <i>Molecular Cell</i> , 2015, 57, 95-107.	4.5	209
195	Warburg meets non-coding RNAs: the emerging role of ncRNA in regulating the glucose metabolism of cancer cells. <i>Tumor Biology</i> , 2015, 36, 81-94.	0.8	26
196	An Update on Novel Quantitative Techniques in the Context of Evolving Whole-Body PET Imaging. <i>PET Clinics</i> , 2015, 10, 45-58.	1.5	58
197	Adaptations of energy metabolism during cerebellar neurogenesis are co-opted in medulloblastoma. <i>Cancer Letters</i> , 2015, 356, 268-272.	3.2	24
198	Pyruvate Kinase M2 Regulates Apoptosis of Intestinal Epithelial Cells in Crohnâ€™s Disease. <i>Digestive Diseases and Sciences</i> , 2015, 60, 393-404.	1.1	31
199	Epigenetics and cancer metabolism. <i>Cancer Letters</i> , 2015, 356, 309-314.	3.2	90
200	Cancerâ€like metabolism of the mammalian retina. <i>Clinical and Experimental Ophthalmology</i> , 2015, 43, 367-376.	1.3	75
201	Metabolic reprogramming in transformed mouse cortical astrocytes: A proteomic study. <i>Journal of Proteomics</i> , 2015, 113, 292-314.	1.2	11

#	ARTICLE	IF	CITATIONS
202	PKM2 contributes to cancer metabolism. <i>Cancer Letters</i> , 2015, 356, 184-191.	3.2	275
203	Identifying hepatocellular carcinoma-related genes and pathways by system biology analysis. <i>Irish Journal of Medical Science</i> , 2015, 184, 357-364.	0.8	9
204	How do glycolytic enzymes favour cancer cell proliferation by nonmetabolic functions?. <i>Oncogene</i> , 2015, 34, 3751-3759.	2.6	161
205	Astrocyte-neuron crosstalk regulates the expression and subcellular localization of carbohydrate metabolism enzymes. <i>Glia</i> , 2015, 63, 328-340.	2.5	59
206	Colorectal cancer detection in an asymptomatic population: fecal immunochemical test for hemoglobin vs. fecal M2-type pyruvate kinase. <i>Biochemia Medica</i> , 2016, 26, 114-120.	1.2	11
207	Cellular metabolic energy modulation by tangeretin in 7,12-dimethylbenz(a) anthracene-induced breast cancer. <i>Journal of Biomedical Research</i> , 2016, 30, 134.	0.7	9
208	M-Type Pyruvate Kinase Isoforms and Lactate Dehydrogenase A in the Mammalian Retina: Metabolic Implications. , 2016, 57, 66.		46
209	PKLR promotes colorectal cancer liver colonization through induction of glutathione synthesis. <i>Journal of Clinical Investigation</i> , 2016, 126, 681-694.	3.9	60
210	Knockdown of the M2 Isoform of Pyruvate Kinase (PKM2) with shRNA Enhances the Effect of Docetaxel in Human NSCLC Cell Lines<i>In Vitro</i>. <i>Yonsei Medical Journal</i> , 2016, 57, 1312.	0.9	20
211	Metabolomic Characterizations of Liver Injury Caused by Acute Arsenic Toxicity in Zebrafish. <i>PLoS ONE</i> , 2016, 11, e0151225.	1.1	46
212	Pyruvate Kinase M2 and Lactate Dehydrogenase A Are Overexpressed in Pancreatic Cancer and Correlate with Poor Outcome. <i>PLoS ONE</i> , 2016, 11, e0151635.	1.1	71
213	Insights into the Regulatory Role of Non-coding RNAs in Cancer Metabolism. <i>Frontiers in Physiology</i> , 2016, 7, 342.	1.3	38
214	MiR-let-7a inhibits cell proliferation, migration, and invasion by down-regulating PKM2 in gastric cancer. <i>Oncotarget</i> , 2016, 7, 5972-5984.	0.8	96
215	Metabolic, autophagic, and mitophagic activities in cancer initiation and progression. <i>Biomedical Journal</i> , 2016, 39, 98-106.	1.4	23
216	Inhibition of Proliferation, Migration, and Invasion by Knockdown of Pyruvate Kinase-M2 (PKM2) in Ovarian Cancer SKOV3 and OVCAR3 Cells. <i>Oncology Research</i> , 2016, 24, 463-475.	0.6	26
217	Nuclear PKM2 expression, an independent risk factor for ER after curative resection of hepatocellular carcinoma. <i>Biomedicine and Pharmacotherapy</i> , 2016, 84, 1858-1864.	2.5	8
218	MiR-133b inhibits growth of human gastric cancer cells by silencing pyruvate kinase muscle-specific splicing polypyrimidine tract-binding protein 1. <i>Cancer Science</i> , 2016, 107, 1767-1775.	1.7	71
219	Energy metabolism of T-lymphocytes and its biological significance. <i>Science Bulletin</i> , 2016, 61, 1270-1280.	4.3	2

#	ARTICLE	IF	CITATIONS
220	A fuzzy logic controller based approach to model the switching mechanism of the mammalian central carbon metabolic pathway in normal and cancer cells. <i>Molecular BioSystems</i> , 2016, 12, 2490-2505.	2.9	4
221	Evidence That Does Not Support Pyruvate Kinase M2 (PKM2)-catalyzed Reaction as a Rate-limiting Step in Cancer Cell Glycolysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 8987-8999.	1.6	27
222	SIRT2-Mediated Deacetylation and Tetramerization of Pyruvate Kinase Directs Glycolysis and Tumor Growth. <i>Cancer Research</i> , 2016, 76, 3802-3812.	0.4	92
223	RhoC GTPase Is a Potent Regulator of Glutamine Metabolism and N-Acetylaspartate Production in Inflammatory Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 13715-13729.	1.6	29
224	Germline loss of PKM2 promotes metabolic distress and hepatocellular carcinoma. <i>Genes and Development</i> , 2016, 30, 1020-1033.	2.7	122
225	Lactate Dehydrogenase B Controls Lysosome Activity and Autophagy in Cancer. <i>Cancer Cell</i> , 2016, 30, 418-431.	7.7	160
226	Molecular mechanism of 18 F-FDG uptake reduction induced by genipin in T47D cancer cell and role of uncoupling protein-2 in cancer cell glucose metabolism. <i>Nuclear Medicine and Biology</i> , 2016, 43, 587-592.	0.3	15
227	Clinical significance of T cell metabolic reprogramming in cancer. <i>Clinical and Translational Medicine</i> , 2016, 5, 29.	1.7	69
228	<sc>PKM</sc> 2, cancer metabolism, and the road ahead. <i>EMBO Reports</i> , 2016, 17, 1721-1730.	2.0	384
229	Bioenergetic Impairment in Animal and Cellular Models of Alzheimer's Disease: PARP-1 Inhibition Rescues Metabolic Dysfunctions. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 307-324.	1.2	62
230	Alterations in glucose metabolism proteins responsible for the Warburg effect in esophageal squamous cell carcinoma. <i>Experimental and Molecular Pathology</i> , 2016, 101, 66-73.	0.9	15
231	Tanshinone $\alpha$ inhibits human esophageal cancer cell growth through miR-122-mediated PKM2 down-regulation. <i>Archives of Biochemistry and Biophysics</i> , 2016, 598, 50-56.	1.4	58
232	SIRT6 deacetylates PKM2 to suppress its nuclear localization and oncogenic functions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E538-47.	3.3	122
233	EGFR Signaling Enhances Aerobic Glycolysis in Triple-Negative Breast Cancer Cells to Promote Tumor Growth and Immune Escape. <i>Cancer Research</i> , 2016, 76, 1284-1296.	0.4	190
234	Targeted Proteomics to Assess the Response to Anti-Angiogenic Treatment in Human Glioblastoma (GBM). <i>Molecular and Cellular Proteomics</i> , 2016, 15, 481-492.	2.5	41
235	Lactate promotes glutamine uptake and metabolism in oxidative cancer cells. <i>Cell Cycle</i> , 2016, 15, 72-83.	1.3	157
236	Metabolic changes associated with tumor metastasis, part 1: tumor pH, glycolysis and the pentose phosphate pathway. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1333-1348.	2.4	191
237	Proteomic identification of predictive tissue biomarkers of sensitive to neoadjuvant chemotherapy in squamous cervical cancer. <i>Life Sciences</i> , 2016, 151, 102-108.	2.0	6

#	ARTICLE	IF	CITATIONS
238	Metabolic reprogramming: a hallmark of viral oncogenesis. <i>Oncogene</i> , 2016, 35, 4155-4164.	2.6	44
239	M2 isoform of pyruvate kinase (PKM2) is upregulated in Kazakhstani ESCC and promotes proliferation and migration of ESCC cells. <i>Tumor Biology</i> , 2016, 37, 2665-2672.	0.8	17
240	MicroRNAs in obesity-associated disorders. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 108-119.	1.4	53
241	Metabolic reprogramming in glioblastoma: the influence of cancer metabolism on epigenetics and unanswered questions. <i>Neuro-Oncology</i> , 2016, 18, 160-172.	0.6	214
242	<i>In vitro</i> effects of some flavonoids and phenolic acids on human pyruvate kinase isoenzyme M2. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 314-317.	2.5	30
243	Metabolic rewiring in melanoma. <i>Oncogene</i> , 2017, 36, 147-157.	2.6	129
244	Power of screening tests for colorectal cancer enhanced by high levels of M2-PK in addition to FOBT. <i>Internal and Emergency Medicine</i> , 2017, 12, 333-339.	1.0	8
245	Pyruvate kinase M2 and the mitochondrial ATPase Inhibitory Factor 1 provide novel biomarkers of dermatomyositis: a metabolic link to oncogenesis. <i>Journal of Translational Medicine</i> , 2017, 15, 29.	1.8	16
246	Advances in Hypoxia-Mediated Mechanisms in Hepatocellular Carcinoma. <i>Molecular Pharmacology</i> , 2017, 92, 246-255.	1.0	87
247	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
248	Homocysteine Activates B Cells via Regulating PKM2-Dependent Metabolic Reprogramming. <i>Journal of Immunology</i> , 2017, 198, 170-183.	0.4	55
249	Glucose Catabolism in Liver Tumors Induced by c-MYC Can Be Sustained by Various PKM1/PKM2 Ratios and Pyruvate Kinase Activities. <i>Cancer Research</i> , 2017, 77, 4355-4364.	0.4	74
250	The metabolic function of cyclin D3-CDK6 kinase in cancer cell survival. <i>Nature</i> , 2017, 546, 426-430.	18.7	276
252	MicroRNA regulation and analytical methods in cancer cell metabolism. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2929-2941.	2.4	32
253	Inhibition of Pyruvate Kinase M2 Markedly Reduces Chemoresistance of Advanced Bladder Cancer to Cisplatin. <i>Scientific Reports</i> , 2017, 7, 45983.	1.6	69
254	Bisphenol S exposure modulate macrophage phenotype as defined by cytokines profiling, global metabolomics and lipidomics analysis. <i>Science of the Total Environment</i> , 2017, 592, 357-365.	3.9	69
255	Metabolic Reprogramming in Brain Tumors. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2017, 12, 515-545.	9.6	82
256	Functional polymer-based siRNA delivery carrier that recognizes site-specific biosignals. <i>Journal of Controlled Release</i> , 2017, 267, 90-99.	4.8	13

#	ARTICLE	IF	CITATIONS
257	Micro RNA miR-661 modulates redox and metabolic homeostasis in colon cancer. <i>Molecular Oncology</i> , 2017, 11, 1768-1787.	2.1	17
258	LincRNA linc-RNA21 suppresses development of human prostate cancer through inhibition of PKM2. <i>Cell Proliferation</i> , 2017, 50, .	2.4	41
259	Targeting metabolic pathways for head and neck cancers therapeutics. <i>Cancer and Metastasis Reviews</i> , 2017, 36, 503-514.	2.7	36
260	Vasculogenesis and angiogenesis initiation under normoxic conditions through Wnt/ $\beta$ 2-catenin pathway in gliomas. <i>Reviews in the Neurosciences</i> , 2017, 29, 71-91.	1.4	102
261	Pyruvate kinase M1 interacts with A-Raf and inhibits endoplasmic reticulum stress-induced apoptosis by activating MEK1/ERK pathway in mouse insulinoma cells. <i>Cellular Signalling</i> , 2017, 38, 212-222.	1.7	11
262	Deciphering metabolic rewiring in breast cancer subtypes. <i>Translational Research</i> , 2017, 189, 105-122.	2.2	45
263	Effects of PKM2 Gene Silencing on the Proliferation and Apoptosis of Colorectal Cancer LS-147T and SW620 Cells. <i>Cellular Physiology and Biochemistry</i> , 2017, 42, 1769-1778.	1.1	17
264	Pyruvate kinase M knockdown-induced signaling via AMP-activated protein kinase promotes mitochondrial biogenesis, autophagy, and cancer cell survival. <i>Journal of Biological Chemistry</i> , 2017, 292, 15561-15576.	1.6	51
265	An update on diagnostic and prognostic biomarkers in inflammatory bowel disease. <i>Expert Review of Molecular Diagnostics</i> , 2017, 17, 835-843.	1.5	8
266	The Glycogen Shunt Maintains Glycolytic Homeostasis and the Warburg Effect in Cancer. <i>Trends in Cancer</i> , 2017, 3, 761-767.	3.8	34
267	Prognostic significance of metabolic enzyme pyruvate kinase M2 in breast cancer. <i>Medicine (United States)</i> , 2017, 96, 1414-1420.	0.4	14
268	PKM2 promotes cell migration and inhibits autophagy by mediating PI3K/AKT activation and contributes to the malignant development of gastric cancer. <i>Scientific Reports</i> , 2017, 7, 2886.	1.6	76
269	Competitive inhibition of amino acid transport in human preovulatory ovarian follicles. <i>Systems Biology in Reproductive Medicine</i> , 2017, 63, 311-317.	1.0	8
270	An alternative mode of CD43 signal transduction activates pro-survival pathways of T lymphocytes. <i>Immunology</i> , 2017, 150, 87-99.	2.0	13
271	HSP90 promotes cell glycolysis, proliferation and inhibits apoptosis by regulating PKM2 abundance via Thr-328 phosphorylation in hepatocellular carcinoma. <i>Molecular Cancer</i> , 2017, 16, 178.	7.9	161
272	Berberine Inhibited the Proliferation of Cancer Cells by Suppressing the Activity of Tumor Pyruvate Kinase M2. <i>Natural Product Communications</i> , 2017, 12, 1934578X1701200.	0.2	4
274	Exploring targeted therapy of osteosarcoma using proteomics data. <i>OncoTargets and Therapy</i> , 2017, Volume 10, 565-577.	1.0	22
275	Pkm2 can enhance pluripotency in ESCs and promote somatic cell reprogramming to iPSCs. <i>Oncotarget</i> , 2017, 8, 84276-84284.	0.8	13



#	ARTICLE	IF	CITATIONS
276	Early quantitative profiling of differential retinal protein expression in lens-induced myopia in guinea pig using fluorescence difference two-dimensional gel electrophoresis. <i>Molecular Medicine Reports</i> , 2018, 17, 5571-5580.	1.1	9
277	Native Mass Spectrometry Gives Insight into the Allosteric Binding Mechanism of M2 Pyruvate Kinase to Fructose-1,6-Bisphosphate. <i>Biochemistry</i> , 2018, 57, 1685-1689.	1.2	17
278	Increased transcript levels and kinetic function of pyruvate kinase during severe dehydration in aestivating African clawed frogs, <i>Xenopus laevis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 245-252.	0.7	8
279	PKM2 knockdown influences SREBP activation and lipid synthesis in bovine mammary-gland epithelial MAC-T cells. <i>Biotechnology Letters</i> , 2018, 40, 641-648.	1.1	5
280	p81. , 2018, , 3766-3766.		0
281	PAR-2. , 2018, , 3785-3785.		0
282	PCS Phosphatase. , 2018, , 3803-3803.		0
283	PIPBP. , 2018, , 4023-4023.		0
284	POSTN. , 2018, , 4111-4111.		0
285	Protein I. , 2018, , 4216-4216.		0
286	PU.1. , 2018, , 4323-4323.		0
287	PVALB (Parvalbumin). , 2018, , 4323-4323.		0
288	PTPe (RPTPe and Cyt-PTPe). , 2018, , 4287-4294.		0
289	Lapatinib Inhibits Breast Cancer Cell Proliferation by Influencing PKM2 Expression. <i>Technology in Cancer Research and Treatment</i> , 2018, 17, 153303461774941.	0.8	23
290	Phosphoglyceric acid mutase-1 contributes to oncogenic mTOR-mediated tumor growth and confers non-small cell lung cancer patients with poor prognosis. <i>Cell Death and Differentiation</i> , 2018, 25, 1160-1173.	5.0	51
291	Using Pyruvate Kinase as a Predictor for Patient With Endometrial Cancer Having Complex Hyperplasia With Atypia to Prevent Hysterectomy and Preserve Fertility: Retrospective Immunohistochemical Study. <i>Reproductive Sciences</i> , 2018, 25, 1286-1291.	1.1	4
292	Elevation of serum pyruvate kinase M2 (PKM2) in IBD and its relationship to IBD indices. <i>Clinical Biochemistry</i> , 2018, 53, 19-24.	0.8	27
293	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

#	ARTICLE	IF	CITATIONS
294	Pyruvate kinase M2 fuels multiple aspects of cancer cells: from cellular metabolism, transcriptional regulation to extracellular signaling. <i>Molecular Cancer</i> , 2018, 17, 35.	7.9	127
295	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
296	The Warburg Effect in Diabetic Kidney Disease. <i>Seminars in Nephrology</i> , 2018, 38, 111-120.	0.6	75
297	Site-specific characterization and quantitation of N-glycopeptides in PKM2 knockout breast cancer cells using DiLeu isobaric tags enabled by electron-transfer/higher-energy collision dissociation (EThcD). <i>Analyst</i> , 2018, 143, 2508-2519.	1.7	54
298	Knockdown of UCA1 inhibits viability and glycolysis by suppressing PKM2 expression through the mTOR pathway in non-small cell lung cancer cells. <i>RSC Advances</i> , 2018, 8, 10610-10619.	1.7	5
299	Comparative proteomic analysis: SclR is importantly involved in carbohydrate metabolism in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 319-332.	1.7	8
300	Pyruvate Kinase. , 2018, , .		2
301	Splicing alterations contributing to cancer hallmarks in the liver: central role of dedifferentiation and genome instability. <i>Translational Gastroenterology and Hepatology</i> , 2018, 3, 84-84.	1.5	14
302	PKM2 promotes reductive glutamine metabolism. <i>Cancer Biology and Medicine</i> , 2018, 15, 389.	1.4	21
303	Tumor pyruvate kinase M2: A promising molecular target of gastrointestinal cancer. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research</i> , 2018, 30, 669-676.	0.7	8
304	Pyruvate kinase type M2 contributes to the development of pancreatic ductal adenocarcinoma by regulating the production of metabolites and reactive oxygen species. <i>International Journal of Oncology</i> , 2018, 52, 881-891.	1.4	15
305	The Influence of Metabolism on Drug Response in Cancer. <i>Frontiers in Oncology</i> , 2018, 8, 500.	1.3	182
306	Centromere protein F (CENPF), a microtubule binding protein, modulates cancer metabolism by regulating pyruvate kinase M2 phosphorylation signaling. <i>Cell Cycle</i> , 2018, 17, 2802-2818.	1.3	51
307	SRSF3, a Splicer of the PKM Gene, Regulates Cell Growth and Maintenance of Cancer-Specific Energy Metabolism in Colon Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3012.	1.8	72
308	Redox regulation of pyruvate kinase M2 by cysteine oxidation and S-nitrosation. <i>Biochemical Journal</i> , 2018, 475, 3275-3291.	1.7	24
309	Manipulation of Mitochondrial Function by Polyphenols for New Treatment Strategies. , 2018, , 277-292.		1
310	The Krebs Cycle Connection: Reciprocal Influence Between Alternative Splicing Programs and Cell Metabolism. <i>Frontiers in Oncology</i> , 2018, 8, 408.	1.3	14
311	Nuclear PKM2 promotes the progression of oral squamous cell carcinoma by inducing EMT and post-translationally repressing TGIF2. <i>Oncotarget</i> , 2018, 9, 33745-33761.	0.8	28

#	ARTICLE	IF	CITATIONS
312	PKM2 and HIF-1 $\alpha$ regulation in prostate cancer cell lines. PLoS ONE, 2018, 13, e0203745.	1.1	34
313	Proteomic analysis of rat serum revealed the effects of chronic sleep deprivation on metabolic, cardiovascular and nervous system. PLoS ONE, 2018, 13, e0199237.	1.1	31
314	PKM2, a potential target for regulating cancer. Gene, 2018, 668, 48-53.	1.0	72
315	HPV $\alpha$ “ Das andere Kopf-Hals-Karzinom. Laryngo- Rhino- Otologie, 2018, 97, S48-S113.	0.2	35
316	Dietary Supplementation of Leucine in Premating Diet Improves the Within-Litter Birth Weight Uniformity, Antioxidative Capability, and Immune Function of Primiparous SD Rats. BioMed Research International, 2018, 2018, 1-11.	0.9	8
317	Identification of a new pyruvate kinase M2 isoform (PKM2) activator for the treatment of non-small-cell lung cancer (NSCLC). Chemical Biology and Drug Design, 2018, 92, 1851-1858.	1.5	17
318	Human Embryo Development and Assessment of Viability. , 2018, , 176-185.		2
319	Regulation of Cellular Metabolism by High-Risk Human Papillomaviruses. International Journal of Molecular Sciences, 2018, 19, 1839.	1.8	49
320	Posttranslational Modifications of Pyruvate Kinase M2: Tweaks that Benefit Cancer. Frontiers in Oncology, 2018, 8, 22.	1.3	99
321	Isoform-specific deletion of PKM2 constrains tumor initiation in a mouse model of soft tissue sarcoma. Cancer & Metabolism, 2018, 6, 6.	2.4	24
322	Evaluation of tumor M2-pyruvate kinase (Tumor M2-PK) as a biomarker for pancreatic cancer. World Journal of Surgical Oncology, 2018, 16, 56.	0.8	19
323	PKM2-dependent metabolic reprogramming in CD4+ T cells is crucial for hyperhomocysteinemia-accelerated atherosclerosis. Journal of Molecular Medicine, 2018, 96, 585-600.	1.7	56
324	Computer-aided identification of a novel pyruvate kinase M2 activator compound. Cell Proliferation, 2018, 51, e12509.	2.4	12
325	Targeting energy metabolism to eliminate cancer cells. Cancer Management and Research, 2018, Volume 10, 2325-2335.	0.9	23
326	Fructose 2,6-Bisphosphate in Cancer Cell Metabolism. Frontiers in Oncology, 2018, 8, 331.	1.3	83
327	Lapachol inhibits glycolysis in cancer cells by targeting pyruvate kinase M2. PLoS ONE, 2018, 13, e0191419.	1.1	55
328	&lt;p&gt;ARHGAP4 mediates the Warburg effect in pancreatic cancer through the mTOR and HIF-1 $\alpha$ signaling pathways&lt;p&gt;. OncoTargets and Therapy, 2019, Volume 12, 5003-5012.	1.0	28
329	PKM2, function and expression and regulation. Cell and Bioscience, 2019, 9, 52.	2.1	217

#	ARTICLE	IF	CITATIONS
330	PKM2 regulates endothelial cell junction dynamics and angiogenesis via ATP production. <i>Scientific Reports</i> , 2019, 9, 15022.	1.6	34
331	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
332	The Metabolic Landscape of Lung Cancer: New Insights in a Disturbed Glucose Metabolism. <i>Frontiers in Oncology</i> , 2019, 9, 1215.	1.3	97
333	Modern Perspective on Metabolic Reprogramming in Malignant Neoplasms. <i>Biochemistry (Moscow)</i> , 2019, 84, 1129-1142.	0.7	14
334	Vacuolar H <sup>+</sup> -ATPase Subunit VOC Regulates Aerobic Glycolysis of Esophageal Cancer Cells via PKM2 Signaling. <i>Cells</i> , 2019, 8, 1137.	1.8	12
335	Glucose Metabolism Imaging. , 2019, , 1-10.		0
336	Pyruvate Kinase M2: a Metabolic Bug in Re-Wiring the Tumor Microenvironment. <i>Cancer Microenvironment</i> , 2019, 12, 149-167.	3.1	21
337	Phenotypic selection with an intrabody library reveals an anti-apoptotic function of PKM2 requiring Mitofusin-1. <i>PLoS Biology</i> , 2019, 17, e2004413.	2.6	14
338	Synthesis of novel 7-azaindole derivatives containing pyridin-3-ylmethyl dithiocarbamate moiety as potent PKM2 activators and PKM2 nucleus translocation inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 170, 1-15.	2.6	24
339	Docking analysis provide structural insights to design novel ligands that target PKM2 and HDC8 with potential use for cancer therapy. <i>Molecular Simulation</i> , 2019, 45, 685-693.	0.9	2
340	Glycolytic Enzyme PKM2 Mediates Autophagic Activation to Promote Cell Survival in NPM1-Mutated Leukemia. <i>International Journal of Biological Sciences</i> , 2019, 15, 882-894.	2.6	28
341	PKM2 Involved in Neuronal Apoptosis on Hypoxic-ischemic Encephalopathy in Neonatal Rats. <i>Neurochemical Research</i> , 2019, 44, 1602-1612.	1.6	19
342	Comparative analysis of proteomic and metabolomic profiles of different species of Paris. <i>Journal of Proteomics</i> , 2019, 200, 11-27.	1.2	16
343	Sirtuin-mediated deacetylation of hnRNP A1 suppresses glycolysis and growth in hepatocellular carcinoma. <i>Oncogene</i> , 2019, 38, 4915-4931.	2.6	50
344	Insights into Body Size Evolution: A Comparative Transcriptome Study on Three Species of Asian Sisoridae Catfish. <i>International Journal of Molecular Sciences</i> , 2019, 20, 944.	1.8	4
345	Oxidized ATM-mediated glycolysis enhancement in breast cancer-associated fibroblasts contributes to tumor invasion through lactate as metabolic coupling. <i>EBioMedicine</i> , 2019, 41, 370-383.	2.7	74
346	Follicle-stimulating hormone promoted pyruvate kinase isozyme type M2-induced glycolysis and proliferation of ovarian cancer cells. <i>Archives of Gynecology and Obstetrics</i> , 2019, 299, 1443-1451.	0.8	11
347	Pyruvate kinase M2: A multifarious enzyme in non-canonical localization to promote cancer progression. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2019, 1871, 331-341.	3.3	56

#	ARTICLE	IF	CITATIONS
348	Metabolic rearrangements in primary liver cancers: cause and consequences. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2019, 16, 748-766.	8.2	144
349	Downregulation of PKM2 decreases FASN expression in bladder cancer cells through AKT/mTOR/SREBP1c axis. <i>Journal of Cellular Physiology</i> , 2019, 234, 3088-3104.	2.0	55
350	Pyruvate Kinase Muscle1 Expression Appears to Drive Lactogenic Behavior in CHO Cell Lines, Triggering Lower Viability and Productivity: A Case Study. <i>Biotechnology Journal</i> , 2019, 14, 1800332.	1.8	7
351	Metabolic perturbation, proliferation and reactive oxygen species jointly contribute to cytotoxicity of human breast cancer cell induced by tetrabromo and tetrachloro bisphenol A. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 495-501.	2.9	21
352	Gastric Carcinogenesis. , 2019, , 51-62.		0
354	Genetic variation of kinases and activation of nucleotide analog reverse transcriptase inhibitor tenofovir. <i>Pharmacogenomics</i> , 2019, 20, 105-111.	0.6	7
355	Aerobic glycolysis fuels platelet activation: small-molecule modulators of platelet metabolism as anti-thrombotic agents. <i>Haematologica</i> , 2019, 104, 806-818.	1.7	44
356	Therapeutic targeting of glutaminolysis as an essential strategy to combat cancer. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 34-43.	2.3	84
357	Cancer-associated mutations in human pyruvate kinase M2 impair enzyme activity. <i>FEBS Letters</i> , 2020, 594, 646-664.	1.3	15
358	PKM2 upregulation promotes malignancy and indicates poor prognosis for intrahepatic cholangiocarcinoma. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2020, 44, 162-173.	0.7	16
359	L-lactic acidosis: pathophysiology, classification, and causes; emphasis on biochemical and metabolic basis. <i>Kidney International</i> , 2020, 97, 75-88.	2.6	46
360	2-Deoxy-d-Glucose and Its Analogs: From Diagnostic to Therapeutic Agents. <i>International Journal of Molecular Sciences</i> , 2020, 21, 234.	1.8	257
361	PKM2-dependent glycolysis promotes the proliferation and migration of vascular smooth muscle cells during atherosclerosis. <i>Acta Biochimica Et Biophysica Sinica</i> , 2019, 52, 9-17.	0.9	26
362	Cutting off the fuel supply to calcium pumps in pancreatic cancer cells: role of pyruvate kinase-M2 (PKM2). <i>British Journal of Cancer</i> , 2020, 122, 266-278.	2.9	36
363	Significant association of PKM2 and NQO1 proteins with poor prognosis in breast cancer. <i>Pathology Research and Practice</i> , 2020, 216, 153173.	1.0	10
364	Epigenetic Regulation and Dietary Control of Triple Negative Breast Cancer. <i>Frontiers in Nutrition</i> , 2020, 7, 159.	1.6	7
365	Animal Models: A Useful Tool to Unveil Metabolic Changes in Hepatocellular Carcinoma. <i>Cancers</i> , 2020, 12, 3318.	1.7	3
366	Reactive Metamizole Metabolites Enhance the Toxicity of Hemin on the ATP Pool in HL60 Cells by Inhibition of Glycolysis. <i>Biomedicines</i> , 2020, 8, 212.	1.4	3

#	ARTICLE	IF	CITATIONS
367	Pyruvate Kinase M2 Promotes Prostate Cancer Metastasis Through Regulating ERK1/2-COX-2 Signaling. <i>Frontiers in Oncology</i> , 2020, 10, 544288.	1.3	32
368	&lt;p&gt;Cryptanshinone Inhibits the Glycolysis and Inhibits Cell Migration Through PKM2/β <sup>2</sup> -Catenin Axis in Breast Cancer&lt;p&gt;. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 8629-8639.	1.0	16
369	Antitumor Effect of Shikonin, a PKM2 Inhibitor, in Cholangiocarcinoma Cell Lines. <i>Anticancer Research</i> , 2020, 40, 5115-5124.	0.5	23
370	Pyruvate Kinase M2 Tetramerization Protects against Hepatic Stellate Cell Activation and Liver Fibrosis. <i>American Journal of Pathology</i> , 2020, 190, 2267-2281.	1.9	32
371	The contribution of uncoupling protein 2 to mitochondrial Ca <sup>2+</sup> homeostasis in health and disease â€“ A short revisit. <i>Mitochondrion</i> , 2020, 55, 164-173.	1.6	15
372	Lin28A promotes IRF6-regulated aerobic glycolysis in glioma cells by stabilizing SNHG14. <i>Cell Death and Disease</i> , 2020, 11, 447.	2.7	40
373	Pyruvate Kinase M2 and Cancer: The Role of PKM2 in Promoting Tumorigenesis. <i>Frontiers in Oncology</i> , 2020, 10, 159.	1.3	260
374	Emerging roles and the regulation of aerobic glycolysis in hepatocellular carcinoma. <i>Journal of Experimental and Clinical Cancer Research</i> , 2020, 39, 126.	3.5	290
375	Modulation of dysregulated cancer metabolism by plant secondary metabolites: A mechanistic review. <i>Seminars in Cancer Biology</i> , 2022, 80, 276-305.	4.3	53
376	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. <i>Circulation</i> , 2020, 141, 1249-1265.	1.6	147
377	Nur77-activated lncRNA WFDC21P attenuates hepatocarcinogenesis via modulating glycolysis. <i>Oncogene</i> , 2020, 39, 2408-2423.	2.6	49
378	Pyruvate Kinase M2 Promotes Expression of Proinflammatory Mediators in House Dust Miteâ€“Induced Allergic Airways Disease. <i>Journal of Immunology</i> , 2020, 204, 763-774.	0.4	29
379	Links between cancer metabolism and cisplatin resistance. <i>International Review of Cell and Molecular Biology</i> , 2020, 354, 107-164.	1.6	48
380	<i>PTBP1</i>â€“targeting microRNAs regulate cancerâ€“specific energy metabolism through the modulation of <i>PKM1/M2</i> splicing. <i>Cancer Science</i> , 2021, 112, 41-50.	1.7	32
381	The metabolic enzyme pyruvate kinase M2 regulates platelet function and arterial thrombosis. <i>Blood</i> , 2021, 137, 1658-1668.	0.6	25
382	Exosomal Long Non-coding RNAs: Emerging Players in the Tumor Microenvironment. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 23, 1371-1383.	2.3	40
383	Regulation of trophoblast cell invasion by Pyruvate Kinase isozyme M2 (PKM2). <i>Placenta</i> , 2021, 103, 24-32.	0.7	8
384	Pyruvate kinase M2 (PKM2) in cancer and cancer therapeutics. <i>Cancer Letters</i> , 2021, 503, 240-248.	3.2	92

#	ARTICLE	IF	CITATIONS
385	Inhibiting the Pkm2/b-catenin axis drives in vivo replication of adult cardiomyocytes following experimental MI. <i>Cell Death and Differentiation</i> , 2021, 28, 1398-1417.	5.0	27
386	FOXM1D potentiates PKM2-mediated tumor glycolysis and angiogenesis. <i>Molecular Oncology</i> , 2021, 15, 1466-1485.	2.1	30
387	Pyruvate Kinase M2 Mediates Glycolysis in the Lymphatic Endothelial Cells and Promotes the Progression of Lymphatic Malformations. <i>American Journal of Pathology</i> , 2021, 191, 204-215.	1.9	11
388	Tumor pyruvate kinase M2 modulators: a comprehensive account of activators and inhibitors as anticancer agents. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1121-1141.	1.7	15
389	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
390	Targeting Cancer Metabolism and Current Anti-Cancer Drugs. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1286, 15-48.	0.8	12
391	Redox Regulation of Metabolic Enzymes in Cancer. , 2021, , 263-275.		0
392	Mechanism of PKM2 affecting cancer immunity and metabolism in Tumor Microenvironment. <i>Journal of Cancer</i> , 2021, 12, 3566-3574.	1.2	25
393	Metabolic Factors Affecting Tumor Immunogenicity: What Is Happening at the Cellular Level?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2142.	1.8	6
394	JAK2V617F Mutation Promoted IL-6 Production and Glycolysis via Mediating PKM1 Stabilization in Macrophages. <i>Frontiers in Immunology</i> , 2020, 11, 589048.	2.2	6
395	Therapeutic Status and Available Strategies in Pancreatic Ductal Adenocarcinoma. <i>Biomedicines</i> , 2021, 9, 178.	1.4	8
396	Alternative splicing and cancer: a systematic review. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 78.	7.1	183
397	Non-Metabolic Functions of PKM2 Contribute to Cervical Cancer Cell Proliferation Induced by the HPV16 E7 Oncoprotein. <i>Viruses</i> , 2021, 13, 433.	1.5	8
398	A short review on cross-link between pyruvate kinase (PKM2) and Glioblastoma Multiforme. <i>Metabolic Brain Disease</i> , 2021, 36, 751-765.	1.4	13
399	Cachexia as Evidence of the Mechanisms of Resistance and Tolerance during the Evolution of Cancer Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2890.	1.8	30
400	HPV and Other Microbiota; Who's Good and Who's Bad: Effects of the Microbial Environment on the Development of Cervical Cancer—A Non-Systematic Review. <i>Cells</i> , 2021, 10, 714.	1.8	9
401	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
402	Interplay Between Glucose Metabolism and Chromatin Modifications in Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 654337.	1.8	12

#	ARTICLE	IF	CITATIONS
404	GLP-1 improves the supportive ability of astrocytes to neurons by promoting aerobic glycolysis in Alzheimer's disease. <i>Molecular Metabolism</i> , 2021, 47, 101180.	3.0	58
405	Metabolic changes in triple negative breast cancer-focus on aerobic glycolysis. <i>Molecular Biology Reports</i> , 2021, 48, 4733-4745.	1.0	26
406	The role of the HIF1 $\alpha$ /ALYREF/PKM2 axis in glycolysis and tumorigenesis of bladder cancer. <i>Cancer Communications</i> , 2021, 41, 560-575.	3.7	100
407	A pan-cancer analysis of alternative splicing of splicing factors in 6904 patients. <i>Oncogene</i> , 2021, 40, 5441-5450.	2.6	12
408	Extracellular Vesicle Transmission of Chemoresistance to Ovarian Cancer Cells Is Associated with Hypoxia-Induced Expression of Glycolytic Pathway Proteins, and Prediction of Epithelial Ovarian Cancer Disease Recurrence. <i>Cancers</i> , 2021, 13, 3388.	1.7	32
409	Enzymatic activation of pyruvate kinase increases cytosolic oxaloacetate to inhibit the Warburg effect. <i>Nature Metabolism</i> , 2021, 3, 954-968.	5.1	28
410	Serum tumour M2-pyruvate kinase as a biomarker for diagnosis and prognosis of early-stage non-small cell lung cancer. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 7335-7341.	1.6	11
411	Integrating systemic and molecular levels to infer key drivers sustaining metabolic adaptations. <i>PLoS Computational Biology</i> , 2021, 17, e1009234.	1.5	2
412	Prognostic Significance of O-GlcNAc and PKM2 in Hormone Receptor-Positive and HER2-Nonenriched Breast Cancer. <i>Diagnostics</i> , 2021, 11, 1460.	1.3	3
413	MUC1-C Contributes to the Maintenance of Human Embryonic Stem Cells and Promotes Somatic Cell Reprogramming. <i>Stem Cells and Development</i> , 2021, 30, 1082-1091.	1.1	5
414	TEPP-46-Based AIE Fluorescent Probe for Detection and Bioimaging of PKM2 in Living Cells. <i>Analytical Chemistry</i> , 2021, 93, 12682-12689.	3.2	15
415	Profiling Carbohydrate Metabolism in Liver and Hepatocellular Carcinoma with [13 C]Glycerate Probes. <i>Analysis &amp; Sensing</i> , 2021, 1, 196.	1.1	2
416	Comprehensive metagenomic and enzyme activity analysis reveals the negatively influential and potentially toxic mechanism of polystyrene nanoparticles on nitrogen transformation in constructed wetlands. <i>Water Research</i> , 2021, 202, 117420.	5.3	77
417	LC-MS Based Metabolomics Study of the Effects of EGCG on A549 Cells. <i>Frontiers in Pharmacology</i> , 2021, 12, 732716.	1.6	10
418	Histidine phosphorylation in metalloprotein binding sites. <i>Journal of Inorganic Biochemistry</i> , 2021, 225, 111606.	1.5	3
419	Proteins moonlighting in tumor metabolism and epigenetics. <i>Frontiers of Medicine</i> , 2021, 15, 383-403.	1.5	12
420	UCP2 - Taking the heat out of P-glycoprotein?. , 2021, 4, 503-511.		0
421	Contemporary Perspectives on the Warburg Effect Inhibition in Cancer Therapy. <i>Cancer Control</i> , 2021, 28, 107327482110412.	0.7	28



#	ARTICLE	IF	CITATIONS
422	Pyruvate Kinase M2. , 2016, , 1-11.		2
423	Growth Dependent Computation of Chokepoints in Metabolic Networks. Lecture Notes in Computer Science, 2020, , 102-119.	1.0	3
424	Pyruvate Kinase M2. , 2018, , 4323-4333.		1
425	Metabolic Fluxes in Cancer Metabolism. , 2015, , 315-348.		5
426	Diverting Glycolysis to Combat Oxidative Stress. , 2015, , 3-23.		85
427	Glut1 expression is increased by p53 reduction to switch metabolism to glycolysis during osteoblast differentiation. Biochemical Journal, 2020, 477, 1795-1811.	1.7	16
428	Endothelial pyruvate kinase M2 maintains vascular integrity. Journal of Clinical Investigation, 2018, 128, 4543-4556.	3.9	71
429	Pyruvate controls the checkpoint inhibitor PD-L1 and suppresses T cell immunity. Journal of Clinical Investigation, 2017, 127, 2725-2738.	3.9	75
430	Versatile mechanisms of 2-substituted benzimidazoles in targeted cancer therapy. Future Journal of Pharmaceutical Sciences, 2020, 6, .	1.1	14
431	Human Embryo Development and Assessment of Viability. , 2017, , 181-204.		1
432	Serine Biosynthesis with One Carbon Catabolism and the Glycine Cleavage System Represents a Novel Pathway for ATP Generation. PLoS ONE, 2011, 6, e25881.	1.1	74
433	Pyruvate Kinase M2 Plays a Dual Role on Regulation of the EGF/EGFR Signaling via E-Cadherin-Dependent Manner in Gastric Cancer Cells. PLoS ONE, 2013, 8, e67542.	1.1	26
434	Proteomic Analysis of Apis cerana and Apis mellifera Larvae Fed with Heterospecific Royal Jelly and by CSBV Challenge. PLoS ONE, 2014, 9, e102663.	1.1	20
435	Isoform Switch of Pyruvate Kinase M1 Indeed Occurs but Not to Pyruvate Kinase M2 in Human Tumorigenesis. PLoS ONE, 2015, 10, e0118663.	1.1	25
436	Exploring the Altered Dynamics of Mammalian Central Carbon Metabolic Pathway in Cancer Cells: A Classical Control Theoretic Approach. PLoS ONE, 2015, 10, e0137728.	1.1	10
437	De novo transcriptome sequencing and analysis of male, pseudo-male and female yellow perch, Perca flavescens. PLoS ONE, 2017, 12, e0171187.	1.1	14
438	Knockdown of Pyruvate Kinase M Inhibits Cell Growth and Migration by Reducing NF-kB Activity in Triple-Negative Breast Cancer Cells. Molecules and Cells, 2019, 42, 628-636.	1.0	39
439	Glucose restriction reverses the Warburg effect and modulates PKM2 and mTOR expression in breast cancer cell lines. Cellular and Molecular Biology, 2019, 65, 26.	0.3	8

#	ARTICLE	IF	CITATIONS
440	THE ROLE OF OLIGOCHITOSANS IN AKT KINASE REGULATION. Progress on Chemistry and Application of Chitin and Its Derivatives, 2015, XX, 73-81.	0.1	2
441	Mitochondria in cancer. Cell Stress, 2020, 4, 114-146.	1.4	133
442	Tissue-based metabolomics reveals potential biomarkers for cervical carcinoma and HPV infection. Bosnian Journal of Basic Medical Sciences, 2020, 20, 78-87.	0.6	15
443	Epigenetic silencing of miR-338 facilitates glioblastoma progression by de-repressing the pyruvate kinase M2- $\beta$ -catenin axis. Aging, 2017, 9, 1885-1897.	1.4	17
444	Analysis and interpretation of transcriptomic data obtained from extended Warburg effect genes in patients with clear cell renal cell carcinoma. Oncoscience, 2015, 2, 151-186.	0.9	35
445	Overexpression of PKM2 promotes mitochondrial fusion through attenuated p53 stability. Oncotarget, 2016, 7, 78069-78082.	0.8	34
446	One-carbon metabolism and nucleotide biosynthesis as attractive targets for anticancer therapy. Oncotarget, 2017, 8, 23955-23977.	0.8	107
447	A novel BMX variant promotes tumor cell growth and migration in lung adenocarcinoma. Oncotarget, 2017, 8, 33405-33415.	0.8	5
448	UCP2 and PRMT1 are key prognostic markers for lung carcinoma patients. Oncotarget, 2017, 8, 80278-80285.	0.8	20
449	PKM2 in carcinogenesis and oncotherapy. Oncotarget, 2017, 8, 110656-110670.	0.8	44
450	Targeting stromal-induced pyruvate kinase M2 nuclear translocation impairs OXPHOS and prostate cancer metastatic spread. Oncotarget, 2015, 6, 24061-24074.	0.8	84
451	A novel approach to the discovery of anti-tumor pharmaceuticals: searching for activators of liponecrosis. Oncotarget, 2016, 7, 5204-5225.	0.8	17
452	Role of isoenzyme M2 of pyruvate kinase in urothelial tumorigenesis. Oncotarget, 2016, 7, 23947-23960.	0.8	21
453	PHGDH as a mechanism for resistance in metabolically-driven cancers. , 2020, 3, 762-774.		14
454	Drug Development Strategy for Type 2 Diabetes: Targeting Positive Energy Balances. Current Drug Targets, 2019, 20, 879-890.	1.0	3
455	The Warburg Effect and Mass Spectrometry-based Proteomic Analysis. Cancer Genomics and Proteomics, 2017, 14, 211-218.	1.0	12
456	Metabolic reprogramming of fibro/adipogenic progenitors facilitates muscle regeneration. Life Science Alliance, 2020, 3, e202000646.	1.3	36
457	Cancer-specific Therapeutic Potential of Resveratrol: Metabolic Approach against Hallmarks of Cancer. Functional Foods in Health and Disease, 2013, 3, 332.	0.3	3

#	ARTICLE	IF	CITATIONS
458	PKM2 Knockdown Induces Autophagic Cell Death via AKT/mTOR Pathway in Human Prostate Cancer Cells. Cellular Physiology and Biochemistry, 2019, 52, 1535-1552.	1.1	38
459	Overexpression of the M2 isoform of pyruvate kinase is an adverse prognostic factor for signet ring cell gastric cancer. World Journal of Gastroenterology, 2012, 18, 4037.	1.4	76
460	Mechanisms of trichostatin A inhibiting AGS proliferation and identification of lysine-acetylated proteins. World Journal of Gastroenterology, 2013, 19, 3226.	1.4	7
461	Mechanisms of pyruvate kinase M2 isoform inhibits cell motility in hepatocellular carcinoma cells. World Journal of Gastroenterology, 2015, 21, 9093.	1.4	14
462	The role of pyruvate kinase M2 in anticancer therapeutic treatments (Review). Oncology Letters, 2019, 18, 5663-5672.	0.8	22
463	Interplay Between Metabolism and Oncogenic Process: Role of microRNAs. Translational Oncogenomics, 2015, 7, 11-27.	1.7	37
464	Inhibitors of glucose transport and glycolysis as novel anticancer therapeutics. World Journal of Translational Medicine, 2014, 3, 37.	3.5	33
465	Functional cross-talk between allosteric effects of activating and inhibiting ligands underlies PKM2 regulation. ELife, 2019, 8, .	2.8	29
466	Metabolic but not transcriptional regulation by PKM2 is important for natural killer cell responses. ELife, 2020, 9, .	2.8	19
467	High Expression of PKM2 Was Associated with the Poor Prognosis of Acute Leukemia. Cancer Management and Research, 2021, Volume 13, 7851-7858.	0.9	5
468	Glutathione-S-transferase P promotes glycolysis in asthma in association with oxidation of pyruvate kinase M2. Redox Biology, 2021, 47, 102160.	3.9	23
469	Metabolism of the Viable Human Embryo. , 2013, , 211-223.		1
470	Relevance of Mitochondrial Functions and Plasticity in Tumor Biology. , 2014, , 291-325.		0
471	Metabolic Adaptation in Reprogrammed Cancer Cells. Cancer Drug Discovery and Development, 2014, , 157-180.	0.2	0
472	INHIBITION OF EHRlich ASCITES TUMOUR (EAT) CELLS PROLIFERATION THROUGH CHITOSAN-MEDIATED REGULATION OF ACTIVITY OF THE AKT PATHWAY. Progress on Chemistry and Application of Chitin and Its Derivatives, 2014, 19, 33-40.	0.1	0
473	Glycolytic Metabolism is Differentially Coupled to Proliferative Potential and Morphodynamic Capacity in RAW 264.7 and Mafb/C-Maf Deficient Macrophage Lineages. Journal of Clinical & Cellular Immunology, 2015, 06, .	1.5	0
476	The Relevance of the Mitochondrial H <sup>+</sup> -ATP Synthase in Cancer Biology. , 2015, , 233-256.		0
477	Malignant Transforming Mechanisms of Human Papillomavirus. , 2017, , 35-56.		0

#	ARTICLE	IF	CITATIONS
480	MiR-1286 inhibits lung cancer growth through aerobic glycolysis by targeting PKM2. Archives of Medical Science, 2019, , .	0.4	1
482	Detection of Nail Oncometabolite SAICAR in Oral Cancer Patients and Its Molecular Interactions with PKM2 Enzyme. International Journal of Environmental Research and Public Health, 2021, 18, 11225.	1.2	4
483	Lactate induces PD-L1 in HRASG12V-positive oropharyngeal squamous cell carcinoma. Oncotarget, 2020, 11, 1493-1504.	0.8	3
484	A review on the emerging roles of pyruvate kinase M2 in anti-leukemia therapy. International Journal of Biological Macromolecules, 2021, 193, 1499-1506.	3.6	12
485	Glucose transporterâ€™1 inhibition overcomes imatinib resistance in gastrointestinal stromal tumor cells. Oncology Reports, 2021, 47, .	1.2	13
486	The Key Role of the WNT/Î²-Catenin Pathway in Metabolic Reprogramming in Cancers under Normoxic Conditions. Cancers, 2021, 13, 5557.	1.7	36
487	Faecal Diagnostic Biomarkers for Colorectal Cancer. Cancers, 2021, 13, 5568.	1.7	7
488	A Perspective on Medicinal Chemistry Approaches for Targeting Pyruvate Kinase M2. Journal of Medicinal Chemistry, 2022, 65, 1171-1205.	2.9	10
489	High expression of PKM2 as a poor prognosis indicator is associated with radiation resistance in cervical cancer. Histology and Histopathology, 2015, 30, 1313-20.	0.5	24
491	Both high expression of pyruvate kinase M2 and vascular endothelial growth factor-C predicts poorer prognosis in human breast cancer. International Journal of Clinical and Experimental Pathology, 2015, 8, 8028-37.	0.5	14
492	MiR-106b-mediated Mfn2 suppression is critical for PKM2 induced mitochondrial fusion. American Journal of Cancer Research, 2016, 6, 2221-2234.	1.4	9
493	Cancer metabolism: what we can learn from proteomic analysis by mass spectrometry. Cancer Genomics and Proteomics, 2012, 9, 373-81.	1.0	9
494	LHPP impedes energy metabolism by inducing ubiquitin-mediated degradation of PKM2 in glioblastoma. American Journal of Cancer Research, 2021, 11, 1369-1390.	1.4	4
495	Impacts and mechanisms of alternative mRNA splicing in cancer metabolism, immune response, and therapeutics. Molecular Therapy, 2022, 30, 1018-1035.	3.7	26
497	Biomarkers to Detect Early-Stage Colorectal Cancer. Biomedicines, 2022, 10, 255.	1.4	9
498	Glutamine metabolism in liver cancer: role in progression and potential therapeutic targeting. , 2022, , 199-217.		0
499	MYCT1 alters the glycogen shunt by regulating selective translation of RACK1-mediated enzymes. IScience, 2022, 25, 103955.	1.9	4
500	Splicing in Cancer. , 0, , .		0

#	ARTICLE	IF	CITATIONS
501	Gastrointestinal disorder biomarkers. <i>Clinica Chimica Acta</i> , 2022, 530, 13-26.	0.5	1
502	Targeting the Interplay between Cancer Metabolic Reprogramming and Cell Death Pathways as a Viable Therapeutic Path. <i>Biomedicines</i> , 2021, 9, 1942.	1.4	7
503	Aberrant role of pyruvate kinase M2 in the regulation of gamma-secretase and memory deficits in Alzheimer's disease. <i>Cell Reports</i> , 2021, 37, 110102.	2.9	19
504	OGA activated glycopeptide-based nano-activator to activate PKM2 tetramerization for switching catabolic pathways and sensitizing chemotherapy resistance. <i>Biomaterials</i> , 2022, 284, 121523.	5.7	14
506	Molecular glues: enhanced protein-protein interactions and cell proteome editing. <i>Medicinal Chemistry Research</i> , 2022, 31, 1068-1087.	1.1	10
507	Like Brothers in Arms: How Hormonal Stimuli and Changes in the Metabolism Signaling Cooperate, Leading HPV Infection to Drive the Onset of Cervical Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5050.	1.8	6
508	Pyruvate Kinase M1 Suppresses Development and Progression of Prostate Adenocarcinoma. <i>Cancer Research</i> , 2022, 82, 2403-2416.	0.4	10
509	Targeting pyruvate kinase M2 signaling for development of effective cancer therapy. , 2022, , 199-222.		0
510	Nanoscale metal organic frameworks and their applications in disease diagnosis and therapy. <i>Microchemical Journal</i> , 2022, 180, 107595.	2.3	4
511	The Regulatory Roles of Mitochondrial Calcium and the Mitochondrial Calcium Uniporter in Tumor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6667.	1.8	8
512	Modulation of Reactive Oxygen Species Homeostasis as a Pleiotropic Effect of Commonly Used Drugs. <i>Frontiers in Aging</i> , 0, 3, .	1.2	3
513	Reactive Oxygen Species and Metabolism in Leukemia: A Dangerous Liaison. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	12
514	Cancer metabolism control by natural products: Pyruvate kinase M2 targeting therapeutics. <i>Phytotherapy Research</i> , 2022, 36, 3181-3201.	2.8	11
515	Metabolic Regulation of Cardiac Regeneration. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	4
516	The strategic roles of four enzymes in the interconnection between metabolism and oncogene activation in non-small cell lung cancer: Therapeutic implications. <i>Drug Resistance Updates</i> , 2022, 63, 100852.	6.5	22
517	HPV18 oncoproteins driven expression of PKM2 reprograms HeLa cell metabolism to maintain aerobic glycolysis and viability. <i>VirusDisease</i> , 2022, 33, 223-235.	1.0	2
518	Research progress on the role of PKM2 in the immune response. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	8
519	Long non-coding RNAs play an important regulatory role in tumorigenesis and tumor progression through aerobic glycolysis. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	2

#	ARTICLE	IF	CITATIONS
520	Impact of NSCLC metabolic remodeling on immunotherapy effectiveness. Biomarker Research, 2022, 10, .	2.8	2
521	BRCA1 overexpression attenuates breast cancer cell growth and migration by regulating the pyruvate kinase M2-mediated Warburg effect via the PI3K/AKT signaling pathway. PeerJ, 0, 10, e14052.	0.9	4
522	PKM2 promotes pulmonary fibrosis by stabilizing TGF- $\beta$ 1 receptor I and enhancing TGF- $\beta$ 1 signaling. Science Advances, 2022, 8, .	4.7	21
523	Role of Pyruvate Kinase M2 (PKM2) in Cardiovascular Diseases. Journal of Cardiovascular Translational Research, 2023, 16, 382-402.	1.1	7
524	Protein-Metabolite Interactions Shape Cellular Metabolism and Physiology. Methods in Molecular Biology, 2023, , 1-10.	0.4	1
525	Calcium Channel $\beta$ 1 Is Essential for Pancreatic Tumor-Initiating Cells Through Sequential Phosphorylation of PKM2. Cellular and Molecular Gastroenterology and Hepatology, 2022, , .	2.3	0
526	Cerulenin suppresses ErbB2-overexpressing breast cancer by targeting ErbB2/PKM2 pathway. , 2023, 40, .		3
527	Editor's Pick: Pyruvate Kinase and Gastric Cancer: A Potential Marker. European Medical Journal (Chelmsford, England), 0, , 42-49.	3.0	0
528	Oncometabolism: A Paradigm for the Metabolic Remodeling of the Failing Heart. International Journal of Molecular Sciences, 2022, 23, 13902.	1.8	2
529	Functions and modulation of PKM2 activity by human papillomavirus E7 oncoprotein (Review). Oncology Letters, 2022, 25, .	0.8	1
530	Girdin Promotes Tumorigenesis and Chemoresistance in Lung Adenocarcinoma by Interacting with PKM2. Cancers, 2022, 14, 5688.	1.7	4
531	MXN1-AS1, a c-Myc induced lncRNA, promotes the Warburg effect by regulating PKM2 nuclear translocation. Journal of Experimental and Clinical Cancer Research, 2022, 41, .	3.5	12
532	Interpretable attention-based deep learning ensemble for personalized ovarian cancer treatment without manual annotations. Computerized Medical Imaging and Graphics, 2023, 107, 102233.	3.5	2
533	The metabolic crosstalk between PIN1 and the tumour microenvironment. Seminars in Cancer Biology, 2023, 91, 143-157.	4.3	2
534	PKM2 controls the translation of TFE3 to maintain the integrity of the Golgi apparatus for the survival of HeLa and ME180 cervical cancer cells. FEBS Journal, 2023, 290, 3221-3242.	2.2	2
535	Multifaceted roles of aerobic glycolysis and oxidative phosphorylation in hepatocellular carcinoma. PeerJ, 0, 11, e14797.	0.9	3
536	Assessment of metabolic stability and pharmacokinetics by LC-MS/MS and establishment of the safe dose of IMID-2, a novel anticancer molecule under drug discovery. Biomedical Chromatography, 2023, 37, .	0.8	1
537	Phosphoglycerate dehydrogenase activates PKM2 to phosphorylate histone H3T11 and attenuate cellular senescence. Nature Communications, 2023, 14, .	5.8	11

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538	Metabolic Interventions in Tumor Immunity: Focus on Dual Pathway Inhibitors. <i>Cancers</i> , 2023, 15, 2043.	1.7	2
539	Roadmap to Pyruvate Kinase M2 Modulation – A Computational Chronicle. <i>Current Drug Targets</i> , 2023, 24, .	1.0	0
540	OBHS Drives Abnormal Glycometabolis Reprogramming via GLUT1 in Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2023, 24, 7136.	1.8	0
541	Jmjd4 Facilitates Pkm2 Degradation in Cardiomyocytes and Is Protective Against Dilated Cardiomyopathy. <i>Circulation</i> , 2023, 147, 1684-1704.	1.6	7
560	The function of alternative splicing in the proteome: rewiring protein interactomes to put old functions into new contexts. <i>Nature Structural and Molecular Biology</i> , 2023, 30, 1844-1856.	3.6	0