

AMPK: a nutrient and energy sensor that maintains ene

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Citation Report

#	ARTICLE	IF	CITATIONS
1	AMP-Activated Protein Kinase. , 2010, , 551-557.		6
2	The dark face of AMPK as an essential tumor promoter. Cellular Logistics, 2012, 2, 197-202.	0.9	67
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1406	Nucleosides block AICAR-stimulated activation of AMPK in skeletal muscle and cancer cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C803-C817.	2.1	17
1407	GAPDH inhibits intracellular pathways during starvation for cellular energy homeostasis. <i>Nature</i> , 2018, 561, 263-267.	13.7	28
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1410	Metabolic Profiles Associated With Metformin Efficacy in Cancer. <i>Frontiers in Endocrinology</i> , 2018, 9, 372.	1.5	61
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1422	Till Death Do Us Part: The Marriage of Autophagy and Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-13.	1.9	66

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1429	Different physiological roles of insulin receptors in mediating nutrient metabolism in zebrafish. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E38-E51.	1.8	36
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1447	A novel phosphorylation by AMP-activated kinase regulates RUNX2 from ubiquitination in osteogenesis over adipogenesis. <i>Cell Death and Disease</i> , 2018, 9, 754.	2.7	50
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1522	Treatment with metformin in twelve patients with Lafora disease. <i>Orphanet Journal of Rare Diseases</i> , 2019, 14, 149.	1.2	34
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1537	Fibroblast growth Factor-21 promotes ketone body utilization in neurons through activation of AMP-dependent kinase. <i>Molecular and Cellular Neurosciences</i> , 2019, 101, 103415.	1.0	18
1538	Regulation of glucose and lipid metabolism in health and disease. <i>Science China Life Sciences</i> , 2019, 62, 1420-1458.	2.3	134
1539	Metformin Improves Mitochondrial Respiratory Activity through Activation of AMPK. <i>Cell Reports</i> , 2019, 29, 1511-1523.e5.	2.9	244
1540	A Double Negative Feedback Loop between mTORC1 and AMPK Kinases Guarantees Precise Autophagy Induction upon Cellular Stress. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5543.	1.8	57
1541	Black Ginseng and Ginsenoside Rb1 Promote Browning by Inducing UCP1 Expression in 3T3-L1 and Primary White Adipocytes. <i>Nutrients</i> , 2019, 11, 2747.	1.7	23
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1558	The Energy Homeostasis Principle: Neuronal Energy Regulation Drives Local Network Dynamics Generating Behavior. <i>Frontiers in Computational Neuroscience</i> , 2019, 13, 49.	1.2	74
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1627	Platycodin D, a bioactive component of <i>Platycodon grandiflorum</i> , induces cancer cell death associated with extreme vacuolation. <i>Animal Cells and Systems</i> , 2019, 23, 118-127.	0.8	16
1628	AMPK-mediated activation of MCU stimulates mitochondrial Ca ²⁺ entry to promote mitotic progression. <i>Nature Cell Biology</i> , 2019, 21, 476-486.	4.6	98
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1679	Adenosine and Its Receptors as Potential Drug Targets in Amyotrophic Lateral Sclerosis. <i>Journal of Caffeine and Adenosine Research</i> , 2019, 9, 157-166.	0.8	1
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1693	Overexpression of maize sucrose non-fermenting-1-related protein kinase 1 genes, ZmSnRK1s, causes alteration in carbon metabolism and leaf senescence in <i>Arabidopsis thaliana</i> . <i>Gene</i> , 2019, 691, 34-44.	1.0	22

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1695	Glucagon attenuates lipid accumulation in cow hepatocytes through AMPK signaling pathway activation. <i>Journal of Cellular Physiology</i> , 2019, 234, 6054-6066.	2.0	15
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1697	Vildagliptin improves high glucose-induced endothelial mitochondrial dysfunction via inhibiting mitochondrial fission. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 798-810.	1.6	39
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1699	SCF ^{TrCP} ubiquitinates CHK 1 in an AMPK-dependent manner in response to glucose deprivation. <i>Molecular Oncology</i> , 2019, 13, 307-321.	2.1	18
1700	Doxorubicin-induced cardiotoxicity involves IFN β -mediated metabolic reprogramming in cardiomyocytes. <i>Journal of Pathology</i> , 2019, 247, 320-332.	2.1	36
1701	Metabolomics profiling of metformin-mediated metabolic reprogramming bypassing AMPK. <i>Metabolism: Clinical and Experimental</i> , 2019, 91, 18-29.	1.5	30
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1718	Mathematical modeling of circadian rhythms. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2019, 11, e1439.	6.6	37
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1731	Identification of novel interactors and potential phosphorylation substrates of GsSnRK1 from wild soybean (<i>Glycine soja</i>). <i>Plant, Cell and Environment</i> , 2019, 42, 145-157.	2.8	21
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1735	Role of coenzymes in cancer metabolism. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 44-53.	2.3	25
1736	SIRT3 promotes lipophagy and chaperon-mediated autophagy to protect hepatocytes against lipotoxicity. <i>Cell Death and Differentiation</i> , 2020, 27, 329-344.	5.0	91
1737	Glia-specific autophagy dysfunction in ALS. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 172-182.	2.3	39
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1744	Immunomodulatory Mechanism of Acyclic Nucleoside Phosphates in Treatment of Hepatitis B Virus Infection. <i>Hepatology</i> , 2020, 71, 1533-1545.	3.6	43
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1767	Phosphoproteomic analysis of longissimus lumborum of different altitude yaks. <i>Meat Science</i> , 2020, 162, 108019.	2.7	20
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1772	Cytochrome P450 endoplasmic reticulum-associated degradation (ERAD): therapeutic and pathophysiological implications. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 42-60.	5.7	25
1773	Noise-induced loss of sensory hair cells is mediated by ROS/AMPK pathway. <i>Redox Biology</i> , 2020, 29, 101406.	3.9	48
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1790	Therapeutic Potential of δ^2 -Caryophyllene: A Dietary Cannabinoid in Diabetes and Associated Complications. <i>Nutrients</i> , 2020, 12, 2963.	1.7	34
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1793	A structured DAG enriched mustard oil system ameliorates hypercholesterolemia through modulation of AMPK and NF- κ B signaling system. <i>PharmaNutrition</i> , 2020, 14, 100224.	0.8	2
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1804	Mechanism of Zinc Excitotoxicity: A Focus on AMPK. <i>Frontiers in Neuroscience</i> , 2020, 14, 577958.	1.4	21
1805	Metformin enhances osteogenic differentiation of stem cells from human exfoliated deciduous teeth through AMPK pathway. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1869-1879.	1.3	22
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1810	Sodium butyrate promotes milk fat synthesis in bovine mammary epithelial cells via GPR41 and its downstream signalling pathways. <i>Life Sciences</i> , 2020, 259, 118375.	2.0	23
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1819	SUMO: From Bench to Bedside. <i>Physiological Reviews</i> , 2020, 100, 1599-1619.	13.1	155
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1837	The hexosamine biosynthesis pathway is a targetable liability in KRAS/LKB1 mutant lung cancer. <i>Nature Metabolism</i> , 2020, 2, 1401-1412.	5.1	82
1838	Role of the AMPK/ACC Signaling Pathway in TRPP2-Mediated Head and Neck Cancer Cell Proliferation. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	4

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1839	Geniposide alleviates diabetic nephropathy of mice through AMPK/SIRT1/NF- κ B pathway. <i>European Journal of Pharmacology</i> , 2020, 886, 173449.	1.7	93
1840	Insights into the potential benefits of black soybean (<i>Glycine max</i> L.) polyphenols in lifestyle diseases. <i>Food and Function</i> , 2020, 11, 7321-7339.	2.1	15
1841	Inhibition of Digestive Enzyme and Stimulation of Human Liver Cells (HepG2) Glucose Uptake by Date Seeds Extract. <i>Evidence-based Complementary and Alternative Medicine</i> , 2020, 2020, 1-10.	0.5	5
1842	<p>Neuroprotective Effect of Mesenchymal Stromal Cell-Derived Extracellular Vesicles Against Cerebral Ischemia-Reperfusion-Induced Neural Functional Injury: A Pivotal Role for AMPK and JAK2/STAT3/NF- κ B Signaling Pathway Modulation</p>. <i>Drug Design, Development and Therapy</i> , 2020, Volume 14, 2865-2876.	2.0	26
1843	<p>Emerging Roles and Therapeutic Interventions of Aerobic Glycolysis in Glioma</p>. <i>OncoTargets and Therapy</i> , 2020, Volume 13, 6937-6955.	1.0	21
1844	<p>Depression of Mitochondrial Function in the Rat Skeletal Muscle Model of Myofascial Pain Syndrome Is Through Down-Regulation of the AMPK-PGC-1 β -SIRT3 Axis</p>. <i>Journal of Pain Research</i> , 2020, Volume 13, 1747-1756.	0.8	9
1845	Peroxisomal proliferator-activated receptor α deficiency induces the reprogramming of nutrient metabolism in zebrafish. <i>Journal of Physiology</i> , 2020, 598, 4537-4553.	1.3	20
1846	The Vicious Cycle of Renal Lipotoxicity and Mitochondrial Dysfunction. <i>Frontiers in Physiology</i> , 2020, 11, 732.	1.3	29
1847	Proteome and phosphoproteome profiling reveals the regulation mechanism of hibernation in a freshwater leech (<i>Whitmania pigra</i>). <i>Journal of Proteomics</i> , 2020, 229, 103866.	1.2	4
1848	Microbiota-Sourced Purines Support Wound Healing and Mucous Barrier Function. <i>IScience</i> , 2020, 23, 101226.	1.9	45
1849	From overnutrition to liver injury: AMP-activated protein kinase in nonalcoholic fatty liver diseases. <i>Journal of Biological Chemistry</i> , 2020, 295, 12279-12289.	1.6	50
1850	Peroxisome Proliferator-Activated Receptors and Caloric Restriction—Common Pathways Affecting Metabolism, Health, and Longevity. <i>Cells</i> , 2020, 9, 1708.	1.8	39
1851	The Novel Angiotensin-(1-7) Analog, A-1317, Improves Insulin Resistance by Restoring Pancreatic β -Cell Functionality in Rats With Metabolic Syndrome. <i>Frontiers in Pharmacology</i> , 2020, 11, 1263.	1.6	5
1852	Eye Drops of Metformin Prevents Fibrosis After Glaucoma Filtration Surgery in Rats via Activating AMPK/Nrf2 Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 1038.	1.6	15
1853	Molecular, Cellular, and Clinical Evidence That Sodium-Glucose Cotransporter 2 Inhibitors Act as Neurohormonal Antagonists When Used for the Treatment of Chronic Heart Failure. <i>Journal of the American Heart Association</i> , 2020, 9, e016270.	1.6	30
1854	Carcinogenic roles and therapeutic effects of EZH2 in gynecological cancers. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115379.	1.4	5
1855	Forskolin Increases cAMP Levels and Enhances Recombinant Antibody Production in CHO Cell Cultures. <i>Biotechnology Journal</i> , 2020, 15, 2000264.	1.8	7
1856	Dihydroxyacetone phosphate signals glucose availability to mTORC1. <i>Nature Metabolism</i> , 2020, 2, 893-901.	5.1	131

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1858	Role of NUDIX Hydrolases in NAD and ADP-Ribose Metabolism in Mammals. <i>Biochemistry (Moscow)</i> , 2020, 85, 883-894.	0.7	14
1859	Cancer-associated adipocytes: emerging supporters in breast cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2020, 39, 156.	3.5	86
1860	Glucagon-Like Peptide-1 Receptor Agonist Prevented the Progression of Hepatocellular Carcinoma in a Mouse Model of Nonalcoholic Steatohepatitis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5722.	1.8	27
1861	Two 3d-4f metal-organic frameworks as fluorescent sensor array for the discrimination of phosphates based on different response patterns. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128757.	4.0	28
1862	The potent roles of salt-inducible kinases (SIKs) in metabolic homeostasis and tumorigenesis. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 150.	7.1	66
1863	LKB1 mutations are not associated with the efficacy of first-line and second-line chemotherapy in patients with advanced non-small-cell lung cancer (NSCLC): a post hoc analysis of the TAILOR trial. <i>ESMO Open</i> , 2020, 5, e000748.	2.0	2
1864	Calcium regulation of T cell metabolism. <i>Current Opinion in Physiology</i> , 2020, 17, 207-223.	0.9	29
1865	Fisetin Inhibits Autophagy in HepG2 Cells via PI3K/Akt/mTOR and AMPK Pathway. <i>Nutrition and Cancer</i> , 2021, 73, 2502-2514.	0.9	28
1866	Targeting Autophagy in Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7836.	1.8	54
1867	Metabolic heterogeneity in cancer: An overview and therapeutic implications. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020, 1874, 188421.	3.3	26
1868	The Double-Edge Sword of Autophagy in Cancer: From Tumor Suppression to Pro-tumor Activity. <i>Frontiers in Oncology</i> , 2020, 10, 578418.	1.3	151
1869	HMGR overexpression and interference affect the expression of steroidogenic genes and cholesterol content in bovine intramuscular adipocytes. <i>Scientific Reports</i> , 2020, 10, 16606.	1.6	5
1870	Sex-specific susceptibility to type 2 diabetes mellitus and preventive effect of linalyl acetate. <i>Life Sciences</i> , 2020, 260, 118432.	2.0	8
1871	Altered m ⁶ A modification is involved in upregulated expression of FOXO3 in luteinized granulosa cells of non-obese polycystic ovary syndrome patients. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 11874-11882.	1.6	27
1872	High intensity exercise downregulates FTO mRNA expression during the early stages of recovery in young males and females. <i>Nutrition and Metabolism</i> , 2020, 17, 68.	1.3	6
1873	Effects of enzymatic hydrolysates from poultry by-products (EHPB) as an alternative source of fish meal on growth performance, hepatic proteome and gut microbiota of turbot (<i>Scophthalmus</i>)	1.1	10
1874	Activating Adenosine Monophosphate-Activated Protein Kinase Mediates Fibroblast Growth Factor 1 Protection From Nonalcoholic Fatty Liver Disease in Mice. <i>Hepatology</i> , 2021, 73, 2206-2222.	3.6	43

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1876	Metabolic Reprogramming is a Hallmark of Metabolism Itself. <i>BioEssays</i> , 2020, 42, e2000058.	1.2	12
1877	ANXA1 directs Schwann cells proliferation and migration to accelerate nerve regeneration through the FPR2/AMPK pathway. <i>FASEB Journal</i> , 2020, 34, 13993-14005.	0.2	20
1878	Metformin and cancer immunity. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 1403-1409.	2.8	54
1879	Metabolism Regulation and Redox State: Insight into the Role of Superoxide Dismutase 1. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6606.	1.8	26
1880	Chrysanthemum morifolium Flower Extract Inhibits Adipogenesis of 3T3-L1 Cells via AMPK/SIRT1 Pathway Activation. <i>Nutrients</i> , 2020, 12, 2726.	1.7	13
1881	AMPK Activity Contributes to G2 Arrest and DNA Damage Decrease via p53/p21 Pathways in Oxidatively Damaged Mouse Zygotes. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 539485.	1.8	18
1882	Autophagy in Health and Food Science. <i>Current Pharmacology Reports</i> , 2020, 6, 335-345.	1.5	3
1883	Discovery of Novel Pyrazolo[3,4- <i>b</i>] Pyridine Derivatives with Dual Activities of Vascular Remodeling Inhibition and Vasodilation for the Treatment of Pulmonary Arterial Hypertension. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 11215-11234.	2.9	23
1884	A glycolytic shift in Schwann cells supports injured axons. <i>Nature Neuroscience</i> , 2020, 23, 1215-1228.	7.1	88
1886	Lactobacillus Strains Alleviated Hyperlipidemia and Liver Steatosis in Aging Rats via Activation of AMPK. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5872.	1.8	27
1887	The Suitability of Glioblastoma Cell Lines as Models for Primary Glioblastoma Cell Metabolism. <i>Cancers</i> , 2020, 12, 3722.	1.7	10
1888	Lactate Metabolism and Satellite Cell Fate. <i>Frontiers in Physiology</i> , 2020, 11, 610983.	1.3	9
1889	Role of Dietary Amino Acids and Nutrient Sensing System in Pregnancy Associated Disorders. <i>Frontiers in Pharmacology</i> , 2020, 11, 586979.	1.6	20
1890	Posttranslational Modifications in Ferroptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-12.	1.9	94
1891	Acetate Revisited: A Key Biomolecule at the Nexus of Metabolism, Epigenetics and Oncogenesis—Part 1: Acetyl-CoA, Acetogenesis and Acyl-CoA Short-Chain Synthetases. <i>Frontiers in Physiology</i> , 2020, 11, 580167.	1.3	56
1892	Long-term T cell fitness and proliferation is driven by AMPK-dependent regulation of reactive oxygen species. <i>Scientific Reports</i> , 2020, 10, 21673.	1.6	15
1893	How Far Are We from Prescribing Fasting as Anticancer Medicine?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9175.	1.8	16

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1895	Hypercapnia-Driven Skeletal Muscle Dysfunction in an Animal Model of Pulmonary Emphysema Suggests a Complex Phenotype. <i>Frontiers in Physiology</i> , 2020, 11, 600290.	1.3	9
1896	Adiponectin protects HL-1 cardiomyocytes against rotenone-induced cytotoxicity through AMPK activation. <i>Toxicology Letters</i> , 2020, 335, 82-90.	0.4	1
1897	Activation of AMPK suppresses S1P-induced airway smooth muscle cells proliferation and its potential mechanisms. <i>Molecular Immunology</i> , 2020, 128, 106-115.	1.0	5
1898	Cellular damage, including wounding, drives <i>C. elegans</i> stress-induced sleep. <i>Journal of Neurogenetics</i> , 2020, 34, 430-439.	0.6	8
1899	Brain-specific suppression of AMPK α 2 isoform impairs cognition and hippocampal LTP by PERK-mediated eIF2 γ phosphorylation. <i>Molecular Psychiatry</i> , 2020, 26, 1880-1897.	4.1	18
1900	Therapeutic application of nutraceuticals in diabetic nephropathy: Current evidence and future implications. <i>Diabetes/Metabolism Research and Reviews</i> , 2020, 36, e3336.	1.7	23
1901	Hypoxic Roadmap of Glioblastoma—Learning about Directions and Distances in the Brain Tumor Environment. <i>Cancers</i> , 2020, 12, 1213.	1.7	10
1902	Panax quinquefolium saponin Optimizes Energy Homeostasis by Modulating AMPK-Activated Metabolic Pathways in Hypoxia-Reperfusion Induced Cardiomyocytes. <i>Chinese Journal of Integrative Medicine</i> , 2021, 27, 613-620.	0.7	5
1903	Metabolic regulation of kisspeptin—the link between energy balance and reproduction. <i>Nature Reviews Endocrinology</i> , 2020, 16, 407-420.	4.3	116
1904	Interleukin-22 drives a metabolic adaptive reprogramming to maintain mitochondrial fitness and treat liver injury. <i>Theranostics</i> , 2020, 10, 5879-5894.	4.6	22
1905	AMPK Preferentially Depresses Retrograde Transport of Axonal Mitochondria during Localized Nutrient Deprivation. <i>Journal of Neuroscience</i> , 2020, 40, 4798-4812.	1.7	19
1906	Formate induces a metabolic switch in nucleotide and energy metabolism. <i>Cell Death and Disease</i> , 2020, 11, 310.	2.7	31
1907	Lower Levels of Adiponectin and Its Receptor Adipor1 in the Uveal Melanomas With Monosomy-3. , 2020, 61, 12.		10
1908	Mitochondrial AIF loss causes metabolic reprogramming, caspase-independent cell death blockade, embryonic lethality, and perinatal hydrocephalus. <i>Molecular Metabolism</i> , 2020, 40, 101027.	3.0	26
1909	Dietary inflammatory potential in relation to the gut microbiome: results from a cross-sectional study. <i>British Journal of Nutrition</i> , 2020, 124, 931-942.	1.2	61
1910	Renal denervation improves vascular endothelial dysfunction by inducing autophagy via AMPK/mTOR signaling activation in a rat model of type 2 diabetes mellitus with insulin resistance. <i>Acta Diabetologica</i> , 2020, 57, 1227-1243.	1.2	24
1911	Hypomorphic CAMKK2 in EA.hy926 endothelial cells causes abnormal transferrin trafficking, iron homeostasis and glucose metabolism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118763.	1.9	13

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1913	Effects of dietary zinc level on growth performance, lipolysis and expression of genes involved in the calcium/calmodulin-dependent protein kinase kinase- β /AMP-activated protein kinase pathway in juvenile Pacific white shrimp. <i>British Journal of Nutrition</i> , 2020, 124, 773-784.	1.2	19
1914	New emerging roles of Polycystin-2 in the regulation of autophagy. <i>International Review of Cell and Molecular Biology</i> , 2020, 354, 165-186.	1.6	5
1915	Discovery of AdipoRon analogues as novel AMPK activators without inhibiting mitochondrial complex I. <i>European Journal of Medicinal Chemistry</i> , 2020, 200, 112466.	2.6	5
1916	Activation of the AMP-related kinase (AMPK) induces renal vasodilatation and downregulates Nox-derived reactive oxygen species (ROS) generation. <i>Redox Biology</i> , 2020, 34, 101575.	3.9	36
1917	Molecular Mechanisms of Adipogenesis: The Anti-adipogenic Role of AMP-Activated Protein Kinase. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 76.	1.6	118
1918	(α)-Hydroxycitric acid regulates energy metabolism by activation of AMPK - PGC1 β - NRF1 signal pathway in primary chicken hepatocytes. <i>Life Sciences</i> , 2020, 254, 117785.	2.0	8
1919	Anti-fat effect and mechanism of polysaccharide-enriched extract from <i>Cyclocarya paliurus</i> (Batal.) Iljinskaja in <i>Caenorhabditis elegans</i> . <i>Food and Function</i> , 2020, 11, 5320-5332.	2.1	18
1920	Sestrin2 inhibits YAP activation and negatively regulates corneal epithelial cell proliferation. <i>Experimental and Molecular Medicine</i> , 2020, 52, 951-962.	3.2	7
1921	Urolithin A Induces Brown-like Phenotype in 3T3-L1 White Adipocytes via β 3-adrenergic Receptor-p38 MAPK Signaling Pathway. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 345-355.	1.4	23
1922	HCBP6 deficiency exacerbates glucose and lipid metabolism disorders in non-alcoholic fatty liver mice. <i>Biomedicine and Pharmacotherapy</i> , 2020, 129, 110347.	2.5	13
1923	Metformin effectively treats Tsc1 deletion-caused kidney pathology by upregulating AMPK phosphorylation. <i>Cell Death Discovery</i> , 2020, 6, 52.	2.0	13
1924	Molecular mechanisms of hepatic insulin resistance in nonalcoholic fatty liver disease and potential treatment strategies. <i>Pharmacological Research</i> , 2020, 159, 104984.	3.1	26
1925	Crocin Improves Insulin Sensitivity and Ameliorates Adiposity by Regulating AMPK-CDK5-PPAR γ Signaling. <i>BioMed Research International</i> , 2020, 2020, 1-8.	0.9	15
1926	Iron chelation inhibits mTORC1 signaling involving activation of AMPK and REDD1/Bnip3 pathways. <i>Oncogene</i> , 2020, 39, 5201-5213.	2.6	18
1927	S-petasin inhibits lipid accumulation in oleic acid-induced HepG2 cells through activation of the AMPK signaling pathway. <i>Food and Function</i> , 2020, 11, 5664-5673.	2.1	19
1928	Metformin protects against mouse oocyte apoptosis defects induced by arecoline. <i>Cell Proliferation</i> , 2020, 53, e12809.	2.4	24
1929	The influence of hypoxia and energy depletion on the response of endothelial cells to the vascular disrupting agent combretastatin A-4-phosphate. <i>Scientific Reports</i> , 2020, 10, 9926.	1.6	7

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1930	AMPK Profiling in Rodent and Human Pancreatic Beta-Cells under Nutrient-Rich Metabolic Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3982.	1.8	18
1931	Advanced glycation end-products suppress autophagy by AMPK/mTOR signaling pathway to promote vascular calcification. <i>Molecular and Cellular Biochemistry</i> , 2020, 471, 91-100.	1.4	15
1932	Effects of Glucose Deprivation on ATP and Proteoglycan Production of Intervertebral Disc Cells under Hypoxia. <i>Scientific Reports</i> , 2020, 10, 8899.	1.6	19
1933	Dehydroepiandrosterone activates 5 α -adenosine monophosphate-activated protein kinase and suppresses lipid accumulation and adipocyte differentiation in 3T3-L1 cells. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 612-619.	1.0	6
1934	Phosphorylated Acetyl-CoA Carboxylase Is Associated with Clinical Benefit with Regorafenib in Relapsed Glioblastoma: REGOMA Trial Biomarker Analysis. <i>Clinical Cancer Research</i> , 2020, 26, 4478-4484.	3.2	20
1935	Upregulation of AMPK Ameliorates Alzheimer's Disease-Like Tau Pathology and Memory Impairment. <i>Molecular Neurobiology</i> , 2020, 57, 3349-3361.	1.9	27
1936	A Photo-clickable ATP-Mimetic Reveals Nucleotide Interactors in the Membrane Proteome. <i>Cell Chemical Biology</i> , 2020, 27, 1073-1083.e12.	2.5	13
1937	Non-Coding RNAs Operate in the Crosstalk Between Cancer Metabolic Reprogramming and Metastasis. <i>Frontiers in Oncology</i> , 2020, 10, 810.	1.3	11
1938	A single session of physical activity restores the mitochondrial organization disrupted by obesity in skeletal muscle fibers. <i>Life Sciences</i> , 2020, 256, 117965.	2.0	3
1939	AMP-activated protein kinase regulates cytoplasmic dynein behavior and contributes to neuronal migration in the developing neocortex. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	1
1940	Effect of Astaxanthin on Activation of Autophagy and Inhibition of Apoptosis in Helicobacter pylori-Infected Gastric Epithelial Cell Line AGS. <i>Nutrients</i> , 2020, 12, 1750.	1.7	27
1941	Daily consumption of black soybean (<i>Glycine max</i> L.) seed coat polyphenols attenuates dyslipidemia in apolipoprotein E-deficient mice. <i>Journal of Functional Foods</i> , 2020, 72, 104054.	1.6	4
1942	Optogenetic control of mitochondrial protonmotive force to impact cellular stress resistance. <i>EMBO Reports</i> , 2020, 21, e49113.	2.0	31
1943	AMPK-mTOR pathway is involved in glucose-modulated amino acid sensing and utilization in the mammary glands of lactating goats. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 32.	2.1	14
1944	FAM13A Represses AMPK Activity and Regulates Hepatic Glucose and Lipid Metabolism. <i>IScience</i> , 2020, 23, 100928.	1.9	16
1945	Structure, Regulation, and Function of Linear and Circular Long Non-Coding RNAs. <i>Frontiers in Genetics</i> , 2020, 11, 150.	1.1	45
1946	Study of the AMP-activated Protein Kinase Role in Energy Metabolism Changes during the Postmortem Aging of Yak <i>Longissimus dorsal</i> . <i>Animals</i> , 2020, 10, 427.	1.0	8
1948	Lipid droplets, bioenergetic fluxes, and metabolic flexibility. <i>Seminars in Cell and Developmental Biology</i> , 2020, 108, 33-46.	2.3	37

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1949	Signaling networks in immunometabolism. <i>Cell Research</i> , 2020, 30, 328-342.	5.7	120
1950	Improving Dissolution and Cytotoxicity by Forming Multidrug Crystals. <i>Molecules</i> , 2020, 25, 1343.	1.7	6
1951	Illuminating NAD ⁺ Metabolism in Live Cells and In Vivo Using a Genetically Encoded Fluorescent Sensor. <i>Developmental Cell</i> , 2020, 53, 240-252.e7.	3.1	71
1952	Anti-Inflammatory Effects of Neochlorogenic Acid Extract from Mulberry Leaf (<i>Morus alba</i> L.) Against LPS-Stimulated Inflammatory Response through Mediating the AMPK/Nrf2 Signaling Pathway in A549 Cells. <i>Molecules</i> , 2020, 25, 1385.	1.7	54
1953	Targeting the Inositol Pyrophosphate Biosynthetic Enzymes in Metabolic Diseases. <i>Molecules</i> , 2020, 25, 1403.	1.7	26
1954	Anticancer effects of epigallocatechin-3-gallate nanoemulsion on lung cancer cells through the activation of AMP-activated protein kinase signaling pathway. <i>Scientific Reports</i> , 2020, 10, 5163.	1.6	72
1955	Response of the expression of oxytocin neurons to ghrelin in female mice. <i>Experimental Brain Research</i> , 2020, 238, 1085-1095.	0.7	4
1956	Transcriptional suppression of AMPK β 1 promotes breast cancer metastasis upon oncogene activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8013-8021.	3.3	45
1957	Laminarin From <i>Salicornia herbacea</i> Stimulates Glucose Uptake Through AMPK-p38 MAPK Pathways in L6 Muscle Cells. <i>Natural Product Communications</i> , 2020, 15, 1934578X2090140.	0.2	1
1958	Glutamine supports the protection of tissue cells against the damage caused by cholesterol-dependent cytolysins from pathogenic bacteria. <i>PLoS ONE</i> , 2020, 15, e0219275.	1.1	8
1959	CTRP1 Attenuates UUO-induced Renal Fibrosis via AMPK/NOX4 Pathway in Mice. <i>Current Medical Science</i> , 2020, 40, 48-54.	0.7	11
1960	Malignancy Grade-Dependent Mapping of Metabolic Landscapes in Human Urothelial Bladder Cancer: Identification of Novel, Diagnostic, and Druggable Biomarkers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1892.	1.8	7
1961	Effects of metformin and pioglitazone combination on apoptosis and AMPK/mTOR signaling pathway in human anaplastic thyroid cancer cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2020, 34, e22547.	1.4	18
1962	The importance of the AMPK gamma 1 subunit in metformin suppression of liver glucose production. <i>Scientific Reports</i> , 2020, 10, 10482.	1.6	16
1963	Current Evidences and Future Perspectives for AMPK in the Regulation of Milk Production and Mammary Gland Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 530.	1.8	16
1964	LncRNA NBR2 Inhibits the Malignancy of Thyroid Cancer, Associated With Enhancing the AMPK Signaling. <i>Frontiers in Oncology</i> , 2020, 10, 956.	1.3	14
1965	Intermediary metabolism: An intricate network at the crossroads of cell fate and function. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165887.	1.8	12
1966	Paradoxical activation of AMPK by glucose drives selective EP300 activity in colorectal cancer. <i>PLoS Biology</i> , 2020, 18, e3000732.	2.6	18

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1967	Compounds that extend longevity are protective in neurodegenerative diseases and provide a novel treatment strategy for these devastating disorders. <i>Mechanisms of Ageing and Development</i> , 2020, 190, 111297.	2.2	21
1968	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
1969	Mitochondrial Fatty Acid β -Oxidation Inhibition Promotes Glucose Utilization and Protein Deposition through Energy Homeostasis Remodeling in Fish. <i>Journal of Nutrition</i> , 2020, 150, 2322-2335.	1.3	44
1970	The anti-insulin resistance effect of scutellarin may be related to antioxidant stress and AMPK α activation in diabetic mice. <i>Obesity Research and Clinical Practice</i> , 2020, 14, 368-374.	0.8	16
1971	Regulating appetite in broilers for improving body and muscle development – A review. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2020, 104, 1819-1834.	1.0	13
1972	Interplay Between Nutrient-Sensing Molecules During Aging and Longevity. , 2020, , 393-417.		2
1973	Resistance to FGFR1-targeted therapy leads to autophagy via TAK1/AMPK activation in gastric cancer. <i>Gastric Cancer</i> , 2020, 23, 988-1002.	2.7	20
1974	Neuroprotective effects of metformin on traumatic brain injury in rats is associated with the AMP-activated protein kinase signaling pathway. <i>Metabolic Brain Disease</i> , 2020, 35, 1135-1144.	1.4	14
1975	SETD2 Restricts Prostate Cancer Metastasis by Integrating EZH2 and AMPK Signaling Pathways. <i>Cancer Cell</i> , 2020, 38, 350-365.e7.	7.7	113
1976	Regulation of Metabolic Homeostasis in Cell Culture Bioprocesses. <i>Trends in Biotechnology</i> , 2020, 38, 1113-1127.	4.9	24
1977	Gingerol supplementation does not change glucose tolerance, lipid profile and does not prevent weight gain in C57BL/6 mice fed a high-fat diet. <i>Clinical Nutrition Experimental</i> , 2020, 32, 11-19.	2.0	2
1978	Energy-stress-mediated AMPK activation inhibits ferroptosis. <i>Nature Cell Biology</i> , 2020, 22, 225-234.	4.6	561
1979	The physiological modulation by intracellular kinases of hippocampal β -oscillation in vitro. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C879-C888.	2.1	2
1980	AMP-Activated Protein Kinase (AMPK) at the Crossroads Between CO ₂ Retention and Skeletal Muscle Dysfunction in Chronic Obstructive Pulmonary Disease (COPD). <i>International Journal of Molecular Sciences</i> , 2020, 21, 955.	1.8	22
1981	Pentatricopeptide repeat protein MID1 modulates nad2 intron 1 splicing and Arabidopsis development. <i>Scientific Reports</i> , 2020, 10, 2008.	1.6	12
1982	Long-lasting impact of perinatal dietary supplementation of omega 3 fatty acids on mevalonate pathway: potential role on neuron trophism in male offspring hippocampal formation. <i>Nutritional Neuroscience</i> , 2020, , 1-12.	1.5	5
1983	Exploration of metformin as novel therapy for osteoarthritis: preventing cartilage degeneration and reducing pain behavior. <i>Arthritis Research and Therapy</i> , 2020, 22, 34.	1.6	42
1984	AMP-Activated Protein Kinase Restricts Zika Virus Replication in Endothelial Cells by Potentiating Innate Antiviral Responses and Inhibiting Glycolysis. <i>Journal of Immunology</i> , 2020, 204, 1810-1824.	0.4	58

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1985	AMP-activated protein kinase (AMPK) regulates astrocyte oxidative metabolism by balancing TCA cycle dynamics. <i>Glia</i> , 2020, 68, 1824-1839.	2.5	31
1986	Metabolic disturbance in Korean red ginseng-induced "Shanghuo" (excessive heat). <i>Journal of Ethnopharmacology</i> , 2020, 253, 112604.	2.0	12
1987	AMPK-dependent activation of the Cyclin Y/CDK16 complex controls autophagy. <i>Nature Communications</i> , 2020, 11, 1032.	5.8	25
1988	Targeting Neurovascular Interaction in Retinal Disorders. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1503.	1.8	26
1989	Cross-Talk Between the Tumor Microenvironment, Extracellular Matrix, and Cell Metabolism in Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 239.	1.3	63
1990	Metabolic Regulation of Hippocampal Neuroprogenitor Apoptosis After Irradiation. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 325-335.	0.9	2
1991	Metformin and statins: a possible role in high-risk prostate cancer. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020, 25, 163-167.	0.3	4
1992	Parkin-mediated mitophagy and autophagy flux disruption in cellular models of MERRF syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165726.	1.8	22
1993	Systems Level Understanding of Circadian Integration with Cell Physiology. <i>Journal of Molecular Biology</i> , 2020, 432, 3547-3564.	2.0	24
1994	Spatial control of AMPK signaling at subcellular compartments. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 17-32.	2.3	24
1995	Autophagy stimulation and intracellular sodium reduction as mediators of the cardioprotective effect of sodium-glucose cotransporter 2 inhibitors. <i>European Journal of Heart Failure</i> , 2020, 22, 618-628.	2.9	76
1996	Diverse biological processes coordinate the transcriptional response to nutritional changes in a <i>Drosophila melanogaster</i> multiparent population. <i>BMC Genomics</i> , 2020, 21, 84.	1.2	9
1997	Sensor array based on carbon dots for ATP-related physiological phosphates detecting and ATP hydrolysis monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127851.	4.0	25
1998	Exercise enhances skeletal muscle regeneration by promoting senescence in fibro-adipogenic progenitors. <i>Nature Communications</i> , 2020, 11, 889.	5.8	101
1999	Complex Mitochondrial Dysfunction Induced by TPP+-Gentisic Acid and Mitochondrial Translation Inhibition by Doxycycline Evokes Synergistic Lethality in Breast Cancer Cells. <i>Cells</i> , 2020, 9, 407.	1.8	25
2000	Whether AICAR in Pregnancy or Lactation Prevents Hypertension Programmed by High Saturated Fat Diet: A Pilot Study. <i>Nutrients</i> , 2020, 12, 448.	1.7	13
2001	Dysregulated metabolic pathways in age-related macular degeneration. <i>Scientific Reports</i> , 2020, 10, 2464.	1.6	66
2002	Cyclosporin A ameliorates eclampsia seizure through reducing systemic inflammation in an eclampsia-like rat model. <i>Hypertension Research</i> , 2020, 43, 263-270.	1.5	7

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2003	Metformin Inhibits Tumor Metastasis through Suppressing Hsp90 α Secretion in an AMPK α 1-PKC δ 3 Dependent Manner. <i>Cells</i> , 2020, 9, 144.	1.8	13
2004	Inhibition of Mitochondrial Calcium Overload by SIRT3 Prevents Obesity- or Age-Related Whitening of Brown Adipose Tissue. <i>Diabetes</i> , 2020, 69, 165-180.	0.3	77
2005	Metabolic Stress Alters Antioxidant Systems, Suppresses the Adiponectin Receptor 1 and Induces Alzheimer's Like Pathology in Mice Brain. <i>Cells</i> , 2020, 9, 249.	1.8	21
2006	Tactics of cancer invasion: solitary and collective invasion. <i>Journal of Biochemistry</i> , 2020, 167, 347-355.	0.9	30
2007	Toxicogenomics provides insights to toxicity pathways of neonicotinoids to aquatic insect, <i>Chironomus dilutus</i> . <i>Environmental Pollution</i> , 2020, 260, 114011.	3.7	34
2008	Indirect effect of different dietary protein to energy ratio of bait fish mori diets on growth performance, body composition, nitrogen metabolism and relative AMPK & mTOR pathway gene expression of Chinese perch. <i>Aquaculture Reports</i> , 2020, 16, 100276.	0.7	9
2009	Metformin as Potential Therapy for High-Grade Glioma. <i>Cancers</i> , 2020, 12, 210.	1.7	52
2010	Dietary Silk Peptide Prevents High-Fat Diet-Induced Obesity and Promotes Adipose Browning by Activating AMP-Activated Protein Kinase in Mice. <i>Nutrients</i> , 2020, 12, 201.	1.7	18
2011	Retrograde signaling mediates an adaptive survival response to endoplasmic reticulum stress. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	13
2012	Adenosine Suppresses Cholangiocarcinoma Cell Growth and Invasion in Equilibrative Nucleoside Transporters-Dependent Pathway. <i>International Journal of Molecular Sciences</i> , 2020, 21, 814.	1.8	6
2013	An AMPK-caspase-6 axis controls liver damage in nonalcoholic steatohepatitis. <i>Science</i> , 2020, 367, 652-660.	6.0	183
2014	Lower Body Weight in Rats Under Hypobaric Hypoxia Exposure Would Lead to Reduced Right Ventricular Hypertrophy and Increased AMPK Activation. <i>Frontiers in Physiology</i> , 2020, 11, 342.	1.3	5
2015	Mechanisms of Lifespan Regulation by Calorie Restriction and Intermittent Fasting in Model Organisms. <i>Nutrients</i> , 2020, 12, 1194.	1.7	99
2016	Tetrahydroxy stilbene glycoside alleviated inflammatory damage by mitophagy via AMPK related PINK1/Parkin signaling pathway. <i>Biochemical Pharmacology</i> , 2020, 177, 113997.	2.0	29
2017	How does mTOR sense glucose starvation? AMPK is the usual suspect. <i>Cell Death Discovery</i> , 2020, 6, 27.	2.0	53
2018	Partial impairment of insulin receptor expression mimics fasting to prevent diet-induced fatty liver disease. <i>Nature Communications</i> , 2020, 11, 2080.	5.8	13
2019	Superior hypoglycemic activity of mulberry lacking monosaccharides is accompanied by better activation of the PI3K/Akt and AMPK signaling pathways. <i>Food and Function</i> , 2020, 11, 4249-4258.	2.1	13
2020	Cell Intrinsic and Systemic Metabolism in Tumor Immunity and Immunotherapy. <i>Cancers</i> , 2020, 12, 852.	1.7	19

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2021	Humanin attenuates palmitate-induced hepatic lipid accumulation and insulin resistance via AMPK-mediated suppression of the mTOR pathway. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 539-545.	1.0	24
2022	The AMPK-PP2A axis in insect fat body is activated by 20-hydroxyecdysone to antagonize insulin/IGF signaling and restrict growth rate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9292-9301.	3.3	42
2023	Molecular and functional characterization of <i>Raptor</i> in mTOR pathway from <i>Litopenaeus vannamei</i> . <i>Aquaculture Research</i> , 2020, 51, 2179-2189.	0.9	3
2024	MicroRNA-889 Inhibits Autophagy To Maintain Mycobacterial Survival in Patients with Latent Tuberculosis Infection by Targeting TWEAK. <i>MBio</i> , 2020, 11, .	1.8	32
2025	Metformin and Its Benefits for Various Diseases. <i>Frontiers in Endocrinology</i> , 2020, 11, 191.	1.5	240
2026	Corosolic Acid Attenuates Hepatic Lipid Accumulation and Inflammatory Response via AMPK/SREBPs and NF- κ B/MAPK Signaling Pathways. <i>The American Journal of Chinese Medicine</i> , 2020, 48, 579-595.	1.5	12
2027	Transcriptomic analysis reveals common pathways and biomarkers associated with oxidative damage caused by mitochondrial toxicants in <i>Chironomus dilutus</i> . <i>Chemosphere</i> , 2020, 254, 126746.	4.2	2
2028	Inhibition of autophagy sensitizes lignan-induced endoplasmic reticulum stress-mediated cell death. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 300-305.	1.0	9
2029	Loss of AMPKalpha1 Triggers Centrosome Amplification via PLK4 Upregulation in Mouse Embryonic Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2772.	1.8	1
2030	Substituted oxindol-3-ylidenes as AMP-activated protein kinase (AMPK) inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2020, 197, 112316.	2.6	13
2031	Steaming Changes the Composition of Saponins of <i>Panax notoginseng</i> (Burk.) F.H. Chen That Function in Treatment of Hyperlipidemia and Obesity. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4865-4875.	2.4	23
2032	Loss of AKAP1 triggers Drp1 dephosphorylation-mediated mitochondrial fission and loss in retinal ganglion cells. <i>Cell Death and Disease</i> , 2020, 11, 254.	2.7	25
2033	Metformin arrests the progression of established kidney disease in the subtotal nephrectomy model of chronic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F1229-F1236.	1.3	20
2034	The Long Noncoding RNA Hotair Regulates Oxidative Stress and Cardiac Myocyte Apoptosis during Ischemia-Reperfusion Injury. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-19.	1.9	28
2035	Aspirin Improves Nonalcoholic Fatty Liver Disease and Atherosclerosis through Regulation of the PPAR γ -AMPK-PGC-1 α Pathway in Dyslipidemic Conditions. <i>BioMed Research International</i> , 2020, 2020, 1-17.	0.9	20
2036	H2A Monoubiquitination Links Glucose Availability to Epigenetic Regulation of the Endoplasmic Reticulum Stress Response and Cancer Cell Death. <i>Cancer Research</i> , 2020, 80, 2243-2256.	0.4	21
2037	Role of Impaired Nutrient and Oxygen Deprivation Signaling and Deficient Autophagic Flux in Diabetic CKD Development: Implications for Understanding the Effects of Sodium-Glucose Cotransporter 2-Inhibitors. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 907-919.	3.0	81
2038	Decreased Metabolic Flexibility in Skeletal Muscle of Rat Fed with a High-Fat Diet Is Recovered by Individual CLA Isomer Supplementation via Converging Protective Mechanisms. <i>Cells</i> , 2020, 9, 823.	1.8	16

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2039	Molecular Chaperones in Cancer Stem Cells: Determinants of Stemness and Potential Targets for Antitumor Therapy. <i>Cells</i> , 2020, 9, 892.	1.8	76
2040	Gomisin N from <i>Schisandra chinensis</i> Ameliorates Lipid Accumulation and Induces a Brown Fat-Like Phenotype through AMP-Activated Protein Kinase in 3T3-L1 Adipocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2153.	1.8	13
2041	The Role of Reactive Oxygen Species in the Life Cycle of the Mitochondrion. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2173.	1.8	66
2042	Activation of AMPK under Hypoxia: Many Roads Leading to Rome. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2428.	1.8	76
2043	Potential use of C-phycoerythrin in non-alcoholic fatty liver disease. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 906-912.	1.0	14
2044	The AMPK-MFN2 axis regulates MAM dynamics and autophagy induced by energy stresses. <i>Autophagy</i> , 2021, 17, 1142-1156.	4.3	126
2045	Induction of autophagy and suppression of type I IFN secretion by CSFV. <i>Autophagy</i> , 2021, 17, 925-947.	4.3	39
2046	Regulation of Adipocyte and Macrophage Functions by mTORC1 and 2 in Metabolic Diseases. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e1900768.	1.5	25
2047	Does mTORC1 inhibit autophagy at dual stages?. <i>BioEssays</i> , 2021, 43, 2000187.	1.2	1
2048	AMPK activator C24 inhibits hepatic lipogenesis and ameliorates dyslipidemia in HFHC diet-induced animal models. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 585-592.	2.8	13
2049	Astilbin lowers the effective caffeine dose for decreasing lipid accumulation via activating <sc>AMPK</sc> in high-fat diet-induced obese mice. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 573-581.	1.7	8
2050	Mechanisms dissection of the combination GRS derived from ShengMai preparations for the treatment of myocardial ischemia/reperfusion injury. <i>Journal of Ethnopharmacology</i> , 2021, 264, 113381.	2.0	10
2051	Nervous necrosis virus induced oxidative imbalance and host associated antioxidant response in Asian seabass brain. <i>Aquaculture</i> , 2021, 531, 735809.	1.7	0
2052	Identification, characterization, and expression profiles of insulin-like peptides suggest their critical roles in growth regulation of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Gene</i> , 2021, 769, 145244.	1.0	17
2053	Hypoglycemia increases endothelial-dependent vasodilation through suppressing phosphorylation at Threonine 495/497 site of endothelial nitric oxide synthase. <i>Microvascular Research</i> , 2021, 133, 104075.	1.1	6
2054	A new imidazolium/sulfonamide linked ferrocene-dansyl dyad for dual-channel recognition of anion. <i>Inorganica Chimica Acta</i> , 2021, 514, 120026.	1.2	4
2055	Salsalate reverses metabolic disorders in a mouse model of non-alcoholic fatty liver disease through AMPK activation and caspase-6 activity inhibition. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2021, 128, 394-409.	1.2	7
2056	Understanding the possible role of endocannabinoid system in obesity. <i>Prostaglandins and Other Lipid Mediators</i> , 2021, 152, 106520.	1.0	22

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2057	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 914-926.	0.9	32
2058	Nutritional control of postembryonic development progression and arrest in <i>Caenorhabditis elegans</i> . <i>Advances in Genetics</i> , 2021, 107, 33-87.	0.8	5
2059	NAD ⁺ depletion radiosensitizes 2-DG-treated glioma cells by abolishing metabolic adaptation. <i>Free Radical Biology and Medicine</i> , 2021, 162, 514-522.	1.3	6
2060	Genistein activated adenosine 5'-monophosphate-activated protein kinase-sirtuin1/peroxisome proliferator-activated receptor β coactivator-1 pathway potentially through adiponectin and estrogen receptor β signaling to suppress fat deposition in broiler chickens. <i>Poultry Science</i> , 2021, 100, 246-255.	1.5	14
2061	Metformin as a potential therapeutic for neurological disease: mobilizing AMPK to repair the nervous system. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 45-63.	1.4	51
2062	Retinoic Acid Synthesis Deficiency Fosters the Generation of Polymorphonuclear Myeloid-Derived Suppressor Cells in Colorectal Cancer. <i>Cancer Immunology Research</i> , 2021, 9, 20-33.	1.6	15
2063	AMP-activated protein kinase regulates β -catenin protein synthesis by phosphorylating serine/arginine-rich splicing factor 9. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 347-352.	1.0	2
2064	Kanglexin, a new anthraquinone compound, attenuates lipid accumulation by activating the AMPK/SREBP-2/PCSK9/LDLR signalling pathway. <i>Biomedicine and Pharmacotherapy</i> , 2021, 133, 110802.	2.5	22
2065	Peroxisome proliferator-activated receptors in the pathogenesis and therapies of liver fibrosis. , 2021, 222, 107791.		37
2066	The bile acid induced hepatokine orosomucoid suppresses adipocyte differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 864-870.	1.0	6
2067	Ascorbate kills breast cancer cells by rewiring metabolism via redox imbalance and energy crisis. <i>Free Radical Biology and Medicine</i> , 2021, 163, 196-209.	1.3	22
2068	Development and Therapeutic Potential of NUAAs Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2-25.	2.9	14
2069	(-)-Epicatechin induces mitochondrial biogenesis and markers of muscle regeneration in adults with Becker muscular dystrophy. <i>Muscle and Nerve</i> , 2021, 63, 239-249.	1.0	30
2070	Energy expenditure during cell spreading influences the cellular response to matrix stiffness. <i>Biomaterials</i> , 2021, 267, 120494.	5.7	38
2071	Caloric restriction mimetics for the treatment of cardiovascular diseases. <i>Cardiovascular Research</i> , 2021, 117, 1434-1449.	1.8	27
2072	LncRNA-mediated posttranslational modifications and reprogramming of energy metabolism in cancer. <i>Cancer Communications</i> , 2021, 41, 109-120.	3.7	271
2073	Reproductive senescence and energetic metabolism of human luteinized granulosa cells: is it all about ATP? A prospective cohort and critical view. <i>Gynecological Endocrinology</i> , 2021, 37, 523-527.	0.7	1
2074	Discovery and preclinical efficacy of HSC4112, a synthetic structural analog of glabridin, for the treatment of obesity. <i>International Journal of Obesity</i> , 2021, 45, 130-142.	1.6	15

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2076	Reduced Neurog3 Gene Dosage Shifts Enteroendocrine Progenitor Towards Goblet Cell Lineage in the Mouse Intestine. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 433-448.	2.3	12
2077	The Role of the Eukaryotic Elongation Factor 2 (eEF2) Pathway in Neuronal Function. , 0, , 63-80.		0
2078	Supplementation with embryo chicken egg extract improves exercise performance and exerts anti-fatigue effects via AMPK / mTOR signalling pathway in mice. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 1411-1418.	1.7	4
2079	Effects of resveratrol on mitochondrial biogenesis and physiological diseases. <i>Advances in Traditional Medicine</i> , 2021, 21, 1-14.	1.0	5
2080	Overexpression of Activated AMPK in the <i>Anopheles stephensi</i> Midgut Impacts Mosquito Metabolism, Reproduction and Plasmodium Resistance. <i>Genes</i> , 2021, 12, 119.	1.0	6
2081	Sirtuin 1 mediates hepatoprotective effects of resveratrol-like compounds in experimental liver injury. , 2021, , 295-308.		0
2082	A Fbxo48 inhibitor prevents pAMPK $\hat{+}$ degradation and ameliorates insulin resistance. <i>Nature Chemical Biology</i> , 2021, 17, 298-306.	3.9	16
2083	Combined Effects of Methoprene and Metformin on Reproduction, Longevity, and Stress Resistance in <i>Anastrepha ludens</i> (Diptera: Tephritidae): Implications for the Sterile Insect Technique. <i>Journal of Economic Entomology</i> , 2021, 114, 142-151.	0.8	7
2084	The Fatty Acid Lipid Metabolism Nexus in COVID-19. <i>Viruses</i> , 2021, 13, 90.	1.5	56
2085	Complementary transcriptomic and proteomic analyses reveal the cellular and molecular processes that drive growth and development of <i>Fasciola hepatica</i> in the host liver. <i>BMC Genomics</i> , 2021, 22, 46.	1.2	28
2086	DNA nanolantern-based split aptamer probes for <i>in situ</i> ATP imaging in living cells and lighting up mitochondria. <i>Analyst</i> , The, 2021, 146, 2600-2608.	1.7	10
2087	Curcumin reduced fat accumulation in <i>Caenorhabditis elegans</i> . <i>Current Research in Food Science</i> , 2021, 4, 551-556.	2.7	8
2088	Improvement Effect of Metformin on Female and Male Reproduction in Endocrine Pathologies and Its Mechanisms. <i>Pharmaceuticals</i> , 2021, 14, 42.	1.7	33
2089	Standardized hot water extract from the leaves of <i>Hydrangea serrata</i> (Thunb.) Ser. alleviates obesity <i>via</i> the AMPK pathway and modulation of the gut microbiota composition in high fat diet-induced obese mice. <i>Food and Function</i> , 2021, 12, 2672-2685.	2.1	12
2090	Therapeutic inhibition of miR-802 protects against obesity through AMPK-mediated regulation of hepatic lipid metabolism. <i>Theranostics</i> , 2021, 11, 1079-1099.	4.6	20
2091	Mitochondria Homeostasis and Oxidant/Antioxidant Balance in Skeletal Muscle—Do Myokines Play a Role?. <i>Antioxidants</i> , 2021, 10, 179.	2.2	15
2092	Mesenchymal stem cell-derived extracellular vesicles promote microglial M2 polarization after subarachnoid hemorrhage in rats and involve the AMPK/NF- $\hat{+}$ B signaling pathway. <i>Biomedicine and Pharmacotherapy</i> , 2021, 133, 111048.	2.5	33

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2093	Protein expression alteration in hippocampus upon genetic repression of α -AMPK isoforms. <i>Hippocampus</i> , 2021, 31, 353-361.	0.9	2
2094	Effect of hypoxia on proliferation and glucocorticoid resistance of T-cell acute lymphoblastic leukaemia. <i>Hematology</i> , 2021, 26, 775-784.	0.7	0
2095	Radix Puerarin Extract (Puerarin) Could Improve Meat Quality of Heat-Stressed Beef Cattle Through Changing Muscle Antioxidant Ability and Fiber Characteristics. <i>Frontiers in Veterinary Science</i> , 2020, 7, 615086.	0.9	9
2096	Effects of Chinese wolfberry and Astragalus extract on the antioxidant capacity of Tibetan pig liver. <i>PLoS ONE</i> , 2021, 16, e0245749.	1.1	7
2097	High altitude regulates the expression of AMPK pathways in human placenta. <i>Placenta</i> , 2021, 104, 267-276.	0.7	8
2098	Intrinsic Mechanisms Regulating Neuronal Migration in the Postnatal Brain. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 620379.	1.8	23
2099	Plant sterol ester of α -linolenic acid ameliorates high-fat diet-induced nonalcoholic fatty liver disease in mice: association with regulating mitochondrial dysfunction and oxidative stress via activating AMPK signaling. <i>Food and Function</i> , 2021, 12, 2171-2188.	2.1	21
2100	Critical roles of FTO-mediated mRNA m6A demethylation in regulating adipogenesis and lipid metabolism: Implications in lipid metabolic disorders. <i>Genes and Diseases</i> , 2022, 9, 51-61.	1.5	59
2101	Metformin-Induced MicroRNA-34a-3p Downregulation Alleviates Senescence in Human Dental Pulp Stem Cells by Targeting CAB39 through the AMPK/mTOR Signaling Pathway. <i>Stem Cells International</i> , 2021, 2021, 1-13.	1.2	23
2102	Mg ²⁺ Transporters in Digestive Cancers. <i>Nutrients</i> , 2021, 13, 210.	1.7	16
2103	Mitochondrial Ca ²⁺ and cell cycle regulation. <i>International Review of Cell and Molecular Biology</i> , 2021, 362, 171-207.	1.6	10
2104	Resveratrol and brain mitochondria. , 2021, , 645-687.		0
2105	Metabolic aspects of canonical versus noncanonical autophagy. , 2021, , 133-165.		0
2106	Effects of Nutrition on Pubertal Timing at the Neuroendocrine and Cellular Levels. , 2021, , 183-202.		0
2107	Amino Acids in Cell Signaling: Regulation and Function. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1332, 17-33.	0.8	10
2108	Metabolic Contributions to Anoikis-Resistance in Metastatic Dissemination. , 2021, , 1-16.		0
2109	CTRP13 Protects H9c2 Cells Against Hypoxia/Reoxygenation (H/R)-Induced Injury Via Regulating the AMPK/Nrf2/ARE Signaling Pathway. <i>Cell Transplantation</i> , 2021, 30, 096368972110332.	1.2	12
2110	Targeting TRPV1-mediated autophagy attenuates nitrogen mustard-induced dermal toxicity. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 29.	7.1	20

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2111	Heterozygous P32/C1QBP/HABP1 Polymorphism rs56014026 Reduces Mitochondrial Oxidative Phosphorylation and Is Expressed in Low-grade Colorectal Carcinomas. <i>Frontiers in Oncology</i> , 2020, 10, 631592.	1.3	4
2112	The Role of mTOR Signaling as a Therapeutic Target in Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1743.	1.8	128
2113	Effects of Long-Term DHA Supplementation and Physical Exercise on Non-Alcoholic Fatty Liver Development in Obese Aged Female Mice. <i>Nutrients</i> , 2021, 13, 501.	1.7	18
2114	One Bout of Aerobic Exercise Can Enhance the Expression of Nr1d1 in Oxidative Skeletal Muscle Samples. <i>Frontiers in Physiology</i> , 2021, 12, 626096.	1.3	6
2115	Antiobesity Effect of a Novel Herbal Formulation LI85008F in High-Fat Diet-Induced Obese Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-8.	0.5	2
2116	The role and mechanism of mitochondrial functions and energy metabolism in the function regulation of the mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 140.	2.4	53
2117	Comprehensive landscape and future perspectives of circular RNAs in colorectal cancer. <i>Molecular Cancer</i> , 2021, 20, 26.	7.9	91
2118	Constitutive Androstane Receptor-Mediated Inhibition of Metformin on Phase II Metabolic Enzyme SULT2A1. <i>International Journal of Endocrinology</i> , 2021, 2021, 1-10.	0.6	2
2119	Cutting edge: Metabolic immune reprogramming, reactive oxygen species, and cancer. <i>Journal of Cellular Physiology</i> , 2021, 236, 6168-6189.	2.0	8
2120	HDAC11 Regulates Glycolysis through the LKB1/AMPK Signaling Pathway to Maintain Hepatocellular Carcinoma Stemness. <i>Cancer Research</i> , 2021, 81, 2015-2028.	0.4	60
2121	20(s)-ginsenoside-Rg3 modulation of AMPK/FoxO3 signaling to attenuate mitochondrial dysfunction in a dexamethasone-injured C2C12 myotube-based model of skeletal atrophy <i>in vitro</i> . <i>Molecular Medicine Reports</i> , 2021, 23, .	1.1	6
2122	Quantitative proteomic comparison of protein differences in different parts of yak meat. <i>Food Science and Technology</i> , 0, 42, .	0.8	1
2123	Evidence and manipulation of O-GlcNAcylation in granulosa cells of bovine antral follicles. <i>Biology of Reproduction</i> , 2021, 104, 914-923.	1.2	5
2124	Ipragliflozin, an SGLT2 Inhibitor, Ameliorates High-Fat Diet-Induced Metabolic Changes by Upregulating Energy Expenditure through Activation of the AMPK/ SIRT1 Pathway. <i>Diabetes and Metabolism Journal</i> , 2021, 45, 921-932.	1.8	21
2125	TFEB Biology and Agonists at a Glance. <i>Cells</i> , 2021, 10, 333.	1.8	38
2126	Bariatric surgery can acutely modulate ER-stress and inflammation on subcutaneous adipose tissue in non-diabetic patients with obesity. <i>Diabetology and Metabolic Syndrome</i> , 2021, 13, 19.	1.2	19
2127	Cardiometabolism as an Interlocking Puzzle between the Healthy and Diseased Heart: New Frontiers in Therapeutic Applications. <i>Journal of Clinical Medicine</i> , 2021, 10, 721.	1.0	19
2128	Cancer metabolism and intervention therapy. <i>Molecular Biomedicine</i> , 2021, 2, 5.	1.7	20

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