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The AMP-activated protein kinase pathway--new players upstream and downstream

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990	Deficiency of LKB1 in skeletal muscle prevents AMPK activation and glucose uptake during contraction. 2005 , 24, 1810-20		436
989	New roles for the LKB1-->AMPK pathway. 2005 , 17, 167-73		223
988	The expanding TOR signaling network. 2005 , 17, 158-66		436
987	Receptor-independent actions of PPAR thiazolidinedione agonists: is mitochondrial function the key?. 2005 , 70, 177-88		233
986	Neurodegenerative mutants in Drosophila: a means to identify genes and mechanisms involved in human diseases?. 2005 , 5, 97-109		25
985	AMP-Activated Protein Kinase as a Potential Anti-Diabetes Drug Target. 2005 , 5, 451-457		
984	Moderate-to-severe ischemic conditions increase activity and phosphorylation of the cerebral microvascular endothelial cell Na ⁺ -K ⁺ -Cl ⁻ cotransporter. 2005 , 289, C1492-501		65
983	Long-chain acyl-CoA esters inhibit phosphorylation of AMP-activated protein kinase at threonine-172 by LKB1/STRAD/MO25. 2005 , 288, E1055-61		49
982	Nutritional status, cognition, and survival: a new role for leptin and AMP kinase. 2005 , 280, 42142-8		83
981	Function of mammalian LKB1 and Ca ²⁺ /calmodulin-dependent protein kinase kinase alpha as Snf1-activating kinases in yeast. 2005 , 280, 21804-9		99
980	Cannabinoids and ghrelin have both central and peripheral metabolic and cardiac effects via AMP-activated protein kinase. 2005 , 280, 25196-201		361
979	A GTP:AMP phosphotransferase, Adk2p, in <i>Saccharomyces cerevisiae</i> . Role of the C terminus in protein folding/stabilization, thermal tolerance, and enzymatic activity. 2005 , 280, 18604-9		5
978	The stress-induced proteins RTP801 and RTP801L are negative regulators of the mammalian target of rapamycin pathway. 2005 , 280, 9769-72		188
977	Regulation of mTOR and cell growth in response to energy stress by REDD1. 2005 , 25, 5834-45		353

976	Glucose Transport Regulators. 2005 , 5, 519-527		3
975	AMP-activated protein kinase alpha2 activity is not essential for contraction- and hyperosmolarity-induced glucose transport in skeletal muscle. 2005 , 280, 39033-41		143
974	GLUT8 subcellular localization and absence of translocation to the plasma membrane in PC12 cells and hippocampal neurons. 2005 , 146, 4727-36		22
973	14-3-3 cooperates with LKB1 to regulate the activity and localization of QSK and SIK. <i>Journal of Cell Science</i> , 2005 , 118, 5661-73	5-3	85
972	Fatal congenital heart glycogenosis caused by a recurrent activating R531Q mutation in the gamma 2-subunit of AMP-activated protein kinase (PRKAG2), not by phosphorylase kinase deficiency. 2005 , 76, 1034-49		123
971	Does AMP-activated protein kinase couple inhibition of mitochondrial oxidative phosphorylation by hypoxia to calcium signaling in O ₂ -sensing cells?. 2005 , 280, 41504-11		139
970	Effects of dietary lipoic acid on glycolysis of postmortem muscle. 2005 , 71, 306-11		18
969	Combination of 5-fluorouracil and genistein induces apoptosis synergistically in chemo-resistant cancer cells through the modulation of AMPK and COX-2 signaling pathways. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 332, 433-40	3-4	153
968	Polyunsaturated fatty acids do not activate AMP-activated protein kinase in mouse tissues. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 332, 892-6	3-4	25
967	AMP-activated protein kinase: ancient energy gauge provides clues to modern understanding of metabolism. 2005 , 1, 15-25		2257
966	Calmodulin-dependent protein kinase kinase-beta is an alternative upstream kinase for AMP-activated protein kinase. 2005 , 2, 9-19		1245
965	Mitochondrial regulation of cell cycle progression during development as revealed by the tenured mutation in <i>Drosophila</i> . 2005 , 9, 843-54		221
964	Identification of the sucrose non-fermenting related kinase SNRK, as a novel LKB1 substrate. 2005 , 579, 1417-23		115
963	Role of the PDK1-PKB-GSK3 pathway in regulating glycogen synthase and glucose uptake in the heart. 2005 , 579, 3632-8		66
962	Regulation of fatty acid uptake and metabolism in L6 skeletal muscle cells by resistin. 2005 , 579, 5049-54		73
961	Involvement of AMP-activated protein kinase in fat depot-specific metabolic changes during starvation. 2005 , 579, 6105-10		36
960	Brain, appetite and obesity. 2005 , 85, 1-2		14
959	AMPK is a pivotal rheostat in the control of cardiac metabolism. 2005 , 2, 93-100		1

958	AMP-activated protein kinase and malonyl-CoA: Targets for treating insulin resistance?. 2005 , 2, 157-163	14
957	The Vascular Endothelium II. 2006 ,	4
956	Folliculin encoded by the BHD gene interacts with a binding protein, FNIP1, and AMPK, and is involved in AMPK and mTOR signaling. 2006 , 103, 15552-7	367
955	Role of insulin, adipocyte hormones, and nutrient-sensing pathways in regulating fuel metabolism and energy homeostasis: a nutritional perspective of diabetes, obesity, and cancer. 2006 , 2006, re7	140
954	AMPK: a key sensor of fuel and energy status in skeletal muscle. 2006 , 21, 48-60	364
953	LKB1-dependent signaling pathways. 2006 , 75, 137-63	614
952	Endothelial cell senescence. 2006 , 213-48	37
951	Effects of dietary herring roe lipids on plasma lipid, glucose, insulin, and adiponectin concentrations in mice. 2006 , 54, 3750-5	21
950	Mitochondrial DNA mutations, energy metabolism and apoptosis in aging muscle. 2006 , 5, 179-95	127
949	Characterization of the AMP-activated protein kinase pathway in chickens. 2006 , 143, 92-106	68
948	Fenofibrate activates AMPK and increases eNOS phosphorylation in HUVEC. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 341, 973-8	3-4 73
947	AMPK activation inhibits the expression of HIF-1alpha induced by insulin and IGF-1. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 342, 1197-202	3-4 47
946	Adiponectin mediates antiproliferative and apoptotic responses in human MCF7 breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 345, 271-9	3-4 281
945	BRSK2 is activated by cyclic AMP-dependent protein kinase A through phosphorylation at Thr260. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 347, 867-71	3-4 13
944	AMP-activated protein kinase regulates PEPCK gene expression by direct phosphorylation of a novel zinc finger transcription factor. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 793-9	3-4 35
943	Role of adipokines in the control of energy metabolism: focus on adiponectin. 2006 , 6, 580-5	70
942	AMPK regulation of mouse oocyte meiotic resumption in vitro. 2006 , 291, 227-38	81
941	Expanding role of AMPK in endocrinology. 2006 , 17, 205-15	159

940	Adaptive cellular mechanisms in response to glutamine-starvation. 2006 , 11, 3199-211	16
939	The ubiquitin-associated domain of AMPK-related kinases regulates conformation and LKB1-mediated phosphorylation and activation. 2006 , 394, 545-55	80
938	"Nutritional and chemopreventive anti-cancer agents up-regulate expression of p27Kip1, a cyclin-dependent kinase inhibitor, in mouse JB6 epidermal and human MCF7, MDA-MB-321 and AU565 breast cancer cells". 2006 , 6, 20	28
937	Symposium Session Summaries. 2006 , 41, 93-208	
936	Aging networks in Caenorhabditis elegans: AMP-activated protein kinase (aak-2) links multiple aging and metabolism pathways. 2006 , 5, 119-26	161
935	Metabolic control of mitochondrial properties by adenine nucleotide translocator determines palmitoyl-CoA effects. Implications for a mechanism linking obesity and type 2 diabetes. 2006 , 273, 5288-302	42
934	Cell biology of the ghrelin receptor. 2006 , 18, 65-76	104
933	Did a muscle fuel gauge conquer the brain?. 2006 , 12, 50-1; discussion 51	9
932	Central nervous system regulation of food intake. 2006 , 14 Suppl 1, 1S-8S	102
931	A keratin cytoskeletal protein regulates protein synthesis and epithelial cell growth. 2006 , 441, 362-5	357
930	Upstream of the mammalian target of rapamycin: do all roads pass through mTOR?. 2006 , 25, 6347-60	327
929	Stress and mTORture signaling. 2006 , 25, 6373-83	285
928	AMPK and cell proliferation--AMPK as a therapeutic target for atherosclerosis and cancer. 2006 , 574, 63-71	401
927	Activation of AMP-activated protein kinase in the liver: a new strategy for the management of metabolic hepatic disorders. 2006 , 574, 41-53	394
926	Developing a head for energy sensing: AMP-activated protein kinase as a multifunctional metabolic sensor in the brain. 2006 , 574, 85-93	125
925	Regulatory role for the arginine-nitric oxide pathway in metabolism of energy substrates. 2006 , 17, 571-88	494
924	Differential modulation of AMPK signaling pathways by low or high levels of exogenous reactive oxygen species in colon cancer cells. 2006 , 1091, 102-9	60
923	alpha-lipoic acid regulates AMP-activated protein kinase and inhibits insulin secretion from beta cells. 2006 , 49, 1587-98	56

922	AMP-activated protein kinase (AMPK) activating agents cause dephosphorylation of Akt and glycogen synthase kinase-3. 2006 , 71, 1637-47	104
921	Chutes and Ladders: the search for protein kinases that act on AMPK. 2006 , 31, 13-6	102
920	Of bears, frogs, meat, mice and men: complexity of factors affecting skeletal muscle mass and fat. 2006 , 28, 994-1009	74
919	Stearoyl-CoA desaturase: a new therapeutic target of liver steatosis. 2006 , 67, 643-650	17
918	SWI/SNF: the crossroads where extracellular signaling pathways meet chromatin. 2006 , 207, 309-14	81
917	Recent advances in obesity: adiposity signaling and fat metabolism in energy homeostasis. 2006 , 27, 1-23	2
916	Mechanisms involved in the nutritional regulation of mRNA translation: features of the avian model. 2006 , 19, 104-16	17
915	Expression of uncoupling protein 3 and GLUT4 gene in skeletal muscle of preterm newborns: possible control by AMP-activated protein kinase. 2006 , 60, 569-75	10
914	Liver adenosine monophosphate-activated kinase-alpha2 catalytic subunit is a key target for the control of hepatic glucose production by adiponectin and leptin but not insulin. 2006 , 147, 2432-41	190
913	AMP-activated kinase inhibits the epithelial Na ⁺ channel through functional regulation of the ubiquitin ligase Nedd4-2. 2006 , 281, 26159-69	122
912	AMPK-mediated AS160 phosphorylation in skeletal muscle is dependent on AMPK catalytic and regulatory subunits. 2006 , 55, 2051-8	215
911	Selenium regulates cyclooxygenase-2 and extracellular signal-regulated kinase signaling pathways by activating AMP-activated protein kinase in colon cancer cells. 2006 , 66, 10057-63	84
910	Different metabolic responses to central and peripheral injection of enterostatin. 2006 , 290, R909-15	12
909	Critical role for mitochondrial oxidative phosphorylation in the activation of tumor suppressors Bax and Bak. 2006 , 98, 1462-73	81
908	Deficiency of LKB1 in heart prevents ischemia-mediated activation of AMPKalpha2 but not AMPKalpha1. 2006 , 290, E780-8	171
907	Time course changes in signaling pathways and protein synthesis in C2C12 myotubes following AMPK activation by AICAR. 2006 , 291, E80-9	75
906	Role of the alpha2-isoform of AMP-activated protein kinase in the metabolic response of the heart to no-flow ischemia. 2006 , 291, H2875-83	71
905	AMPK activation restores the stimulation of glucose uptake in an in vitro model of insulin-resistant cardiomyocytes via the activation of protein kinase B. 2006 , 291, H239-50	109

904	mRNA translation: unexplored territory in renal science. 2006 , 17, 3281-92	54
903	Up-regulation of AMP-activated kinase by dysfunctional cystic fibrosis transmembrane conductance regulator in cystic fibrosis airway epithelial cells mitigates excessive inflammation. 2006 , 281, 4231-41	57
902	AMP-activated protein kinase activation by adrenoceptors in L6 skeletal muscle cells: mediation by alpha1-adrenoceptors causing glucose uptake. 2006 , 55, 682-90	64
901	AMP-activated protein kinase and the regulation of autophagic proteolysis. 2006 , 281, 34870-9	354
900	AKINbetagamma contributes to SnRK1 heterotrimeric complexes and interacts with two proteins implicated in plant pathogen resistance through its KIS/GBD sequence. 2006 , 142, 931-44	65
899	Subunits of the Snf1 kinase heterotrimer show interdependence for association and activity. 2006 , 281, 26170-80	28
898	Activation of AMP-activated protein kinase within the ventromedial hypothalamus amplifies counterregulatory hormone responses in rats with defective counterregulation. 2006 , 55, 1755-60	92
897	The Diabetic Kidney. 2006 ,	1
896	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca ²⁺ in T lymphocytes. 2006 , 203, 1665-70	266
895	Activation of protein kinase C zeta by peroxynitrite regulates LKB1-dependent AMP-activated protein kinase in cultured endothelial cells. 2006 , 281, 6366-75	155
894	Reactive lipid species from cyclooxygenase-2 inactivate tumor suppressor LKB1/STK11: cyclopentenone prostaglandins and 4-hydroxy-2-nonenal covalently modify and inhibit the AMP-kinase kinase that modulates cellular energy homeostasis and protein translation. 2006 , 281, 2598-604	52
893	Inhibition of gluconeogenesis through transcriptional activation of EGR1 and DUSP4 by AMP-activated kinase. 2006 , 281, 27167-77	66
892	Opposite transcriptional regulation in skeletal muscle of AMP-activated protein kinase gamma3 R225Q transgenic versus knock-out mice. 2006 , 281, 7244-52	43
891	Skeletal muscle AMP kinase as a target to prevent pathogenesis of Type 2 diabetes. 2007 , 2, 477-485	1
890	AMP-activated protein kinase and autophagy. 2007 , 3, 238-40	131
889	Defective metabolic signaling in adenylate kinase AK1 gene knock-out hearts compromises post-ischemic coronary reflow. 2007 , 282, 31366-72	37
888	AMP-activated protein kinase impairs endothelial actin cytoskeleton assembly by phosphorylating vasodilator-stimulated phosphoprotein. 2007 , 282, 4601-4612	82
887	Regulation of snf1 protein kinase in response to environmental stress. 2007 , 282, 16838-45	132

886	Cannabinoids ameliorate cerebral dysfunction following liver failure via AMP-activated protein kinase. 2007 , 21, 2431-41		34
885	Enhanced polyamine catabolism alters homeostatic control of white adipose tissue mass, energy expenditure, and glucose metabolism. 2007 , 27, 4953-67		96
884	Hypoxia induces expression and activation of AMPK in rat dental pulp cells. 2007 , 86, 903-7		27
883	A role for AMP-activated protein kinase in diabetes-induced renal hypertrophy. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 292, F617-27	4-3	231
882	Potential of insulin-stimulated glucose transport by the AMP-activated protein kinase. 2007 , 292, C564-72		39
881	Lipotoxic and inflammatory phenotypes in rats with uncontrolled metabolic syndrome and nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 293, F670-9	4-3	35
880	Relationship between mitochondrial electron transport chain dysfunction, development, and life extension in <i>Caenorhabditis elegans</i> . 2007 , 5, e259		288
879	Shear stress-induced activation of the AMP-activated protein kinase regulates FoxO1a and angiotensin-2 in endothelial cells. 2008 , 77, 160-8		50
878	Possible CaMKK-dependent regulation of AMPK phosphorylation and glucose uptake at the onset of mild tetanic skeletal muscle contraction. 2007 , 292, E1308-17		161
877	Dialogue between LKB1 and AMPK: a hot topic at the cellular pole. 2007 , 2007, pe51		27
876	Novel splice isoforms of STRADalpha differentially affect LKB1 activity, complex assembly and subcellular localization. 2007 , 6, 1627-31		15
875	Fatal infantile cardiac glycogenosis with phosphorylase kinase deficiency and a mutation in the gamma2-subunit of AMP-activated protein kinase. 2007 , 62, 499-504		47
874	Mitochondrial biology and disease in <i>Dictyostelium</i> . 2007 , 263, 207-52		28
873	Appetite and metabolic effects of ghrelin and cannabinoids: involvement of AMP-activated protein kinase. 2008 , 77, 121-48		24
872	Possible role of 5'AMP-activated protein kinase in the metformin-mediated arrest of bovine oocytes at the germinal vesicle stage during in vitro maturation. 2007 , 77, 452-65		60
871	The AMP-activated protein kinase activator, 5-aminoimidazole-4-carboxamide-1-beta-D-ribose nucleoside, regulates lactate production in rat Sertoli cells. 2007 , 39, 279-88		71
870	Diverse cytopathologies in mitochondrial disease are caused by AMP-activated protein kinase signaling. 2007 , 18, 1874-86		62
869	AMP-activated protein kinase mediates carotid body excitation by hypoxia. 2007 , 282, 8092-8		115

868	Effects of metformin on bovine granulosa cells steroidogenesis: possible involvement of adenosine 5' monophosphate-activated protein kinase (AMPK). 2007 , 76, 368-78	123
867	Implication of AMP-activated protein kinase and Akt-regulated survivin in lung cancer chemopreventive activities of deguelin. 2007 , 67, 11630-9	79
866	AMPK alpha subunit gene characterization in <i>Artemia</i> and expression during development and in response to stress. 2007 , 10, 53-63	21
865	Pore-forming epsilon toxin causes membrane permeabilization and rapid ATP depletion-mediated cell death in renal collecting duct cells. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 293, F927-37	68
864	Metformin inhibits mammalian target of rapamycin-dependent translation initiation in breast cancer cells. 2007 , 67, 10804-12	747
863	AMP-activated protein kinase agonists increase mRNA content of the muscle-specific ubiquitin ligases MAFbx and MuRF1 in C2C12 cells. 2007 , 292, E1555-67	102
862	Glucose regulates AMP-activated protein kinase activity and gene expression in clonal, hypothalamic neurons expressing proopiomelanocortin: additive effects of leptin or insulin. 2007 , 192, 605-14	58
861	Targeting the AKT protein kinase for cancer chemoprevention. 2007 , 6, 2139-48	134
860	Nitric oxide and mitochondrial signaling: from physiology to pathophysiology. 2007 , 27, 2524-31	258
859	Activation of AMP-activated protein kinase by human EGF receptor 2/EGF receptor tyrosine kinase inhibitor protects cardiac cells. 2007 , 104, 10607-12	99
858	Chronic hexosamine flux stimulates fatty acid oxidation by activating AMP-activated protein kinase in adipocytes. 2007 , 282, 7172-80	55
857	Adenosine 5'-monophosphate kinase-activated protein kinase (PRKA) activators delay meiotic resumption in porcine oocytes. 2007 , 76, 589-97	52
856	Inhibition of adenosine monophosphate-activated protein kinase induces apoptosis in multiple myeloma cells. 2007 , 18, 405-10	32
855	SNF1/AMPK/SnRK1 kinases, global regulators at the heart of energy control?. 2007 , 12, 20-8	257
854	Palmitate activates AMP-activated protein kinase and regulates insulin secretion from beta cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 352, 463-8	3-4 35
853	Adiponectin stimulates AMP-activated protein kinase in the hypothalamus and increases food intake. 2007 , 6, 55-68	583
852	Targeting AMP-activated protein kinase as a novel therapeutic approach for the treatment of metabolic disorders. 2007 , 33, 395-402	134
851	Compartmentalized phosphorylation of IAP by protein kinase A regulates cytoprotection. 2007 , 27, 17-28	114

850	Abscisic Acid Synthesis, Metabolism and Signal Transduction. 2007 , 1-35	1
849	Mechanisms regulating feed intake, energy expenditure, and body weight in poultry. 2007 , 86, 1478-90	153
848	AMP-activated protein kinase as a drug target. 2007 , 47, 185-210	345
847	Targeting mitochondria in the treatment of human cancer: a coordinated attack against cancer cell energy metabolism and signalling. 2007 , 11, 1055-69	24
846	New candidate targets of AMP-activated protein kinase in murine brain revealed by a novel multidimensional substrate-screen for protein kinases. 2007 , 6, 3266-77	29
845	Integration of Adenylate Kinase and Glycolytic and Glycogenolytic Circuits in Cellular Energetics. 265-301	16
844	Basic aspects of ghrelin action. 2008 , 77, 89-119	26
843	5'-AMP-activated protein kinase activation prevents postischemic leukocyte-endothelial cell adhesive interactions. 2007 , 292, H326-32	43
842	AICAR Reversed the Glucolipototoxicity Induced by Cell Dysfunction through Suppression of PPAR- α -Coactivator-1 (PGC-1) Overexpression. 2007 , 31, 310	
841	. 2007 ,	14
840	Proteomics analysis of hypothalamic response to energy restriction in dairy cows. 2007 , 7, 3602-17	32
839	The changing AMPK expression profile in differentiating mouse skeletal muscle myoblast cells helps confer increasing resistance to apoptosis. 2007 , 92, 207-17	48
838	The energy sensing LKB1-AMPK pathway regulates p27(kip1) phosphorylation mediating the decision to enter autophagy or apoptosis. 2007 , 9, 218-24	704
837	Regulation of AMP-activated protein kinase by a pseudosubstrate sequence on the gamma subunit. 2007 , 26, 806-15	41
836	Pharmacological activators of AMP-activated protein kinase have different effects on Na ⁺ transport processes across human lung epithelial cells. <i>British Journal of Pharmacology</i> , 2007 , 151, 1204-15	39
835	Genetic defects underlying Peutz-Jeghers syndrome (PJS) and exclusion of the polarity-associated MARK/Par1 gene family as potential PJS candidates. 2007 , 72, 568-73	37
834	Alcohol accelerates loss of muscle and impairs recovery of muscle mass resulting from disuse atrophy. 2008 , 32, 128-37	24
833	Mitochondrial DNA deletions induce the adenosine monophosphate-activated protein kinase energy stress pathway and result in decreased secretion of some proteins. 2007 , 6, 619-30	19

832	Adenosine uptake-dependent C6 cell growth inhibition. 2007 , 577, 35-43	16
831	p53: new roles in metabolism. 2007 , 17, 286-91	246
830	Meeting the energetic demands of insect diapause: nutrient storage and utilization. 2007 , 53, 760-73	374
829	Resveratrol induces apoptosis in chemoresistant cancer cells via modulation of AMPK signaling pathway. 2007 , 1095, 441-8	115
828	Involvement of AMPK signaling cascade in capsaicin-induced apoptosis of HT-29 colon cancer cells. 2007 , 1095, 496-503	86
827	The function study on the interaction between Grb2 and AMPK. 2008 , 307, 121-7	7
826	The moss genes PpSKI1 and PpSKI2 encode nuclear SnRK1 interacting proteins with homologues in vascular plants. 2007 , 64, 559-73	32
825	Hypoxia, glucose metabolism and the Warburg's effect. 2007 , 39, 223-9	175
824	Decreased levels of hypoxic cells in gefitinib treated ER+ HER-2 overexpressing MCF-7 breast cancer tumors are associated with hyperactivation of the mTOR pathway: therapeutic implications for combination therapy with rapamycin. 2007 , 106, 319-31	17
823	Novel mechanisms of protein synthesis in diabetic nephropathy--role of mRNA translation. 2008 , 9, 255-66	16
822	Resveratrol protects ROS-induced cell death by activating AMPK in H9c2 cardiac muscle cells. 2008 , 2, 323-6	109
821	AMP-activated protein kinase regulates lymphocyte responses to metabolic stress but is largely dispensable for immune cell development and function. 2008 , 38, 948-56	86
820	Stearoyl-CoA desaturase: A novel control point of lipid metabolism and insulin sensitivity. 2008 , 110, 93-100	20
819	Physiological glucose is critical for optimized neuronal viability and AMPK responsiveness in vitro. 2008 , 167, 292-301	47
818	Levels of plasma insulin, leptin and adiponectin, and activities of key enzymes in carbohydrate metabolism in skeletal muscle and liver in fasted ICR mice fed dietary n-3 polyunsaturated fatty acids. 2008 , 19, 577-86	32
817	Transient stress and stress enzyme responses have practical impacts on parameters of embryo development, from IVF to directed differentiation of stem cells. 2008 , 75, 689-97	24
816	The role of AMPK in psychosine mediated effects on oligodendrocytes and astrocytes: implication for Krabbe disease. 2008 , 105, 1820-33	59
815	Cloning and expression analyses of sucrose non-fermenting-1-related kinase 1 (SnRK1b) gene during development of sorghum and maize endosperm and its implicated role in sugar-to-starch metabolic transition. 2008 , 134, 161-73	21

814	Hydrogen peroxide induces expression and activation of AMP-activated protein kinase in a dental pulp cell line. 2008 , 41, 197-203	8
813	Impaired barrier function by dietary fructo-oligosaccharides (FOS) in rats is accompanied by increased colonic mitochondrial gene expression. 2008 , 9, 144	40
812	The physiological and pathophysiological role of adiponectin and adiponectin receptors in the peripheral tissues and CNS. 2008 , 582, 74-80	191
811	High molecular weight adiponectin activates AMPK and suppresses cytokine-induced NF-kappaB activation in vascular endothelial cells. 2008 , 582, 1719-24	92
810	Atherosclerosis: a redox-sensitive lipid imbalance suppressible by cyclopentenone prostaglandins. 2008 , 75, 2245-62	28
809	Signalling pathways regulating nucleo-cytoplasmic shuttling of the mRNA-binding protein HuR. 2008 , 20, 2165-73	171
808	Acute metformin therapy confers cardioprotection against myocardial infarction via AMPK-eNOS-mediated signaling. 2008 , 57, 696-705	321
807	Effects of high levels of glucose on the steroidogenesis and the expression of adiponectin receptors in rat ovarian cells. 2008 , 6, 11	37
806	Key roles for AMP-activated protein kinase in the function of the carotid body?. 2008 , 605, 63-8	5
805	Metformin therapy and clinical uses. 2008 , 5, 157-67	200
804	Integration in Respiratory Control. 2008 ,	2
803	PPARalpha activators upregulate eNOS activity and inhibit cytokine-induced NF-kappaB activation through AMP-activated protein kinase activation. 2008 , 82, 884-91	74
802	Globular adiponectin, acting via adiponectin receptor-1, inhibits leptin-stimulated oesophageal adenocarcinoma cell proliferation. 2008 , 285, 43-50	67
801	IGF-1 receptor signaling pathways and effects of AMPK activation on IGF-1-induced progesterone secretion in hen granulosa cells. 2008 , 34, 204-16	25
800	Epigenetic control of rDNA loci in response to intracellular energy status. 2008 , 133, 627-39	310
799	Cellular energetic metabolism in sepsis: the need for a systems approach. 2008 , 1777, 763-71	92
798	Expression of AMP-activated Protein Kinase Subunit Isoforms in Masseter and Tibialis Anterior Muscles of Mice before and after Weaning. 2008 , 50, 51-58	
797	A cell-based screening identifies compounds from the stem of Momordica charantia that overcome insulin resistance and activate AMP-activated protein kinase. 2008 , 56, 6835-43	67

796	Cilostazol activates AMP-activated protein kinase and restores endothelial function in diabetes. 2008 , 21, 451-7	58
795	Effect of nonmotorized wheel running on mammary carcinogenesis: circulating biomarkers, cellular processes, and molecular mechanisms in rats. 2008 , 17, 1920-9	43
794	Dietary energy restriction modulates the activity of AMP-activated protein kinase, Akt, and mammalian target of rapamycin in mammary carcinomas, mammary gland, and liver. 2008 , 68, 5492-9	142
793	The <i>Caenorhabditis elegans</i> AMP-activated protein kinase AAK-2 is phosphorylated by LKB1 and is required for resistance to oxidative stress and for normal motility and foraging behavior. 2008 , 283, 14988-93	65
792	Autophagy and aging: new lessons from progeroid mice. 2008 , 4, 807-9	26
791	Activation of AMPK is necessary for killing cancer cells and sparing cardiac cells. 2008 , 7, 1769-75	51
790	Hypothalamic regulation of appetite. 2008 , 3, 577-592	27
789	alpha2 But not alpha1 AMP-activated protein kinase mediates oxidative stress-induced inhibition of retinal pigment epithelium cell phagocytosis of photoreceptor outer segments. 2008 , 283, 6744-51	33
788	Activation of AMP-activated protein kinase induces p53-dependent apoptotic cell death in response to energetic stress. 2008 , 283, 3979-87	226
787	Coupling of mammalian target of rapamycin with phosphoinositide 3-kinase signaling pathway regulates protein phosphatase 2A- and glycogen synthase kinase-3 -dependent phosphorylation of Tau. 2008 , 283, 100-109	72
786	Signal Transduction in the Cardiovascular System in Health and Disease. 2008 ,	
785	Influence of AMP-activated protein kinase and calcineurin on metabolic networks in skeletal muscle. 2008 , 295, E545-52	29
784	Caffeine enhances endothelial repair by an AMPK-dependent mechanism. 2008 , 28, 1967-74	44
783	Sodium arsenite induces orphan nuclear receptor SHP gene expression via AMP-activated protein kinase to inhibit gluconeogenic enzyme gene expression. 2008 , 295, E368-79	26
782	Thromboxane receptor activates the AMP-activated protein kinase in vascular smooth muscle cells via hydrogen peroxide. 2008 , 102, 328-37	71
781	Glucose metabolism in lymphocytes is a regulated process with significant effects on immune cell function and survival. 2008 , 84, 949-57	326
780	Premature aging in mice activates a systemic metabolic response involving autophagy induction. 2008 , 17, 2196-211	123
779	Mechanisms of myocyte cytotoxicity induced by the multiple receptor tyrosine kinase inhibitor sunitinib. 2008 , 74, 1722-8	107

778	Role of the peroxisome proliferator-activated receptors, adenosine monophosphate-activated kinase, and adiponectin in the ovary. 2008 , 2008, 176275	32
777	Molecular targeting agents in renal cell carcinoma: present strategies and future perspectives. 2008 , 14, 1058-77	6
776	Beta-subunits of the SnRK1 complexes share a common ancestral function together with expression and function specificities; physical interaction with nitrate reductase specifically occurs via AKINbeta1-subunit. 2008 , 148, 1570-82	45
775	Regulation of ERK1/2 by ouabain and Na-K-ATPase-dependent energy utilization and AMPK activation in parotid acinar cells. 2008 , 295, C590-9	21
774	Role of adenosine 5'-monophosphate-activated protein kinase subunits in skeletal muscle mammalian target of rapamycin signaling. 2008 , 22, 1105-12	37
773	Glucose regulation of integrin-associated protein cleavage controls the response of vascular smooth muscle cells to insulin-like growth factor-I. 2008 , 22, 1226-37	23
772	Comparing and contrasting the roles of AMPK and SIRT1 in metabolic tissues. 2008 , 7, 3669-79	147
771	Inhibition of AMP-activated protein kinase protects pancreatic beta-cells from cytokine-mediated apoptosis and CD8+ T-cell-induced cytotoxicity. 2008 , 57, 415-23	63
770	Effects of an AMP-activated protein kinase inhibitor, compound C, on adipogenic differentiation of 3T3-L1 cells. 2008 , 31, 1716-22	55
769	Triacylglycerols and Cholesterol Metabolism. 2008 , 163-200	
768	[AMPK: a link between metabolism and reproduction?]. 2008 , 24, 297-300	18
767	AMP-activated protein kinase and muscle insulin resistance. 2009 , 14, 4658-72	12
766	Hypothalamic regulation of food intake and clinical therapeutic applications. 2009 , 53, 120-8	90
765	Targeting the AMPK pathway for the treatment of Type 2 diabetes. 2009 , 14, 3380-400	198
764	Modification of endothelial nitric oxide synthase through AMPK after experimental subarachnoid hemorrhage. 2009 , 26, 1157-65	34
763	Evaluation of the role of hexokinase type II in cellular proliferation and apoptosis using human hepatocellular carcinoma cell lines. 2009 , 50, 1525-32	47
762	Diphosphoinositol polyphosphates: metabolic messengers?. 2009 , 76, 236-52	122
761	Autophagy, redox signaling, and ventricular remodeling. 2009 , 11, 1975-88	70

760	Fasting enhances the response of arcuate neuropeptide Y-glucose-inhibited neurons to decreased extracellular glucose. 2009 , 296, C746-56	58
759	Mechanistic insight into control of CFTR by AMPK. 2009 , 284, 5645-53	64
758	Rimonabant ameliorates insulin resistance via both adiponectin-dependent and adiponectin-independent pathways. 2009 , 284, 1803-12	38
757	Butyrate enhances the intestinal barrier by facilitating tight junction assembly via activation of AMP-activated protein kinase in Caco-2 cell monolayers. 2009 , 139, 1619-25	885
756	Activation of AMP-activated protein kinase by metformin improves left ventricular function and survival in heart failure. 2009 , 104, 403-11	298
755	Cilostazol inhibits cytokine-induced nuclear factor-kappaB activation via AMP-activated protein kinase activation in vascular endothelial cells. 2009 , 81, 133-9	48
754	EphA2 as a promoter of melanoma tumorigenicity. 2009 , 8, 279-88	60
753	Legionella pneumophila multiplication is enhanced by chronic AMPK signalling in mitochondrially diseased Dictyostelium cells. 2009 , 2, 479-89	39
752	Follicle-stimulating hormone inhibits adenosine 5'-monophosphate-activated protein kinase activation and promotes cell proliferation of primary granulosa cells in culture through an Akt-dependent pathway. 2009 , 150, 929-35	68
751	Hepatocyte growth factor family negatively regulates hepatic gluconeogenesis via induction of orphan nuclear receptor small heterodimer partner in primary hepatocytes. 2009 , 284, 28510-21	45
750	Involvement of SIK2/TORC2 signaling cascade in the regulation of insulin-induced PGC-1alpha and UCP-1 gene expression in brown adipocytes. 2009 , 296, E1430-9	40
749	APPL1: role in adiponectin signaling and beyond. 2009 , 296, E22-36	196
748	Regulation of mRNA translation in renal physiology and disease. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F1153-65	4-3 48
747	AMPK regulates the circadian clock by cryptochrome phosphorylation and degradation. 2009 , 326, 437-40	643
746	The active form of the metabolic sensor: AMP-activated protein kinase (AMPK) directly binds the mitotic apparatus and travels from centrosomes to the spindle midzone during mitosis and cytokinesis. 2009 , 8, 2385-98	77
745	Modulation of calcium signalling by mitochondria. 2009 , 1787, 1374-82	99
744	Fenofibrate differentially regulates plasminogen activator inhibitor-1 gene expression via adenosine monophosphate-activated protein kinase-dependent induction of orphan nuclear receptor small heterodimer partner. 2009 , 50, 880-92	52
743	Less Smad2 is good for you! A scientific update on coffee's liver benefits. 2009 , 50, 970-8	22

742	Candidate mechanisms accounting for effects of physical activity on breast carcinogenesis. 2009 , 61, 895-901	38
741	LKB1 is essential for the proliferation of T-cell progenitors and mature peripheral T cells. 2010 , 40, 242-53	73
740	Expanding roles for AMP-activated protein kinase in neuronal survival and autophagy. 2009 , 31, 944-52	115
739	Regulation of Cl(-) secretion by AMPK in vivo. 2009 , 457, 1071-8	28
738	AMP-activated protein kinase: a potential target for the diseases prevention by natural occurring polyphenols. 2009 , 26, 17-22	157
737	Dictyostelium discoideum--a model for many reasons. 2009 , 329, 73-91	113
736	Resistin induces insulin resistance by both AMPK-dependent and AMPK-independent mechanisms in HepG2 cells. 2009 , 36, 60-9	63
735	Regulation of HMGCoA reductase activity by policosanol and octacosadienol, a new synthetic analogue of octacosanol. 2009 , 44, 907-16	42
734	Activation of an AMP-activated protein kinase is involved in post-diapause development of Artemia franciscana encysted embryos. 2009 , 9, 21	15
733	SnRK1 (SNF1-related kinase 1) has a central role in sugar and ABA signalling in Arabidopsis thaliana. 2009 , 59, 316-28	217
732	Transcriptional regulation of tumor suppressor p53 by cAMP-responsive element-binding protein/AMP-activated protein kinase complex in response to glucose deprivation. 2009 , 14, 1429-40	20
731	Endothelial nitric oxide synthase phosphorylation in treadmill-running mice: role of vascular signalling kinases. 2009 , 587, 3911-20	88
730	Nuclear expression of dynamin-related protein 1 in lung adenocarcinomas. 2009 , 22, 1139-50	58
729	Long-term baicalin administration ameliorates metabolic disorders and hepatic steatosis in rats given a high-fat diet. 2009 , 30, 1505-12	100
728	LKB1 is required for adiponectin-mediated modulation of AMPK-S6K axis and inhibition of migration and invasion of breast cancer cells. 2009 , 28, 2621-33	141
727	Chromium picolinate inhibits resistin secretion in insulin-resistant 3T3-L1 adipocytes via activation of amp-activated protein kinase. 2009 , 36, 843-9	22
726	Green tea catechin controls apoptosis in colon cancer cells by attenuation of H2O2-stimulated COX-2 expression via the AMPK signaling pathway at low-dose H2O2. 2009 , 1171, 538-44	44
725	AICAR preconditioning prevents postischemic leukocyte rolling and adhesion: role of K(ATP) channels and heme oxygenase. 2009 , 16, 167-76	28

724	Pu-erh tea attenuates hyperlipogenesis and induces hepatoma cells growth arrest through activating AMP-activated protein kinase (AMPK) in human HepG2 cells. 2009 , 57, 5257-64		48
723	Leptin-stimulated endothelial nitric-oxide synthase via an adenosine 5'-monophosphate-activated protein kinase/Akt signaling pathway is attenuated by interaction with C-reactive protein. 2009 , 150, 3584-93		58
722	Compound K, intestinal metabolite of ginsenoside, attenuates hepatic lipid accumulation via AMPK activation in human hepatoma cells. 2009 , 57, 1532-7		91
721	Curcumin exerts antidifferentiation effect through AMPKalpha-PPAR-gamma in 3T3-L1 adipocytes and antiproliferatory effect through AMPKalpha-COX-2 in cancer cells. 2009 , 57, 305-10		157
720	Heme oxygenase: the key to renal function regulation. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F1137-52	4-3	78
719	Molecular mechanisms involved in Sertoli cell adaptation to glucose deprivation. 2009 , 297, E907-14		65
718	Dietary curcumin supplementation counteracts reduction in levels of molecules involved in energy homeostasis after brain trauma. 2009 , 161, 1037-44		87
717	Hepatic lipid metabolism and non-alcoholic fatty liver disease. 2009 , 19, 291-302		213
716	Anti-hypertrophic effect of NHE-1 inhibition involves GSK-3beta-dependent attenuation of mitochondrial dysfunction. 2009 , 46, 998-1007		52
715	Fasting induced up-regulation of activating transcription factor 5 in mouse liver. 2009 , 84, 894-902		17
714	AMP-activated kinase may suppress NADPH oxidase activation in vascular tissues. 2009 , 72, 468-70		19
713	GAMT, a p53-inducible modulator of apoptosis, is critical for the adaptive response to nutrient stress. 2009 , 36, 379-92		76
712	The coordination of nuclear and mitochondrial communication during aging and calorie restriction. 2009 , 8, 173-88		161
711	Inulin increases glucose transport in C2C12 myotubes and HepG2 cells via activation of AMP-activated protein kinase and phosphatidylinositol 3-kinase pathways. 2009 , 12, 1023-8		19
710	The crosstalk between physiology and circadian clock proteins. 2009 , 26, 1479-513		174
709	Regulation of erythrocyte survival by AMP-activated protein kinase. 2009 , 23, 1072-80		167
708	Arginine deiminase as a novel therapy for prostate cancer induces autophagy and caspase-independent apoptosis. 2009 , 69, 700-8		223
707	Adenylate kinase and AMP signaling networks: metabolic monitoring, signal communication and body energy sensing. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 1729-72	6-3	266

706	Autophagy in Infection and Immunity. 2009 ,	3
705	Macroautophagy signaling and regulation. 2009 , 335, 33-70	65
704	CCL2 is a negative regulator of AMP-activated protein kinase to sustain mTOR complex-1 activation, survivin expression, and cell survival in human prostate cancer PC3 cells. 2009 , 11, 1309-17	39
703	Amino acid sensing and mTOR regulation: inside or out?. 2009 , 37, 248-52	41
702	AMP-activated protein kinase in the heart: role in cardiac glucose and fatty acid metabolism. 2009 , 4, 643-661	5
701	Regulation of autophagy through multiple independent hypoxic signaling pathways. 2009 , 9, 417-24	91
700	An unusual case of sex cord tumor with annular tubules with malignant transformation in a patient with Peutz-Jeghers syndrome. 2010 , 29, 27-32	21
699	AMP-activated protein kinase as a target for preconditioning in transplantation medicine. 2010 , 90, 353-8	35
698	siRNA-mediated AMPKalpha1 subunit gene PRKAA1 silencing enhances methylmercury toxicity in HEK293 cells. 2010 , 35, 601-4	11
697	Stimulators of AMP-activated kinase (AMPK) inhibit seawater- but not cAMP-induced oocyte maturation in a marine worm: Implications for interactions between cAMP and AMPK signaling. 2010 , 77, 497-510	22
696	Metformin suppresses hepatic gluconeogenesis and lowers fasting blood glucose levels through reactive nitrogen species in mice. 2010 , 53, 1472-81	25
695	The multiple actions of NO. 2010 , 459, 829-39	104
694	In vivo stimulation of AMP-activated protein kinase enhanced tubuloglomerular feedback but reduced tubular sodium transport during high dietary NaCl intake. 2010 , 460, 187-96	23
693	Interaction of the hepatitis C virus (HCV) core with cellular genes in the development of HCV-induced steatosis. 2010 , 155, 1735-53	23
692	The mTOR pathway is associated with the poor prognosis of human hepatocellular carcinoma. 2010 , 27, 255-61	156
691	Globular adiponectin regulates energy homeostasis through AMP-activated protein kinase-acetyl-CoA carboxylase (AMPK/ACC) pathway in the hypothalamus. 2010 , 344, 109-15	31
690	Effects of aging and gender on muscle mass and regulation of Akt-mTOR-p70s6k related signaling in the F344BN rat model. 2010 , 131, 202-9	36
689	Nutritional and metabolic mechanisms in the ovary and their role in mediating the effects of diet on folliculogenesis: a perspective. 2010 , 45 Suppl 3, 32-41	44

688	Phenformin has a direct inhibitory effect on the ATP-sensitive potassium channel. 2010 , 634, 26-32	14
687	Effects of sod gene overexpression and deletion mutation on the expression profiles of reporter genes of major detoxification pathways in <i>Caenorhabditis elegans</i> . 2010 , 45, 603-10	39
686	Stearoyl-CoA desaturase and insulin signaling--what is the molecular switch?. 2010 , 1797, 1189-94	57
685	Antroquinonol displays anticancer potential against human hepatocellular carcinoma cells: a crucial role of AMPK and mTOR pathways. 2010 , 79, 162-71	109
684	Prevention of in vitro hepatic stellate cells activation by the adenosine derivative compound IFC305. 2010 , 80, 1690-9	17
683	Protective effects of AMP-activated protein kinase in the cardiovascular system. 2010 , 14, 2604-13	48
682	AMPK-mediated phosphorylation of murine p27 at T197 promotes binding of 14-3-3 proteins and increases p27 stability. 2010 , 49, 429-39	30
681	Curcumin stimulates glucose uptake through AMPK-p38 MAPK pathways in L6 myotube cells. 2010 , 223, 771-8	52
680	OSU-03012 sensitizes TIB-196 myeloma cells to imatinib mesylate via AMP-activated protein kinase and STAT3 pathways. 2010 , 34, 816-20	8
679	Peroxisome proliferator-activated receptors gamma and alpha agonists stimulate cardiac glucose uptake via activation of AMP-activated protein kinase. 2010 , 21, 621-6	28
678	Sex-different hepatic glycogen content and glucose output in rats. 2010 , 11, 38	28
677	Activation of AMP-activated protein kinase on human gastric cancer cells by apoptosis induced by corosolic acid isolated from <i>Weigela subsessilis</i> . 2010 , 24, 1857-61	20
676	Down-regulation of Na ⁺ -coupled glutamate transporter EAAT3 and EAAT4 by AMP-activated protein kinase. 2010 , 113, 1426-35	23
675	Metformin action on AMP-activated protein kinase: a translational research approach to understanding a potential new therapeutic target. 2010 , 27, 1097-106	67
674	Bryostatin modulates latent HIV-1 infection via PKC and AMPK signaling but inhibits acute infection in a receptor independent manner. 2010 , 5, e11160	181
673	Suppression of lung tumorigenesis by leucine zipper/EF hand-containing transmembrane-1. 2010 , 5, e12535	25
672	Anti-inflammatory role of cilostazol in vascular smooth muscle cells in vitro and in vivo. 2010 , 17, 503-9	39
671	Losartan Inhibits Vascular Smooth Muscle Cell Proliferation through Activation of AMP-Activated Protein Kinase. 2010 , 14, 299-304	27

670	Role of AMPK in the Regulation of Cellular Energy Metabolism. 2010 , 25, 9	5
669	Genetic variation in a metabolic signaling pathway and colon and rectal cancer risk: mTOR, PTEN, STK11, RPKAA1, PRKAG2, TSC1, TSC2, PI3K and Akt1. 2010 , 31, 1604-11	75
668	The control systems structures of energy metabolism. 2010 , 7, 651-65	45
667	Activation of AMP-activated protein kinase by vascular endothelial growth factor mediates endothelial angiogenesis independently of nitric-oxide synthase. 2010 , 285, 10638-52	63
666	AMP-activated protein kinase (AMPK) negatively regulates Nox4-dependent activation of p53 and epithelial cell apoptosis in diabetes. 2010 , 285, 37503-12	196
665	Activation of AMP-activated protein kinase signaling pathway by adiponectin and insulin in mouse adipocytes: requirement of acyl-CoA synthetases FATP1 and Acsl1 and association with an elevation in AMP/ATP ratio. 2010 , 24, 4229-39	56
664	Mitochondrial dysfunction confers resistance to multiple drugs in <i>Caenorhabditis elegans</i> . 2010 , 21, 956-69	39
663	The role of p53 in cell metabolism. 2010 , 31, 1208-12	82
662	Regulation of Na ⁺ -coupled glucose carrier SGLT1 by AMP-activated protein kinase. 2010 , 27, 137-44	54
661	Membrane fatty acid transporters as regulators of lipid metabolism: implications for metabolic disease. 2010 , 90, 367-417	491
660	Targeted therapies of the LKB1/AMPK pathway for the treatment of insulin resistance. 2010 , 2, 1785-96	14
659	AMP-activated protein kinase mediates apoptosis in response to bioenergetic stress through activation of the pro-apoptotic Bcl-2 homology domain-3-only protein BMF. 2010 , 285, 36199-206	33
658	ATM signals to TSC2 in the cytoplasm to regulate mTORC1 in response to ROS. 2010 , 107, 4153-8	532
657	Autophagy and aging: lessons from progeria models. 2010 , 694, 61-8	18
656	AMP-activated protein kinase activation during cardioplegia-induced hypoxia/reoxygenation injury attenuates cardiomyocytic apoptosis via reduction of endoplasmic reticulum stress. 2010 , 2010, 130636	42
655	Regulation of the creatine transporter by AMP-activated protein kinase in kidney epithelial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 299, F167-77	4-3 52
654	Metformin decreases IGF1-induced cell proliferation and protein synthesis through AMP-activated protein kinase in cultured bovine granulosa cells. 2010 , 139, 409-18	56
653	Metastasis suppression by adiponectin: LKB1 rises up to the challenge. 2010 , 4, 358-62	38

652	AMPK agonists ameliorate sodium and fluid transport and inflammation in cystic fibrosis airway epithelial cells. 2010 , 42, 676-84	85
651	Autophagy Blockade Sensitizes Prostate Cancer Cells towards Src Family Kinase Inhibitors. 2010 , 1, 40-9	133
650	AMPK as a therapeutic target in renal cell carcinoma. 2010 , 10, 1168-77	49
649	An active part of <i>Artemisia sacrorum</i> Ledeb. attenuates hepatic lipid accumulation through activating AMP-activated protein kinase in human HepG2 cells. 2010 , 74, 322-8	15
648	The cardiovascular effects of metformin: further reasons to consider an old drug as a cornerstone in the therapy of type 2 diabetes mellitus. 2010 , 8, 327-37	44
647	Cytopathological Mechanisms in Mitochondrial Disease. 2010 , 4, 32-48	
646	Mammalian Hibernation: Physiology, Cell Signaling, and Gene Controls on Metabolic Rate Depression. 2010 , 227-252	20
645	Linolenic Acid Methyl Ester from <i>Rhizopus oryzae</i> KSD-815 Isolated from Nuruk Induces Apoptosis in Prostate Cancer LNCaP Cells. 2010 , 53, 752-760	3
644	Adiponectin modulates C-jun N-terminal kinase and mammalian target of rapamycin and inhibits hepatocellular carcinoma. 2010 , 139, 1762-73, 1773.e1-5	117
643	TRPM7 activates m-calpain by stress-dependent stimulation of p38 MAPK and c-Jun N-terminal kinase. 2010 , 396, 858-69	62
642	Clozapine activates AMP-activated protein kinase (AMPK) in C2C12 myotube cells and stimulates glucose uptake. 2010 , 87, 42-8	9
641	Unmetabolized fenofibrate, but not fenofibric acid, activates AMPK and inhibits the expression of phosphoenolpyruvate carboxykinase in hepatocytes. 2010 , 87, 495-500	6
640	AMP-activated protein kinase (AMPK) activation regulates in vitro bone formation and bone mass. 2010 , 47, 309-19	131
639	AMP kinase acts as a negative regulator of RANKL in the differentiation of osteoclasts. 2010 , 47, 926-37	106
638	The adenovirus-mediated linamarase/linamarin suicide system: a potential strategy for the treatment of hepatocellular carcinoma. 2010 , 289, 217-27	14
637	Induction of apoptosis by quercetin is mediated through AMPK α 1/ASK1/p38 pathway. 2010 , 292, 228-36	65
636	AMP-activated protein kinase: a stress-responsive kinase with implications for cardiovascular disease. 2010 , 10, 111-5	23
635	Mitochondrial dysfunction enhances the migration of vascular smooth muscles cells via suppression of Akt phosphorylation. 2010 , 1800, 275-81	25

634	AMP-activated kinase (AMPK)-generated signals in malignant melanoma cell growth and survival. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 398, 135-9	3-4	49
633	Upregulation of Na ⁺ /H ⁺ exchanger by the AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 398, 677-82	3-4	25
632	AMP-activated protein kinase mediates activity-dependent regulation of peroxisome proliferator-activated receptor gamma coactivator-1alpha and nuclear respiratory factor 1 expression in rat visual cortical neurons. 2010 , 169, 23-38		52
631	Effects of Acute Bouts of Swimming Exercise on AMPK Expression in Mouse Skeletal Muscle. 2010 , 8, 11-16		2
630	Activation of AMP-activated protein kinase stimulates the nuclear localization of glyceraldehyde 3-phosphate dehydrogenase in human diploid fibroblasts. 2010 , 42, 254-69		29
629	Benzopyrene and experimental stressors cause compensatory differentiation in placental trophoblast stem cells. 2010 , 56, 168-83		29
628	Osthole enhances glucose uptake through activation of AMP-activated protein kinase in skeletal muscle cells. 2011 , 59, 12874-81		38
627	Diphosphoinositol polyphosphates: what are the mechanisms?. 2011 , 51, 13-25		24
626	Proteome analysis of erythrocytes lacking AMP-activated protein kinase reveals a role of PAK2 kinase in eryptosis. 2011 , 10, 1690-7		77
625	Regulation of folliculogenesis and the determination of ovulation rate in ruminants. 2011 , 23, 444-67		181
624	PPARbeta activation induces rapid changes of both AMPK subunit expression and AMPK activation in mouse skeletal muscle. 2011 , 25, 1487-98		13
623	AICAR induced AMPK activation potentiates neuronal insulin signaling and glucose uptake. 2011 , 509, 142-6		13
622	AMP-activated protein kinase modulates the gene expression of aquaporin 9 via forkhead box a2. 2011 , 515, 80-8		16
621	Metformin induces osteoblast differentiation via orphan nuclear receptor SHP-mediated transactivation of Runx2. 2011 , 48, 885-93		122
620	Aspirin-induced AMP-activated protein kinase activation regulates the proliferation of vascular smooth muscle cells from spontaneously hypertensive rats. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 312-7	3-4	26
619	AICAR response element binding protein (AREBP), a key modulator of hepatic glucose production regulated by AMPK in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 414, 287-91	3-4	13
618	Role of 5'-adenosine monophosphate-activated protein kinase in cell survival and death responses in neurons. 2011 , 14, 1863-76		64
617	Prevention of extracellular ADP-induced ATP accumulation of the cultured rat spinal astrocytes via P2Y(1)-mediated inhibition of AMPK. 2011 , 503, 244-9		10

616	Mammalian target of rapamycin signaling pathway contributes to glioma progression and patients' prognosis. 2011 , 168, 97-102		17
615	Mutation of mitochondrial ATP8 gene improves hepatic energy status in a murine model of acute endotoxemic liver failure. 2011 , 88, 343-9		8
614	Curcumin improves insulin resistance in skeletal muscle of rats. 2011 , 21, 526-33		120
613	Signaling pathways mediating phosphorylation and inactivation of glycogen synthase kinase-3 β by the recombinant human μ opioid receptor stably expressed in Chinese hamster ovary cells. 2011 , 60, 1326-36		14
612	Purple sweet potato anthocyanins attenuate hepatic lipid accumulation through activating adenosine monophosphate-activated protein kinase in human HepG2 cells and obese mice. 2011 , 31, 896-906		118
611	5-aminoimidazole-4-carboxamide riboside enhances effect of ionizing radiation in PC3 prostate cancer cells. 2011 , 81, 1515-23		14
610	Inhibition of Kir2.1 (KCNJ2) by the AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 505-10	3-4	38
609	Screening for active small molecules in mitochondrial complex I deficient patient's fibroblasts, reveals AICAR as the most beneficial compound. 2011 , 6, e26883		83
608	Hypoxia inhibits colonic ion transport via activation of AMP kinase. 2011 , 254, 957-63		8
607	Ginsenoside Re lowers blood glucose and lipid levels via activation of AMP-activated protein kinase in HepG2 cells and high-fat diet fed mice. 2012 , 29, 73-80		54
606	Antileukemic effects of AMPK activators on BCR-ABL-expressing cells. 2011 , 118, 6399-402		60
605	Metformin improves cardiac function in rats via activation of AMP-activated protein kinase. 2011 , 38, 94-101		59
604	Cadmium induces autophagy through ROS-dependent activation of the LKB1-AMPK signaling in skin epidermal cells. 2011 , 255, 287-96		108
603	Use of human stem cell derived cardiomyocytes to examine sunitinib mediated cardiotoxicity and electrophysiological alterations. 2011 , 257, 74-83		67
602	Fenofibrate suppresses microvascular inflammation and apoptosis through adenosine monophosphate-activated protein kinase activation. 2011 , 60, 513-22		57
601	Upregulation of growth signaling and nutrient transporters in cotyledons of early to mid-gestational nutrient restricted ewes. 2011 , 32, 255-63		44
600	Understanding the benefit of metformin use in cancer treatment. 2011 , 9, 33		256
599	CNTF protects MIN6 cells against apoptosis induced by Alloxan and IL-1 β through downregulation of the AMPK pathway. 2011 , 23, 1669-76		20

598	LKB1/AMPK/mTOR signaling pathway in hematological malignancies: from metabolism to cancer cell biology. 2011 , 10, 2115-20	87
597	Adiponectin induces growth inhibition and apoptosis in cervical cancer HeLa cells. 2011 , 66, 712-720	5
596	Cows are not mice: the role of cyclic AMP, phosphodiesterases, and adenosine monophosphate-activated protein kinase in the maintenance of meiotic arrest in bovine oocytes. 2011 , 78, 734-43	47
595	AMP-activated protein kinase regulates glucagon secretion from mouse pancreatic alpha cells. 2011 , 54, 125-34	41
594	Inhibition of connexin 26 by the AMP-activated protein kinase. 2011 , 240, 151-8	9
593	Metabolic regulation by salt inducible kinases. 2011 , 6, 231	6
592	Gene expression profiling of oxidative stress response of <i>C. elegans</i> aging defective AMPK mutants using massively parallel transcriptome sequencing. 2011 , 4, 34	25
591	Prognostic influence of metformin as first-line chemotherapy for advanced nonsmall cell lung cancer in patients with type 2 diabetes. 2011 , 117, 5103-11	124
590	Regulation of AMP-activated protein kinase by LKB1 and CaMKK in adipocytes. 2011 , 112, 1364-75	57
589	Fish oil promotes survival and protects against cognitive decline in severely undernourished mice by normalizing satiety signals. 2011 , 22, 766-76	17
588	Ischemia-induced stimulation of Na-K-Cl cotransport in cerebral microvascular endothelial cells involves AMP kinase. 2011 , 301, C316-26	28
587	Defective leptin-AMP-dependent kinase pathway induces nitric oxide release and contributes to mitochondrial dysfunction and obesity in ob/ob mice. 2011 , 15, 2395-406	22
586	AMP-activated protein kinase modulators: a patent review (2006 - 2010). 2011 , 21, 983-1005	25
585	PERK integrates autophagy and oxidative stress responses to promote survival during extracellular matrix detachment. 2011 , 31, 3616-29	201
584	Activation of AMP-activated protein kinase is essential for lysophosphatidic acid-induced cell migration in ovarian cancer cells. 2011 , 286, 24036-45	45
583	AMP-activated protein kinase (AMPK) activity is not required for neuronal development but regulates axogenesis during metabolic stress. 2011 , 108, 5849-54	86
582	Direct role of adiponectin and adiponectin receptors in endometrial cancer: in vitro and ex vivo studies in humans. 2011 , 10, 2234-43	62
581	NAD blocks high glucose induced mesangial hypertrophy via activation of the sirtuins-AMPK-mTOR pathway. 2011 , 27, 681-90	51

580	Cilostazol Inhibits Vascular Smooth Muscle Cell Proliferation and Reactive Oxygen Species Production through Activation of AMP-activated Protein Kinase Induced by Heme Oxygenase-1. 2011 , 15, 203-10	15
579	Janus kinase 3 is expressed in erythrocytes, phosphorylated upon energy depletion and involved in the regulation of suicidal erythrocyte death. 2011 , 27, 547-56	110
578	Siomycin A targets brain tumor stem cells partially through a MELK-mediated pathway. 2011 , 13, 622-34	46
577	Metabolic features of clear-cell renal cell carcinoma: mechanisms and clinical implications. 2011 , 5, 274-82	47
576	Hyaluronan synthesis is inhibited by adenosine monophosphate-activated protein kinase through the regulation of HAS2 activity in human aortic smooth muscle cells. 2011 , 286, 7917-7924	89
575	Novel nucleolar pathway connecting intracellular energy status with p53 activation. 2011 , 286, 20861-9	26
574	Metabolic stress boosts humoral responses in vivo independently of inflammasome and inflammatory reaction. 2011 , 186, 2245-53	6
573	Endurance factors improve hippocampal neurogenesis and spatial memory in mice. 2011 , 18, 103-7	82
572	Activation of AMP-activated protein kinase may not be involved in AICAR- and metformin-mediated meiotic arrest in bovine denuded and cumulus-enclosed oocytes in vitro. 2011 , 19, 97-106	12
571	Frontier of epilepsy research - mTOR signaling pathway. 2011 , 43, 231-74	63
570	Prevention of Childhood Obesity with Use of Natural Products. 2011 , 443-452	
569	IRE1-dependent activation of AMPK in response to nitric oxide. 2011 , 31, 4286-97	55
568	Isoform-selective 5'-AMP-activated protein kinase-dependent preconditioning mechanisms to prevent postischemic leukocyte-endothelial cell adhesive interactions. 2011 , 300, H1352-60	20
567	Inhibition of the heterotetrameric K ⁺ channel KCNQ1/KCNE1 by the AMP-activated protein kinase. 2011 , 28, 79-89	32
566	p53: the attractive tumor suppressor in the cancer research field. 2011 , 2011, 603925	71
565	Preactivation of AMPK by metformin may ameliorate the epithelial cell damage caused by renal ischemia. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, F1346-57	4-3 67
564	p-HPEA-EDA, a phenolic compound of virgin olive oil, activates AMP-activated protein kinase to inhibit carcinogenesis. 2011 , 32, 545-53	73
563	Cigarette smoke components induce matrix metalloproteinase-1 in aortic endothelial cells through inhibition of mTOR signaling. 2011 , 123, 542-9	63

562	Inhibition of the AMP-activated protein kinase- α accentuates agonist-induced vascular smooth muscle contraction and high blood pressure in mice. 2011 , 57, 1010-7	60
561	Exercise and the Brain: Neurogenesis, Synaptic Plasticity, Spine Density, and Angiogenesis. 2012 , 3-24	7
560	Influence of metformin therapy on breast cancer incidence and prognosis. 2012 , 20, 62-69	1
559	Ischemia-induced stimulation of cerebral microvascular endothelial cell Na-K-Cl cotransport involves p38 and JNK MAP kinases. 2012 , 302, C505-17	28
558	Ethanol Extract of <i>Vitis thunbergii</i> Exhibits Lipid Lowering Properties via Modulation of the AMPK-ACC Pathway in Hypercholesterolemic Rabbits. 2012 , 2012, 436786	12
557	Partial rescue of retinal function in chronically hypoglycemic mice. 2012 , 53, 915-23	5
556	AMP-activated protein kinase regulation of kidney tubular transport. 2012 , 21, 523-33	35
555	Downregulation of Kv1.5 K channels by the AMP-activated protein kinase. 2012 , 30, 1039-50	48
554	Adiponectin pathway attenuates malignant mesothelioma cell growth. 2012 , 46, 515-23	5
553	Apoptosis-induced mitochondrial dysfunction causes cytoplasmic lipid droplet formation. 2012 , 19, 1561-70	173
552	Phosphoenolpyruvate carboxykinase and glucose-6-phosphatase are required for steroidogenesis in testicular Leydig cells. 2012 , 287, 41875-87	19
551	AMPK directly inhibits NDPK through a phosphoserine switch to maintain cellular homeostasis. 2012 , 23, 381-9	27
550	Kinases and Mitochondrial Cycling. 2012 , 189-212	
549	BML-275, an AMPK inhibitor, induces DNA damage, G2/M arrest and apoptosis in human pancreatic cancer cells. 2012 , 41, 2227-36	26
548	Widdrol induces apoptosis via activation of AMP-activated protein kinase in colon cancer cells. 2012 , 27, 1407-12	35
547	The mTOR pathway in lung cancer and implications for therapy and biomarker analysis. 2012 , 7, 947-53	47
546	Metformin inhibits leptin-induced growth and migration of glioblastoma cells. 2012 , 4, 1077-1081	23
545	Miglitol, an anti-diabetic drug, inhibits oxidative stress-induced apoptosis and mitochondrial ROS over-production in endothelial cells by enhancement of AMP-activated protein kinase. 2012 , 120, 121-8	15

544	At the crossroad of T cells, adipose tissue, and diabetes. 2012 , 249, 116-34	34
543	Loss of the respiratory enzyme citrate synthase directly links the Warburg effect to tumor malignancy. 2012 , 2, 785	83
542	Quercetin and its metabolites improve vessel function by inducing eNOS activity via phosphorylation of AMPK. 2012 , 84, 1036-44	86
541	Two-step activation of FOXO3 by AMPK generates a coherent feed-forward loop determining excitotoxic cell fate. 2012 , 19, 1677-88	51
540	AMP-activated protein kinase: an emerging drug target to regulate imbalances in lipid and carbohydrate metabolism to treat cardio-metabolic diseases. 2012 , 53, 2490-514	178
539	Honokiol activates AMP-activated protein kinase in breast cancer cells via an LKB1-dependent pathway and inhibits breast carcinogenesis. 2012 , 14, R35	68
538	Redox regulation of mitochondrial biogenesis. 2012 , 53, 2043-53	122
537	AMPK in myocardial infarction and diabetes: the yin/yang effect. 2012 , 2, 368-378	17
536	Compartmentation of membrane processes and nucleotide dynamics in diffusion-restricted cardiac cell microenvironment. 2012 , 52, 401-9	35
535	The role of SirT1 in muscle mitochondrial turnover. 2012 , 12, 5-13	39
534	Adiponectin activates endothelial nitric oxide synthase through AMPK signaling after subarachnoid hemorrhage. 2012 , 514, 2-5	19
533	Intracellular metabolic pathways control immune tolerance. 2012 , 33, 1-7	53
532	AMPK-mediated increase of glycolysis as an adaptive response to oxidative stress in human cells: implication of the cell survival in mitochondrial diseases. 2012 , 1822, 233-47	122
531	Transcriptional control of mitochondrial biogenesis and its interface with inflammatory processes. 2012 , 1820, 532-41	66
530	Downregulation of the osmolyte transporters SMIT and BGT1 by AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 422, 358-62	3-4 10
529	Cooperativity between inhibition of cytosolic K ⁺ efflux and AMPK activation during suppression of hypoxia-induced cellular apoptosis. 2012 , 44, 211-23	6
528	Developmental transition of pectoralis muscle from atrophy in late-term duck embryos to hypertrophy in neonates. 2012 , 97, 861-72	6
527	AMP-activated protein kinase in BK-channel regulation and protection against hearing loss following acoustic overstimulation. 2012 , 26, 4243-53	37

526	Autophagy in premature senescent cells is activated via AMPK pathway. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 3563-82	6.3	31
525	A role of DNA-dependent protein kinase for the activation of AMP-activated protein kinase in response to glucose deprivation. 2012 , 1823, 2099-108		18
524	Muscle Fatigue and Cognition: What is the Link?. 2012 , 3, 14		4
523	Acute treatment with metformin improves cardiac function following isoproterenol induced myocardial infarction in rats. 2012 , 64, 1476-84		52
522	The role of AMPK in high-glucose-induced dysfunction of cultured rat mesangial cells. 2012 , 34, 616-21		10
521	Regulatory T cells, mTOR kinase, and metabolic activity. 2012 , 69, 3975-87		10
520	Mangiferin decreases plasma free fatty acids through promoting its catabolism in liver by activation of AMPK. 2012 , 7, e30782		78
519	CaMKKs involved in AMP-activated protein kinase activation by baicalin in LKB1 deficient cell lines. 2012 , 7, e47900		28
518	Mechanisms and regulation of autophagy in mammalian cells. 2012 ,		5
517	Ginsenoside Rg1 promotes glucose uptake through activated AMPK pathway in insulin-resistant muscle cells. 2012 , 26, 1017-22		55
516	Aminoimidazole carboxamide ribonucleotide ameliorates experimental autoimmune uveitis. 2012 , 53, 4158-69		29
515	Structure-activity analysis of niclosamide reveals potential role for cytoplasmic pH in control of mammalian target of rapamycin complex 1 (mTORC1) signaling. 2012 , 287, 17530-17545		110
514	AMPK inhibitor compound C suppresses cell proliferation by induction of apoptosis and autophagy in human colorectal cancer cells. 2012 , 106, 680-8		46
513	The pan-deacetylase inhibitor panobinostat induces cell death and synergizes with everolimus in Hodgkin lymphoma cell lines. 2012 , 119, 4017-25		70
512	Arctigenin alleviates ER stress via activating AMPK. 2012 , 33, 941-52		23
511	Ginsenoside Rg2 induces orphan nuclear receptor SHP gene expression and inactivates GSK3 β via AMP-activated protein kinase to inhibit hepatic glucose production in HepG2 cells. 2012 , 195, 35-42		57
510	Activation of AMP-activated protein kinase by MAPO1 and FLCN induces apoptosis triggered by alkylated base mismatch in DNA. 2012 , 11, 259-66		17
509	Metyrapone effects on systemic and cerebral energy metabolism. 2012 , 682, 92-8		7

508	Nifedipine inhibits vascular smooth muscle cell proliferation and reactive oxygen species production through AMP-activated protein kinase signaling pathway. 2012 , 56, 1-8	24
507	AMP-activated protein kinase inhibits TGF- β -induced fibrogenic responses of hepatic stellate cells by targeting transcriptional coactivator p300. 2012 , 227, 1081-9	114
506	Human mesenchymal stem cell differentiation to the osteogenic or adipogenic lineage is regulated by AMP-activated protein kinase. 2012 , 227, 1680-7	77
505	ErbB1/2 tyrosine kinase inhibitor mediates oxidative stress-induced apoptosis in inflammatory breast cancer cells. 2012 , 132, 109-19	45
504	Non-esterified fatty acids activate the AMP-activated protein kinase signaling pathway to regulate lipid metabolism in bovine hepatocytes. 2013 , 67, 1157-69	20
503	Regulation of a truncated isoform of AMP-activated protein kinase α (AMPK α) in response to hypoxia in the muscle of Pacific oyster <i>Crassostrea gigas</i> . 2013 , 183, 597-611	25
502	Tetrahydrobiopterin has a glucose-lowering effect by suppressing hepatic gluconeogenesis in an endothelial nitric oxide synthase-dependent manner in diabetic mice. 2013 , 62, 3033-43	35
501	AMP-activated protein kinase as a key molecular link between metabolism and clockwork. 2013 , 45, e33	56
500	Methotrexate and 5-aminoimidazole-4-carboxamide riboside exert synergistic anticancer action against human breast cancer and hepatocellular carcinoma. 2013 , 34, 951-9	11
499	ERK1/2 regulates hepatocyte Trib1 in response to mitochondrial dysfunction. 2013 , 1833, 3405-3414	10
498	The role of neuronal AMPK as a mediator of nutritional regulation of food intake and energy homeostasis. 2013 , 62, 171-8	35
497	PKC β over expression in the central nucleus of the amygdala or hypothalamus has differential effects on energy balance and peripheral glucose homeostasis. 2013 , 1498, 85-94	5
496	AMP-activated kinase, AMPK, is involved in the maintenance of plasma membrane organization in boar spermatozoa. 2013 , 1828, 2143-51	39
495	Autophagy and ageing: insights from invertebrate model organisms. 2013 , 12, 413-28	59
494	Ghrelin receptor in energy homeostasis and obesity pathogenesis. 2013 , 114, 45-87	5
493	Metformin augments the levels of molecules that regulate the expression of the insulin-dependent glucose transporter GLUT4 in the endometria of hyperinsulinemic PCOS patients. 2013 , 28, 2235-44	48
492	Emodin regulates glucose utilization by activating AMP-activated protein kinase. 2013 , 288, 5732-42	47
491	Carbimazole is an inhibitor of protein synthesis and protects from neuronal hypoxic damage in vitro. 2013 , 347, 781-93	7

490	Decreased fructose-1,6-bisphosphatase-2 expression promotes glycolysis and growth in gastric cancer cells. 2013 , 12, 110	44
489	Leptin and adiponectin: emerging therapeutic targets in breast cancer. 2013 , 18, 321-32	53
488	Metformin increases mitochondrial energy formation in L6 muscle cell cultures. 2013 , 288, 20369-77	33
487	Multifunctional targets of dietary polyphenols in disease: a case for the chemokine network and energy metabolism. 2013 , 51, 267-79	50
486	The LKB1-AMPK pathway-friend or foe in cancer?. 2013 , 23, 131-2	53
485	Adenosine monophosphate-activated kinase, AMPK, is involved in the maintenance of the quality of extended boar semen during long-term storage. 2013 , 80, 285-94	29
484	Age and obesity-associated changes in the expression and activation of components of the AMPK signaling pathway in human right atrial tissue. 2013 , 48, 55-63	22
483	Stabilization of MAPO1 by specific binding with folliculin and AMP-activated protein kinase in O ⁶ -methylguanine-induced apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 810-5	3-4 3
482	Berberine metabolites exhibit triglyceride-lowering effects via activation of AMP-activated protein kinase in Hep G2 cells. 2013 , 149, 576-82	39
481	Metformin and cancer. 2013 , 705, 96-108	112
480	Dietary protein restriction and excess of pregnant German Landrace sows induce changes in hepatic gene expression and promoter methylation of key metabolic genes in the offspring. 2013 , 24, 484-95	31
479	The Warburg effect: insights from the past decade. 2013 , 137, 318-30	153
478	Rosemary (<i>Rosmarinus officinalis</i> L.) extract regulates glucose and lipid metabolism by activating AMPK and PPAR pathways in HepG2 cells. 2013 , 61, 2803-10	79
477	3-Caffeoyl, 4-dihydrocaffeoylquinic acid from <i>Salicornia herbacea</i> attenuates high glucose-induced hepatic lipogenesis in human HepG2 cells through activation of the liver kinase B1 and silent information regulator T1/AMPK-dependent pathway. 2013 , 57, 471-82	25
476	Dual control of mitochondrial biogenesis by sirtuin 1 and sirtuin 3. 2013 , 13, 755-61	159
475	Antidiabetic effects of pteroin A, a small-molecular-weight natural product, on diabetic mouse models. 2013 , 62, 628-38	48
474	AMPK inhibition enhances apoptosis in MLL-rearranged pediatric B-acute lymphoblastic leukemia cells. 2013 , 27, 1019-27	35
473	How to die chemically? Whole body apoptosis. 2013 , 36, 919-21	1

472	Hydrodynamic delivery of adiponectin and adiponectin receptor 2 gene blocks high-fat diet-induced obesity and insulin resistance. 2013 , 20, 846-52		25
471	High early post-mortem temperature induces activation of AMP-activated protein kinase and development of pale, soft and exudative characteristics in turkey muscles. 2013 , 93, 600-6		18
470	Angiotensin II suppresses adenosine monophosphate-activated protein kinase of podocytes via angiotensin II type 1 receptor and mitogen-activated protein kinase signaling. 2013 , 17, 16-23		10
469	Extracellular ATP-prinoceptor signaling and AMP-activated protein kinase regulate astrocytic glucose transporter 3 in an in vitro ischemia. 2013 , 63, 259-68		12
468	Leptin regulates KATP channel trafficking in pancreatic β cells by a signaling mechanism involving AMP-activated protein kinase (AMPK) and cAMP-dependent protein kinase (PKA). 2013 , 288, 34098-34109		53
467	Neuroprotective Effects of AMP-Activated Protein Kinase on Scopolamine Induced Memory Impairment. 2013 , 17, 331-8		18
466	Prognostic significance of AMPK activation and therapeutic effects of metformin in hepatocellular carcinoma. 2013 , 19, 5372-80		145
465	miR-148b functions as a tumor suppressor in pancreatic cancer by targeting AMPK β . 2013 , 12, 83-93		90
464	Invadolysin, a conserved lipid-droplet-associated metalloproteinase, is required for mitochondrial function in <i>Drosophila</i> . <i>Journal of Cell Science</i> , 2013 , 126, 4769-81	5:3	12
463	Reactive nitrogen species regulate autophagy through ATM-AMPK-TSC2-mediated suppression of mTORC1. 2013 , 110, E2950-7		181
462	Short-chain fatty acids activate AMP-activated protein kinase and ameliorate ethanol-induced intestinal barrier dysfunction in Caco-2 cell monolayers. 2013 , 143, 1872-81		126
461	Down-regulation of the Na ⁺ -coupled phosphate transporter NaPi-IIa by AMP-activated protein kinase. <i>Kidney and Blood Pressure Research</i> , 2013 , 37, 547-56	3:1	20
460	Sex-specific regulation of AMP-activated protein kinase (AMPK) in the Pacific oyster <i>Crassostrea gigas</i> . 2013 , 89, 100		19
459	AMPK β -sensitivity of Orai1 and Ca(2+) entry in T - lymphocytes. 2013 , 32, 687-98		33
458	AMP-activated protein kinase counteracts brain-derived neurotrophic factor-induced mammalian target of rapamycin complex 1 signaling in neurons. 2013 , 127, 66-77		31
457	Influence of different particle processing on hypocholesterolemic and antiatherogenic activities of yam (<i>Dioscorea pseudojaponica</i>) in cholesterol-fed rabbit model. 2013 , 93, 1278-83		10
456	Liver hydrolysate assists in the recovery from physical fatigue in a mouse model. 2013 , 123, 328-35		10
455	Isolation of AMP-activated protein kinase (AMPK) alleles required for neuronal maintenance in <i>Drosophila melanogaster</i> . 2013 , 2, 1321-3		12

454	Acetic acid activates the AMP-activated protein kinase signaling pathway to regulate lipid metabolism in bovine hepatocytes. 2013 , 8, e67880		47
453	Shizukaol D isolated from <i>Chloranthus japonicus</i> inhibits AMPK-dependent lipid content in hepatic cells by inducing mitochondrial dysfunction. 2013 , 8, e73527		18
452	Chicoric acid is an antioxidant molecule that stimulates AMP kinase pathway in L6 myotubes and extends lifespan in <i>Caenorhabditis elegans</i> . 2013 , 8, e78788		56
451	Plant sterols as anticancer nutrients: evidence for their role in breast cancer. 2013 , 5, 359-87		70
450	Minimal deviation adenocarcinoma of the cervix and tumorlets of sex-cord stromal tumor with annular tubules of the ovary in Peutz-Jeghers syndrome. 2013 , 24, 92-5		5
449	Metabolic features of clear-cell renal cell carcinoma: mechanisms and clinical implications. 2013 , 5, 274		
448	AMP-activated protein kinase suppresses the in vitro and in vivo proliferation of hepatocellular carcinoma. 2014 , 9, e93256		43
447	Fenofibrate improves renal lipotoxicity through activation of AMPK-PGC-1 β in db/db mice. 2014 , 9, e96147		74
446	Epigenetics in extracellular matrix remodeling and hyaluronan metabolism. 2014 , 281, 4980-92		45
445	Changes in energy-regulated molecules in the trophocytes and fat cells of young and old worker honeybees (<i>Apis mellifera</i>). 2014 , 69, 955-64		12
444	Triterpenoid saponins from <i>Stauntonia chinensis</i> ameliorate insulin resistance via the AMP-activated protein kinase and IR/IRS-1/PI3K/Akt pathways in insulin-resistant HepG2 cells. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 10446-58	6.3	58
443	Inhibition of protein translation by the DISC1-Boymaw fusion gene from a Scottish family with major psychiatric disorders. 2014 , 23, 5683-705		28
442	Mitochondrial energetics is impaired in vivo in aged skeletal muscle. 2014 , 13, 39-48		85
441	Impact of caloric restriction on myocardial ischaemia/reperfusion injury and new therapeutic options to mimic its effects. <i>British Journal of Pharmacology</i> , 2014 , 171, 2964-92	8.6	20
440	Ghrelin contributes to protection of hepatocellular injury induced by ischaemia/reperfusion. 2014 , 34, 567-75		21
439	Periostin induces intracellular cross-talk between kinases and hyaluronan in atrioventricular valvulogenesis. 2014 , 289, 8545-61		43
438	The growth hormone secretagogue receptor: its intracellular signaling and regulation. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 4837-55	6.3	75
437	AMPK and Metabolisms of Glucose and Lipid. 2014 , 887-888, 547-550		1

436	Transcriptional regulation of the stress response by mTOR. 2014 , 7, re2	56
435	The Stimulatory Effect of Essential Fatty Acids on Glucose Uptake Involves Both Akt and AMPK Activation in C2C12 Skeletal Muscle Cells. 2014 , 18, 255-61	28
434	Inhibition of AMP-activated protein kinase signaling alleviates impairments in hippocampal synaptic plasticity induced by amyloid β . 2014 , 34, 12230-8	111
433	Succinate dehydrogenase subunit B inhibits the AMPK-HIF-1 α pathway in human ovarian cancer in vitro. 2014 , 7, 115	16
432	Effects of individual branched-chain amino acids deprivation on insulin sensitivity and glucose metabolism in mice. 2014 , 63, 841-50	64
431	SnRK1 is differentially regulated in the cotyledon and embryo axe of bean (<i>Phaseolus vulgaris</i> L) seeds. 2014 , 80, 153-9	9
430	Casein synthesis is independently and additively related to individual essential amino acid supply. 2014 , 97, 2998-3005	31
429	Diabetic conditions modulate the adenosine monophosphate-activated protein kinase of podocytes. 2014 , 33, 26-32	5
428	Phytochemical analysis and exercise enhancing effects of hydroalcoholic extract of <i>Celastrus paniculatus</i> Willd. 2014 , 55, 217-224	13
427	Activation of AMP-activated protein kinase attenuates hepatocellular carcinoma cell adhesion stimulated by adipokine resistin. 2014 , 14, 112	23
426	Modulation of lipid metabolism by deep-sea water in cultured human liver (HepG2) cells. 2014 , 16, 219-29	11
425	Vaspin inhibits cytokine-induced nuclear factor-kappa B activation and adhesion molecule expression via AMP-activated protein kinase activation in vascular endothelial cells. 2014 , 13, 41	46
424	Role of AMP-activated protein kinase in cancer therapy. 2014 , 347, 457-68	65
423	CCL5 upregulates activation of AMP-activated protein kinases in vascular smooth muscle cells of spontaneously hypertensive rats. 2014 , 67, 77-84	8
422	Role of AMPK-mediated adaptive responses in human cells with mitochondrial dysfunction to oxidative stress. 2014 , 1840, 1331-44	112
421	Unravelling mitochondrial pathways to Parkinson's disease. <i>British Journal of Pharmacology</i> , 2014 , 171, 1943-57	8.6 70
420	Effects of eugenol on hepatic glucose production and AMPK signaling pathway in hepatocytes and C57BL/6J mice. 2014 , 93, 150-62	21
419	Blood-brain barrier Na transporters in ischemic stroke. 2014 , 71, 113-46	44

418	Exercise, energy intake, glucose homeostasis, and the brain. 2014 , 34, 15139-49	99
417	Central role of 5'-AMP-activated protein kinase in chicken sperm functions. 2014 , 91, 121	46
416	Postnatal overfeeding promotes early onset and exaggeration of high-fat diet-induced nonalcoholic fatty liver disease through disordered hepatic lipid metabolism in rats. 2014 , 25, 1108-1116	20
415	Mangiferin and its aglycone, norathyriol, improve glucose metabolism by activation of AMP-activated protein kinase. 2014 , 52, 68-73	26
414	Activated AMPK explains hypolipidemic effects of sulfated low molecular weight guluronate on HepG2 cells. 2014 , 85, 304-10	15
413	Energy-regulated molecules maintain young status in the trophocytes and fat cells of old queen honeybees. 2014 , 15, 389-400	5
412	Genetic variations in STK11, PRKAA1, and TSC1 associated with prognosis for patients with colorectal cancer. 2014 , 21 Suppl 4, S634-9	14
411	Dibutyltin promotes oxidative stress and increases inflammatory mediators in BV-2 microglia cells. 2014 , 230, 177-87	23
410	20-O-β-D-glucopyranosyl-20(S)-protopanaxadiol suppresses UV-Induced MMP-1 expression through AMPK-mediated mTOR inhibition as a downstream of the PKA-LKB1 pathway. 2014 , 115, 1702-11	26
409	Endoplasmic reticulum stress-mediated autophagy protects against lipopolysaccharide-induced apoptosis in HL-1 cardiomyocytes. 2014 , 99, 1348-58	29
408	Metabolic control of hyaluronan synthases. 2014 , 35, 8-13	115
407	Invited review: Current representation and future trends of predicting amino acid utilization in the lactating dairy cow. 2014 , 97, 4000-17	67
406	The placental mTOR-pathway: correlation with early growth trajectories following intrauterine growth restriction?. 2015 , 6, 317-26	7
405	EIF2A-dependent translational arrest protects leukemia cells from the energetic stress induced by NAMPT inhibition. 2015 , 15, 855	10
404	Dehydrozingerone exerts beneficial metabolic effects in high-fat diet-induced obese mice via AMPK activation in skeletal muscle. 2015 , 19, 620-9	7
403	Nutrient starvation affects expression of LC3 family at the feto-maternal interface during murine placentation. 2015 , 77, 305-11	12
402	Differential crosstalk between the AMPK and PI3K/Akt pathways in breast cancer cells of differing genotypes: Leptin inhibits the effectiveness of AMPK activation. 2015 , 34, 1675-80	17
401	How the Body Talks to the Brain; Peripheral Mediators of Physical Activity-Induced Proliferation in the Adult Hippocampus. 2015 , 1, 5-27	23

400	Chikusetsu saponin IVa regulates glucose uptake and fatty acid oxidation: implications in antihyperglycemic and hypolipidemic effects. 2015 , 67, 997-1007		14
399	Alteration of factors associated with hepatic gluconeogenesis in response to acute lipopolysaccharide in dairy goat. 2015 , 93, 2767-77		7
398	Ursolic acid increases energy expenditure through enhancing free fatty acid uptake and oxidation via an UCP3/AMPK-dependent pathway in skeletal muscle. 2015 , 59, 1491-503		34
397	CYP2J2 overexpression ameliorates hyperlipidemia via increased fatty acid oxidation mediated by the AMPK pathway. 2015 , 23, 1401-13		24
396	Effect of Topical 5-Aminoimidazole-4-carboxamide-1- β -D-Ribofuranoside in a Mouse Model of Experimental Dry Eye. 2015 , 56, 3149-58		21
395	Mitochondria Retrograde Signaling and the UPR mt: Where Are We in Mammals?. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 18224-51	6.3	87
394	Physical exercise in overweight to obese individuals induces metabolic- and neurotrophic-related structural brain plasticity. 2015 , 9, 372		44
393	Anti-diabetic effect of purple corn extract on C57BL/KsJ db/db mice. 2015 , 9, 22-9		45
392	Nitric Oxide-Induced Autophagy in MC3T3-E1 Cells is Associated with Cytoprotection via AMPK Activation. 2015 , 19, 507-14		11
391	Diabetes and its link with cancer: providing the fuel and spark to launch an aggressive growth regime. 2015 , 2015, 390863		25
390	Exercise-mimetic AICAR transiently benefits brain function. <i>Oncotarget</i> , 2015 , 6, 18293-313	3.3	33
389	RA abrogates hepatic gluconeogenesis and insulin resistance by enhancing IRS-1 and AMPK signalling in experimental type 2 diabetes. 2015 , 5, 44053-44067		17
388	An extract of <i>Artemisia dracunculus</i> L. stimulates insulin secretion from β cells, activates AMPK and suppresses inflammation. 2015 , 170, 98-105		20
387	Is AMPK the savior of the failing heart?. 2015 , 26, 40-8		59
386	AMP-activated protein kinase (AMPK) activation inhibits nuclear translocation of Smad4 in mesangial cells and diabetic kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F1167-47		37
385	FK866-induced NAMPT inhibition activates AMPK and downregulates mTOR signaling in hepatocarcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 458, 334-40	3.4	47
384	Supplementation of chitosan alleviates high-fat diet-enhanced lipogenesis in rats via adenosine monophosphate (AMP)-activated protein kinase activation and inhibition of lipogenesis-associated genes. 2015 , 63, 2979-88		43
383	Metformin Suppresses Prostaglandin E2-Induced Cytochrome P450 Aromatase Gene Expression and Activity via Stimulation of AMP-Activated Protein Kinase in Human Endometriotic Stromal Cells. 2015 , 22, 1162-70		15

- 382 Activation of AMPK in human fetal membranes alleviates infection-induced expression of pro-inflammatory and pro-labour mediators. **2015**, 36, 454-62 20
- 381 CTRP3 acts as a negative regulator of osteoclastogenesis through AMPK-c-Fos-NFATc1 signaling in vitro and RANKL-induced calvarial bone destruction in vivo. **2015**, 79, 242-51 30
- 380 Youngiasides A and C Isolated from *Youngia denticulatum* Inhibit UVB-Induced MMP Expression and Promote Type I Procollagen Production via Repression of MAPK/AP-1/NF- κ B and Activation of AMPK/Nrf2 in HaCaT Cells and Human Dermal Fibroblasts. **2015**, 63, 5428-38 54
- 379 Metformin inhibits angiogenesis induced by interaction of hepatocellular carcinoma with hepatic stellate cells. **2015**, 71, 931-6 20
- 378 The role of AMP-activated protein kinase in the androgenic potentiation of cannabinoid-induced changes in energy homeostasis. **2015**, 308, E482-95 21
- 377 The natural olive constituent oleuropein induces nutritional cardioprotection in normal and cholesterol-fed rabbits: comparison with preconditioning. **2015**, 81, 655-63 17
- 376 N-Methyl-N-nitrosourea as a mammary carcinogenic agent. **2015**, 36, 9095-117 31
- 375 Inflammatory Pathways in Diabetes. **2015**, 22
- 374 Prolyl isomerase Pin1 negatively regulates AMP-activated protein kinase (AMPK) by associating with the CBS domain in the β subunit. **2015**, 290, 24255-66 22
- 373 Anti-proliferative Effect of Physcion on Human Gastric Cell Line via Inducing ROS-Dependent Apoptosis. **2015**, 73, 537-543 10
- 372 Inhibition of tumor energy pathways for targeted esophagus cancer therapy. **2015**, 64, 1193-8 23
- 371 6-Gingerol modulates proinflammatory responses in dextran sodium sulfate (DSS)-treated Caco-2 cells and experimental colitis in mice through adenosine monophosphate-activated protein kinase (AMPK) activation. **2015**, 6, 3334-41 43
- 370 Critical role of AMP-activated protein kinase in the balance between mitophagy and mitochondrial biogenesis in MELAS disease. **2015**, 1852, 2535-53 29
- 369 Docosahexaenoic acid attenuates breast cancer cell metabolism and the Warburg phenotype by targeting bioenergetic function. **2015**, 54, 810-20 31
- 368 AMPK in lymphocyte metabolism and function. **2015**, 34, 67-81 21
- 367 Mitochondrial Physiology. **2015**, 39-51 3
- 366 The Avian Subpallium and Autonomic Nervous System. **2015**, 135-163 5
- 365 Hypoglycemic and hypolipidemic properties of polysaccharides from *Enterobacter cloacae* Z0206 in KKAy mice. **2015**, 117, 91-98 70

364	D-Xylose as a sugar complement regulates blood glucose levels by suppressing phosphoenolpyruvate carboxylase (PEPCK) in streptozotocin-nicotinamide-induced diabetic rats and by enhancing glucose uptake in vitro. 2016 , 10, 11-8		10
363	Metabolic Inflammation-Differential Modulation by Dietary Constituents. 2016 , 8,		68
362	Angiotensin II Modulates p130Cas of Podocytes by the Suppression of AMP-Activated Protein Kinase. 2016 , 31, 535-41		3
361	The Different Effects of Atorvastatin and Pravastatin on Cell Death and PARP Activity in Pancreatic NIT-1 Cells. 2016 , 2016, 1828071		5
360	ATP-Induced Inflammasome Activation and Pyroptosis Is Regulated by AMP-Activated Protein Kinase in Macrophages. 2016 , 7, 597		51
359	Knockdown of AMPK Promotes Pulmonary Arterial Smooth Muscle Cells Proliferation via mTOR/Skp2/p27(Kip1) Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	11
358	Isolation of Flavonoids from <i>Deguelia duckeana</i> and Their Effect on Cellular Viability, AMPK, eEF2, eIF2 and eIF4E. <i>Molecules</i> , 2016 , 21,	4.8	7
357	A Comprehensive and System Review for the Pharmacological Mechanism of Action of Rhein, an Active Anthraquinone Ingredient. <i>Frontiers in Pharmacology</i> , 2016 , 7, 247	5.6	62
356	Cilostazol exerts antiplatelet and anti-inflammatory effects through AMPK activation and NF-kB inhibition on hypercholesterolemic rats. 2016 , 30, 327-37		19
355	β-Caryophyllene attenuates palmitate-induced lipid accumulation through AMPK signaling by activating CB2 receptor in human HepG2 hepatocytes. 2016 , 60, 2228-2242		41
354	Diabetes: Geht doch!. 2016 , 32, 208-214		
353	Ghrelin and the Cardiovascular System. 2016 , 24, 288-297		32
352	Preconditioning mice with activators of AMPK ameliorates ischemic acute kidney injury in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F731-F739	4.3	16
351	Elongation of Long-Chain Fatty Acid Family Member 6 (Elovl6)-Driven Fatty Acid Metabolism Regulates Vascular Smooth Muscle Cell Phenotype Through AMP-Activated Protein Kinase/Krüppel-Like Factor 4 (AMPK/KLF4) Signaling. 2016 , 5,		20
350	Overexpression of HER-2 in MDA-MB-435/LCC6 Tumours is Associated with Higher Metabolic Activity and Lower Energy Stress. 2016 , 6, 18537		1
349	Salvianolic Acid B Ameliorates Hyperglycemia and Dyslipidemia in db/db Mice through the AMPK Pathway. 2016 , 40, 933-943		45
348	Adenosine monophosphate-activated protein kinase from the mud crab, <i>Scylla paramamosain</i> : cDNA cloning and profiles under cold stress. 2016 , 95, 923-932		3
347	BRAF V600E inhibition stimulates AMP-activated protein kinase-mediated autophagy in colorectal cancer cells. 2016 , 6, 18949		24

- 346 SNF1-Related Protein Kinase (SnRK) 1 Involved in the Regulation of Raffinose Family Oligosaccharide Metabolism in Cucumber (*Cucumis sativus* L.) Calli. **2016**, 35, 851-864 10
- 345 Alcohol modulates autophagy and apoptosis in pig liver tissue. **2016**, 203, 154-62 8
- 344 Cytosolic malate dehydrogenase regulates RANKL-mediated osteoclastogenesis via AMPK/c-Fos/NFATc1 signaling. *Biochemical and Biophysical Research Communications*, **2016**, 475, 125-32³⁻⁴ 12
- 343 Wasabi leaf extracts attenuate adipocyte hypertrophy through PPAR α and AMPK. **2016**, 80, 1594-601 11
- 342 Protein-Based Calcium Sensors. **2016**, 96-111
- 341 Potential role of marine algae extract on 3T3-L1 cell proliferation and differentiation: an in vitro approach. **2016**, 49, 38 9
- 340 Activation of AMPK α inhibits airway smooth muscle cells proliferation. **2016**, 791, 235-243 18
- 339 Marein protects against methylglyoxal-induced apoptosis by activating the AMPK pathway in PC12 cells. **2016**, 50, 1173-1187 16
- 338 Geniposide Suppresses Hepatic Glucose Production via AMPK in HepG2 Cells. **2016**, 39, 484-91 22
- 337 Biochemical, cell biological, pathological, and therapeutic aspects of Krabbe's disease. **2016**, 94, 990-1006 30
- 336 AMP-Activated Protein Kinase β in Macrophages Promotes Collateral Remodeling and Arteriogenesis in Mice In Vivo. **2016**, 36, 1868-78 19
- 335 Sirtuins. **2016**,
- 334 Sirtuins as Metabolic Modulators of Muscle Plasticity. **2016**, 191-211
- 333 Metabolomics reveals the protective of Dihydromyricetin on glucose homeostasis by enhancing insulin sensitivity. **2016**, 6, 36184 42
- 332 AMP-activated Protein Kinase. **2016**, 7
- 331 AMPK and Cancer. **2016**, 107, 203-226 58
- 330 Dexamethasone rapidly inhibits glucose uptake via non-genomic mechanisms in contracting myotubes. **2016**, 603, 102-9 16
- 329 Response of AMP-activated protein kinase and energy metabolism to acute nitrite exposure in the Nile tilapia *Oreochromis niloticus*. **2016**, 177, 86-97 13

328	AMP-activated protein kinase contributes to zinc-induced neuronal death via activation by LKB1 and induction of Bim in mouse cortical cultures. 2016 , 9, 14		20
327	AMPK promotes osteogenesis and inhibits adipogenesis through AMPK-Gfi1-OPN axis. 2016 , 28, 1270-82		38
326	AMPK-dependent signaling modulates the suppression of invasion and migration by fenofibrate in CAL 27 oral cancer cells through NF- κ B pathway. 2016 , 31, 866-76		31
325	Oxidative Stress Attenuates Lipid Synthesis and Increases Mitochondrial Fatty Acid Oxidation in Hepatoma Cells Infected with Hepatitis C Virus. 2016 , 291, 1974-1990		33
324	AMPK, a metabolic sensor, is involved in isoeugenol-induced glucose uptake in muscle cells. 2016 , 228, 105-14		16
323	Chronic stress-induced memory deficits are reversed by regular exercise via AMPK-mediated BDNF induction. 2016 , 324, 271-85		66
322	C1q/TNF-related protein-9 inhibits cytokine-induced vascular inflammation and leukocyte adhesiveness via AMP-activated protein kinase activation in endothelial cells. 2016 , 419, 235-43		42
321	Berberine Pretreatment Confers Cardioprotection Against Ischemia-Reperfusion Injury in a Rat Model of Type 2 Diabetes. 2016 , 21, 486-94		45
320	Dimethylarginine dimethylaminohydrolase-1 mediates inhibitory effect of interleukin-10 on angiotensin II-induced hypertensive effects in vascular smooth muscle cells of spontaneously hypertensive rats. 2016 , 77, 203-10		8
319	Can physical exercise in old age improve memory and hippocampal function?. 2016 , 139, 662-73		168
318	Combination of deep sea water and leaf extract prevents high-fat diet-induced obesity through AMPK activation in visceral adipose tissue. <i>Experimental and Therapeutic Medicine</i> , 2016 , 11, 338-344	2.1	9
317	Musculoskeletal Disease Associated with Diabetes Mellitus. 2016 ,		3
316	Phosphatidylinositol 3-kinase p110 β mediates phosphorylation of AMP-activated protein kinase in myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 469, 1117-22	3.4	3
315	Adenosine Monophosphate-Activated Protein Kinase (AMPK) as a Diverse Therapeutic Target: A Computational Perspective. 2016 , 178, 810-30		12
314	Pioglitazone treatment increases food intake and decreases energy expenditure partially via hypothalamic adiponectin/adipoR1/AMPK pathway. 2016 , 40, 138-46		17
313	Angiotensin-(1-7) improves non-alcoholic steatohepatitis through an adiponectin-independent mechanism. 2017 , 47, 116-122		6
312	Age-Dependent Changes in AMPK Metabolic Pathways in the Lung in a Mouse Model of Hemorrhagic Shock. 2017 , 56, 585-596		14
311	Induction of apoptosis by Moutan Cortex Radicis in human gastric cancer cells through the activation of caspases and the AMPK signaling pathway. 2017 , 27, 315-323		3

310	Induction of hypothyroidism during early postnatal stages triggers a decrease in cognitive performance by decreasing hippocampal synaptic plasticity. 2017 , 1863, 870-883	22
309	Rescue of mutant rhodopsin traffic by metformin-induced AMPK activation accelerates photoreceptor degeneration. 2017 , 26, 305-319	25
308	Metformin: New Preparations and Nonglycemic Benefits. 2017 , 17, 5	48
307	Dependence On Glycolysis Sensitizes BRAF-mutated Melanomas For Increased Response To Targeted BRAF Inhibition. 2017 , 7, 42604	30
306	Micro-NMR elucidates altered metabolites in the Parkinson disease-related catp-6 genotype of <i>Caenorhabditis elegans</i> . 2017 , 13, 1	1
305	AKIN10, a representative Arabidopsis SNF1-related protein kinase 1 (SnRK1), phosphorylates and downregulates plant HMG-CoA reductase. 2017 , 591, 1159-1166	24
304	Down-regulation of islet amyloid polypeptide expression induces death of human annulus fibrosus cells via mitochondrial and death receptor pathways. 2017 , 1863, 1479-1491	10
303	The role of miR-451 in the switching between proliferation and migration in malignant glioma cells: AMPK signaling, mTOR modulation and Rac1 activation required. 2017 , 50, 1989-1999	33
302	Metformin: clinical topics and new mechanisms of action. 2017 , 8, 4-6	2
301	AMP-activated protein kinase β promotes atherogenesis by increasing monocyte-to-macrophage differentiation. 2017 , 292, 7888-7903	40
300	Ghrelin Facilitates GLUT2-, SGLT1- and SGLT2-mediated Intestinal Glucose Transport in Goldfish (<i>Carassius auratus</i>). 2017 , 7, 45024	20
299	Anti-Tumorigenic Potential of a Novel Orlistat-AICAR Combination in Prostate Cancer Cells. 2017 , 118, 3834-3845	21
298	Clinical Aspects of Glucose Metabolism and Chronic Disease. 2017 , 146, 1-11	7
297	Expression of genes involved in BMP and estrogen signaling and AMPK production can be important factors affecting total number of antral follicles in ewes. 2017 , 91, 36-43	24
296	Ghrelin modulates gene and protein expression of digestive enzymes in the intestine and hepatopancreas of goldfish (<i>Carassius auratus</i>) via the GHS-R1a: Possible roles of PLC/PKC and AC/PKA intracellular signaling pathways. 2017 , 442, 165-181	18
295	The Role of Exercise and TFAM in Preventing Skeletal Muscle Atrophy. 2017 , 232, 2348-2358	66
294	Skeletal muscle PI3K p110 β regulates expression of AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 482, 1420-1426	3-4 1
293	Averrhoa carambola free phenolic extract ameliorates nonalcoholic hepatic steatosis by modulating mircoRNA-34a, mircoRNA-33 and AMPK pathways in leptin receptor-deficient db/db mice. 2017 , 8, 4496-4507	14

292	Baicalin and its metabolites suppresses gluconeogenesis through activation of AMPK or AKT in insulin resistant HepG-2 cells. 2017 , 141, 92-100	28
291	Hit-to-Lead Optimization and Discovery of 5-((5-([1,1'-Biphenyl]-4-yl)-6-chloro-1H-benzo[d]imidazol-2-yl)oxy)-2-methylbenzoic Acid (MK-3903): A Novel Class of Benzimidazole-Based Activators of AMP-Activated Protein Kinase. 2017 , 60, 9040-9052	13
290	Glucagon-like peptide-1 cleavage product GLP-1 (9-36) amide enhances hippocampal long-term synaptic plasticity in correlation with suppression of Kv4.2 expression and eEF2 phosphorylation. 2017 , 27, 1264-1274	9
289	Metastasis-associated in colon cancer 1: A promising biomarker for the metastasis and prognosis of colorectal cancer. 2017 , 14, 3899-3908	14
288	Role of the AMPK pathway in promoting autophagic flux via modulating mitochondrial dynamics in neurodegenerative diseases: Insight into prion diseases. 2017 , 40, 51-63	27
287	AMPK regulates aggregate size and cell-type patterning. 2017 , 7,	9
286	1-Trichloromethyl-1,2,3,4-tetrahydro-beta-carboline (TaClo) Alters Cell Cycle Progression in Human Neuroblastoma Cell Lines. 2017 , 32, 649-660	7
285	Modifying the Dietary Carbohydrate-to-Protein Ratio Alters the Postprandial Macronutrient Oxidation Pattern in Liver of AMPK-Deficient Mice. 2017 , 147, 1669-1676	10
284	Small molecules as therapy for uveitis: a selected perspective of new and developing agents. 2017 , 18, 1311-1323	8
283	Ferulic acid in Lolium multiflorum inhibits adipogenesis in 3T3-L1 cells and reduced high-fat-diet-induced obesity in Swiss albino mice via regulating p38MAPK and p44/42 signal pathways. 2017 , 37, 293-302	30
282	Signaling Architectures that Transmit Unidirectional Information Despite Retroactivity. 2017 , 113, 728-742	8
281	Resistant starch attenuates impaired lipid biosynthesis induced by dietary oxidized oil via activation of insulin signaling pathways. 2017 , 7, 50772-50780	2
280	Hypoxic Stress Forces Adaptive and Maladaptive Placental Stress Responses in Early Pregnancy. 2017 , 109, 1330-1344	8
279	CNV discovery for milk composition traits in dairy cattle using whole genome resequencing. 2017 , 18, 265	40
278	Influence of Plantago ovata husk (dietary fiber) on the bioavailability and other pharmacokinetic parameters of metformin in diabetic rabbits. 2017 , 17, 298	2
277	Simulated microgravity increases myocardial susceptibility to ischemia-reperfusion injury via a deficiency of AMP-activated protein kinase. 2017 , 95, 59-71	3
276	Structural and biochemical insights into the allosteric activation mechanism of AMP-activated protein kinase. 2017 , 89, 663-669	12
275	Emodin alleviates hepatic steatosis by inhibiting sterol regulatory element binding protein 1 activity by way of the calcium/calmodulin-dependent kinase kinase-AMP-activated protein kinase-mechanistic target of rapamycin-p70 ribosomal S6 kinase signaling pathway. 2017 , 47, 683-701	20

- 274 Unsaponifiable Matter from Rice Bran Attenuates High Glucose-Induced Lipid Accumulation by Activating AMPK in HepG2 Cells. **2017**, 41, e12313
- 273 Acetyl-CoA carboxylase rewires cancer metabolism to allow cancer cells to survive inhibition of the Warburg effect by cetuximab. **2017**, 384, 39-49 41
- 272 Mitochondrial Dysfunction and Biogenesis in Neurodegenerative diseases: Pathogenesis and Treatment. **2017**, 23, 5-22 239
- 271 Combined effects of starvation and butyrate on autophagy-dependent gingival epithelial cell death. **2017**, 52, 522-531 12
- 270 Grape seed procyanidin B2 ameliorates hepatic lipid metabolism disorders in db/db mice. *Molecular Medicine Reports*, **2017**, 16, 2844-2850 2.9 27
- 269 Rescue of Learning and Memory Deficits in the Human Nonsyndromic Intellectual Disability Cereblon Knock-Out Mouse Model by Targeting the AMP-Activated Protein Kinase-mTORC1 Translational Pathway. **2018**, 38, 2780-2795 23
- 268 Transcription Factor NRF2 as a Therapeutic Target for Chronic Diseases: A Systems Medicine Approach. **2018**, 70, 348-383 271
- 267 Growth Hormone Secretagogue (A233) Improves Growth and Changes the Tissue Fatty Acid Profile in Juvenile Tilapia (*Oreochromis niloticus*). **2018**, 53, 429-436 3
- 266 Fatty acid metabolism in CD8 T cell memory: Challenging current concepts. **2018**, 283, 213-231 54
- 265 Sertoli Cells. **2018**, 1 1
- 264 Molecular Mechanisms and Signaling Pathways Involved in the Nutritional Support of Spermatogenesis by Sertoli Cells. **2018**, 1748, 129-155 29
- 263 Nutrition therapy: A new criterion for treatment of patients in diverse clinical and metabolic situations. **2018**, 51-52, 13-19 2
- 262 Genetic removal of eIF2 α kinase PERK in mice enables hippocampal L-LTP independent of mTORC1 activity. **2018**, 146, 133-144 11
- 261 Chinese olive extract ameliorates hepatic lipid accumulation in vitro and in vivo by regulating lipid metabolism. **2018**, 8, 1057 23
- 260 Mice with an Oncogenic HRAS Mutation are Resistant to High-Fat Diet-Induced Obesity and Exhibit Impaired Hepatic Energy Homeostasis. **2018**, 27, 138-150 24
- 259 Screening plant derived dietary phenolic compounds for bioactivity related to cardiovascular disease. **2018**, 126, 22-28 20
- 258 Graded levels of a defatted green microalgae inclusion in diets for broiler chicks led to moderate up-regulation of protein synthesis pathway in the muscle and liver. **2018**, 29, 290-296 9
- 257 Comparative transcriptome analysis of hypothalamus-regulated feed intake induced by exogenous visfatin in chicks. **2018**, 19, 249 14

256	Marine polysaccharides attenuate metabolic syndrome by fermentation products and altering gut microbiota: An overview. 2018 , 195, 601-612		59
255	Vanadium(IV)-chlorodipicolinate alleviates hepatic lipid accumulation by inducing autophagy via the LKB1/AMPK signaling pathway in vitro and in vivo. 2018 , 183, 66-76		11
254	Design, synthesis, and structure-activity relationships of novel 4,7,12,12a-tetrahydro-5H-thieno[3',2':3,4]pyrido[1,2-b]isoquinoline and 5,8,12,12a-tetrahydro-6H-thieno[2',3':4,5]pyrido[2,1-a]isoquinoline derivatives as cellular activators of adenosine 5'-monophosphate-activated protein kinase (AMPK). 2018 , 26, 2017-2027		6
253	Hypoglycemic and hypolipidemic effects of fermented milks with added roselle (Hibiscus sabdariffa L.) extract. 2018 , 43, 234-241		14
252	Carbohydrate intake and training efficacy - a randomized cross-over study. 2018 , 36, 942-948		2
251	Upstream kinases of plant SnRKs are involved in salt stress tolerance. 2018 , 93, 107-118		37
250	Antidiabetic activities of entagenic acid in type 2 diabetic db/db mice and L6 myotubes via AMPK/GLUT4 pathway. 2018 , 211, 366-374		21
249	Quercetin-Induced AMP-Activated Protein Kinase Activation Attenuates Vasoconstriction Through LKB1-AMPK Signaling Pathway. 2018 , 21, 146-153		34
248	Restoration of metabolic inflammation-related ghrelin resistance by weight loss. 2018 , 60, 109-118		15
247	AMP-Activated Protein Kinase (AMPK)-Dependent Regulation of Renal Transport. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
246	Abscisic Acid Synthesis, Metabolism and Signal Transduction. 2018 , 1-35		
245	AMPK: Regulation of Metabolic Dynamics in the Context of Autophagy. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	105
244	Ursolic Acid, a Novel Liver X Receptor (LXR) Antagonist Inhibiting Ligand-Induced Nonalcoholic Fatty Liver and Drug-Induced Lipogenesis. 2018 , 66, 11647-11662		17
243	Examining Relationships between Metabolism and Persistent Inflammation in HIV Patients on Antiretroviral Therapy. 2018 , 2018, 6238978		22
242	Effect of Omega-3 Fatty Acid on STAMP2 Expression in the Heart and Kidney of 5/6 Nephrectomy Rat Model. 2018 , 16,		6
241	Nutritional Modulation of AMPK-Impact upon Metabolic-Inflammation. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	56
240	Oleanolic Acid Inhibits Liver X Receptor Alpha and Pregnane X Receptor to Attenuate Ligand-Induced Lipogenesis. 2018 , 66, 10964-10976		17
239	9-O-benzoyl-substituted berberine exerts a triglyceride-lowering effect through AMPK signaling pathway in human hepatoma HepG2 cells. 2018 , 64, 11-17		5

- 238 Deacetylation of NAT10 by Sirt1 promotes the transition from rRNA biogenesis to autophagy upon energy stress. **2018**, 46, 9601-9616 24
- 237 The antidepressant effects of α -tocopherol are related to activation of autophagy via the AMPK/mTOR pathway. **2018**, 833, 1-7 24
- 236 Metformin and AMP Kinase Activation Increase Expression of the Sterol Transporters ABCG5/8 (ATP-Binding Cassette Transporter G5/G8) With Potential Antiatherogenic Consequences. **2018**, 38, 1493-1503²⁰
- 235 2-[2-(4-(trifluoromethyl)phenylamino)thiazol-4-yl]acetic acid (Activator-3) is a potent activator of AMPK. **2018**, 8, 9599 8
- 234 Fucoxanthin ameliorates hyperglycemia, hyperlipidemia and insulin resistance in diabetic mice partially through IRS-1/PI3K/Akt and AMPK pathways. **2018**, 48, 515-524 34
- 233 A comparison of LKB1/AMPK/mTOR metabolic axis response to global ischaemia in brain, heart, liver and kidney in a rat model of cardiac arrest. **2018**, 19, 7 19
- 232 Anti-Diabetic Effects and Anti-Inflammatory Effects of and in Skeletal Muscle: In Vitro and In Vivo Model. **2018**, 10, 22
- 231 PBI-4050 Reduces Stellate Cell Activation and Liver Fibrosis through Modulation of Intracellular ATP Levels and the Liver Kinase B1/AMP-Activated Protein Kinase/Mammalian Target of Rapamycin Pathway. **2018**, 367, 71-81 13
- 230 Paeniflorin attenuates atRAL-induced oxidative stress, mitochondrial dysfunction and endoplasmic reticulum stress in retinal pigment epithelial cells via triggering Ca/CaMKII-dependent activation of AMPK. **2018**, 41, 1009-1018 25
- 229 Heat exposure affects jejunal tight junction remodeling independently of adenosine monophosphate-activated protein kinase in 9-day-old broiler chicks. **2018**, 97, 3681-3690 19
- 228 AMPK activation, eEF2 inactivation, and reduced protein synthesis in the cerebral cortex of hibernating chipmunks. **2019**, 9, 11904 4
- 227 Targeting of lipid metabolism with a metabolic inhibitor cocktail eradicates peritoneal metastases in ovarian cancer cells. **2019**, 2, 281 36
- 226 Molybdenum and Cadmium co-induced the levels of autophagy-related genes via adenosine 5'-monophosphate-activated protein kinase/mammalian target of rapamycin signaling pathway in Shaoxing Duck (*Anas platyrhynchos*) kidney. **2019**, 98, 6533-6541 19
- 225 Extract May Alleviate High Glucose-Induced Arterial Damage and Inflammation. **2019**, 8, 1
- 224 SnRK1 Kinase and the NAC Transcription Factor SOG1 Are Components of a Novel Signaling Pathway Mediating the Low Energy Response Triggered by ATP Depletion. **2019**, 10, 503 10
- 223 Serum deprivation response functions as a tumor suppressor gene in papillary thyroid cancer. **2019**, 96, 418-428 4
- 222 Adipose tissue-specific knockout of AMPK β results in normal AICAR tolerance and glucose metabolism. *Biochemical and Biophysical Research Communications*, **2019**, 519, 633-638 3-4 4
- 221 Systematic Assessment of Blood-Borne MicroRNAs Highlights Molecular Profiles of Endurance Sport and Carbohydrate Uptake. **2019**, 8, 8

220	Hydrogen sulfide protects against high glucose-induced lipid metabolic disturbances in 3T3-L1 adipocytes via the AMPK signaling pathway. <i>Molecular Medicine Reports</i> , 2019 , 20, 4119-4124	2.9	2
219	Roundup-Induced AMPK/mTOR-Mediated Autophagy in Human A549 Cells. 2019 , 67, 11364-11372		11
218	Downregulation of G2/mitotic-specific cyclinB1 triggers autophagy via AMPK-ULK1-dependent signal pathway in nasopharyngeal carcinoma cells. <i>Cell Death and Disease</i> , 2019 , 10, 94	9.8	12
217	Hypoglycemic effects of esculoside A are mediated via activation of AMPK and upregulation of IRS-1. 2019 , 19, 136		2
216	Sorafenib kills liver cancer cells by disrupting SCD1-mediated synthesis of monounsaturated fatty acids the ATP-AMPK-mTOR-SREBP1 signaling pathway. 2019 , 33, 10089-10103		41
215	Metformin Prevents Progression of Experimental Pulmonary Hypertension via Inhibition of Autophagy and Activation of Adenosine Monophosphate-Activated Protein Kinase. 2019 , 56, 117-128		7
214	A GBF1-Dependent Mechanism for Environmentally Responsive Regulation of ER-Golgi Transport. 2019 , 49, 786-801.e6		23
213	Evaluation of metformin in combination with rifampicin containing antituberculosis therapy in patients with new, smear-positive pulmonary tuberculosis (METRIF): study protocol for a randomised clinical trial. 2019 , 9, e024363		20
212	Exercise-induced AMPK activation is involved in delay of skeletal muscle senescence. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 512, 604-610	3.4	19
211	Combination of the natural product capsaicin and docetaxel synergistically kills human prostate cancer cells through the metabolic regulator AMP-activated kinase. 2019 , 19, 54		30
210	Metabolic regulation of inflammasomes in inflammation. 2019 , 157, 95-109		27
209	The secret messages between mitochondria and nucleus in muscle cell biology. 2019 , 666, 52-62		15
208	The protective role of autophagy in sepsis. 2019 , 131, 106-111		11
207	Honokiol induces apoptosis and suppresses migration and invasion of ovarian carcinoma cells via AMPK/mTOR signaling pathway. 2019 , 43, 1969-1978		12
206	Membrane raft-mediated regulation of glucose signaling pathway leading to acrosome reaction in chicken sperm. 2019 , 100, 1482-1491		5
205	Therapeutic Potential of AMP-Activated Protein Kinase in Alzheimer's Disease. 2019 , 68, 33-38		20
204	Acetylshikonin stimulates glucose uptake in L6 myotubes via a PLC- β /PKC ϵ dependent pathway. 2019 , 112, 108588		5
203	Identifying New AMP-Activated Protein Kinase Inhibitors That Protect against Ischemic Brain Injury. 2019 , 10, 2345-2354		3

202	Metformin Modulates the Mechanisms of Ageing. 2019 ,	
201	Full title: High glucose protects mesenchymal stem cells from metformin-induced apoptosis through the AMPK-mediated mTOR pathway. 2019 , 9, 17764	4
200	Quantitative Analysis of Proteome in Non-functional Pituitary Adenomas: Clinical Relevance and Potential Benefits for the Patients. 2019 , 10, 854	6
199	Osteoprotegerin inhibit osteoclast differentiation and bone resorption by enhancing autophagy via AMPK/mTOR/p70S6K signaling pathway in vitro. 2018 , 120, 1630	32
198	The effect of rapamycin treatment on cerebral ischemia: A systematic review and meta-analysis of animal model studies. 2019 , 14, 137-145	12
197	The role of autophagy in the pathogenesis of periodontal disease. 2020 , 26, 259-269	11
196	Peroxisredoxin 5 ameliorates obesity-induced non-alcoholic fatty liver disease through the regulation of oxidative stress and AMP-activated protein kinase signaling. 2020 , 28, 101315	31
195	The active components derived from <i>Penthorum chinense</i> Pursh protect against oxidative-stress-induced vascular injury via autophagy induction. 2020 , 146, 160-180	16
194	Anti-diabetic activities of agaropectin-derived oligosaccharides from <i>Gloiopeltis furcata</i> via regulation of mitochondrial function. 2020 , 229, 115482	8
193	The Race to Bash NASH: Emerging Targets and Drug Development in a Complex Liver Disease. 2020 , 63, 5031-5073	35
192	The intraperitoneal administration of MOTS-c produces antinociceptive and anti-inflammatory effects through the activation of AMPK pathway in the mouse formalin test. 2020 , 870, 172909	7
191	Cardiovascular risk following metformin treatment in patients with type 2 diabetes mellitus: Results from meta-analysis. 2020 , 160, 108001	30
190	Empagliflozin attenuates ischemia and reperfusion injury through LKB1/AMPK signaling pathway. 2020 , 501, 110642	30
189	Mechanism of Zinc Excitotoxicity: A Focus on AMPK. 2020 , 14, 577958	8
188	Sex differences in circadian endocrine rhythms: Clinical implications. 2020 , 52, 2575-2585	14
187	Naa20, the catalytic subunit of NatB complex, contributes to hepatocellular carcinoma by regulating the LKB1-AMPK-mTOR axis. 2020 , 52, 1831-1844	1
186	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. 2020 , 13, 1747-1756	4
185	Rice bran phenolic extract supplementation ameliorates impaired lipid metabolism in high-fat-diet fed mice through AMPK activation in liver. 2020 , 73, 104131	5

184	Capsaicin suppresses liver fat accumulation in high-fat diet-induced NAFLD mice. 2020 , 24, 214-219		8
183	Intestinal Population in Host with Metabolic Syndrome during Administration of Chitosan and Its Derivatives. <i>Molecules</i> , 2020 , 25,	4.8	6
182	Brain-specific suppression of AMPK α isoform impairs cognition and hippocampal LTP by PERK-mediated eIF2 α phosphorylation. 2021 , 26, 1880-1897		9
181	Skeletal muscle of females and males with constitutional thinness: a low intramuscular lipid content and oxidative profile. 2020 , 45, 1287-1298		3
180	Artemether Regulates Metaflammation to Improve Glycolipid Metabolism in db/db Mice. 2020 , 13, 1703-1713		8
179	Induction of Autophagy and Changes in Cellular Metabolism in Glucose Starved C2C12 Myotubes. 2020 , 66, 41-47		4
178	Skeletal muscle AMPK is not activated during 2 h of moderate intensity exercise at ~65% in endurance trained men. 2020 , 598, 3859-3870		14
177	p53 positively regulates osteoprotegerin-mediated inhibition of osteoclastogenesis by downregulating TSC2-induced autophagy in vitro. 2020 , 114, 58-66		0
176	Panobinostat and venetoclax enhance the cytotoxicity of gemcitabine, busulfan, and melphalan in multiple myeloma cells. 2020 , 81, 32-41		5
175	Chicoric acid ameliorate inflammation and oxidative stress in Lipopolysaccharide and d-galactosamine induced acute liver injury. 2020 , 24, 3022-3033		11
174	The Tumor Suppressor Roles of MYBBP1A, a Major Contributor to Metabolism Plasticity and Stemness. 2020 , 12,		7
173	Energetic, antioxidant, inflammatory and cell death responses in the red muscle of thermally stressed <i>Sparus aurata</i> . 2020 , 190, 403-418		10
172	Brain Metabolism Alterations in Type 2 Diabetes: What Did We Learn From Diet-Induced Diabetes Models?. 2020 , 14, 229		24
171	Epigallocatechin-3-gallate activates the AMP-activated protein kinase signaling pathway to reduce lipid accumulation in canine hepatocytes. 2021 , 236, 405-416		4
170	Metformin enhances anti-cancer effects of cisplatin in meningioma through AMPK-mTOR signaling pathways. 2021 , 20, 119-131		16
169	Hypolipidemic properties of organic acids via AMPK/HMGCR/SREBP-1c pathway in vivo. 2021 , 9, 459-468		0
168	Stress relief for cancer immunotherapy: implications for the ER stress response in tumor immunity. 2021 , 70, 1165-1175		4
167	Molecular basis of residual feed intake in broilers. 2021 , 77, 175-189		

166	The small molecule SERCA activator CDN1163 increases energy metabolism in human skeletal muscle cells.. 2021 , 2, 100060		1
165	Effects of long-term taurine supplementation on age-related changes in skeletal muscle function of Sprague-Dawley rats. 2021 , 53, 159-170		5
164	Prkaa1 Metabolically Regulates Monocyte/Macrophage Recruitment and Viability in Diet-Induced Murine Metabolic Disorders. 2020 , 8, 611354		0
163	WW domain-binding protein 2 overexpression prevents diet-induced liver steatosis and insulin resistance through AMPK. <i>Cell Death and Disease</i> , 2021 , 12, 228	9.8	0
162	AMPK Is the Crucial Target for the CDK4/6 Inhibitors Mediated Therapeutic Responses in PANC-1 and MIA PaCa-2 Pancreatic Cancer Cell Lines. 2021 , 1, 48-68		0
161	Modulation of adenine phosphoribosyltransferase-mediated salvage pathway to accelerate diabetic wound healing. 2021 , 35, e21296		1
160	PRIMA-1 induces autophagy in colorectal cancer cells through upregulation of the mTOR/AMPK-ULK1-Vps34 signaling cascade. 2021 , 45,		1
159	Maca extracts regulate glucose and lipid metabolism in insulin-resistant HepG2 cells via the PI3K/AKT signalling pathway. 2021 , 9, 2894-2907		0
158	Adaptive Changes in the Central Control of Energy Homeostasis Occur in Response to Variations in Energy Status. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
157	Lipid Extract From a Vegetable () Attenuates Adipogenesis and High Fat Diet-Induced Obesity Associated With AMPK Activation. 2021 , 8, 624283		1
156	JAK/STAT inhibitor therapy partially rescues the lipodystrophic autoimmune phenotype in Clec16a KO mice. 2021 , 11, 7372		1
155	polysaccharide ameliorates HFD-induced mouse obesity via regulation of lipid metabolism and inflammatory response. <i>Molecular Medicine Reports</i> , 2021 , 24,	2.9	0
154	An AMP-activated protein kinase complex with two distinctive alpha subunits is involved in nutritional stress responses in <i>Trypanosoma cruzi</i> . 2021 , 15, e0009435		1
153	IR-Surviving NSCLC Cells Exhibit Different Patterns of Molecular and Cellular Reactions Relating to the Multifraction Irradiation Regimen and p53-Family Proteins Expression. 2021 , 13,		2
152	Swimming Exercise Promotes Post-injury Axon Regeneration and Functional Restoration through AMPK. 2021 , 8,		1
151	6-Paradol Acts as a Potential Anti-obesity Vanilloid from Grains of Paradise. 2021 , 65, e2100185		1
150	Identification of novel DNA hypermethylation of the adenylate kinase 5 promoter in colorectal adenocarcinoma. 2021 , 11, 12626		1
149	AMPK Signaling in Energy Control, Cartilage Biology, and Osteoarthritis. 2021 , 9, 696602		9

148	RNA-sequencing reveals the metabolism regulation mechanism of sheep skeletal muscle under nutrition deprivation stress. 2021 , 15, 100254		
147	L-citrulline inhibits body weight gain and hepatic fat accumulation by improving lipid metabolism in a rat nonalcoholic fatty liver disease model. 2021 , 9, 4893-4904		1
146	Effects of the circadian rhythm on milk composition in dairy cows: Does day milk differ from night milk?. 2021 , 104, 8301-8313		1
145	A focused review on CB2 receptor-selective pharmacological properties and therapeutic potential of Δ^9 -tetrahydrocannabinol, a dietary cannabinoid. 2021 , 140, 111639		6
144	Effect of Supplementation of Fermented Yeast Culture on Hormones and Their Receptors on Exposure to Higher Temperature and on Production Performance after Exposure in Nicobari Chickens. 2021 , 2021, 5539780		1
143	Dietary Nucleotides Alleviate Hepatic Lipid Deposition via Exogenous AMP-Mediated AMPK Activation in Zebrafish. 2021 , 151, 2986-2996		3
142	Altered Nutrient Uptake Causes Mitochondrial Dysfunction in Senescent CD8+ EMRA T Cells During Type 2 Diabetes. 2021 , 2,		0
141	Improving the post-thaw quality of rooster semen using the extender supplemented with resveratrol. 2021 , 100, 101290		1
140	Apelin/APJ system: A novel therapeutic target for locomotor system diseases. 2021 , 906, 174286		3
139	Imidazopyridazine Acetylcholinesterase Inhibitors Display Potent Anti-Proliferative Effects in the Human Neuroblastoma Cell-Line, IMR-32. <i>Molecules</i> , 2021 , 26,	4.8	3
138	Chronic Restraint Stress-Induced Muscle Atrophy Leads to Fatigue in Mice by Inhibiting the AMPK Signaling Pathway. 2021 , 9,		1
137	Dapagliflozin attenuates steatosis in livers of high-fat diet-induced mice and oleic acid-treated L02 cells via regulating AMPK/mTOR pathway. 2021 , 907, 174304		2
136	Polysaccharides from <i>Volvariella volvacea</i> inhibit fat accumulation in <i>C. elegans</i> dependent on the aak-2/nhr-49-mediated pathway. 2021 , 45, e13912		3
135	Isoform-specific dysregulation of AMP-activated protein kinase signaling in a non-human primate model of Alzheimer's disease. 2021 , 158, 105463		1
134	Animal Models of Metabolic Disorders in the Study of Neurodegenerative Diseases: An Overview. 2020 , 14, 604150		11
133	Potential Uses of Olive Oil Secoiridoids for the Prevention and Treatment of Cancer: A Narrative Review of Preclinical Studies. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	21
132	Variation in Metabolism: Biological Efficiency of Energy Production and Utilization That Affects Feed Efficiency. 251-273		4
131	Does AMP-activated protein kinase couple inhibition of mitochondrial oxidative phosphorylation by hypoxia to pulmonary artery constriction?. 2006 , 580, 147-54; discussion 351-9		9

130	Does AMP-activated protein kinase couple hypoxic inhibition of oxidative phosphorylation to carotid body excitation?. 2006 , 580, 191-6; discussion 351-9	7
129	Endocannabinoids in Energy Homeostasis and Metabolic Disorders. 2008 , 277-316	1
128	Integration of Energy Metabolism and Control of Apoptosis in Tumor Cells. 2009 , 103-129	2
127	Renin-Angiotensin System Proteases and the Cardiometabolic Syndrome: Pathophysiological, Clinical and Therapeutic Implications. 2007 , 87-111	2
126	Energetics and Cancer: Exploring a Road Less Traveled. 2011 , 55-67	5
125	mRNA Translation in Diabetic Nephropathy. 2006 , 97-116	3
124	Hereditary Renal Cell Carcinoma. 2017 , 19-82	1
123	l-Theanine regulates glucose, lipid, and protein metabolism via insulin and AMP-activated protein kinase signaling pathways. 2020 , 11, 1798-1809	17
122	AMPK is associated with the beneficial effects of antidiabetic agents on cardiovascular diseases. 2019 , 39,	30
121	Adiponectin restrains ILC2 activation by AMPK-mediated feedback inhibition of IL-33 signaling. 2021 , 218,	10
120	Signaling architectures that transmit unidirectional information despite retroactivity.	1
119	AMP-activated protein kinase (AMPK) regulates autophagy, inflammation and immunity and contributes to osteoclast differentiation and functionabs. 2020 , 112, 251-264	10
118	AMP-activated protein kinase signaling in metabolic regulation. 2006 , 116, 1776-83	688
117	Liraglutide reduces oxidized LDL-induced oxidative stress and fatty degeneration in Raw 264.7 cells involving the AMPK/SREBP1 pathway. 2015 , 12, 410-6	17
116	Phospholipase D1 mediates AMP-activated protein kinase signaling for glucose uptake. 2010 , 5, e9600	22
115	AtPV42a and AtPV42b redundantly regulate reproductive development in Arabidopsis thaliana. 2011 , 6, e19033	10
114	One-step preservation of phosphoproteins and tissue morphology at room temperature for diagnostic and research specimens. 2011 , 6, e23780	66
113	Insights into the molecular mechanisms of the anti-atherogenic actions of flavonoids in normal and obese mice. 2011 , 6, e24634	41

112	PKC-dependent human monocyte adhesion requires AMPK and Syk activation. 2012 , 7, e40999		34
111	Hypothalamic inhibition of acetyl-CoA carboxylase stimulates hepatic counter-regulatory response independent of AMPK activation in rats. 2013 , 8, e62669		12
110	Ursolic acid inhibits adipogenesis in 3T3-L1 adipocytes through LKB1/AMPK pathway. 2013 , 8, e70135		86
109	Metformin protects rat hepatocytes against bile acid-induced apoptosis. 2013 , 8, e71773		24
108	Thiopental inhibits global protein synthesis by repression of eukaryotic elongation factor 2 and protects from hypoxic neuronal cell death. 2013 , 8, e77258		12
107	Disruption of Fyn SH3 domain interaction with a proline-rich motif in liver kinase B1 results in activation of AMP-activated protein kinase. 2014 , 9, e89604		8
106	Dibenzoylmethane exerts metabolic activity through regulation of AMP-activated protein kinase (AMPK)-mediated glucose uptake and adipogenesis pathways. 2015 , 10, e0120104		13
105	Impact of AMP-Activated Protein Kinase β Deficiency on Tissue Injury following Unilateral Ureteral Obstruction. 2015 , 10, e0135235		12
104	Upregulation of Mitochondrial Content in Cytochrome c Oxidase Deficient Fibroblasts. 2016 , 11, e0165417		16
103	Stress fibers, autophagy and necrosis by persistent exposure to PM2.5 from biomass combustion. 2017 , 12, e0180291		26
102	Immunometabolic cross-talk in the inflamed heart. 2019 , 3, 240-266		10
101	Adipose tissue-derived omentin-1 attenuates arterial calcification via AMPK/Akt signaling pathway. 2019 , 11, 8760-8776		5
100	GPA peptide inhibits NLRP3 inflammasome activation to ameliorate colitis through AMPK pathway. 2020 , 12, 18522-18544		10
99	Alleviation of senescence and epithelial-mesenchymal transition in aging kidney by short-term caloric restriction and caloric restriction mimetics via modulation of AMPK/mTOR signaling. <i>Oncotarget</i> , 2017 , 8, 16109-16121	3-3	43
98	Mechanism of activation of AMPK and upregulation of OGG1 by rapamycin in cancer cells. <i>Oncotarget</i> , 2011 , 2, 958-9	3-3	13
97	Immunohistochemical prediction of lapatinib efficacy in advanced HER2-positive breast cancer patients. <i>Oncotarget</i> , 2016 , 7, 550-64	3-3	4
96	Amino Acid Metabolism in Dairy Cows and their Regulation in Milk Synthesis. 2019 , 20, 36-45		10
95	AMPK/mTOR Signaling in Autophagy Regulation During Cisplatin-Induced Acute Kidney Injury. 2020 , 11, 619730		19

94	Immunologic, metabolic and genetic factors in hepatitis C virus infection. 2014 , 20, 3443-56		26
93	Metformin as an energy restriction mimetic agent for breast cancer prevention. <i>Journal of Carcinogenesis</i> , 2011 , 10, 17	1.9	36
92	Electroacupuncture preconditioning attenuates ischemic brain injury by activation of the adenosine monophosphate-activated protein kinase signaling pathway. <i>Neural Regeneration Research</i> , 2015 , 10, 1069-75	4.5	11
91	UP780, a Chromone-Enriched &Aloe& Composition, Enhances Adipose Insulin Receptor Signaling and Decreases Liver Lipid Biosynthesis. <i>Open Journal of Genetics</i> , 2013 , 03, 9-86	0.2	3
90	Anti-diabetic Effect and Mechanism of Korean Red Ginseng in C57BL/KsJ db/db Mice. <i>Journal of Ginseng Research</i> , 2008 , 32, 187-193	5.8	11
89	Ginseng Leaf Extract Prevents High Fat Diet-Induced Hyperglycemia and Hyperlipidemia through AMPK Activation. <i>Journal of Ginseng Research</i> , 2010 , 34, 369-375	5.8	22
88	The Effect of Urtica dioica Hydro-Alcoholic Extract on Glycemic Index and AMP-Activated Protein Kinase Levels in Diabetic Patients: A Randomized Single-Blind Clinical Trial. <i>Iranian Red Crescent Medical Journal</i> , 2016 , 19,	1.3	2
87	AMP-activated protein kinase fortifies epithelial tight junctions during energetic stress via its effector GIV/Girdin. <i>ELife</i> , 2016 , 5,	8.9	34
86	lncRNA KCNQ1OT1 may function as a competitive endogenous RNA in atrial fibrillation by sponging miR-223-3p. <i>Molecular Medicine Reports</i> , 2021 , 24,	2.9	0
85	Pathology Behind Constant Watery Vaginal Discharge: A Rare Case of Uterine Cervical Minimal Deviation Adenocarcinoma. <i>Cancer Management and Research</i> , 2021 , 13, 7929-7935	3.6	
84	AMPK Regulation of Cardiac Metabolism in Heart Disease. 2008 , 397-410		
83	Metabolicheskaya regulyatsiya i tsAMF-zavisimaya proteinkinaza (AMRK): vrag ili soyuznik?. <i>Diabetes Mellitus</i> , 2008 , 11, 12-17	1.6	
82	CMS and Type 2 Diabetes Mellitus: Bound Together by the Renin Angiotensin Aldosterone System. 2009 , 187-206		
81	n-3?????????????????????????????. <i>Journal of Lipid Nutrition</i> , 2010 , 19, 25-30	0	
80	Effect of exercise and diet intervention on endoplasmic reticulum (ER) stress in rat skeletal muscle and adipose tissue. <i>The Korean Journal of Nutrition</i> , 2012 , 45, 420		
79	AMP-activated protein kinase Activating Agent and Its Implication. <i>Endocrinology and Metabolism</i> , 2012 , 27, 109	3.5	3
78	Therapy of diabetes mellitus and the risk of malignization. <i>Problemy Endokrinologii</i> , 2012 , 58, 52-57	0	1
77	Aberrant Vesicular Trafficking Contributes to Altered Polarity and Metabolism in Cancer. 2013 , 95-123		

76	Water Extract of Fermented New Korean Medicinal Mixture (F-MAPC) Controls Intracellular Adipogenesis and Glut-4 dependent Glucose Uptake in 3T3-L1 Adipocytes and L6 Myoblasts. <i>The Korea Journal of Herbology</i> , 2014 , 29, 45-52		2
75	Inhibition of protein translation by the DISC1-Boymaw fusion gene from a Scottish family with major psychiatric disorders.		
74	Ethanol extract of <i>Plantago asiatica</i> L. controls intracellular fat accumulation and lipid metabolism in 3T3-L1 Adipocytes. <i>The Korea Journal of Herbology</i> , 2014 , 29, 77-82		2
73	Cell and Biological Models for the C Terminal Fragment of Adiponectin Receptor. 2015 , 93-109		
72	Impact of Energy Balance on Chemically Induced Mammary Carcinogenesis in a Rat. <i>Energy Balance and Cancer</i> , 2015 , 175-196	0.2	
71	Sentinel Gene Within Cell Territory and Molecular Platforms in Cancer: Methylation Diversity of p53 Gene in Brain Tumors. 2015 , 221-250		
70	Topic 2. Nutrition and control of muscle mass under situation of metabolic challenge. 2015 , 205-214		
69	Mechanism of Skeletal Muscle Contraction: Intracellular Signaling in Skeletal Muscle Contraction. 2016 , 139-153		
68	AMP-activated protein kinase: A key enzyme to manage nutritional stress responses in parasites with complex life cycles.		
67	Modulation of adenine phosphoribosyltransferase-mediated salvage to promote diabetic wound healing.		
66	Thème 2. Nutrition et contrôle de la masse musculaire dans les sports ^ challenge métabolique. 177-187		
65	Métabolisme du foie. 2007 , 309-321		
64	Stoffwechsel von Phosphoglyceriden, Sphingolipiden und Cholesterin. 2007 , 553-584		
63	Sepsis and AMPK Activation by AICAR Differentially Regulate FoxO-1, -3 and -4 mRNA in Striated Muscle. <i>International Journal of Clinical and Experimental Medicine</i> , 2008 , 1, 50-63		42
62	Dietary restriction and aging in rodents: a current view on its molecular mechanisms. 2010 , 1, 89-107		10
61	Hypoxic preconditioning protects cardiomyocytes against hypoxia/reoxygenation injury through AMPK/eNOS/PGC-1 β signaling pathway. <i>International Journal of Clinical and Experimental Pathology</i> , 2014 , 7, 7378-88	1.4	16
60	Reduction behavior induced by HL010183, a metformin derivative against the growth of cutaneous squamous cell carcinoma. <i>International Journal of Clinical and Experimental Pathology</i> , 2015 , 8, 287-97	1.4	2
59	Retinoic acid aliphatic amide inhibits the AMPK-HIF-1 β pathway in human ovarian cancer. <i>International Journal of Clinical and Experimental Pathology</i> , 2015 , 8, 6416-24	1.4	

58	Saquinone augments cardiomyocyte viability by enhancing autophagy proteins -PI3K, ERK(1/2), AMPK and Beclin-1 during early ischemia-reperfusion injury in vitro. <i>American Journal of Translational Research (discontinued)</i> , 2016 , 8, 3251-65	3	5
57	Mitochondrial physiology Sturkie's book chapter. 2022 , 65-81		
56	Network pharmacology approach to evaluate the therapeutic effects of mulberry leaf components for obesity.. <i>Experimental and Therapeutic Medicine</i> , 2022 , 23, 56	2.1	
55	Metformin Improves Relevant Disease Parameters in an Autosomal Dominant Polycystic Kidney Disease Mouse Model. <i>American Journal of Physiology - Renal Physiology</i> , 2021 ,	4.3	3
54	Endothelial AMPK β /PRKAA1 exacerbates inflammation in HFD-fed mice. <i>British Journal of Pharmacology</i> , 2021 ,	8.6	
53	Natural AMPK Activators in Cardiovascular Disease Prevention.. <i>Frontiers in Pharmacology</i> , 2021 , 12, 738420	4.0	1
52	A new insight into cell biological and biochemical changes through aging.. <i>Acta Histochemica</i> , 2022 , 124, 151841	2	4
51	What should be responsible for eryptosis in chronic kidney disease?. <i>Kidney and Blood Pressure Research</i> , 2022 ,	3.1	1
50	ABT199/venetoclax potentiates the cytotoxicity of alkylating agents and fludarabine in acute myeloid leukemia cells.. <i>Oncotarget</i> , 2022 , 13, 319-330	3.3	1
49	Effects of Metformin in Heart Failure: From Pathophysiological Rationale to Clinical Evidence.. <i>Biomolecules</i> , 2021 , 11,	5.9	7
48	Effects of hypercaloric diet-induced hyperinsulinemia and hyperlipidemia on the ovarian follicular development in mice.. <i>Journal of Reproduction and Development</i> , 2022 ,	2.1	
47	Ameliorative Effects of Malonyl Ginsenoside from on Glucose-Lipid Metabolism and Insulin Resistance via IRS1/PI3K/Akt and AMPK Signaling Pathways in Type 2 Diabetic Mice.. <i>The American Journal of Chinese Medicine</i> , 2022 , 1-20	6	0
46	Exendin-4 Preserves Blood-Brain Barrier Integrity Glucagon-Like Peptide 1 Receptor/Activated Protein Kinase-Dependent Nuclear Factor-Kappa B/Matrix Metalloproteinase-9 Inhibition After Subarachnoid Hemorrhage in Rat.. <i>Frontiers in Molecular Neuroscience</i> , 2021 , 14, 750726	6.1	1
45	Image_1.pdf. 2019 ,		
44	Table_1.xls. 2019 ,		
43	Table_10.xls. 2019 ,		
42	Table_11.xls. 2019 ,		
41	Table_12.xls. 2019 ,		

40 Table_2.xls. 2019,

39 Table_3.xls. 2019,

38 Table_4.xls. 2019,

37 Table_5.xls. 2019,

36 Table_6.xls. 2019,

35 Table_7.xls. 2019,

34 Table_8.xls. 2019,

33 Table_9.xls. 2019,

32 Image_1.jpg. 2019,

31 Image_2.jpg. 2019,

30 Image_3.jpg. 2019,

29 Image_4.jpg. 2019,

28 Table_1.docx. 2019,

27 Bge. (Danshen) in the Treating Non-alcoholic Fatty Liver Disease Based on the Regulator of Metabolic Targets.. *Frontiers in Cardiovascular Medicine*, 2022, 9, 842980 5.4 0

26 Polygonatum sibiricum polysaccharides protect against obesity and non-alcoholic fatty liver disease in rats fed a high-fat diet. *Food Science and Human Wellness*, 2022, 11, 1045-1052 8.3 1

25 Mitochondrial Calcium Disorder Affects Early Embryonic Development in Mice through Regulating the ERK/MAPK Pathway. *Oxidative Medicine and Cellular Longevity*, 2022, 2022, 1-18 6.7

24 Anti-Obesity Effect of Dyglomera Is Associated with Activation of the AMPK Signaling Pathway in 3T3-L1 Adipocytes and Mice with High-Fat Diet-Induced Obesity. *Molecules*, 2022, 27, 3288 4.8

23 The Beneficial Effects of Chinese Herbal Monomers on Ameliorating Diabetic Cardiomyopathy via Nrf2 Signaling. *Oxidative Medicine and Cellular Longevity*, 2022, 2022, 1-15 6.7 0

22	SNF1-Related Protein Kinase 1 Activity Represses the Canonical Translational Machinery. <i>Plants</i> , 2022 , 11, 1359	4.5	○
21	AMPK and the Challenge of Treating Hypoxic Pulmonary Hypertension. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6205	6.3	○
20	Identification of an Epi-metabolic dependency on EHMT2/G9a in T-cell acute lymphoblastic leukemia. <i>Cell Death and Disease</i> , 2022 , 13,	9.8	○
19	Marimastat alleviates cell senescence induced by oxidative stress by activation of autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2022 ,	3.4	
18	Amycnone reduces excess body weight and attenuates hyperlipidaemia by inhibiting lipogenesis and promoting lipolysis and fatty acid oxidation in KK-Ay obese diabetic mice. <i>Journal of Nutritional Science</i> , 2022 , 11,	2.7	
17	Lysophosphatidylcholine induces adenosine release from macrophages via TRPM7-mediated mitochondrial activation. <i>Purinergic Signalling</i> ,	3.8	
16	Stress-responsive AMP Kinase like protein regulates encystation of <i>Entamoeba invadens</i> . <i>Molecular and Biochemical Parasitology</i> , 2022 , 251, 111507	1.9	
15	AMPK/SIRT1 Deficiency Drives Adjuvant-Induced Arthritis in Rats by Promoting Glycolysis-Mediated Monocytes Inflammatory Polarization. Volume 15, 4663-4675		1
14	A Novel and Cross-Species Active Mammalian INDY (NaCT) Inhibitor Ameliorates Hepatic Steatosis in Mice with Diet-Induced Obesity. 2022 , 12, 732		1
13	Transcriptome reveals insights into hepatic nutritional metabolism and gill immune responses adapted to cold stress in genetically improved farmed tilapia (GIFT: <i>Oreochromis niloticus</i>). 2022 , 26, 101297		1
12	The effects of <i>Allomyrina dichotoma</i> larval extract on palmitate-induced insulin resistance in skeletal muscle cells. 2022 , 55, 462		○
11	A neglected neurodegenerative disease: Adult-onset globoid cell leukodystrophy. 16,		○
10	Schisandrin C isolated from <i>Schisandra chinensis</i> fruits inhibits lipid accumulation by regulating adipogenesis and lipolysis through AMPK signaling in 3T3-L1 adipocytes.		○
9	Stoffwechsel von Cholesterin. 2022 , 379-388		○
8	Narciclasine ameliorated T cell mediated acute liver injury through activating AMPK pathway. 2022 , 382, 104631		○
7	The Role of Mitochondrial Enzymes, Succinate-Coupled Signaling Pathways and Mitochondrial Ultrastructure in the Formation of Urgent Adaptation to Acute Hypoxia in the Myocardium. 2022 , 23, 14248		○
6	Metabolites of De Novo Purine Synthesis: Metabolic Regulators and Cytotoxic Compounds. 2022 , 12, 1210		○
5	Loss of brain energy metabolism control as a driver for memory impairment upon insulin resistance.		○

- 4 Rapid metabolic reprogramming mediated by the AMP-activated protein kinase during the lytic cycle of *Toxoplasma gondii*. **2023**, 14,
- 3 Forsythoside A regulates autophagy and apoptosis through the AMPK/mTOR/ULK1 pathway and alleviates inflammatory damage in MAC-T cells. **2023**, 118, 110053
- 2 Antioxidant activity of *Oenanthe stolonifera* D.C extract and AMPK activation on human liver cancer cells by anticancer effects. 43,
- 1 SnRK1 signaling regulates cucumber growth and resistance to *Corynespora cassiicola*. **2023**, 111716