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The pivotal role of pyruvate dehydrogenase kinases in metabolic flexibility

DOI: 10.1186/1743-7075-11-10 Nutrition and Metabolism, 2014, 11, 10.

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#	Paper	IF	Citations
280	The role of pyruvate dehydrogenase kinase in diabetes and obesity. 2014 , 38, 181-6		51
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278	Elements of the cellular metabolic structure. 2015 , 2, 16		24
277	The Intra- or Extracellular Redox State Was Not Affected by a High vs. Low Glycemic Response Diet in Mice. 2015 , 10, e0128380		2
276	AMP-Activated Protein Kinase Interacts with the Peroxisome Proliferator-Activated Receptor Delta to Induce Genes Affecting Fatty Acid Oxidation in Human Macrophages. 2015 , 10, e0130893		13
275	Autophagy-associated atrophy and metabolic remodeling of the mouse diaphragm after short-term intermittent hypoxia. 2015 , 10, e0131068		14
274	Soybean Oil Is More Obesogenic and Diabetogenic than Coconut Oil and Fructose in Mouse: Potential Role for the Liver. 2015 , 10, e0132672		58
273	Metabolic modeling of muscle metabolism identifies key reactions linked to insulin resistance phenotypes. 2015 , 4, 151-63		22
272	Overexpression of pyruvate dehydrogenase kinase supports dichloroacetate as a candidate for cutaneous melanoma therapy. 2015 , 19, 733-45		15
271	Differing roles of pyruvate dehydrogenase kinases during mouse oocyte maturation. 2015 , 128, 2319-2	29	21
270	Total body exposure to low-dose ionizing radiation induces long-term alterations to the liver proteome of neonatally exposed mice. 2015 , 14, 366-73		31
269	Ablation of Lgr4 enhances energy adaptation in skeletal muscle via activation of Ampk/Sirt1/Pgc1\(\text{H}\) pathway. 2015 , 464, 396-400		9
268	Salt-inducible Kinase 3 Signaling Is Important for the Gluconeogenic Programs in Mouse Hepatocytes. 2015 , 290, 17879-17893		36
267	Microarray and Co-expression Network Analysis of Genes Associated with Acute Doxorubicin Cardiomyopathy in Mice. 2015 , 15, 377-93		10
266	Development of pyruvate dehydrogenase kinase inhibitors in medicinal chemistry with particular emphasis as anticancer agents. 2015 , 20, 1112-9		52
265	Hemorrhagic shock-induced cerebral bioenergetic imbalance is corrected by pharmacologic treatment with EF24 in a rat model. 2015 , 99, 318-27		4
264	Low levels of lipopolysaccharide modulate mitochondrial oxygen consumption in skeletal muscle. 2015 , 64, 416-27		32

(2017-2016)

263	Mechanisms of Vascular Calcification: The Pivotal Role of Pyruvate Dehydrogenase Kinase 4. 2016 , 31, 52-61	22
262	miR-182 Regulates Metabolic Homeostasis by Modulating Glucose Utilization in Muscle. 2016 , 16, 757-68	43
261	Increased oxidative phosphorylation in response to acute and chronic DNA damage. 2016, 2, 16022	52
260	Inositol Hexakisphosphate Kinase 3 Regulates Metabolism and Lifespan in Mice. 2016 , 6, 32072	35
259	Hydroxybutyric Acid Is a Selective Metabolite Biomarker of Impaired Glucose Tolerance. 2016 , 39, 988-95	59
258	Imidacloprid Promotes High Fat Diet-Induced Adiposity and Insulin Resistance in Male C57BL/6J Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 9293-9306	58
257	Shared gene expression patterns in mesenchymal progenitors derived from lung and epidermis in pulmonary arterial hypertension: identifying key pathways in pulmonary vascular disease. 2016 , 6, 483-497	16
256	Metabolic profiling indicates impaired pyruvate dehydrogenase function in myalgic encephalopathy/chronic fatigue syndrome. 2016 , 1, e89376	93
255	Selective Phosphorylation Inhibitor of Delta Protein Kinase C-Pyruvate Dehydrogenase Kinase Protein-Protein Interactions: Application for Myocardial Injury in Vivo. 2016 , 138, 7626-35	25
254	Effects of a healthy Nordic diet on gene expression changes in peripheral blood mononuclear cells in response to an oral glucose tolerance test in subjects with metabolic syndrome: a SYSDIET sub-study. 2016 , 11, 3	16
253	Mitochondria in mesenchymal stem cell biology and cell therapy: From cellular differentiation to mitochondrial transfer. 2016 , 52, 119-31	90
252	Retinoblastoma Protein Knockdown Favors Oxidative Metabolism and Glucose and Fatty Acid Disposal in Muscle Cells. 2016 , 231, 708-18	9
251	Comparative microarray analyses of mono(2-ethylhexyl)phthalate impacts on fat cell bioenergetics and adipokine network. 2017 , 33, 511-526	15
250	Insights into the Regulation of Spring Migration in Songbirds. 2017 , 625-642	0
249	Oncogenic role of PDK4 in human colon cancer cells. 2017 , 116, 930-936	55
248	The Mitochondrial Rhomboid Protease PARL Is Regulated by PDK2 to Integrate Mitochondrial Quality Control and Metabolism. 2017 , 18, 1458-1472	40
247	A deletion variant partially complements a porin-less strain of Neurospora crassa. 2017 , 95, 318-327	4
246	Thermodynamics in cancers: opposing interactions between PPAR gamma and the canonical WNT/beta-catenin pathway. 2017 , 6, 14	48

245	Oxidative stress: a key regulator of leiomyoma cell survival. 2017 , 107, 1387-1394.e1		10
244	The physiological and molecular response of Aurelia sp.1 under hypoxia. 2017 , 7, 1558		3
243	Substrate Selection and Its Impact on Mitochondrial Respiration and Redox. 2017, 349-375		3
242	Treatment of Pancreatic Cancer Patient-Derived Xenograft Panel with Metabolic Inhibitors Reveals Efficacy of Phenformin. 2017 , 23, 5639-5647		50
241	MicroRNA regulation and analytical methods in cancer cell metabolism. 2017, 74, 2929-2941		25
240	Preeclampsia: novel insights from global RNA profiling of Irophoblast subpopulations. 2017 , 217, 200.e1	I-200.	.e <i>ჭ∄</i>
239	Anemone rivularis inhibits pyruvate dehydrogenase kinase activity and tumor growth. 2017 , 203, 47-54		14
238	Pyruvate dehydrogenase kinase 4 deficiency attenuates cisplatin-induced acute kidney injury. 2017 , 91, 880-895		48
237	protects cardiac cells against hypoxia through modulation of glucose metabolism by targetting pyruvate dehydrogenase kinase 1. 2017 , 37,		13
236	Nanoformulated copper/zinc superoxide dismutase exerts differential effects on glucose vs lipid homeostasis depending on the diet composition possibly via altered AMPK signaling. 2017 , 188, 10-26		18
235	Hyperpolarized C MR metabolic imaging can detect neuroinflammation in vivo in a multiple sclerosis murine model. 2017 , 114, E6982-E6991		45
234	The microRNA-182-PDK4 axis regulates lung tumorigenesis by modulating pyruvate dehydrogenase and lipogenesis. 2017 , 36, 989-998		52
233	Thermodynamics in Gliomas: Interactions between the Canonical WNT/Beta-Catenin Pathway and PPAR Gamma. 2017 , 8, 352		47
232	Adverse Intrauterine Environment and Cardiac miRNA Expression. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	14
231	Interactions between PPAR Gamma and the Canonical Wnt/Beta-Catenin Pathway in Type 2 Diabetes and Colon Cancer. 2017 , 2017, 5879090		60
230	Dietary macronutrient distribution influences postexercise substrate utilization in women: a cross-sectional evaluation of metabolic flexibility. 2017 , 57, 580-588		
229	Treating patients suffering from myalgic encephalopathy/chronic fatigue syndrome (ME/CFS) with sodium dichloroacetate: An open-label, proof-of-principle pilot trial. 2018 , 114, 45-48		12
228	Doxorubicin triggers bioenergetic failure and p53 activation in mouse stem cell-derived cardiomyocytes. <i>Toxicology and Applied Pharmacology</i> , 2018 , 348, 1-13	4.6	27

227	Aerobic glycolysis in amyotrophic lateral sclerosis and Huntington's disease. 2018 , 29, 547-555	23
226	Metabolic Flexibility as an Adaptation to Energy Resources and Requirements in Health and Disease. 2018 , 39, 489-517	172
225	Targeting hepatic pyruvate dehydrogenase kinases restores insulin signaling and mitigates ChREBP-mediated lipogenesis in diet-induced obese mice. 2018 , 12, 12-24	22
224	Current understanding and future perspectives of the roles of sirtuins in the reprogramming and differentiation of pluripotent stem cells. 2018 , 243, 563-575	21
223	Thermodynamics in Neurodegenerative Diseases: Interplay Between Canonical WNT/Beta-Catenin Pathway-PPAR Gamma, Energy Metabolism and Circadian Rhythms. 2018 , 20, 174-204	25
222	Unique Metabolic Adaptations Dictate Distal Organ-Specific Metastatic Colonization. 2018 , 33, 347-354	81
221	Analysis of the regulatory mechanism of deoxynivalenol production using omics. 2018, 8, 161	
220	Deep Multi-OMICs and Multi-Tissue Characterization in a Pre- and Postprandial State in Human Volunteers: The GEMM Family Study Research Design. 2018 , 9,	4
219	Efferocytosis induces a novel SLC program to promote glucose uptake and lactate release. 2018 , 563, 714-718	115
218	The scale-free nature of protein sequence space. 2018 , 13, e0200815	9
218	The scale-free nature of protein sequence space. 2018, 13, e0200815 Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019, 148, 63-79	9
	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons	
217	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019 , 148, 63-79 Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between	15
217	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019 , 148, 63-79 Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between Clocks. 2018 , 174, 1571-1585.e11 Proteomics of the Rat Myocardium during Development of Type 2 Diabetes Mellitus Reveals	15 157
217 216 215	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019, 148, 63-79 Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between Clocks. 2018, 174, 1571-1585.e11 Proteomics of the Rat Myocardium during Development of Type 2 Diabetes Mellitus Reveals Progressive Alterations in Major Metabolic Pathways. 2018, 17, 2521-2532	15 157 9
217 216 215	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019, 148, 63-79 Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between Clocks. 2018, 174, 1571-1585.e11 Proteomics of the Rat Myocardium during Development of Type 2 Diabetes Mellitus Reveals Progressive Alterations in Major Metabolic Pathways. 2018, 17, 2521-2532 [Aerobic glycolysis activation through canonical WNT/Etatenin pathway in ALS]. 2018, 34, 326-330 Liquid Chromatography-Tandem Mass Spectrometry Method Revealed that Lung Cancer Cells Exhibited Distinct Metabolite Profiles upon the Treatment with Different Pyruvate Dehydrogenase	15 157 9
217 216 215 214 213	Astrocyte support is important for the compensatory potential of the nigrostriatal system neurons during early neurodegeneration. 2019, 148, 63-79 Atlas of Circadian Metabolism Reveals System-wide Coordination and Communication between Clocks. 2018, 174, 1571-1585.e11 Proteomics of the Rat Myocardium during Development of Type 2 Diabetes Mellitus Reveals Progressive Alterations in Major Metabolic Pathways. 2018, 17, 2521-2532 [Aerobic glycolysis activation through canonical WNT/Etatenin pathway in ALS]. 2018, 34, 326-330 Liquid Chromatography-Tandem Mass Spectrometry Method Revealed that Lung Cancer Cells Exhibited Distinct Metabolite Profiles upon the Treatment with Different Pyruvate Dehydrogenase Kinase Inhibitors. 2018, 17, 3012-3021	15 157 9 3

209	Exploring the cellular network of metabolic flexibility in the adipose tissue. 2018 , 13, 17	7
208	LETM1 couples mitochondrial DNA metabolism and nutrient preference. 2018 , 10,	21
207	Quantitative proteomic characterization of cellular pathways associated with altered insulin sensitivity in skeletal muscle following high-fat diet feeding and exercise training. 2018 , 8, 10723	22
206	Hsp90[knockdown in DIO mice reverses insulin resistance and improves glucose tolerance. Nutrition and Metabolism, 2018 , 15, 11 4.6	7
205	Warburg effect hypothesis in autism Spectrum disorders. 2018 , 11, 1	47
204	Deficiency of pyruvate dehydrogenase kinase 4 sensitizes mouse liver to diethylnitrosamine and arsenic toxicity through inducing apoptosis. 2018 , 2, 100-107	4
203	Dichloroacetate, an inhibitor of pyruvate dehydrogenase kinases, inhibits platelet aggregation and arterial thrombosis. 2018 , 2, 2029-2038	19
202	Changes in insulin, glucagon and ER stress precede immune activation in type 1 diabetes. 2018 , 239, 181-195	7
201	Defining the contribution of skeletal muscle pyruvate dehydrogenase # to exercise performance and insulin action. 2018 , 315, E1034-E1045	8
200	TGR5 activation induces cytoprotective changes in the heart and improves myocardial adaptability to physiologic, inotropic, and pressure-induced stress in mice. 2018 , 36, e12462	24
199	Depletion of Sirt3 leads to the impairment of adipogenic differentiation and insulin resistance via interfering mitochondrial function of adipose-derived human mesenchymal stem cells. 2018 , 52, 1398-1415	11
198	Altered tricarboxylic acid cycle flux in primary myotubes from severely obese humans. 2019 , 43, 895-905	12
197	Effects of long-term feeding of rapeseed meal on skeletal muscle transcriptome, production efficiency and meat quality traits in Norwegian Landrace growing-finishing pigs. 2019 , 14, e0220441	9
196	The Importance of Gender-Related Anticancer Research on Mitochondrial Regulator Sodium Dichloroacetate in Preclinical Studies In Vivo. 2019 , 11,	3
195	Metabolic reorganization in winter: Regulation of pyruvate dehydrogenase (PDH) during long-term freezing and anoxia. 2019 , 86, 10-18	7
194	Exposure to environmental radionuclides is associated with altered metabolic and immunity pathways in a wild rodent. 2019 , 28, 4620-4635	14
193	Logical modelling reveals the PDC-PDK interaction as the regulatory switch driving metabolic flexibility at the cellular level. 2019 , 14, 27	5
192	Breed, Diet, and Interaction Effects on Adipose Tissue Transcriptome in Iberian and Duroc Pigs Fed Different Energy Sources. 2019 , 10,	13

A mitochondria-targeted fatty acid analogue influences hepatic glucose metabolism and reduces the plasma insulin/glucose ratio in male Wistar rats. 2019 , 14, e0222558	2
FOXK1 and FOXK2 regulate aerobic glycolysis. 2019 , 566, 279-283	54
Deficiency of Soluble Epoxide Hydrolase Protects Cardiac Function Impaired by LPS-Induced Acute Inflammation. 2018 , 9, 1572	15
Molecular interactions underpinning the phenotype of hibernation in mammals. 2019 , 222,	38
2,4-Thiazolidinedione in Well-Fed Lactating Dairy Goats: I. Effect on Adiposity and Milk Fat Synthesis. 2019 , 6,	3
Huzhangoside A Suppresses Tumor Growth through Inhibition of Pyruvate Dehydrogenase Kinase Activity. 2019 , 11,	13
Adaptations in Protein Expression and Regulated Activity of Pyruvate Dehydrogenase Multienzyme Complex in Human Systolic Heart Failure. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 4532592 ^{6.7}	17
Warburg-like effect is a hallmark of complex I assembly defects. 2019 , 1865, 2475-2489	2
The Effects of Sodium Dichloroacetate on Mitochondrial Dysfunction and Neuronal Death Following Hypoglycemia-Induced Injury. <i>Cells</i> , 2019 , 8,	14
Nephroprotective Effect of Embryonic Stem Cells Reducing Lipid Peroxidation in Kidney Injury Induced by Cisplatin. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 5420624	8
How Hypertension Affects Heart Metabolism. 2019 , 10, 435	10
A Slow-Digesting Carbohydrate Diet during Rat Pregnancy Protects Offspring from Non-Alcoholic Fatty Liver Disease Risk through the Modulation of the Carbohydrate-Response Element and Sterol Regulatory Element Binding Proteins. 2019 , 11,	7
Retrodifferentiation of Human Tumor Hepatocytes to Stem Cells Leads to Metabolic Reprogramming and Chemoresistance. 2019 , 79, 1869-1883	25
Cardiac Specific Knockout of p53 Decreases ER Stress-Induced Mitochondrial Damage. 2019 , 6, 10	16
lncRNA PCAT19 promotes the proliferation of laryngocarcinoma cells via modulation of the miR-182/PDK4 axis. 2019 , 120, 12810-12821	28
Inhibition of PPARHarget genes during cyclosporine A-induced nephrotoxicity and hepatotoxicity. 2019 , 15, 185-197	5
Geniposide Improves Glucose Homeostasis via Regulating FoxO1/PDK4 in Skeletal Muscle. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 4483-4492	16
Increase in muscle endurance in mice by dietary Yamabushitake mushroom (Hericium erinaceus) possibly via activation of PPAR[] 2019 , 90, 781-789	3
	The Effects of Sodium Dichloroacetate on Mitochondrial Dysfunction and Neuronal Death Following Hypoglycemia-Induced Inflading Hypoglycemia-Induced Induced Inflading Hypoglycemia-Induced Induced Induc

173	High Levels of Prebiotic Resistant Starch in Diet Modulate Gene Expression and Metabolomic Profile in Pancreatic Cancer Xenograft Mice. 2019 , 11,		6
172	Lipid and glucose metabolism in hepatocyte cell lines and primary mouse hepatocytes: a comprehensive resource for in vitro studies of hepatic metabolism. 2019 , 316, E578-E589		32
171	Condensin II protein dysfunction impacts mitochondrial respiration and mitochondrial oxidative stress responses. 2019 , 132,		1
170	Proteomics Recapitulates Ovarian Proteins Relevant to Puberty and Fertility in Brahman Heifers (L.). 2019 , 10,		6
169	Effects of cold exposure revealed by global transcriptomic analysis in ferret peripheral blood mononuclear cells. 2019 , 9, 19985		4
168	Metabolic Imaging Reveals a Unique Preference of Symmetric Cell Division and Homing of Leukemia-Initiating Cells in an Endosteal Niche. 2019 , 29, 950-965.e6		27
167	Diets contaminated with Bisphenol A and Di-isononyl phtalate modify skeletal muscle composition: A new target for environmental pollutant action. 2019 , 658, 250-259		10
166	PDK4 Augments ER-Mitochondria Contact to Dampen Skeletal Muscle Insulin Signaling During Obesity. 2019 , 68, 571-586		56
165	Postnatal induction of muscle fatty acid oxidation in mice differing in propensity to obesity: a role of pyruvate dehydrogenase. 2020 , 44, 235-244		2
164	Aberrant PDK4 Promoter Methylation Preceding Hyperglycemia in a Mouse Model. 2020 , 190, 1023-1034		1
163	Prenatal low-dose DEHP exposure induces metabolic adaptation and obesity: Role of hepatic thiamine metabolism. 2020 , 385, 121534		21
162	The neglected foodborne mycotoxin Fusaric acid induces bioenergetic adaptations by switching energy metabolism from mitochondrial processes to glycolysis in a human liver (HepG2) cell line. 2020 , 318, 74-85		6
161	Mice deficient in pyruvate dehydrogenase kinase 4 are protected against acetaminophen-induced hepatotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2020 , 387, 114849	6	10
160	Dissociation of Muscle Insulin Resistance from Alterations in Mitochondrial Substrate Preference. 2020 , 32, 726-735.e5		10
159	The role of DNA methylation in the pathogenesis of type 2 diabetes mellitus. 2020 , 12, 104		17
158	Transcriptional and free radical responses to LVAD therapy. 2020 , 5,		
157	Integrated Analysis of Tissue-Specific Promoter Methylation and Gene Expression Profile in Complex Diseases. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	3	3
156	Adaptive Fat Oxidation Is Coupled with Increased Lipid Storage in Adipose Tissue of Female Mice Fed High Dietary Fat and Sucrose. 2020 , 12,		2

(2020-2020)

155	Metabolic regulation in HPV associated head and neck squamous cell carcinoma. 2020, 258, 118236	6
154	Bovine Oviduct Epithelial Cell-Derived Culture Media and Exosomes Improve Mitochondrial Health by Restoring Metabolic Flux during Pre-Implantation Development. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	4
153	Pathophysiological significance of calcium signaling at Mitochondria-Associated Endoplasmic Reticulum Membranes (MAMs). 2020 , 17, 234-242	4
152	Long Non-coding RNAs Involved in Metabolic Alterations in Breast and Prostate Cancers. 2020 , 10, 593200	2
151	Dietary Complex and Slow Digestive Carbohydrates Prevent Fat Deposits During Catch-Up Growth in Rats. 2020 , 12,	2
150	Transcriptome Analysis of Testis from HFD-Induced Obese Rats () Indicated Predisposition for Male Infertility. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	1
149	Stimulation of glycolysis promotes cardiomyocyte proliferation after injury in adult zebrafish. 2020 , 21, e49752	20
148	Exposure to perfluoroalkylated substances (PFAS) in relation to fitness, physical activity, and adipokine levels in childhood: The european youth heart study. 2020 , 191, 110110	7
147	Excitotoxicity and Overnutrition Additively Impair Metabolic Function and Identity of Pancreatic Ecells. 2020 , 69, 1476-1491	7
146	Effect of Cod Residual Protein Supplementation on Markers of Glucose Regulation in Lean Adults: A Randomized Double-Blind Study. 2020 , 12,	1
145	Expression and prognostic significance of pyruvate dehydrogenase kinase 1 in bladder urothelial carcinoma. 2020 , 477, 637-649	4
144	Advanced glycation end products enhance macrophage polarization to the M1 phenotype via the HIF-1 PDK4 pathway. 2020 , 514, 110878	12
143	Plasma Lactate as a Marker for Metabolic Health. 2020 , 48, 119-124	9
142	Untargeted metabolomics analysis on Cicer arietinium LInduced Amelioration in T2D rats by UPLC-Q-TOF-MS/MS. 2020 , 261, 113013	3
141	Phthalate exposure causes browning-like effects on adipocytes in vitro and in vivo. 2020 , 142, 111487	6
140	Metabolic host response and therapeutic approaches to influenza infection. 2020 , 25, 15	26
139	The influence of rare variants in circulating metabolic biomarkers. 2020 , 16, e1008605	3
138	Mitochondrial Function in Muscle Stem Cell Fates. 2020 , 8, 480	20

137	Mitochondrial Utilization of Competing Fuels Is Altered in Insulin Resistant Skeletal Muscle of Non-obese Rats (Goto-Kakizaki). 2020 , 11, 677		4
136	PDK4-Deficiency Reprograms Intrahepatic Glucose and Lipid Metabolism to Facilitate Liver Regeneration in Mice. 2020 , 4, 504-517		5
135	Increasing mitochondrial ATP synthesis with butyrate normalizes ADP and contractile function in metabolic heart disease. 2020 , 33, e4258		1
134	Endoplasmic reticulum stress-induced complex I defect: Central role of calcium overload. 2020 , 683, 108299		20
133	Co-expression network analysis predicts a key role of microRNAs in the adaptation of the porcine skeletal muscle to nutrient supply. 2020 , 11, 10		4
132	MYC regulates fatty acid metabolism through a multigenic program in claudin-low triple negative breast cancer. 2020 , 122, 868-884		29
131	Metabolic syndrome diminishes insulin-induced Akt activation and causes a redistribution of Akt-interacting proteins in cardiomyocytes. 2020 , 15, e0228115		8
130	Beneficial Effects of Acetyl-DL-Leucine (ADLL) in a Mouse Model of Sandhoff Disease. 2020 , 9,		11
129	Metabolic Dysfunction in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome Not Due to Anti-mitochondrial Antibodies. <i>Frontiers in Medicine</i> , 2020 , 7, 108	4.9	4
128	STAT3-dependent analysis reveals PDK4 as independent predictor of recurrence in prostate cancer. 2020 , 16, e9247		15
127	Loss of metabolic flexibility as a result of overexpression of pyruvate dehydrogenase kinases in muscle, liver and the immune system: Therapeutic targets in metabolic diseases. 2021 , 12, 21-31		10
126	Glucose metabolism: A link between traumatic brain injury and Alzheimer's disease. 2021 , 24, 5-10		6
125	Pathophysiological role of metabolic flexibility on metabolic health. 2021 , 22, e13131		10
124	The small molecule SERCA activator CDN1163 increases energy metabolism in human skeletal muscle cells 2021 , 2, 100060		1
123	Single nuclei profiling identifies cell specific markers of skeletal muscle aging, sarcopenia and senescence.		1
122	Anti-Warburg Effect of Melatonin: A Proposed Mechanism to Explain its Inhibition of Multiple Diseases. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	22
121	Kruppel-like factor		3
120	Transgenerational supplementation with eicosapentaenoic acid reduced the metabolic consequences on the whole body and skeletal muscle in mice receiving an obesogenic diet. 2021 , 60, 3143-3157		1

119	Metabolic reprogramming: A driver of cigarette smoke-induced inflammatory lung diseases. 2021 , 163, 392-401		2
118	Nox4 mediates skeletal muscle metabolic responses to exercise. 2021 , 45, 101160		6
117	The Importance of Mitochondrial Pyruvate Carrier in Cancer Cell Metabolism and Tumorigenesis. 2021 , 13,		11
116	Insulin resistance is mechanistically linked to hepatic mitochondrial remodeling in non-alcoholic fatty liver disease. 2021 , 45, 101154		11
115	The Na/K-ATPase #/Src interaction regulates metabolic reserve and Western diet intolerance. 2021 , 232, e13652		2
114	Unraveling the Big Sleep: Molecular Aspects of Stem Cell Dormancy and Hibernation. 2021 , 12, 624950		3
113	Structural and Functional Remodeling of Mitochondria in Cardiac Diseases. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
112	Immunometabolic Endothelial Phenotypes: Integrating Inflammation and Glucose Metabolism. 2021 , 129, 9-29		7
111	Lysosome-Dependent LXR and PPAR Activation Upon Efferocytosis in Human Macrophages. 2021 , 12, 637778		3
110	Antihypertensive drug valsartan as a novel BDK inhibitor. 2021 , 167, 105518		1
109	Orphan nuclear receptor COUP-TFII enhances myofibroblast glycolysis leading to kidney fibrosis. 2021 , 22, e51169		3
108	Lipid metabolism in adaptation to extreme nutritional challenges. 2021 , 56, 1417-1429		3
107	Skeletal Muscle Metabolism: Origin or Prognostic Factor for Amyotrophic Lateral Sclerosis (ALS) Development?. <i>Cells</i> , 2021 , 10,	7.9	0
106	Should nutritional therapy be modified to account for mitochondrial dysfunction in critical illness?. 2021 ,		O
105	The Role of Metabolism in Heart Failure and Regeneration. 2021, 8, 702920		4
104	Modeling miRNA-driven post-transcriptional regulation by using exon-intron split analysis (EISA) in pigs.		
103	Functional and post-translational characterization of pyruvate dehydrogenase demonstrates repression of activity in the liver but not skeletal muscle of the Richardson's ground squirrel (Urocitellus richardsonii) during hibernation. 2021 , 99, 102996		
102	Maternal Undernutrition during Pregnancy Alters Amino Acid Metabolism and Gene Expression Associated with Energy Metabolism and Angiogenesis in Fetal Calf Muscle. 2021 , 11,		2

101	Hyperpolarized NMR study of the impact of pyruvate dehydrogenase kinase inhibition on the pyruvate dehydrogenase and TCA flux in type 2 diabetic rat muscle. 2021 , 473, 1761-1773	1
100	Glavonoid-rich oil supplementation reduces stearoyl-coenzyme A desaturase 1 expression and improves systemic metabolism in diabetic, obese KK-A mice. 2021 , 140, 111714	Ο
99	Group and Basis Restricted Non-Negative Matrix Factorization and Random Forest for Molecular Histotype Classification and Raman Biomarker Monitoring in Breast Cancer. 2021 , 37028211035398	O
98	Regulation of PPAR by APP in Alzheimer disease affects the pharmacological modulation of synaptic activity. 2021 , 6,	1
97	Elephant seal muscle cells adapt to sustained glucocorticoid exposure by shifting their metabolic phenotype. 2021 , 321, R413-R428	1
96	MEK-inhibitor-mediated rescue of skeletal myopathy caused by activating Hras mutation in a Costello syndrome mouse model. 2022 , 15,	4
95	Metabolic fasting stress is ameliorated in Kinin B1 receptor-deficient mice. 2021 , 294, 120007	O
94	Proteome changes upon in ovo stimulation with Lactobacillus synbiotic in chicken liver. 2021 , 100, 101449	O
93	The role of estrogen-related receptor { ERR } in metabolic adaptations by endurance training in skeletal muscle of streptozotocin-induced diabetic rats. 2021 , 17, 585-596	
92	Regulation of the Eketoglutarate dehydrogenasecomplex during hibernation in a small mammal, the Richardson's ground squirrel (Urocitellus richardsonii). 2020 , 1868, 140448	1
91	Metabolism. 2020 , 64, 607-647	30
90	DGAT1 is a lipid metabolism oncoprotein that enables cancer cells to accumulate fatty acid while avoiding lipotoxicity.	1
90 89		1
	avoiding lipotoxicity.	
89	avoiding lipotoxicity. SURF1 mutations causative of Leigh syndrome impair human neurogenesis. Whole Blood Gene Expression Profiling in Preclinical and Clinical Cattle Infected with Atypical	4
89 88	SURF1 mutations causative of Leigh syndrome impair human neurogenesis. Whole Blood Gene Expression Profiling in Preclinical and Clinical Cattle Infected with Atypical Bovine Spongiform Encephalopathy. 2016, 11, e0153425 Fusarium graminearum pyruvate dehydrogenase kinase 1 (FgPDK1) Is Critical for Conidiation,	7
89 88 8 ₇	SURF1 mutations causative of Leigh syndrome impair human neurogenesis. Whole Blood Gene Expression Profiling in Preclinical and Clinical Cattle Infected with Atypical Bovine Spongiform Encephalopathy. 2016, 11, e0153425 Fusarium graminearum pyruvate dehydrogenase kinase 1 (FgPDK1) Is Critical for Conidiation, Mycelium Growth, and Pathogenicity. 2016, 11, e0158077 DNA methylation of candidate genes in peripheral blood from patients with type 2 diabetes or the	4 7 12

83	Effects of STC1 overexpression on tumorigenicity and metabolism of hepatocellular carcinoma. 2018 , 9, 6852-6861		12	
82	Ncor2/PPAR Dependent Upregulation of MCUb in the Type 2 Diabetic Heart Impacts Cardiac Metabolic Flexibility and Function. 2021 , 70, 665-679		5	
81	The Implications of PDK1-4 on Tumor Energy Metabolism, Aggressiveness and Therapy Resistance. 2020 , 10, 583217		18	
80	Maternal low protein diet induces persistent expression changes in metabolic genes in male rats. <i>World Journal of Diabetes</i> , 2020 , 11, 182-192	4.7	2	
79	Metabolic modulation regulates cardiac wall morphogenesis in zebrafish. ELife, 2019, 8,	8.9	11	
78	Kinetic and data-driven modeling of pancreatic Etell central carbon metabolism and insulin secretion.			
77	PPAR Hand FOXO1 Gene Silencing Overturns Palmitate-Induced Inhibition of Pyruvate Oxidation Differentially in C2C12 Myotubes. <i>Biology</i> , 2021 , 10,	4.9		
76	The influence of rare variants in circulating metabolic biomarkers.			
75	STAT3-dependent systems-level analysis reveals PDK4 as an independent predictor of biochemical recurrence in prostate cancer.			
74	Conditional knockout of pyruvate dehydrogenase in mouse pancreatic Etells causes morphological and functional changes. <i>Molecular Medicine Reports</i> , 2020 , 21, 1717-1726	2.9	1	
73	Randomized Trial: D-Glyceric Acid Activates Mitochondrial Metabolism in 50 B 0-Year-Old Healthy Humans. <i>Frontiers in Aging</i> , 2021 , 2,	2.5	O	
72	Prostat karsinomunda enerji metabolizmas lili yeniden programlanmas lili siliko analiz. <i>Glinliane</i> Diversitesi Sallik Bilimleri Dergisi,	0.1		
71	A Single Bout of Premeal Resistance Exercise Improves Postprandial Glucose Metabolism in Obese Men with Prediabetes. <i>Medicine and Science in Sports and Exercise</i> , 2021 , 53, 694-703	1.2	3	
70	Cancer and pulmonary hypertension: Learning lessons and real-life interplay. <i>Global Cardiology Science & Practice</i> , 2020 , 2020, e202010	0.7	1	
69	A novel regulatory mechanism of geniposide for improving glucose homeostasis mediated by circulating RBP4. <i>Phytomedicine</i> , 2021 , 95, 153862	6.5	1	
68	and Expression Is Induced in Biofilm and Planktonic Populations With Higher Proportions of Viable but Non-Culturable Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 771666	5.9	1	
67	Mitochondrial Dysfunction in Cancer Cachexia: Impact on Muscle Health and Regeneration. <i>Cells</i> , 2021 , 10,	7.9	3	
66	Large-Scale Functional Genomics Screen to Identify Modulators of Human Ecell Insulin Secretion <i>Biomedicines</i> , 2022 , 10,	4.8	1	

65	Cancer and pulmonary hypertension: Learning lessons and real-life interplay. <i>Global Cardiology Science & Practice</i> , 2020 , 2020, e202010	0.7	1
64	An Insight into Potential Pharmacotherapeutic Agents for Painful Diabetic Neuropathy <i>Journal of Diabetes Research</i> , 2022 , 2022, 9989272	3.9	3
63	Alteration in glycolytic/cholesterogenic gene expression is associated with bladder cancer prognosis and immune cell infiltration <i>BMC Cancer</i> , 2022 , 22, 2	4.8	5
62	Dichloroacetate, a pyruvate dehydrogenase kinase inhibitor, ameliorates type 2 diabetes via reduced gluconeogenesis <i>Heliyon</i> , 2022 , 8, e08889	3.6	O
61	Integrated proteome and phosphoproteome analysis of interscapular brown adipose and subcutaneous white adipose tissues upon high fat diet feeding in mouse <i>Journal of Proteomics</i> , 2022 , 255, 104500	3.9	0
60	A Comparative Analysis of Metabolic Profiles of Embryonic Skeletal Muscle from Lantang and Landrace Pigs <i>Animals</i> , 2022 , 12,	3.1	O
59	Metal complexes as chemotherapeutic agents. 2022,		
58	Novel ERR pan-agonists ameliorate heart failure through boosting cardiac fatty acid metabolism and mitochondrial function.		1
57	Farnesoid X Receptor Deficiency Induces Hepatic Lipid and Glucose Metabolism Disorder via Regulation of Pyruvate Dehydrogenase Kinase 4 <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 3589525	6.7	0
56	Quality More Than Quantity: The Use of Carbohydrates in High-Fat Diets to Tackle Obesity in Growing Rats <i>Frontiers in Nutrition</i> , 2022 , 9, 809865	6.2	O
55	Transcriptomics Reveals Discordant Lipid Metabolism Effects between In Vitro Models Exposed to Elafibranor and Liver Samples of NAFLD Patients after Bariatric Surgery <i>Cells</i> , 2022 , 11,	7.9	0
54	Transcriptome profiling reveals stress-responsive gene networks in cattle muscles <i>PeerJ</i> , 2022 , 10, e ²	133,50	
53	Metabolic Flexibility and Its Impact on Health Outcomes Mayo Clinic Proceedings, 2022,	6.4	1
52	Insulin action and resistance are dependent on a GSK3FBXW7-ERREranscriptional axis <i>Nature Communications</i> , 2022 , 13, 2105	17.4	2
51	Presentation_1.pdf. 2020 ,		
50	Rewiring of liver diurnal transcriptome rhythms by triiodothyronine (T3) supplementation.		
49	Veno-Venous Extracorporeal Membrane Oxygenation in Minipigs as a Robust Tool to Model Acute Kidney Injury: Technical Notes and Characteristics <i>Frontiers in Medicine</i> , 2022 , 9, 866667	4.9	0
48	Glucocorticoid Receptor ©verexpression Has Agonist-Independent Insulin-Mimetic Effects on HepG2 Glucose Metabolism. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5582	6.3	O

47	The effects of endogenously- and exogenously-induced hyperketonemia on exercise performance and adaptation. <i>Physiological Reports</i> , 2022 , 10,	2.6	O
46	Inhibition of pyruvate dehydrogenase kinase improves carbohydrate utilization in Nile tilapia by regulating PDK2/4-PDHE1\textitation and insulin sensitivity. <i>Animal Nutrition</i> , 2022 ,	4.8	1
45	miR-143-Mediated Responses to Betaine Supplement Repress Lipogenesis and Hepatic Gluconeogenesis by Targeting MAT1a and MAPK11. <i>Journal of Agricultural and Food Chemistry</i> ,	5.7	O
44	Celastrol alleviates high-fat diet-induced obesity via enhanced muscle glucose utilization and mitochondrial oxidative metabolism-mediated upregulation of pyruvate dehydrogenase complex. <i>Toxicology and Applied Pharmacology</i> , 2022 , 449, 116099	4.6	1
43	Modeling microRNA -driven post-transcriptional regulation using exonthtron split analysis in pigs. <i>Animal Genetics</i> ,	2.5	
42	Metabolic Inflexibility as a Pathogenic Basis for Atrial Fibrillation. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 8291	6.3	O
41	Quantitative Proteomics and Network Analysis of Differentially Expressed Proteins in Proteomes of Icefish Muscle Mitochondria Compared with Closely Related Red-Blooded Species. <i>Biology</i> , 2022 , 11, 1118	4.9	
40	Rewiring of liver diurnal transcriptome rhythms by triiodothyronine (T3) supplementation. 11,		O
39	High fat high fructose diet induces mild oxidative stress and reorganizes intermediary metabolism in male mouse liver: Alpha-ketoglutarate effects. 2022 , 1866, 130226		1
38	Pyruvate dehydrogenase is dispensable for T cell function in vivo.		O
37	Milk Exosomal microRNAs: Postnatal Promoters of Cell Proliferation but Potential Inducers of Cell De-Differentiation in Adult Life. 2022 , 23, 11503		1
36	Red Palm Oil (RPO) May Enhance Chronic Inflammation Through Disturbance in Lipid Metabolism.		O
35	Empagliflozin reduces renal lipotoxicity in experimental Alport syndrome.		O
34	Anti-Metastatic Effect of Pyruvate Dehydrogenase Kinase 4 Inhibition in Bladder Cancer via the ERK, SRC, and JNK Pathways. 2022 , 23, 13240		1
33	Pyruvate dehydrogenase kinase 4 promotes ubiquitinproteasome system-dependent muscle atrophy.		O
32	Safety, Pharmacokinetics, and Biomarkers of an Amorphous Solid Dispersion of Genistein, a Radioprotectant, in Healthy Volunteers.		O
31	Qualitative Estimation of Proteinligand Complex Stability through Thermal Titration Molecular Dynamics Simulations.		4
30	Lactate-dependent chaperone-mediated autophagy induces oscillatory HIF-1\(\hat\text{activity promoting}\) proliferation of hypoxic cells. 2022 , 13, 1048-1064.e7		1

29	Liver transcriptomic and methylomic analyses identify transcriptional MAPK regulation in facultative hibernation of Syrian hamster.	0
28	Single nuclei profiling identifies cell specific markers of skeletal muscle aging, frailty, and senescence.	2
27	Empagliflozin protects mice against diet-induced obesity, insulin resistance and hepatic steatosis.	O
26	Anti-inflammatory effects and improved metabolic derangements in ob/ob mice by a newly synthesized prenylated benzopyran with pan-PPAR activity. 2023 , 187, 106638	1
25	Potentiation of Lipotoxicity in Human EndoC-⊞1 Eells by Glucose is Dependent on the Structure of Free Fatty Acids. 2200582	O
24	Proteomic Analysis in Nifedipine Induced Gingival Overgrowth: A Pilot Study.	O
23	Homeostasis of carbohydrates and reactive oxygen species is critically changed in the brain of middle-aged mice: Molecular mechanisms and functional reasons. 2023 , 3, 100077	1
22	Interaction between Butyrate and Tumor Necrosis Factor 🗄 Primary Rat Colonocytes. 2023 , 13, 258	O
21	The Link between Mitochondrial Dysfunction and Sarcopenia: An Update Focusing on the Role of Pyruvate Dehydrogenase Kinase 4.	O
20	Protective Roles of Adropin in Neurological Disease.	O
20	Protective Roles of Adropin in Neurological Disease. Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023, 24, 3596	0
19	Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023 , 24, 3596 Impact of sub-acute acrolein inhalation on the molecular regulation of mitochondrial metabolism in	1
19 18	Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023, 24, 3596 Impact of sub-acute acrolein inhalation on the molecular regulation of mitochondrial metabolism in rat lung. 2023, 378, 19-30 The pyruvate dehydrogenase complex: Life essential, vulnerable and druggable energy	1 O
19 18	Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023, 24, 3596 Impact of sub-acute acrolein inhalation on the molecular regulation of mitochondrial metabolism in rat lung. 2023, 378, 19-30 The pyruvate dehydrogenase complex: Life® essential, vulnerable and druggable energy homeostat. 2023, 70, 59-102 Dichloroacetophenone biphenylsulfone ethers as anticancer pyruvate dehydrogenase kinase	1 0
19 18 17	Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023, 24, 3596 Impact of sub-acute acrolein inhalation on the molecular regulation of mitochondrial metabolism in rat lung. 2023, 378, 19-30 The pyruvate dehydrogenase complex: Life® essential, vulnerable and druggable energy homeostat. 2023, 70, 59-102 Dichloroacetophenone biphenylsulfone ethers as anticancer pyruvate dehydrogenase kinase inhibitors in non-small cell lung cancer models. 2023, 378, 110467 SENP2 knockdown in human adipocytes reduces glucose metabolism and lipid accumulation, while	1 0 0
19 18 17 16	Thermal Titration Molecular Dynamics (TTMD): Not Your Usual Post-Docking Refinement. 2023, 24, 3596 Impact of sub-acute acrolein inhalation on the molecular regulation of mitochondrial metabolism in rat lung. 2023, 378, 19-30 The pyruvate dehydrogenase complex: LifeB essential, vulnerable and druggable energy homeostat. 2023, 70, 59-102 Dichloroacetophenone biphenylsulfone ethers as anticancer pyruvate dehydrogenase kinase inhibitors in non-small cell lung cancer models. 2023, 378, 110467 SENP2 knockdown in human adipocytes reduces glucose metabolism and lipid accumulation, while increases lipid oxidation. 2023, 18, 100234 Dietary supplementation with nicotinamide riboside improves fetal growth under hypoglycemia.	1 0 0

CITATION REPORT

11	Pyruvate dehydrogenase kinase regulates vascular inflammation in atherosclerosis and increases cardiovascular risk.	О
10	Determination of in vitro hepatotoxic potencies of a series of perfluoroalkyl substances (PFASs) based on gene expression changes in HepaRG liver cells. 2023 , 97, 1113-1131	О
9	Decoding Duchenne muscular dystrophy transcriptome to single nuclei level reveals clinical-genetic correlations.	O
8	Vitamin D signaling orchestrates skeletal muscle metabolic flexibility by regulating its fuel choice.	O
7	Effects of UBE3A on Cell and Liver Metabolism through the Ubiquitination of PDHA1 and ACAT1. 2023 , 62, 1274-1286	О
6	Single- and Multiple-dose Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of ASP1128, a Novel Peroxisome Proliferator-activated Receptor [Modulator, in Healthy Participants.	O
5	Low-Carbohydrate Diet Modulates Glucosellipid Utilization in Skeletal Muscle of Diabetic Mice. 2023 , 15, 1513	О
4	Upregulated GIRK2 counteracts ethanol-induced changes in excitability and respiration in human neurons.	O
3	Patulin Alters Insulin Signaling and Metabolic Flexibility in HepG2 and HEK293 Cells. 2023, 15, 244	О
2	Metabolic role of the hepatic valine/3-hydroxyisobutyrate (3-HIB) pathway in fatty liver disease. 2023 , 91, 104569	O
1	Pyruvate dehydrogenase kinase inhibitor Dichloroacetate augments autophagy mediated constraining the replication of Mycobacteroides massiliense in macrophages. 2023 , 105139	O