

Mulchand S Patel

List of Publications by Year in descending order

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117
papers

5,104
citations

94269

37
h-index

95083

68
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118
all docs

118
docs citations

118
times ranked

4910
citing authors

#	ARTICLE	IF	CITATIONS
1	Gestational hypercholesterolemia programs hepatic steatosis in a sex-specific manner in ApoE-deficient mice. <i>Journal of Nutritional Biochemistry</i> , 2022, 101, 108945.	1.9	1
2	Excessive early-life cholesterol exposure may have later-life consequences for nonalcoholic fatty liver disease. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 229-236.	0.7	4
3	Reprogramming of aerobic glycolysis in non-transformed mouse liver with pyruvate dehydrogenase complex deficiency. <i>Physiological Reports</i> , 2021, 9, e14684.	0.7	5
4	Maternal hypercholesterolemia programs dyslipidemia in adult male mouse progeny. <i>Reproduction</i> , 2020, 160, 1-10.	1.1	4
5	Phenylbutyrate administration reduces changes in the cerebellar Purkinje cells population in PDC-deficient mice. <i>Acta Neurobiologiae Experimentalis</i> , 2020, 80, 305-321.	0.4	0
6	Structural and Functional Analyses of the Human PDH Complex Suggest a "Division-of-Labor" Mechanism by Local E1 and E3 Clusters. <i>Structure</i> , 2019, 27, 1124-1136.e4.	1.6	23
7	Gestational hypercholesterolemia alters fetal hepatic lipid metabolism and microRNA expression in Apo-E-deficient mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E831-E838.	1.8	8
8	Brain metabolism modulates neuronal excitability in a mouse model of pyruvate dehydrogenase deficiency. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	53
9	Malprogramming of Hepatic Lipid Metabolism due to Excessive Early Cholesterol Exposure in Adult Progeny. <i>Molecular Nutrition and Food Research</i> , 2019, 63, 1800563.	1.5	6
10	Dichloroacetate Ameliorates Cardiac Dysfunction Caused by Ischemic Insults Through AMPK Signal Pathway "Not Only Shifts Metabolism. <i>Toxicological Sciences</i> , 2019, 167, 604-617.	1.4	36
11	Maternal hypercholesterolemia enhances oxysterol concentration in mothers and newly weaned offspring but is attenuated by maternal phytosterol supplementation. <i>Journal of Nutritional Biochemistry</i> , 2018, 52, 10-17.	1.9	16
12	Pyruvate dehydrogenase complex deficiency is linked to regulatory loop disorder in the V138M variant of human pyruvate dehydrogenase. <i>Journal of Biological Chemistry</i> , 2018, 293, 13204-13213.	1.6	13
13	Defining the contribution of skeletal muscle pyruvate dehydrogenase ± 1 to exercise performance and insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1034-E1045.	1.8	15
14	Genetic Dissociation of Glycolysis and the TCA Cycle Affects Neither Normal nor Neoplastic Proliferation. <i>Cancer Research</i> , 2017, 77, 5795-5807.	0.4	31
15	Global view of cognate kinase activation by the human pyruvate dehydrogenase complex. <i>Scientific Reports</i> , 2017, 7, 42760.	1.6	10
16	Acetyl-CoA production from pyruvate is not necessary for preservation of myelin. <i>Glia</i> , 2017, 65, 1626-1639.	2.5	24
17	Transcriptional control of enterohepatic lipid regulatory targets in response to early cholesterol and phytosterol exposure in apoE ^{-/-} mice. <i>BMC Research Notes</i> , 2017, 10, 529.	0.6	9
18	Influence of maternal hypercholesterolemia and phytosterol intervention during gestation and lactation on dyslipidemia and hepatic lipid metabolism in offspring of Syrian golden hamsters. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2151-2160.	1.5	16

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19	Lack of mitochondria-generated acetyl-CoA by pyruvate dehydrogenase complex downregulates gene expression in the hepatic de novo lipogenic pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E117-E127.	1.8	16
20	Furoates and thenoates inhibit pyruvate dehydrogenase kinase 2 allosterically by binding to its pyruvate regulatory site. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 170-175.	2.5	4
21	Beneficial effect of feeding a ketogenic diet to mothers on brain development in their progeny with a murine model of pyruvate dehydrogenase complex deficiency. <i>Molecular Genetics and Metabolism Reports</i> , 2016, 7, 78-86.	0.4	12
22	Elucidation of the Interaction Loci of the Human Pyruvate Dehydrogenase Complex E2-E3BP Core with Pyruvate Dehydrogenase Kinase 1 and Kinase 2 by H/D Exchange Mass Spectrometry and Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2015, 54, 69-82.	1.2	17
23	Maternal Phytosterol Supplementation during Pregnancy and Lactation Modulates Lipid and Lipoprotein Response in Offspring of apoE-Deficient Mice. <i>Journal of Nutrition</i> , 2015, 145, 1728-1734.	1.3	17
24	Maternal Supplementation of Phytosterols to a High Cholesterol Diet during Pregnancy and Lactation Favorably Modulates Lipid and Lipoprotein Metabolism in Offspring. <i>FASEB Journal</i> , 2015, 29, 754.19.	0.2	0
25	Early Exposure to Phytosterols Protects Offspring from Hypercholesterolemia Induced by Maternal Cholesterol Feeding in Syrian Golden Hamsters. <i>FASEB Journal</i> , 2015, 29, 754.9.	0.2	0
26	Featured Article: Beta cell specific pyruvate dehydrogenase alpha gene deletion results in a reduced islet number and β^2 -cell mass postnatally. <i>Experimental Biology and Medicine</i> , 2014, 239, 975-985.	1.1	5
27	Postnatal exposure to a high-carbohydrate diet interferes epigenetically with thyroid hormone receptor induction of the adult male rat skeletal muscle glucose transporter isoform 4 expression. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 1066-1076.	1.9	18
28	The Pyruvate Dehydrogenase Complexes: Structure-based Function and Regulation. <i>Journal of Biological Chemistry</i> , 2014, 289, 16615-16623.	1.6	418
29	Alpha-Lipoic Acid Reduces LDL-Particle Number and PCSK9 Concentrations in High-Fat Fed Obese Zucker Rats. <i>PLoS ONE</i> , 2014, 9, e90863.	1.1	34
30	Maternal obesity induced by a high fat diet causes altered cellular development in fetal brains suggestive of a predisposition of offspring to neurological disorders in later life. <i>Metabolic Brain Disease</i> , 2013, 28, 721-725.	1.4	25
31	Developmental programming in skeletal muscle in response to overnourishment in the immediate postnatal life in rats. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 1859-1869.	1.9	39
32	Metabolic programming effects initiated in the suckling period predisposing for adult-onset obesity cannot be reversed by calorie restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E486-E494.	1.8	19
33	Maternal obesity affects gene expression and cellular development in fetal brains. <i>Nutritional Neuroscience</i> , 2013, 16, 96-103.	1.5	30
34	Nuclear Magnetic Resonance Approaches in the Study of 2-Oxo Acid Dehydrogenase Multienzyme Complexes—A Literature Review. <i>Molecules</i> , 2013, 18, 11873-11903.	1.7	9
35	Cerebral Developmental Abnormalities in a Mouse with Systemic Pyruvate Dehydrogenase Deficiency. <i>PLoS ONE</i> , 2013, 8, e67473.	1.1	15
36	Cortical metabolism in pyruvate dehydrogenase deficiency revealed by ex vivo multiplet ^{13}C NMR of the adult mouse brain. <i>Neurochemistry International</i> , 2012, 61, 1036-1043.	1.9	12

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37	Metabolic Programming in the Immediate Postnatal Life. <i>Annals of Nutrition and Metabolism</i> , 2011, 58, 18-28.	1.0	74
38	Liver-specific Pyruvate Dehydrogenase Complex Deficiency Upregulates Lipogenesis in Adipose Tissue and Improves Peripheral Insulin Sensitivity. <i>Lipids</i> , 2010, 45, 987-995.	0.7	21
39	Metabolic Programming Due to Alterations in Nutrition in the Immediate Postnatal Period. <i>Journal of Nutrition</i> , 2010, 140, 658-661.	1.3	54
40	Î²-Cell-specific pyruvate dehydrogenase deficiency impairs glucose-stimulated insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 299, E910-E917.	1.8	31
41	Characterization of interactions of dihydrolipoamide dehydrogenase with its binding protein in the human pyruvate dehydrogenase complex. <i>Biochemical and Biophysical Research Communications</i> , 2010, 395, 416-419.	1.0	10
42	Hypothalamic alterations in fetuses of high fat diet-fed obese female rats. <i>Journal of Endocrinology</i> , 2009, 200, 293-300.	1.2	96
43	Interaction of E1 and E3 components with the core proteins of the human pyruvate dehydrogenase complex. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 2-6.	1.8	38
44	Binding of pyruvate dehydrogenase to the core of the human pyruvate dehydrogenase complex. <i>FEBS Letters</i> , 2008, 582, 468-472.	1.3	3
45	Metabolic programming in the immediate postnatal period. <i>Trends in Endocrinology and Metabolism</i> , 2008, 19, 146-152.	3.1	62
46	Maternal obesity and fetal programming: effects of a high-carbohydrate nutritional modification in the immediate postnatal life of female rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E895-E903.	1.8	33
47	Tissue-specific pyruvate dehydrogenase complex deficiency causes cardiac hypertrophy and sudden death of weaned male mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H946-H952.	1.5	34
48	Dysregulated pyruvate dehydrogenase complex in Zucker diabetic fatty rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E88-E96.	1.8	26
49	A high-carbohydrate diet in the immediate postnatal life of rats induces adaptations predisposing to adult-onset obesity. <i>Journal of Endocrinology</i> , 2008, 197, 565-574.	1.2	57
50	Pyruvate Dehydrogenase Complex Regulation and Lipoic Acid. <i>Oxidative Stress and Disease</i> , 2008, , .	0.3	1
51	The 1',4'-iminopyrimidine tautomer of thiamin diphosphate is poised for catalysis in asymmetric active centers on enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 78-82.	3.3	84
52	Phosphorylation of Serine 264 Impedes Active Site Accessibility in the E1 Component of the Human Pyruvate Dehydrogenase Multienzyme Complex. <i>Biochemistry</i> , 2007, 46, 6277-6287.	1.2	55
53	Elucidation of the Chemistry of Enzyme-Bound Thiamin Diphosphate Prior to Substrate Binding: Defining Internal Equilibria among Tautomeric and Ionization States. <i>Biochemistry</i> , 2007, 46, 10739-10744.	1.2	54
54	Brain MR Imaging and Proton MR Spectroscopy in Female Mice with Pyruvate Dehydrogenase Complex Deficiency. <i>Neurochemical Research</i> , 2007, 32, 645-654.	1.6	11

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55	Metabolic Syndrome Due to Early Life Nutritional Modifications. <i>Oxidative Stress and Disease</i> , 2007, , 47-69.	0.3	0
56	Direct Kinetic Evidence for Half-Of-The-Sites Reactivity in the E1 Component of the Human Pyruvate Dehydrogenase Multienzyme Complex through Alternating Sites Cofactor Activation. <i>Biochemistry</i> , 2006, 45, 12775-12785.	1.2	52
57	Metabolic programming as a consequence of the nutritional environment during fetal and the immediate postnatal periods. , 2006, , 76-90.		4
58	Maternal high-fat diet consumption results in fetal malprogramming predisposing to the onset of metabolic syndrome-like phenotype in adulthood. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E792-E799.	1.8	239
59	Maternal hyperinsulinemia predisposes rat fetuses for hyperinsulinemia, and adult-onset obesity and maternal mild food restriction reverses this phenotype. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E129-E134.	1.8	68
60	How Dihydrolipoamide Dehydrogenase-binding Protein Binds Dihydrolipoamide Dehydrogenase in the Human Pyruvate Dehydrogenase Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 648-655.	1.6	64
61	Characterization of Testis-specific Isoenzyme of Human Pyruvate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2006, 281, 9688-9696.	1.6	33
62	Programming of metabolic syndrome in rat pups fed a high-carbohydrate milk formula: The role of the autonomic nervous system. <i>FASEB Journal</i> , 2006, 20, A522.	0.2	0
63	Early life nutritional intervention results in hypothalamic neuronal malprogramming predisposing to adult-onset obesity. <i>FASEB Journal</i> , 2006, 20, A522.	0.2	0
64	Nutrient-Induced Maternal Hyperinsulinemia and Metabolic Programming in the Progeny. , 2005, 55, 137-151.		4
65	R-Lipoic Acid Inhibits Mammalian Pyruvate Dehydrogenase Kinase. <i>Free Radical Research</i> , 2004, 38, 1083-1092.	1.5	56
66	Metabolic Programming. <i>NeoReviews</i> , 2004, 5, e516-e521.	0.4	0
67	Biochemical and structural brain alterations in female mice with cerebral pyruvate dehydrogenase deficiency. <i>Journal of Neurochemistry</i> , 2004, 91, 1082-1091.	2.1	29
68	Function of several critical amino acids in human pyruvate dehydrogenase revealed by its structure. <i>Archives of Biochemistry and Biophysics</i> , 2004, 429, 171-179.	1.4	13
69	The biochemistry of the pyruvate dehydrogenase complex. <i>Biochemistry and Molecular Biology Education</i> , 2003, 31, 5-15.	0.5	69
70	NMR Analysis of Covalent Intermediates in Thiamin Diphosphate Enzymes. <i>Biochemistry</i> , 2003, 42, 7885-7891.	1.2	131
71	Structural Basis for Flip-Flop Action of Thiamin Pyrophosphate-dependent Enzymes Revealed by Human Pyruvate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2003, 278, 21240-21246.	1.6	144
72	Programming of Islet Functions in the Progeny of Hyperinsulinemic/Obese Rats. <i>Diabetes</i> , 2003, 52, 984-990.	0.3	52

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73	Neonatal Nutrition: Metabolic Programming of Pancreatic Islets and Obesity. <i>Experimental Biology and Medicine</i> , 2003, 228, 15-23.	1.1	73
74	Kinetic Studies of Human Pyruvate Dehydrogenase and Its Mutants. <i>Oxidative Stress and Disease</i> , 2003, , .	0.3	0
75	Pyruvate Dehydrogenase Complex as a Marker of Mitochondrial Metabolism: Inhibition by 4-Hydroxy-2-Nonenal. , 2002, 186, 255-264.		13
76	Metabolic Programming: Causes and Consequences. <i>Journal of Biological Chemistry</i> , 2002, 277, 1629-1632.	1.6	108
77	Characterization of a missense mutation at histidine-44 in a pyruvate dehydrogenase-deficient patient. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002, 1586, 32-42.	1.8	9
78	Differential Effects of Two Mutations at Arginine-234 in the β Subunit of Human Pyruvate Dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 2001, 395, 121-128.	1.4	10
79	Inactivation of the Murine Pyruvate Dehydrogenase (Pdha1) Gene and Its Effect on Early Embryonic Development. <i>Molecular Genetics and Metabolism</i> , 2001, 74, 293-302.	0.5	78
80	Molecular adaptations in islets from neonatal rats reared artificially on a high carbohydrate milk formula. <i>Journal of Nutritional Biochemistry</i> , 2001, 12, 575-584.	1.9	23
81	Probing the Mechanism of Inactivation of Human Pyruvate Dehydrogenase by Phosphorylation of Three Sites. <i>Journal of Biological Chemistry</i> , 2001, 276, 5731-5738.	1.6	92
82	Regulation of mammalian pyruvate dehydrogenase complex by phosphorylation: complexity of multiple phosphorylation sites and kinases. <i>Experimental and Molecular Medicine</i> , 2001, 33, 191-197.	3.2	146
83	Site Specificity of Four Pyruvate Dehydrogenase Kinase Isoenzymes toward the Three Phosphorylation Sites of Human Pyruvate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 2001, 276, 37223-37229.	1.6	195
84	Mutations in the X-linked pyruvate dehydrogenase (E1) β subunit gene (PDHA1) in patients with a pyruvate dehydrogenase complex deficiency. <i>Human Mutation</i> , 2000, 15, 209-219.	1.1	191
85	Mutations in the X-linked pyruvate dehydrogenase (E1) α subunit gene (PDHA1) in patients with a pyruvate dehydrogenase complex deficiency. <i>Human Mutation</i> , 2000, 15, 209.	1.1	9
86	Characterization of the regulatory region of the human testis-specific form of the pyruvate dehydrogenase α -subunit (PDHA-2) gene. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999, 1447, 236-243.	2.4	15
87	Characterization of Point Mutations in Patients with Pyruvate Dehydrogenase Deficiency: Role of Methionine-181, Proline-188, and Arginine-349 in the α Subunit. <i>Archives of Biochemistry and Biophysics</i> , 1999, 367, 39-50.	1.4	25
88	Involvement of α -Cysteine-62 and β -Tryptophan-135 in Human Pyruvate Dehydrogenase Catalysis. <i>Archives of Biochemistry and Biophysics</i> , 1999, 369, 277-287.	1.4	19
89	Glycogen synthase activation in the epididymal adipose tissue from chronic hyperinsulinemic/obese rats. <i>Journal of Nutritional Biochemistry</i> , 1998, 9, 81-87.	1.9	6
90	Lipoic Acid as an Antioxidant: The Role of Dihydrolipoamide Dehydrogenase. , 1998, 108, 337-346.		18

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91	Regulation of mammalian pyruvate dehydrogenase $\hat{1}$ subunit gene expression by glucose in HepG2 cells. <i>Biochemical Journal</i> , 1998, 336, 49-56.	1.7	15
92	Deficiency of dihydrolipoamide dehydrogenase due to two mutant alleles (E340K and G101del). <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1997, 1362, 160-168.	1.8	46
93	Tissue-specific expression of the human pyruvate dehydrogenase $\hat{1}$ (Pdha-1) / chloramphenicol acetyltransferase fusion gene in transgenic mice. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1996, 1305, 189-195.	2.4	3
94	Three new mutations of the pyruvate dehydrogenase alpha subunit: A point mutation (M181V), 3 bp deletion (-R282), and 16 bp insertion/frameshift (K358SVS $\hat{1}$ 'TVDQS). , 1996, 8, 180-182.		14
95	Arginine-239 in the beta subunit is at or near the active site of bovine pyruvate dehydrogenase. <i>BBA - Proteins and Proteomics</i> , 1995, 1252, 203-208.	2.1	11
96	Mammalian $\hat{1}$ -keto acid dehydrogenase complexes: gene regulation and genetic defects 1. <i>FASEB Journal</i> , 1995, 9, 1164-1172.	0.2	86
97	Spectroscopic Studies of the Characterization of Recombinant Human Dihydrolipoamide Dehydrogenase and Its Site-directed Mutants. <i>Journal of Biological Chemistry</i> , 1995, 270, 15545-15550.	1.6	51
98	Identification of the Tryptophan Residue in the Thiamin Pyrophosphate Binding Site of Mammalian Pyruvate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 1995, 270, 4570-4574.	1.6	27
99	Pyruvate dehydrogenase complex deficiency due to a point mutation (P188L) within the thiamine pyrophosphate binding loop of the E1 $\hat{1}$ subunit. <i>Human Molecular Genetics</i> , 1995, 4, 315-318.	1.4	22
100	Mutagenesis Studies of the Phosphorylation Sites of Recombinant Human Pyruvate Dehydrogenase. SITE-SPECIFIC REGULATION. <i>Journal of Biological Chemistry</i> , 1995, 270, 14297-14304.	1.6	110
101	Multiple protein-binding domains and functional cis-elements in the 5'-flanking region of the human pyruvate dehydrogenase .alpha.-subunit gene. <i>Biochemistry</i> , 1993, 32, 4263-4269.	1.2	15
102	Chromosome Localization and Rflp Analysis of Pdc-E2: the Major Autoantigen of Primary Biliary Cirrhosis. <i>Autoimmunity</i> , 1993, 14, 335-340.	1.2	7
103	Overview of Pup in a Cup Model: Hepatic Lipogenesis in Rats Artificially Reared on a High-Carbohydrate Formula. <i>Journal of Nutrition</i> , 1993, 123, 373-377.	1.3	18
104	A Mutation in the E1 $\hat{1}$ Subunit of Pyruvate Dehydrogenase Associated with Variable Expression of Pyruvate Dehydrogenase Complex Deficiency. <i>Pediatric Research</i> , 1992, 32, 169-174.	1.1	34
105	Artificial-Rearing Technique: Its Usefulness in Nutrition Research. <i>Journal of Nutrition</i> , 1992, 122, 412-419.	1.3	18
106	A structural model for human dihydrolipoamide dehydrogenase. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 14, 88-101.	1.5	27
107	Sequence conservation in the $\hat{1}$ and $\hat{2}$ subunits of pyruvate dehydrogenase and its similarity to branched-chain $\hat{1}$ -keto acid dehydrogenase. <i>FEBS Letters</i> , 1991, 282, 209-213.	1.3	51
108	Molecular biology and biochemistry of pyruvate dehydrogenase complexes ¹. <i>FASEB Journal</i> , 1990, 4, 3224-3233.	0.2	589

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109	A Deficiency of Both Subunits of Pyruvate Dehydrogenase which is Not Expressed in Fibroblasts. Pediatric Research, 1988, 24, 95-100.	1.1	78
110	Systemic Deficiency of the First Component of the Pyruvate Dehydrogenase Complex. Pediatric Research, 1987, 22, 312-318.	1.1	81
111	Precocious induction of hepatic glucokinase and malic enzyme in artificially reared rat pups fed a high-carbohydrate diet. Archives of Biochemistry and Biophysics, 1986, 244, 787-794.	1.4	46
112	Disturbances of fetal liver carbohydrate metabolism and perinatal glucose homeostasis. Biochemical Society Transactions, 1985, 13, 83-85.	1.6	1
113	The Newborn of Diabetic Rat. I. Hormonal and Metabolic Changes in the Postnatal Period. Pediatric Research, 1982, 16, 632-637.	1.1	58
114	Pyruvate dehydrogenase kinase 2. The AFCS-nature Molecule Pages, 0, , .	0.2	0
115	Pyruvate dehydrogenase kinase 4. The AFCS-nature Molecule Pages, 0, , .	0.2	0
116	Pdha1. The AFCS-nature Molecule Pages, 0, , .	0.2	0
117	Pdhb. The AFCS-nature Molecule Pages, 0, , .	0.2	0