

CITATION REPORT

List of articles citing

Quantitation of muscle glycogen synthesis in normal subjects and subjects with non-insulin-dependent diabetes by ^{13}C nuclear magnetic resonance spectroscopy

DOI: 10.1056/nejm199001253220403

New England Journal of Medicine, 1990, 322, 223-8.

Source: <https://exaly.com/paper-pdf/21872447/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1113	Where all the glucose doesn't go in non-insulin-dependent diabetes mellitus. <i>New England Journal of Medicine</i> , 1990 , 322, 262-3	59.2	21
1112	Clinical nuclear magnetic resonance spectroscopy: insight into metabolism. 1990 , 66, 45F-50F		12
1111	Symposia session summaries. 1990 , 9, 71-185		
1110	Effects of amylin on glucose metabolism and glycogenolysis in vivo and in vitro. 1990 , 259, E457-61		20
1109	Low urinary chiro-inositol excretion in non-insulin-dependent diabetes mellitus. <i>New England Journal of Medicine</i> , 1990 , 323, 373-8	59.2	197
1108	Glucose and gluconeogenic substrate exchange by the forearm skeletal muscle in hyperglycemic and insulin-treated type II diabetic patients. 1990 , 71, 1220-3		20
1107	Fasting hyperglycemia normalizes oxidative and nonoxidative pathways of insulin-stimulated glucose metabolism in noninsulin-dependent diabetes mellitus. 1990 , 71, 1544-51		34
1106	Diabetes mellitus. 1990 , 66, 1010-24		4
1105	Functional magnetic resonance imaging in medicine and physiology. 1990 , 250, 53-61		150
1104	Role of insulin in management of surgical patients with diabetes mellitus. 1990 , 13, 980-91		65
1103	Contribution of exogenous substrates to acetyl coenzyme A: measurement by ¹³ C NMR under non-steady-state conditions. 1990 , 29, 6756-61		137
1102	Insulin resistance--mechanisms, syndromes, and implications. <i>New England Journal of Medicine</i> , 1991 , 325, 938-48	59.2	629
1101	Syndrome(s) X. 1991 , 337, 916-917		0
1100	Glucose analogue inhibitors of glycogen phosphorylase: the design of potential drugs for diabetes. 1991 , 30, 10101-16		118
1099	Effects of hyperinsulinemia and hyperglycemia on insulin receptor function and glycogen synthase activation in skeletal muscle of normal man. 1991 , 40, 830-5		17
1098	Gliclazide and insulin action in human muscle. 1991 , 14 Suppl 2, S61-4		5
1097	Regulation of glycogen resynthesis following exercise. Dietary considerations. 1991 , 11, 232-43		28

1096	Genetics of non-insulin dependent diabetes mellitus. 1991 , 5, 455-76	23
1095	Effects of growth hormone on fuel utilization and muscle glycogen synthase activity in normal humans. 1991 , 260, E736-42	36
1094	Metabolic effects of high-carbohydrate, high-fiber diets for insulin-dependent diabetic individuals. 1991 , 54, 936-43	87
1093	The effect of sulphonylurea therapy on skeletal muscle glycogen synthase activity and insulin secretion in newly presenting type 2 (non-insulin-dependent) diabetic patients. 1991 , 8, 243-53	27
1092	Effect of insulin on intracellular pH and phosphate metabolism in human skeletal muscle in vivo. 1991 , 81, 123-8	22
1091	N.m.r. studies of muscle glycogen synthesis in normal and non-insulin-dependent diabetic subjects. 1991 , 19, 992-4	9
1090	A role for NMR in alcoholism?. 1991 , 101, 1757-8	
1089	Insulin resistance in noncirrhotic idiopathic portal hypertension. 1991 , 100, 245-51	14
1088	High levels of cytosolic free calcium inhibit dephosphorylation of insulin receptor and glycogen synthase. 1991 , 12, 423-30	21
1087	Assignment of the ¹ H chemical shifts of glycogen. 1991 , 220, 1-9	34
1086	¹³ C NMR visibility of rabbit muscle glycogen in vivo. 1991 , 20, 327-32	50
1085	Localized proton NMR observation of [3- ¹³ C]lactate in stroke after [1- ¹³ C]glucose infusion. 1991 , 21, 302-7	71
1084	Modulation of hepatic glucose production by non-esterified fatty acids in type 2 (non-insulin-dependent) diabetes mellitus. 1991 , 34, 409-15	102
1083	Reduced glycogen synthase activity in skeletal muscle from obese patients with and without type 2 (non-insulin-dependent) diabetes mellitus. 1991 , 34, 239-45	177
1082	Non-esterified fatty acids do not contribute to insulin resistance in persons at increased risk of developing type 2 (non-insulin-dependent) diabetes mellitus. 1991 , 34, 192-7	16
1081	The liver and glycogen metabolism. 1991 , 15, 77S-81S	3
1080	Energy and substrate metabolism in obesity and postobese state. 1991 , 14, 1180-8	23
1079	Insulin resistance: an early metabolic defect of Turner's syndrome. 1991 , 72, 832-6	96

1078	Effect of free fatty acids on glucose uptake and nonoxidative glycolysis across human forearm tissues in the basal state and during insulin stimulation. 1991 , 72, 1268-77	91
1077	Mechanism of metformin action in obese and lean noninsulin-dependent diabetic subjects. 1991 , 73, 1294-301	317
1076	Archaeology of NIDDM. Excavation of the "thrifty" genotype. 1991 , 40, 161-5	37
1075	Impaired expression of glycogen synthase mRNA in skeletal muscle of NIDDM patients. 1991 , 40, 1740-5	59
1074	Asymptomatic atherosclerosis and insulin resistance. 1991 , 11, 1068-76	186
1073	Impaired insulin action on skeletal muscle metabolism in essential hypertension. 1991 , 17, 170-8	134
1072	The effects of fasting and refeeding on liver glycogen synthase and phosphorylase in obese and lean mice. 1992 , 24, 161-6	22
1071	Time-dependent effect of hyperglycemia and hyperinsulinemia on oxidative and non-oxidative glucose metabolism in patients with NIDDM. 1992 , 127, 100-6	3
1070	Mechanisms of hyperglycemia-induced insulin resistance in whole body and skeletal muscle of type I diabetic patients. 1992 , 41, 571-80	86
1069	Intracellular defects in glucose metabolism in obese patients with NIDDM. 1992 , 41, 698-706	97
1068	A review of cancer cachexia and abnormal glucose metabolism in humans with cancer. 1992 , 11, 445-56	154
1067	Pancreatic surgery, not pancreatitis, is the primary cause of diabetes after acute fulminant pancreatitis. 1992 , 33, 843-7	20
1066	Metformin normalizes nonoxidative glucose metabolism in insulin-resistant normoglycemic first-degree relatives of patients with NIDDM. 1992 , 41, 354-8	105
1065	The metabolic profile of NIDDM is fully established in glucose-tolerant offspring of two Mexican-American NIDDM parents. 1992 , 41, 1575-86	247
1064	Impaired activation of glycogen synthase in people at increased risk for developing NIDDM. 1992 , 41, 598-604	146
1063	The etiology and pathogenesis of non-insulin-dependent diabetes. 1992 , 24, 483-9	32
1062	¹ H-[¹³ C] NMR measurements of [4- ¹³ C]glutamate turnover in human brain. 1992 , 89, 9603-6	147
1061	Direct measurement of brain glucose concentrations in humans by ¹³ C NMR spectroscopy. 1992 , 89, 1109-12	178

1060	Hyperglycemia markedly enhances skeletal muscle glycogen synthase activity in diabetic, but not in normal conscious rats. 1992 , 41, 1453-63	39
1059	Mechanism of insulin resistance in CCl ₄ -induced cirrhosis of rats. 1992 , 102, 223-9	38
1058	Chapter 19 The study of bioenergetics in vivo using nuclear magnetic resonance. 1992 , 463-481	1
1057	Muscle energy metabolism in severe chronic congestive heart failure--effect of treatment with enalapril. 1992 , 13, 1217-24	17
1056	Increased rate of gluconeogenesis in type II diabetes mellitus. A ¹³ C nuclear magnetic resonance study. 1992 , 90, 1323-7	533
1055	Glucose-free fatty acid cycle operates in human heart and skeletal muscle in vivo. 1992 , 89, 1767-74	225
1054	Homogeneous tissue model estimates of RF power deposition in human NMR studies. Local elevations predicted in surface coil decoupling. 1992 , 649, 144-59	31
1053	In Vivo ¹³ C Spectroscopy in Humans. 1992 , 73-100	4
1052	Alterations in substrate utilization in the reperfused myocardium: a direct analysis by ¹³ C NMR. 1992 , 31, 4833-7	45
1051	Short-term energy balance in patients with infections: carbohydrate-based versus fat-based diets. 1992 , 41, 125-30	21
1050	Postprandial thermogenesis at rest and postexercise before and after physical training in lean, obese, and mildly diabetic men. 1992 , 41, 868-78	12
1049	Control, bioenergetics, and adaptation in health and disease: noninvasive biochemistry from nuclear magnetic resonance. 1992 , 6, 3032-8	39
1048	Uptake of glucose carbon in muscle glycogen and adipose tissue triglycerides in vivo in humans. 1992 , 263, E473-80	16
1047	Insulin resistance in type 2 (non-insulin-dependent) diabetic patients and their relatives is not associated with a defect in the expression of the insulin-responsive glucose transporter (GLUT-4) gene in human skeletal muscle. 1992 , 35, 143-7	107
1046	Magnetic resonance for the anaesthetist. Part I: Physical principles, applications, safety aspects. 1992 , 47, 240-55	62
1045	Chromium picolinate increases membrane fluidity and rate of insulin internalization. 1992 , 46, 243-50	151
1044	Contrasting action of short- and long-term adrenaline infusion on dog skeletal muscle glucose metabolism. 1992 , 35, 399-405	9
1043	Diabetes mellitus and anaesthesia. 1992 , 3, 30-36	1

1042	Isotope-edited 1D and 2D n.m.r. spectroscopy of ¹³ C-substituted carbohydrates. 1992 , 226, 209-18	14
1041	Studies of human tumors by MRS: a review. 1992 , 5, 303-24	463
1040	Validation of ¹³ C NMR measurement of human skeletal muscle glycogen by direct biochemical assay of needle biopsy samples. 1992 , 27, 13-20	101
1039	Detection and assignment of the glucose signal in ¹ H NMR difference spectra of the human brain. 1992 , 27, 183-8	47
1038	Glycogen detection by in vivo ¹³ C NMR: a comparison of proton decoupling and polarization transfer. 1992 , 28, 65-73	15
1037	Dynamic ¹³ C- ¹ H nuclear polarization of lipid methylene resonances applied to broadband proton-decoupled in vivo ¹³ C MR spectroscopy of human breast and calf tissue. 1993 , 30, 415-23	13
1036	Pathogenesis of type 2 (non-insulin-dependent) diabetes mellitus: candidates for a signal transmitter defect causing insulin resistance of the skeletal muscle. 1993 , 36, 176-82	54
1035	Glucokinase and candidate genes for type 2 (non-insulin-dependent) diabetes mellitus. 1993 , 36, 269-75	77
1034	Metabolic origin of insulin resistance in obesity with and without type 2 (non-insulin-dependent) diabetes mellitus. 1993 , 36, 1221-9	58
1033	Insulin resistance and insulin deficiency in the pathogenesis of type 2 (non-insulin-dependent) diabetes mellitus: errors of metabolism or of methods?. 1993 , 36, 1326-31	121
1032	Insulin resistance, hypertension and microalbuminuria in patients with type 2 (non-insulin-dependent) diabetes mellitus. 1993 , 36, 642-7	216
1031	Decreased tyrosine kinase activity in partially purified insulin receptors from muscle of young, non-obese first degree relatives of patients with type 2 (non-insulin-dependent) diabetes mellitus. 1993 , 36, 668-74	56
1030	Hyperinsulinemia: a link between obesity and hypertension?. 1993 , 43, 1402-17	51
1029	The molecular biology of glucose transport: relevance to insulin resistance and non-insulin-dependent diabetes mellitus. 1993 , 7, 130-41	19
1028	Investigation of metabolic myopathies by P-31 MRS using a standardized rest-exercise-recovery protocol: a survey of 800 explorations. 1993 , 1, 91-104	16
1027	Diabetes genes in non-insulin-dependent diabetes mellitus. <i>New England Journal of Medicine</i> , 1993 , 328, 56-7	59.2 12
1026	Correlations of glycogen synthase and phosphorylase activities with glycogen concentration in human muscle biopsies. Evidence for a double-feedback mechanism regulating glycogen synthesis and breakdown. 1993 , 42, 36-43	27
1025	The impact of metformin therapy on hepatic glucose production and skeletal muscle glycogen synthase activity in overweight type II diabetic patients. 1993 , 42, 1217-22	120

1024	Energy expenditure and substrate metabolism after oral fructose in patients with cirrhosis. 1993 , 19, 241-51	10
1023	Insulin resistance and insulin secretory dysfunction as precursors of non-insulin-dependent diabetes mellitus. Prospective studies of Pima Indians. <i>New England Journal of Medicine</i> , 1993 , 329, 1988-92	1126
1022	Insulin action and substrate competition. 1993 , 7, 1007-32	33
1021	Gliclazide. An update of its pharmacological properties and therapeutic efficacy in non-insulin-dependent diabetes mellitus. 1993 , 46, 92-125	132
1020	The relation between insulin sensitivity and the fatty-acid composition of skeletal-muscle phospholipids. <i>New England Journal of Medicine</i> , 1993 , 328, 238-44	59.2 698
1019	Cellular insulin action and insulin resistance. 1993 , 7, 785-873	39
1018	Action of insulin on glucose metabolism in vivo. 1993 , 7, 903-27	35
1017	In vivo glucose transport in human skeletal muscle: tools, problems and perspectives. 1993 , 7, 929-60	13
1016	Different sensitivity of glucose and amino acid metabolism to insulin in NIDDM. 1993 , 42, 1868-77	67
1015	Rad: a member of the Ras family overexpressed in muscle of type II diabetic humans. 1993 , 262, 1441-4	280
1014	Effects of hyperinsulinemia on muscle fiber composition and capitalization in rats. 1993 , 42, 1073-81	57
1013	Abnormal activation of glycogen synthesis in fibroblasts from NIDDM subjects. Evidence for an abnormality specific to glucose metabolism. 1993 , 42, 583-9	50
1012	Metabolic changes in diabetes. 1993 , 7 (Pt 2), 205-8	5
1011	In vivo glucose metabolism in obese and type II diabetic subjects with or without hypertension. 1993 , 42, 764-72	33
1010	Obese men with type IIB hyperlipidemia are insulin resistant. 1993 , 13, 1469-75	16
1009	Different acute and chronic effects of acipimox treatment on glucose and lipid metabolism in patients with type 2 diabetes. 1993 , 10, 950-7	24
1008	Direct measurement of change in muscle glycogen concentration after a mixed meal in normal subjects. 1993 , 265, E224-9	37
1007	Effects of physiological hyperinsulinemia on the intracellular metabolic partition of plasma glucose. 1993 , 265, E943-53	6

1006	Liver and peripheral tissue glycogen metabolism in obese mice: effect of a mixed meal. 1993 , 265, E743-51	5
1005	Multiple metabolic effects of CGRP in conscious rats: role of glycogen synthase and phosphorylase. 1993 , 264, E1-10	16
1004	Quantitation of glycolysis and skeletal muscle glycogen synthesis in humans. 1993 , 265, E761-9	32
1003	Muscle glucose uptake during and after exercise is normal in insulin-resistant rats. 1993 , 264, E167-72	10
1002	Contribution of muscle and liver to glucose-fatty acid cycle in humans. 1993 , 264, E599-605	38
1001	Intracellular pH determination by ¹³ C-NMR spectroscopy. 1993 , 264, C755-60	20
1000	Enhanced insulin-dependent glucose utilization in iron-deficient veal calves. 1993 , 123, 1656-67	19
999	Differential effects of GLUT-1 or GLUT-4 overexpression on insulin responsiveness in transgenic mice. 1994 , 267, E738-44	28
998	Impact of variable insulinemia and glycemia on in vivo glycolysis and glucose storage in dogs. 1994 , 266, E62-71	7
997	In vivo regulation of rat muscle glycogen resynthesis after intense exercise. 1994 , 266, E85-91	28
996	Human rsk isoforms: cloning and characterization of tissue-specific expression. 1994 , 266, C351-9	82
995	Physical activity, not diet, should be the focus of measures for the primary prevention of cardiovascular disease. 1994 , 7, 43-65	5
994	Description of a second microsatellite marker and linkage analysis of the muscle glycogen synthase locus in familial NIDDM. 1994 , 43, 1061-5	20
993	Muscle fiber composition and capillary density in women and men with NIDDM. 1994 , 17, 382-6	255
992	Body composition: research and clinical advances--1993 A.S.P.E.N. research workshop. 1994 , 18, 91-103	26
991	Assessment of insulin action in NIDDM in the presence of dynamic changes in insulin and glucose concentration. 1994 , 43, 289-96	24
990	Genetic variants in promoters and coding regions of the muscle glycogen synthase and the insulin-responsive GLUT4 genes in NIDDM. 1994 , 43, 976-83	74
989	Glucose metabolism during the starved-to-fed transition in obese patients with NIDDM. 1994 , 43, 1418-25	28

988	A non-invasive assessment of hepatic glycogen kinetics and post-absorptive gluconeogenesis in man. 1994 , 37, 517-23	50
987	Molecular cloning and chromosomal localization of a human skeletal muscle PP-1 gamma 1 cDNA. 1994 , 5, 41-5	7
986	Effect of sustained physiologic hyperinsulinaemia and hyperglycaemia on insulin secretion and insulin sensitivity in man. 1994 , 37, 1025-35	248
985	A cross-sectional and short-term longitudinal characterisation of NIDDM in Psammomys obesus. 1994 , 37, 671-6	55
984	The effect of an antilipolytic agent (acipimox) on the insulin resistance of lipid and glucose metabolism in hypertriglyceridaemic patients. 1994 , 31, 6-13	8
983	¹³ C isotopomer analyses in intact tissue using [¹³ C]homonuclear decoupling. 1994 , 31, 374-9	11
982	Proton NMR observation of glycogen in vivo. 1994 , 31, 576-9	15
981	Abnormal cerebral metabolite concentrations in patients with probable Alzheimer disease. 1994 , 32, 110-5	195
980	Pathogenesis of glucose intolerance and diabetes mellitus in cirrhosis. 1994 , 19, 616-27	207
979	How to measure insulin action in vivo. 1994 , 10, 151-88	68
978	Genetic epidemiology of non-insulin-dependent diabetes. 1994 , 10, 385-405	9
977	Noninvasive assessment of in vivo glycogen kinetics in humans: effect of increased physical activity on glycogen breakdown and synthesis. 1994 , 69, 557-63	10
976	Is insulin resistance influenced by dietary linoleic acid and trans fatty acids?. 1994 , 17, 367-72	54
975	Impaired glycogen synthesis of skeletal muscle in patients with insulin-resistant diabetes mellitus. 1994 , 8, 213-20	1
974	Glycogen resynthesis in liver and muscle after exercise: measurement of the rate of resynthesis by ¹³ C magnetic resonance spectroscopy. 1994 , 2, 429-432	6
973	Insulin sensitivity in non-diabetic relatives of patients with non-insulin-dependent diabetes from two ethnic groups. 1994 , 40, 55-62	21
972	Facilitative glucose transporters. 1994 , 219, 713-25	779
971	Cutaneous manifestations of diabetes mellitus. 1994 , 30, 519-31; quiz 532-4	127

970	Glucose metabolism in incubated human muscle: effect of obesity and non-insulin-dependent diabetes mellitus. 1994 , 43, 1047-54	34
969	Drugs and insulin resistance: clinical methods of evaluation and new pharmacological approaches to metabolism. 1994 , 37, 311-20	3
968	Insulin action, thermogenesis and obesity. 1994 , 8, 481-507	5
967	Banting Lecture. Insulin action, diabetogenes, and the cause of type II diabetes. 1994 , 43, 1066-84	774
966	Insulin regimens for the non-insulin dependent: impact on diurnal metabolic state and quality of life. 1994 , 11, 551-7	31
965	The genetics of NIDDM. An update. 1994 , 17, 1523-33	30
964	In vivo regulation of muscle glycogen synthase and the control of glycogen synthesis. 1995 , 92, 8535-42	131
963	Whole-body glucose metabolism in obese patients with type 2 diabetes mellitus: the impact of hypertension and strict blood glucose control. 1995 , 12, 156-63	
962	Decreased muscle glucose transport/phosphorylation is an early defect in the pathogenesis of non-insulin-dependent diabetes mellitus. 1995 , 92, 983-7	272
961	Determinants of insulin-stimulated skeletal muscle glycogen metabolism in man. 1995 , 25, 693-8	10
960	Inhibition of aldose reductase: 13C NMR studies in isolated peripheral nerve. 1995 , 8, 133-8	
959	Effect of lipid oxidation on the regulation of glucose utilization in obese patients. 1995 , 32, 44-8	12
958	Using central cancer-registry data to monitor progress in early detection of breast and cervical cancer (Illinois, United States). 1995 , 6, 155-63	3
957	Insulin and colon cancer. 1995 , 6, 164-79	627
956	Role of insulin resistance in the pathogenesis of NIDDM. 1995 , 38, 1378-88	108
955	Multiple defects of both hepatic and peripheral intracellular glucose processing contribute to the hyperglycaemia of NIDDM. 1995 , 38, 326-36	59
954	Insulin resistance and abnormal albumin excretion in non-diabetic first-degree relatives of patients with NIDDM. 1995 , 38, 363-9	81
953	Polymorphisms of the human hexokinase II gene: lack of association with NIDDM and insulin resistance. 1995 , 38, 617-22	18

952	A relationship between impaired fetal growth and reduced muscle glycolysis revealed by 31P magnetic resonance spectroscopy. 1995 , 38, 1205-12	67
951	Unchanged gene expression of glycogen synthase in muscle from patients with NIDDM following sulphonylurea-induced improvement of glycaemic control. 1995 , 38, 1230-8	7
950	Simultaneous determination of the rates of the TCA cycle, glucose utilization, alpha-ketoglutarate/glutamate exchange, and glutamine synthesis in human brain by NMR. 1995 , 15, 12-25	283
949	A history of biological applications of NMR spectroscopy. 1995 , 28, 53-85	12
948	Effect of physical exercise on glycogen turnover and net substrate utilization according to the nutritional state. 1995 , 269, E1031-6	12
947	Insulinopenia and hyperglycemia influence the in vivo partitioning of GE and SI. 1995 , 268, E410-21	13
946	Skeletal muscle membrane lipid composition is related to adiposity and insulin action. 1995 , 96, 2802-8	211
945	Effects of fat on glucose uptake and utilization in patients with non-insulin-dependent diabetes. 1995 , 96, 1261-8	238
944	The genetics and pathophysiology of type II and gestational diabetes. 1995 , 32, 509-50	6
943	Regulation of glycogen synthase by glucose, glucosamine, and glutamine:fructose-6-phosphate amidotransferase. 1995 , 44, 314-20	54
942	The genetics of non-insulin-dependent diabetes mellitus. 1995 , 32, 51-98	14
941	Does intra-abdominal adipose tissue in black men determine whether NIDDM is insulin-resistant or insulin-sensitive?. 1995 , 44, 141-6	115
940	Effects of CGS 9343B (a putative calmodulin antagonist) on isolated skeletal muscle. Dissociation of signaling pathways for insulin-mediated activation of glycogen synthase and hexose transport. 1995 , 270, 25613-8	31
939	[Etiopathogenesis of non-insulin-dependent diabetes]. 1995 , 16, 20-30	0
938	Long-term effects of fluoxetine on glycemic control in obese patients with non-insulin-dependent diabetes mellitus or glucose intolerance: influence on muscle glycogen synthase and insulin receptor kinase activity. 1995 , 44, 1570-6	61
937	Rate of glucose entry into hepatic uridine diphosphoglucose by the direct pathway in fasted and fed states in normal humans. 1995 , 44, 172-82	24
936	Antihypertensive therapy with enalapril improves glucose storage and insulin sensitivity in hypertensive patients with non-insulin-dependent diabetes mellitus. 1995 , 44, 85-9	71
935	The effect of acute (60 minute) insulin stimulation upon human skeletal muscle glycogen synthase and protein phosphatase-1 in non-insulin-dependent diabetic patients and control subjects. 1995 , 12, 1110-5	5

934	Regulation of hexokinase II gene transcription and glucose phosphorylation by catecholamines, cyclic AMP, and insulin. 1995 , 44, 1426-32		45
933	Metformin. <i>New England Journal of Medicine</i> , 1996 , 334, 574-9	59.2	1610
932	Increased glucose transport-phosphorylation and muscle glycogen synthesis after exercise training in insulin-resistant subjects. <i>New England Journal of Medicine</i> , 1996 , 335, 1357-62	59.2	522
931	MB fraction of cumulative creatine kinase correlates with insulin secretion in patients with acute myocardial infarction: insulin as a possible determinant of myocardial MB creatine kinase. 1996 , 131, 24-31		4
930	Effects of infused glucose on glycogen metabolism in healthy humans. 1996 , 16, 403-16		12
929	Glucose transporters and diabetes. 1996 , 7, 295-307		15
928	The effect of non-insulin-dependent diabetes mellitus and obesity on glucose transport and phosphorylation in skeletal muscle. 1996 , 97, 2705-13		157
927	An ounce of prevention. 1996 , 128, 591-3		1
926	Effect of antihypertensive treatment with alacepril on insulin resistance in diabetic spontaneously hypertensive rats. 1996 , 45, 457-62		3
925	Effects of exercise training on abdominal obesity and related metabolic complications. 1996 , 21, 191-212		59
924	Nuclear Magnetic Resonance Studies of Glucose Metabolism in Non-Insulin-Dependent Diabetes Mellitus Subjects. 1996 , 2, 533-540		10
923	Measurement of interstitial muscle glucose and lactate concentrations during an oral glucose tolerance test. 1996 , 271, E1003-7		18
922	NMR studies of muscle glycogen synthesis in insulin-resistant offspring of parents with non-insulin-dependent diabetes mellitus immediately after glycogen-depleting exercise. 1996 , 93, 5329-34		68
921	The roles of insulin and glucagon in the regulation of hepatic glycogen synthesis and turnover in humans. 1996 , 97, 642-8		108
920	Cellular aspects of nutrition. 1996 , 11, 1922-1924		
919	An analytical perspective of NMR spectroscopy of biological fluids and cells. 1996 , 33 (Pt 4), 290-307		3
918	Analysis of the signaling pathway involved in the regulation of hexokinase II gene transcription by insulin. 1996 , 271, 16690-4		100
917	Human Muscle Studies by Magnetic Resonance Spectroscopy. 1996 ,		1

916 References. **1996**, 27, 181-214

915	Insulin action in cultured human myoblasts: contribution of different signalling pathways to regulation of glycogen synthesis. 1996 , 320 (Pt 3), 871-7	84
914	In vivo ¹³ C nuclear magnetic resonance: applications and current limitations for noninvasive assessment of fatty acid status. 1996 , 31 Suppl, S127-30	6
913	Exercise and the oxidation and storage of glucose, maize-syrup solids and sucrose determined from breath ¹³ CO ₂ . 1996 , 72, 349-56	3
912	Studies of insulin resistance in congenital generalized lipodystrophy. 1996 , 413, 29-37	42
911	Oxidation of acetate in rabbit skeletal muscle: detection by ¹³ C NMR spectroscopy in vivo. 1996 , 36, 451-7	18
910	Interactions Between Glucose and FFA Metabolism in Man. 1996 , 12, 15-36	34
909	Histochemical analysis of biological tissues using Raman spectroscopy. 1996 , 52, 215-249	166
908	Inhibition of muscle glycogen synthase activity and non-oxidative glucose disposal during hypoglycaemia in normal man. 1996 , 39, 226-34	13
907	Nutrition, hormones, and breast cancer: is insulin the missing link?. 1996 , 7, 605-25	287
906	Insulin resistance in non-insulin-dependent diabetes mellitus. A review. 1996 , 33, 87-99	10
905	¹ H NMR studies of glucose transport in the human brain. 1996 , 16, 427-38	81
904	Glycogen synthase polymorphism, insulin resistance and hypertension. 1996 , 5, 86-90	3
903	Enhanced insulin action due to targeted GLUT4 overexpression exclusively in muscle. 1996 , 45, 28-36	160
902	Nuclear magnetic resonance studies of muscle and applications to exercise and diabetes. 1996 , 45 Suppl 1, S93-8	17
901	Substrate metabolism in humans: 1995 A.S.P.E.N. research workshop. 1996 , 20, 13-9	
900	Cellular aspects of nutrition. 1996 , 11, 1922-1924	
899	Effects of hepatic glycogen content on hepatic insulin action in humans: alteration in the relative contributions of glycogenolysis and gluconeogenesis to endogenous glucose production. 1997 , 82, 1828-33	17

898	Cigarette smoking and insulin resistance in patients with noninsulin-dependent diabetes mellitus. 1997 , 82, 3619-24	134
897	Upstream of Randle. 1997 , 136, 273-4	1
896	Principles of Regulation and Control in Biochemistry: A Pragmatic, Flux-Oriented Approach. 1997 , 117-180	1
895	Enhancement of glucose uptake and utilization in cultured human muscle fibres overexpressing muscle glycogen phosphorylase. 1997 , 25, 7-10	
894	Metformin. 1997 , 26, 523-37	43
893	Impaired nonoxidative glucose metabolism in patients with liver cirrhosis: effects of two insulin doses. 1997 , 46, 840-3	13
892	Na ⁺ /Li ⁺ and Na ⁺ /H ⁺ countertransport activity in hypertensive non-insulin-dependent diabetic patients: role of insulin resistance and antihypertensive treatment. 1997 , 46, 1316-23	17
891	Differential regulation of glycogen synthase by insulin and glucose in vivo in skeletal muscles of the rat. 1997 , 273, E479-87	1
890	Role of glycogen concentration and epinephrine on glucose uptake in rat epitrochlearis muscle. 1997 , 272, E649-55	51
889	Effects of insulin-like growth factor I on glucose metabolism in rats with liver cirrhosis. 1997 , 273, E1189-93	6
888	Fat accretion and the regulation of insulin-mediated glycogen synthesis after puberty in rats. 1997 , 273, R1534-9	7
887	Insulin resistance and hypersecretion in obesity. European Group for the Study of Insulin Resistance (EGIR). 1997 , 100, 1166-73	637
886	The management of diabetes in patients with advanced cancer. 1997 , 13, 339-46	48
885	Substrate autoregulation of glucose transport: hexose 6-phosphate mediates the cellular distribution of glucose transporters. 1997 , 40, 30-9	38
884	A missense mutation of the muscle glycogen synthase gene (M416V) is associated with insulin resistance in the Japanese population. 1997 , 40, 947-52	42
883	New variants in the glycogen synthase gene (Gln71His, Met416Val) in patients with NIDDM from eastern Finland. 1997 , 40, 1313-9	33
882	Use of positron emission tomography (PET) in the assessment of skeletal muscle glucose metabolism. 1997 , 36, 359-63	1
881	NMR studies of brain ¹³ C-glucose uptake and metabolism: present status. 1997 , 15, 997-1003	

880	Effect of moderate exercise on insulin sensitivity and substrate metabolism during post-exercise recovery in cirrhosis. 1997 , 26, 972-9	7
879	Metabolic and therapeutic lessons from genetic manipulation of GLUT4. 1998 , 182, 143-152	21
878	Insulin action in skeletal muscle from patients with NIDDM. 1998 , 182, 153-160	62
877	Evidence for defects in the trafficking and translocation of GLUT4 glucose transporters in skeletal muscle as a cause of human insulin resistance. 1998 , 101, 2377-86	287
876	Effect of the surgical technique on long-term outcome of pancreas transplantation. 1998 , 11, 295-300	3
875	Insulin resistance in cirrhosis: prolonged reduction of hyperinsulinemia normalizes insulin sensitivity. 1998 , 28, 141-9	81
874	Potentiating effect of metformin on insulin-induced glucose uptake and glycogen metabolism with <i>Xenopus</i> oocytes. 1998 , 41, 2-8	12
873	Effect of the surgical technique on long-term outcome of pancreas transplantation. 1998 , 11, 295-300	14
872	Pharmacokinetics using fluorine NMR in vivo. 1998 , 33, 1-56	49
871	Muscle fibre composition and glycogen synthase activity in hypertension-prone men. 1998 , 243, 141-7	4
870	Normal glucose-induced suppression of glucose production but impaired stimulation of glucose disposal in type 2 diabetes: evidence for a concentration-dependent defect in uptake. 1998 , 47, 1735-47	63
869	Phenformin and lactic acidosis: a case report and review. 1998 , 16, 881-6	58
868	Long-term metabolic control in pancreas transplant patients according to three techniques. 1998 , 30, 268-9	6
867	Role of tissue-specific blood flow and tissue recruitment in insulin-mediated glucose uptake of human skeletal muscle. 1998 , 98, 234-41	132
866	Control analysis of muscle glycogen metabolism. 1998 , 353, 172-80	13
865	Insulin action and insulin resistance: diseases involving defects in insulin receptors, signal transduction, and the glucose transport effector system. 1998 , 105, 331-45	132
864	Exercise in the management of non-insulin-dependent diabetes mellitus. 1998 , 25, 25-35	71
863	Skeletal Muscle Metabolism in Exercise and Diabetes. 1998 ,	2

862	Insulin resistance versus insulin deficiency in non-insulin-dependent diabetes mellitus: problems and prospects. 1998 , 19, 477-90	325
861	Potential role of protein kinase B in insulin-induced glucose transport, glycogen synthesis, and protein synthesis. 1998 , 273, 5315-22	295
860	How to measure insulin sensitivity. 1998 , 16, 895-906	331
859	Skeletal muscle phosphatidylcholine fatty acids and insulin sensitivity in normal humans. 1998 , 275, E665-70	17
858	Overnight normalization of glucose concentrations improves hepatic but not extrahepatic insulin action in subjects with type 2 diabetes mellitus. 1998 , 83, 2461-9	22
857	A novel ¹³ C NMR method to assess intracellular glucose concentration in muscle, in vivo. 1998 , 274, E381-9	33
856	Minimal influence of blood flow on interstitial glucose and lactate-normal and insulin-resistant muscle. 1998 , 274, E446-52	20
855	Dietary carbohydrate and postexercise synthesis of proglycogen and macroglycogen in human skeletal muscle. 1998 , 275, E229-34	24
854	Effect of epinephrine on muscle glycogenolysis and insulin-stimulated muscle glycogen synthesis in humans. 1998 , 274, E130-8	25
853	Regulation of endogenous glucose production by glucose per se is impaired in type 2 diabetes mellitus. 1998 , 102, 744-53	108
852	Effects of free fatty acids on glucose transport and IRS-1-associated phosphatidylinositol 3-kinase activity. 1999 , 103, 253-9	887
851	The natural history of insulin secretory dysfunction and insulin resistance in the pathogenesis of type 2 diabetes mellitus. 1999 , 104, 787-94	1272
850	Metabolic control analysis of insulin-stimulated glucose disposal in rat skeletal muscle. 1999 , 277, E505-12	14
849	Whole body glucose metabolism. 1999 , 276, E409-26	65
848	¹³ C nuclear magnetic resonance study of glycogen resynthesis in muscle after glycogen-depleting exercise in healthy men receiving an infusion of lipid emulsion. 1999 , 48, 327-33	9
847	Effect of an Asp905Tyr mutation of the glycogen-associated regulatory subunit of protein phosphatase-1 on the regulation of glycogen synthesis by insulin and cyclic adenosine 3',5'-monophosphate agonists. 1999 , 13, 1773-83	6
846	Inhibitor-1 is not required for the activation of glycogen synthase by insulin in skeletal muscle. 1999 , 274, 20949-52	13
845	Insulin and exercise decrease glycogen synthase kinase-3 activity by different mechanisms in rat skeletal muscle. 1999 , 274, 24896-900	103

844	Intramyocellular triglyceride content is a determinant of in vivo insulin resistance in humans: a 1H-13C nuclear magnetic resonance spectroscopy assessment in offspring of type 2 diabetic parents. 1999 , 48, 1600-6		741
843	Determination of the rate of the glutamate/glutamine cycle in the human brain by in vivo 13C NMR. 1999 , 96, 8235-40		394
842	Impaired glucose transport as a cause of decreased insulin-stimulated muscle glycogen synthesis in type 2 diabetes. <i>New England Journal of Medicine</i> , 1999 , 341, 240-6	59.2	489
841	Ceramide generation is sufficient to account for the inhibition of the insulin-stimulated PKB pathway in C2C12 skeletal muscle cells pretreated with palmitate. 1999 , 274, 24202-10		468
840	Caractérisation de l'aptitude physique à l'effort chez l'enfant diabétique insulinodépendant par une étude électromyographique, cardiorespiratoire et métabolique. 1999 , 21, 193-199		
839	Insulin resistance: the fundamental trigger of type 2 diabetes. 1999 , 1 Suppl 1, S1-7		94
838	The relation between insulin resistance and cardiovascular complications of the insulin resistance syndrome. 1999 , 1 Suppl 1, S8-16		26
837	Sodium nitroprusside increases human skeletal muscle blood flow, but does not change flow distribution or glucose uptake. 1999 , 521 Pt 3, 729-37		21
836	In late pregnancy insulin-dependent glucose transport/phosphorylation is selectively impaired and activation of glycogen synthase by insulin facilitated in skeletal muscles of 24-h starved rats. 1999 , 42, 802-11		5
835	A paired-sibling analysis of the XbaI polymorphism in the muscle glycogen synthase gene. 1999 , 42, 1138-45		37
834	Marked impairment of protein tyrosine phosphatase 1B activity in adipose tissue of obese subjects with and without type 2 diabetes mellitus. 1999 , 134, 115-23		58
833	Cellular mechanisms of insulin resistance in humans. 1999 , 84, 3J-10J		126
832	Insulin resistance and antidiabetic drugs. 1999 , 58, 1511-20		51
831	Hepatic and peripheral glucose metabolism in intensive care patients receiving continuous high- or low-carbohydrate enteral nutrition. 1999 , 23, 260-7; discussion 267-8		32
830	The preventive effect of caloric restriction and exercise training on the onset of NIDDM in a rat model. 1999 , 19, 401-413		5
829	Microalbuminuria in essential hypertension: significance, pathophysiology, and therapeutic implications. 1999 , 34, 973-95		136
828	Molecular aspects of magnetic resonance imaging and spectroscopy. 1999 , 20, 185-318		23
827	Applications of NMR spectroscopy to study muscle glycogen metabolism in man. 1999 , 50, 277-90		57

826	Regulation of glycogen synthesis in rat skeletal muscle after glycogen-depleting contractile activity: effects of adrenaline on glycogen synthesis and activation of glycogen synthase and glycogen phosphorylase. 1999 , 344, 231-235	43
825	Regulation of glycogen synthesis in rat skeletal muscle after glycogen-depleting contractile activity: effects of adrenaline on glycogen synthesis and activation of glycogen synthase and glycogen phosphorylase. 1999 , 344, 231	16
824	NMR of glycogen in exercise. 1999 , 58, 851-9	21
823	The hyperinsulinaemic-euglycaemic glucose clamp: reproducibility and metabolic effects of prolonged insulin infusion in healthy subjects. 2000 , 98, 367-74	32
822	The hyperinsulinaemic-euglycaemic glucose clamp: reproducibility and metabolic effects of prolonged insulin infusion in healthy subjects. 2000 , 98, 367	12
821	The Met416-->Val variant in the glycogen synthase gene: the prevalence and the association with diabetes in a large number of Japanese individuals. Study Group for the Identification of Type 2 Diabetes Genes in Japanese. 2000 , 23, 1709-10	3
820	Evaluating clinical accuracy of systems for self-monitoring of blood glucose by error grid analysis: comment on constructing the "upper A-line". 2000 , 23, 1711-2	16
819	Are there different effects of acarbose and voglibose on serum levels of digoxin in a diabetic patient with congestive heart failure?. 2000 , 23, 1703	6
818	Relevance of the treatment facility for disease-related knowledge of diabetic patients. 2000 , 23, 1708-9	1
817	School attendance of children with type 1 diabetes. 2000 , 23, 1706-7	17
816	Prevalence of diabetes in Canadian adults aged 40 years or older. 2000 , 23, 1704-5	6
815	"Lady-like": is there a latent autoimmune diabetes in the young?. 2000 , 23, 1707-8	33
814	Are tumor necrosis factor-alpha receptor 2 levels associated with age?. 2000 , 23, 1713-5	2
813	Prevalence of GAD autoantibodies in women with gestational diabetes: a retrospective analysis. 2000 , 23, 1705-6	15
812	Moderate-intensity physical activity and fasting insulin levels in women. 2000 , 23, 1712-3	1
811	Hypoglycemia, seizures, and pulmonary edema. 2000 , 23, 1715	2
810	Venlafaxine in treatment of severe painful peripheral diabetic neuropathy. 2000 , 23, 1710-1	21
809	Effect of chitosan on plasma lipoprotein concentrations in type 2 diabetic subjects with hypercholesterolemia. 2000 , 23, 1703-4	26

808	American College of Sports Medicine position stand. Exercise and type 2 diabetes. 2000 , 32, 1345-60	404
807	Metabolic consequences of weight loss on glucose metabolism and insulin action in type 2 diabetes. 2000 , 2, 121-9	53
806	Impact of the Xba1-polymorphism of the human muscle glycogen synthase gene on parameters of the insulin resistance syndrome in a Danish twin population. 2000 , 17, 735-40	11
805	Assessment of human muscle glycogen synthesis and total glucose content by in vivo ¹³ C MRS. 2000 , 30, 122-8	19
804	Assessment of postprandial hepatic glycogen synthesis from uridine diphosphoglucose kinetics in obese and lean non-diabetic subjects. 2000 , 24, 1297-302	4
803	Insulin action and insulin resistance in human skeletal muscle. 2000 , 43, 821-35	280
802	Diabetic end-stage renal failure with autonomic dysfunction and spontaneous hypoglycemia during fasting. 2000 , 4, 147-151	
801	Transgenic mice overexpressing GLUT-1 protein in muscle exhibit increased muscle glycogenesis after exercise. 2000 , 278, E588-92	7
800	EFEITO DA METFORMINA E DO NÍVEL DE LÍPIDO NAS RESERVAS DE GLICOGÊNIO DE MÚSCULOS DENERVADOS E DE RATOS DIABÉTICOS. 2000 , 33, 490	
799	Control of glycogen synthesis is shared between glucose transport and glycogen synthase in skeletal muscle fibers. 2000 , 278, E234-43	42
798	Mechanism of muscle glycogen autoregulation in humans. 2000 , 278, E663-8	43
797	Mechanism of troglitazone action in type 2 diabetes. 2000 , 49, 827-31	118
796	Transgenic overexpression of hexokinase II in skeletal muscle does not increase glucose disposal in wild-type or Glut1-overexpressing mice. 2000 , 275, 22381-6	27
795	Bromocriptine: a novel approach to the treatment of type 2 diabetes. 2000 , 23, 1154-61	176
794	Characterization of signal transduction and glucose transport in skeletal muscle from type 2 diabetic patients. 2000 , 49, 284-92	293
793	Can all newly diagnosed subjects without type 1 diabetes-associated autoimmune markers be classified as type 1b diabetic patients?. 2000 , 23, 1715-6	4
792	Organizing glucose disposal: emerging roles of the glycogen targeting subunits of protein phosphatase-1. 2000 , 49, 1967-77	149
791	Effects of glucosamine infusion on insulin secretion and insulin action in humans. 2000 , 49, 926-35	122

790	Decreased insulin responsiveness of glucose uptake in cultured human skeletal muscle cells from insulin-resistant nondiabetic relatives of type 2 diabetic families. 2000 , 49, 1169-77	58
789	Inhibition of glycogen-synthase kinase 3 stimulates glycogen synthase and glucose transport by distinct mechanisms in 3T3-L1 adipocytes. 2000 , 275, 15765-72	92
788	Cellular mechanisms of insulin resistance. 2000 , 106, 171-6	1890
787	Induction of insulin resistance in human skeletal muscle cells by downregulation of glycogen synthase protein expression. 2000 , 49, 962-8	8
786	Amelioration of insulin resistance but not hyperinsulinemia in obese mice overexpressing GLUT4 selectively in skeletal muscle. 2000 , 49, 340-6	10
785	Effects of endothelin-1 and nitric oxide on glucokinase activity in isolated rat hepatocytes. 2000 , 49, 73-80	17
784	Changes in phosphatidylcholine fatty acid composition are associated with altered skeletal muscle insulin responsiveness in normal man. 2000 , 49, 232-8	35
783	The Diabetic Athlete. 442-466	
782	Mechanism by which metformin reduces glucose production in type 2 diabetes. 2000 , 49, 2063-9	773
781	Insulin resistance with aging: effects of diet and exercise. 2000 , 30, 327-46	174
780	Regulation of Muscle Glucose Uptake In Vivo. 2001 , 803-845	4
779	Cardiovascular implications of insulin resistance and non-insulin-dependent diabetes mellitus. 2001 , 15, 768-77	5
778	Disease model: hyperinsulinemia and insulin resistance. Part A-targeted disruption of insulin signaling or glucose transport. 2001 , 7, 320-2	24
777	New perspectives into the molecular pathogenesis and treatment of type 2 diabetes. 2001 , 104, 517-29	564
776	The response of skeletal muscle to leptin. 2001 , 6, d90-97	35
775	Metabolic adaptations in skeletal muscle overexpressing GLUT4: effects on muscle and physical activity. 2001 , 15, 958-969	18
774	Preoperative oral carbohydrate treatment attenuates immediate postoperative insulin resistance. 2001 , 280, E576-83	203
773	The response of skeletal muscle to leptin. 2001 , 6, D90-7	31

772	Postexercise muscle glycogen resynthesis in obese insulin-resistant Zucker rats. 2001 , 91, 1512-9	16
771	Flux control in the rat gastrocnemius glycogen synthesis pathway by in vivo ¹³ C/ ³¹ P NMR spectroscopy. 2001 , 280, E598-607	21
770	Physiological hyperinsulinemia impairs insulin-stimulated glycogen synthase activity and glycogen synthesis. 2001 , 280, E712-9	41
769	Non-invasive studies of glycogen metabolism in human skeletal muscle using nuclear magnetic resonance spectroscopy. 2001 , 4, 261-6	24
768	Pathogenesis of Type 2 Diabetes. 2001 , 1115-1168	1
767	Regulation of Hepatic Glucose Uptake. 2001 , 787-802	1
766	Insulin, insulin-like growth factors and colon cancer: a review of the evidence. 2001 , 131, 3109S-20S	662
765	The Metabolic Actions of Growth Hormone. 2001 , 849-906	2
764	Pathogenesis of obesity and diabetes mellitus: insights provided by indirect calorimetry in humans. 2001 , 38, 7-21	12
763	Carbohydrate depletion has profound effects on the muscle amino acid and glucose metabolism during hyperinsulinaemia. 2001 , 3, 113-20	4
762	Studies of metabolic compartmentation and glucose transport using in vivo MRS. 2001 , 14, 149-60	15
761	In vivo effects of insulin and bis(maltolato)oxovanadium (IV) on PKB activity in the skeletal muscle and liver of diabetic rats. 2001 , 223, 147-57	17
760	Assessing skeletal muscle glucose metabolism with positron emission tomography. 2001 , 52, 279-84	16
759	Differentiation of glucose transport in human brain gray and white matter. 2001 , 21, 483-92	79
758	Skeletal muscle low attenuation area and maximal fat oxidation rate during submaximal exercise in male obese individuals. 2001 , 25, 1579-84	26
757	Functional inactivation of the IGF-I and insulin receptors in skeletal muscle causes type 2 diabetes. 2001 , 15, 1926-34	271
756	GLUT4 is reduced in slow muscle fibers of type 2 diabetic patients: is insulin resistance in type 2 diabetes a slow, type 1 fiber disease?. 2001 , 50, 1324-9	199
755	¹³ C NMR of intermediary metabolism: implications for systemic physiology. 2001 , 63, 15-48	100

754	Insulin control of glycogen metabolism in knockout mice lacking the muscle-specific protein phosphatase PP1G/RGL. 2001 , 21, 2683-94	132
753	The muscle-specific protein phosphatase PP1G/R(GL)(G(M))is essential for activation of glycogen synthase by exercise. 2001 , 276, 39959-67	88
752	Effect of 5-aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside infusion on in vivo glucose and lipid metabolism in lean and obese Zucker rats. 2001 , 50, 1076-82	248
751	Metabolic adaptations in skeletal muscle overexpressing GLUT4: effects on muscle and physical activity. 2001 , 15, 958-69	78
750	Effect of non-insulin-dependent diabetes mellitus on myocardial insulin responsiveness in patients with ischemic heart disease. 2001 , 103, 1734-9	81
749	Type 2 diabetes impairs splanchnic uptake of glucose but does not alter intestinal glucose absorption during enteral glucose feeding: additional evidence for a defect in hepatic glucokinase activity. 2001 , 50, 1351-62	137
748	Overexpression of 1-acyl-glycerol-3-phosphate acyltransferase-alpha enhances lipid storage in cellular models of adipose tissue and skeletal muscle. 2001 , 50, 233-40	46
747	Impaired muscle glycogen synthase in type 2 diabetes is associated with diminished phosphatidylinositol 3-kinase activation. 2001 , 86, 4307-14	47
746	Low levels of Sex-Hormone-Binding Globulin predict insulin requirement in patients with gestational diabetes mellitus. 2001 , 109, 365-9	29
745	Intracellular partition of plasma glucose disposal in hypertensive and normotensive subjects with type 2 diabetes mellitus. 2001 , 86, 2073-9	8
744	Gender factors affect fatty acids-induced insulin resistance in nonobese humans: effects of oral steroidal contraception. 2001 , 86, 3188-96	78
743	The diabetic phenotype is conserved in myotubes established from diabetic subjects: evidence for primary defects in glucose transport and glycogen synthase activity. 2002 , 51, 921-7	131
742	Effects of a novel glycogen synthase kinase-3 inhibitor on insulin-stimulated glucose metabolism in Zucker diabetic fatty (fa/fa) rats. 2002 , 51, 2903-10	190
741	Chronic suppression of insulin by diazoxide alters the activities of key enzymes regulating hepatic gluconeogenesis in Zucker rats. 2002 , 146, 871-9	25
740	Acyl-CoA binding protein expression is fiber type- specific and elevated in muscles from the obese insulin-resistant Zucker rat. 2002 , 51, 449-54	39
739	Pubertal alterations in growth and body composition. VI. Pubertal insulin resistance: relation to adiposity, body fat distribution and hormone release. 2002 , 26, 701-9	106
738	Adaptation and maladaptation of the heart in diabetes: Part I: general concepts. 2002 , 105, 1727-33	434
737	Effect of IGF-I on FFA and glucose metabolism in control and type 2 diabetic subjects. 2002 , 282, E1360-8	43

736	Mechanism of amino acid-induced skeletal muscle insulin resistance in humans. 2002 , 51, 599-605	281
735	Normalization of plasma glucose concentration by insulin therapy improves insulin-stimulated glycogen synthesis in type 2 diabetes. 2002 , 51, 462-8	104
734	Increased glucocorticoid receptor expression in human skeletal muscle cells may contribute to the pathogenesis of the metabolic syndrome. 2002 , 51, 1066-75	150
733	Type 2 diabetes therapy. A pathophysiologically based approach. 2002 , 111, 83-4, 87-92, 95	4
732	Indinavir acutely inhibits insulin-stimulated glucose disposal in humans: a randomized, placebo-controlled study. 2002 , 16, F1-8	200
731	Dysfunction of mitochondria in human skeletal muscle in type 2 diabetes. 2002 , 51, 2944-50	1734
730	The Krüppel-like factor KLF15 regulates the insulin-sensitive glucose transporter GLUT4. 2002 , 277, 34322-8	186
729	Regulation of glucose transport in human skeletal muscle. 2002 , 34, 410-8	66
728	Role of Akt/protein kinase B in metabolism. 2002 , 13, 444-51	543
727	Insulin sensitivity correlates with glycogen synthesis rate, but not with von Willebrand factor in type 2 diabetes. 2002 , 13, 439	5
726	Islet Transplantation under the Kidney Capsule Corrects the Defects in Glycogen Metabolism in Both Liver and Muscle of Streptozocin-Diabetic Rats. 2002 , 11, 103-112	10
725	Insulin resistance: concepts, controversies, and the role of nutrition. 2002 , 63, 20-32	19
724	Glucose transport rate and glycogen synthase activity both limit skeletal muscle glycogen accumulation. 2002 , 282, E1214-21	63
723	Pathogenesis of skeletal muscle insulin resistance in type 2 diabetes mellitus. 2002 , 90, 11G-18G	250
722	Role of glycogen synthase kinase-3 in skeletal muscle insulin resistance in Type 2 diabetes. 2002 , 16, 69-71	12
721	Free fatty acids in obesity and type 2 diabetes: defining their role in the development of insulin resistance and beta-cell dysfunction. 2002 , 32 Suppl 3, 14-23	867
720	Effect of misoprostol (PGE1) on glucose metabolism in type-2-diabetic and control subjects. 2002 , 4, 195-200	2
719	Association of physical activity with insulin sensitivity in children. 2002 , 26, 1310-6	132

718	Evaluation of insulin sensitivity in clinical practice and in research settings. 2003 , 61, 397-412	180
717	Long-term oral nicotine administration reduces insulin resistance in obese rats. 2003 , 458, 227-34	32
716	Metabolic and molecular basis of insulin resistance. 2003 , 10, 311-23	83
715	Male preponderance in early diagnosed type 2 diabetes is associated with the ARE insertion/deletion polymorphism in the PPP1R3A locus. 2003 , 4, 11	11
714	Metabolic adaptations to dexamethasone-induced insulin resistance in healthy volunteers. 2003 , 11, 625-31	77
713	Cellular mechanism of insulin resistance: potential links with inflammation. 2003 , 27 Suppl 3, S6-11	165
712	Preface. 2003 , 17, 301-303	
711	Reduced expression of PGC-1 and insulin-signaling molecules in adipose tissue is associated with insulin resistance. 2003 , 301, 578-82	121
710	Association of muscle glycogen synthase polymorphism with insulin resistance in type 2 diabetic patients. 2003 , 52, 895-9	9
709	Relationship of depression to diabetes types 1 and 2: epidemiology, biology, and treatment. 2003 , 54, 317-29	459
708	Direct, noninvasive measurement of brain glycogen metabolism in humans. 2003 , 43, 323-9	78
707	Prediabetes in obese youth: a syndrome of impaired glucose tolerance, severe insulin resistance, and altered myocellular and abdominal fat partitioning. 2003 , 362, 951-7	383
706	Ethyl icosapentate (omega-3 fatty acid) causes accumulation of lipids in skeletal muscle but suppresses insulin resistance in OLETF rats. Otsuka Long-Evans Tokushima Fatty. 2003 , 52, 30-4	17
705	Insulin resistance in adipose tissue: direct and indirect effects of tumor necrosis factor-alpha. 2003 , 14, 447-55	394
704	A comparison of (13)C NMR measurements of the rates of glutamine synthesis and the tricarboxylic acid cycle during oral and intravenous administration of [1-(13)C]glucose. 2003 , 10, 181-90	60
703	Type 2 Diabetes in Children and Adolescents. 2003 , 61-88	
702	Insulin action in cultured human skeletal muscle cells during differentiation: assessment of cell surface GLUT4 and GLUT1 content. 2003 , 60, 991-8	94
701	Disruption of the striated muscle glycogen targeting subunit PPP1R3A of protein phosphatase 1 leads to increased weight gain, fat deposition, and development of insulin resistance. 2003 , 52, 596-604	62

700	Rosiglitazone improves downstream insulin receptor signaling in type 2 diabetic patients. 2003 , 52, 1943-50	116
699	Increased phosphorylation of skeletal muscle glycogen synthase at NH2-terminal sites during physiological hyperinsulinemia in type 2 diabetes. 2003 , 52, 1393-402	109
698	Impaired oxidative phosphorylation in skeletal muscle of intrauterine growth-retarded rats. 2003 , 285, E130-7	119
697	Nutrition, insulin, insulin-like growth factors and cancer. 2003 , 35, 694-704	214
696	Measuring in-vivo metabolism using nuclear magnetic resonance. 2003 , 6, 501-9	26
695	Direct assessment of muscle glycogen storage after mixed meals in normal and type 2 diabetic subjects. 2003 , 284, E688-94	57
694	Smoking impairs muscle recovery from exercise. 2003 , 285, E116-22	9
693	Roles of 5'-AMP-activated protein kinase (AMPK) in mammalian glucose homeostasis. 2003 , 375, 1-16	288
692	Impaired glucose tolerance: do pharmacological therapies correct the underlying metabolic disturbance?. 2003 , 3, S24-S40	4
691	Phosphorylation of Ser640 in muscle glycogen synthase by DYRK family protein kinases. 2004 , 279, 2490-8	78
690	Cultured muscle cells from insulin-resistant type 2 diabetes patients have impaired insulin, but normal 5-amino-4-imidazolecarboxamide riboside-stimulated, glucose uptake. 2004 , 89, 3440-8	29
689	The 1st World Congress on the Insulin Resistance Syndrome. 2004 , 27, 602-9	13
688	Protein phosphorylation can regulate metabolite concentrations rather than control flux: the example of glycogen synthase. 2004 , 101, 1485-90	20
687	Relationship between insulin sensitivity and sphingomyelin signaling pathway in human skeletal muscle. 2004 , 53, 1215-21	200
686	Comparison of the [13C]glucose breath test to the hyperinsulinemic-euglycemic clamp when determining insulin resistance. 2004 , 27, 441-7	34
685	Alterations in postprandial hepatic glycogen metabolism in type 2 diabetes. 2004 , 53, 3048-56	216
684	Regulation of net hepatic glycogenolysis and gluconeogenesis during exercise: impact of type 1 diabetes. 2004 , 89, 4656-64	84
683	Insulin action during late pregnancy in the conscious dog. 2004 , 286, E909-15	15

682	Muscle glycogen content in type 2 diabetes mellitus. 2004 , 287, E1002-7	46
681	Dysfunctional fat cells, lipotoxicity and type 2 diabetes. 2004 , 58, 9-21	148
680	Effect of carbohydrate overfeeding on whole body macronutrient metabolism and expression of lipogenic enzymes in adipose tissue of lean and overweight humans. 2004 , 28, 1291-8	71
679	Alterations of glucose metabolism in type 2 diabetes mellitus. An overview. 2004 , 5, 89-97	20
678	PASSCLAIM--body weight regulation, insulin sensitivity and diabetes risk. 2004 , 43 Suppl 2, II7-II46	20
677	Exercise as a therapeutic intervention for the prevention and treatment of insulin resistance. 2004 , 20, 383-93	211
676	Pathogenesis of type 2 diabetes mellitus. 2004 , 88, 787-835, ix	700
675	Role of the adipocyte, free fatty acids, and ectopic fat in pathogenesis of type 2 diabetes mellitus: peroxisomal proliferator-activated receptor agonists provide a rational therapeutic approach. 2004 , 89, 463-78	492
674	The reduced insulin-mediated glucose oxidation in skeletal muscle from type 2 diabetic subjects may be of genetic origin--evidence from cultured myotubes. 2004 , 1690, 85-91	33
673	GSK3 involvement in amylin signaling in isolated rat soleus muscle. 2004 , 25, 2119-25	3
672	Metabolism of oral glucose in children born small for gestational age: evidence for an impaired whole body glucose oxidation. 2004 , 53, 847-51	28
671	Role of the liver in the control of carbohydrate and lipid homeostasis. 2004 , 30, 398-408	313
670	Nutritional concerns in the diabetic athlete. 2004 , 3, 192-7	3
669	Glycogen synthase kinase-3 in insulin and Wnt signalling: a double-edged sword?. 2004 , 32, 803-8	122
668	Glycogenesis and glucose oxidation during an intravenous glucose tolerance test in man. 2004 , 106, 645-52	6
667	Unraveling the cellular mechanism of insulin resistance in humans: new insights from magnetic resonance spectroscopy. 2004 , 19, 183-90	109
666	Levodopa with carbidopa diminishes glycogen concentration, glycogen synthase activity, and insulin-stimulated glucose transport in rat skeletal muscle. 2004 , 97, 2339-46	16
665	Possibility of autocrine beta-adrenergic signaling in C2C12 myotubes. 2005 , 230, 845-52	10

664	Asians need different criteria for defining overweight and obesity. 2005 , 165, 1069-70	19
663	In Vivo NMR Spectroscopy [Techniques; Direct Detection; MRS; Kinetics and Labels; Fluxes; Concentrations. 2005 , 7-29	1
662	MRS Studies of the Role of the Muscle Glycogen Synthesis Pathway in the Pathophysiology of Type 2 Diabetes. 2005 , 45-57	1
661	Regulation of Glycogen Metabolism in Muscle during Exercise. 2005 , 73-86	
660	Nuclear peroxisome proliferator-activated receptors and thiazolidinediones. 2005 , 43, 1-21	14
659	Insulin Resistance in Glucose Disposal and Production in Man with Specific Reference to Metabolic Syndrome and Type 2 Diabetes. 2005 , 155-178	
658	Studies of Small Biological Molecules. 2005 , 191-210	
657	Genetics of type 2 diabetes mellitus: status and perspectives. 2005 , 7, 122-35	53
656	Molecular mechanisms of lipid-induced insulin resistance in muscle, liver and vasculature. 2005 , 7, 621-32	91
655	Use of GLUT-4 null mice to study skeletal muscle glucose uptake. 2005 , 32, 308-13	14
654	Amino acid-dependent modulation of glucose metabolism in humans. 2005 , 35, 351-4	33
653	Olanzapine impairs glycogen synthesis and insulin signaling in L6 skeletal muscle cells. 2005 , 10, 1089-96	83
652	A novel glycogen-targeting subunit of protein phosphatase 1 that is regulated by insulin and shows differential tissue distribution in humans and rodents. 2005 , 272, 1478-89	56
651	Human triglyceride-rich lipoproteins impair glucose metabolism and insulin signalling in L6 skeletal muscle cells independently of non-esterified fatty acid levels. 2005 , 48, 756-66	41
650	Glucocorticoid-induced insulin resistance in skeletal muscles: defects in insulin signalling and the effects of a selective glycogen synthase kinase-3 inhibitor. 2005 , 48, 2119-30	167
649	Insulin resistance in the Zucker diabetic fatty rat: a metabolic characterisation of obese and lean phenotypes. 2005 , 42, 162-70	72
648	Mitochondrial dysfunction and type 2 diabetes. 2005 , 5, 177-83	48
647	All calories are not equal. 2005 , 165, 1069	1

646	Serum Ferritin Levels in Patients With Nonalcoholic Fatty Liver DiseaseReply. 2005 , 165, 1070	
645	Molecular mechanisms of skeletal muscle insulin resistance in type 2 diabetes. 2005 , 1, 167-74	72
644	Twenty-five years since the discovery of endothelium-derived relaxing factor (EDRF): does a dysfunctional endothelium contribute to the development of type 2 diabetes?. 2005 , 83, 681-700	24
643	Contraction activates glucose uptake and glycogen synthase normally in muscles from dexamethasone-treated rats. 2005 , 289, E241-50	24
642	Caveolin-3 knockout mice show increased adiposity and whole body insulin resistance, with ligand-induced insulin receptor instability in skeletal muscle. 2005 , 288, C1317-31	85
641	Beta-cell function and islet morphology in normal, obese, and obese beta-cell mass-reduced Götting minipigs. 2005 , 288, E412-21	26
640	Glucosamine-induced activation of glycogen biosynthesis in isolated adipocytes. Evidence for a rapid allosteric control mechanism within the hexosamine biosynthesis pathway. 2005 , 280, 11018-24	25
639	Mechanisms of insulin resistance in humans and possible links with inflammation. 2005 , 45, 828-33	198
638	Effect of a sustained reduction in plasma free fatty acid concentration on intramuscular long-chain fatty Acyl-CoAs and insulin action in type 2 diabetic patients. 2005 , 54, 3148-53	146
637	Insulin resistance: causes and consequences. 2005 , 65, 1-24	9
636	Control of mammalian glycogen synthase by PAS kinase. 2005 , 102, 16596-601	44
635	Amylin and the integrated control of nutrient influx. 2005 , 52, 67-77	23
634	Effects in skeletal muscle. 2005 , 52, 209-28	3
633	The "obese insulin-sensitive" adolescent: importance of adiponectin and lipid partitioning. 2005 , 90, 3731-7	134
632	Impact of genetic versus environmental factors on the control of muscle glycogen synthase activation in twins. 2005 , 54, 1289-96	25
631	Dose-response effect of elevated plasma free fatty acid on insulin signaling. 2005 , 54, 1640-8	288
630	Glycogen synthesis in human gastrocnemius muscle is not representative of whole-body muscle glycogen synthesis. 2005 , 54, 1277-82	11
629	Overactivation of S6 kinase 1 as a cause of human insulin resistance during increased amino acid availability. 2005 , 54, 2674-84	288

628	AMP-activated protein kinase alpha2 activity is not essential for contraction- and hyperosmolarity-induced glucose transport in skeletal muscle. 2005 , 280, 39033-41	143
627	Interaction between dietary lipids and physical inactivity on insulin sensitivity and on intramyocellular lipids in healthy men. 2005 , 28, 1404-9	41
626	Chapter 18 Methodological approaches to metabolism research. 2005 , 433-478	
625	[Glucose intolerance in obese children and adolescents]. 2005 , 125, 405-8	12
624	Pathophysiology of Insulin Action in Humans. 2005 , 179-197	
623	Targeting glycogen synthase kinase-3 in insulin signalling. 2006 , 10, 429-44	42
622	Physiogenomic analysis of weight loss induced by dietary carbohydrate restriction. 2006 , 3, 20	22
621	Molecular mechanisms of insulin resistance in humans and their potential links with mitochondrial dysfunction. 2006 , 55 Suppl 2, S9-S15	630
620	Pathophysiology of insulin resistance. 2006 , 20, 665-79	158
619	Etiology of insulin resistance. 2006 , 119, S10-6	562
618	Impaired insulin action despite upregulation of proximal insulin signaling: novel insights into skeletal muscle insulin resistance in liver cirrhosis. 2006 , 45, 797-804	9
617	Perioperative glucose control in the diabetic or nondiabetic patient. 2006 , 99, 580-9; quiz 590-1	86
616	The interrelationship of depression and diabetes. 165-194	4
615	Gene expression profiling of mice with genetically modified muscle glycogen content. 2006 , 395, 137-45	23
614	Modern Applications of MRI in Medical Sciences. 343-476	1
613	Insulin Resistance, Diabetes and its Complications. 2006 ,	
612	AMP-activated protein kinase: Role in metabolism and therapeutic implications. 2006 , 8, 591-602	109
611	Examination of PPP1R3B as a candidate gene for the type 2 diabetes and MODY loci on chromosome 8p23. 2006 , 70, 587-93	19

610	Melatonin stimulates glucose transport via insulin receptor substrate-1/phosphatidylinositol 3-kinase pathway in C2C12 murine skeletal muscle cells. 2006 , 41, 67-72	82
609	New insights into the pathogenesis of insulin resistance in humans using magnetic resonance spectroscopy. 2006 , 14 Suppl 1, 34S-40S	77
608	Topiramate stimulates glucose transport through AMP-activated protein kinase-mediated pathway in L6 skeletal muscle cells. 2006 , 6, 327-32	12
607	Glucose tolerance at age 58 and the decline of glucose tolerance in comparison with age 50 in people prenatally exposed to the Dutch famine. 2006 , 49, 637-43	171
606	The effect of glutamine and dihydroxyacetone supplementation on food intake, weight gain, and postprandial glycogen synthesis in female Zucker rats. 2006 , 22, 794-801	6
605	Dynamic MRS and MRI of skeletal muscle function and biomechanics. 2006 , 19, 927-53	103
604	The relationship between peripheral glucose utilisation and insulin sensitivity in the regulation of hepatic glucose production: studies in normal and alloxan-diabetic dogs. 2006 , 22, 155-67	0
603	Effects of an ad libitum, high carbohydrate diet and aerobic exercise training on insulin action and muscle metabolism in older men and women. 2006 , 61, 299-304	16
602	The prohibited list and cheating in sport. 2006 , 27, 80-2	2
601	Muscle type-specific fatty acid metabolism in insulin resistance: an integrated in vivo study in Zucker diabetic fatty rats. 2006 , 290, E989-97	22
600	Muscle glycogen inharmoniously regulates glycogen synthase activity, glucose uptake, and proximal insulin signaling. 2006 , 290, E154-E162	82
599	Nutrients suppress phosphatidylinositol 3-kinase/Akt signaling via raptor-dependent mTOR-mediated insulin receptor substrate 1 phosphorylation. 2006 , 26, 63-76	329
598	Insulin signaling and glucose transport in skeletal muscle from first-degree relatives of type 2 diabetic patients. 2006 , 55, 1283-8	59
597	A prospective study of pregravid physical activity and sedentary behaviors in relation to the risk for gestational diabetes mellitus. 2006 , 166, 543-8	167
596	Third Annual World Congress on the Insulin Resistance Syndrome: mediators, antecedents, and measurement. 2006 , 29, 1700-6	6
595	Necdin and E2F4 are modulated by rosiglitazone therapy in diabetic human adipose and muscle tissue. 2006 , 55, 640-50	18
594	Urocortin 2 modulates glucose utilization and insulin sensitivity in skeletal muscle. 2006 , 103, 16580-5	53
593	Increased Lipid Availability Impairs Insulin-Stimulated ATP Synthesis in Human Skeletal Muscle. 2006 , 55, 136-140	182

592	Insulin secretion and action in subjects with impaired fasting glucose and impaired glucose tolerance: results from the Veterans Administration Genetic Epidemiology Study. 2006 , 55, 1430-5	384
591	Reduced expression of nuclear-encoded genes involved in mitochondrial oxidative metabolism in skeletal muscle of insulin-resistant women with polycystic ovary syndrome. 2007 , 56, 2349-55	135
590	Inhibition of lipolysis stimulates peripheral glucose uptake but has no effect on endogenous glucose production in HIV lipodystrophy. 2007 , 56, 2070-7	19
589	Hyperglycemia, maturity-onset obesity, and insulin resistance in NONcNZO10/LtJ males, a new mouse model of type 2 diabetes. 2007 , 293, E327-36	42
588	CPT I overexpression protects L6E9 muscle cells from fatty acid-induced insulin resistance. 2007 , 292, E677-86	59
587	Muscle mitochondrial ATP synthesis and glucose transport/phosphorylation in type 2 diabetes. 2007 , 4, e154	186
586	Low birth weight and zygosity status is associated with defective muscle glycogen and glycogen synthase regulation in elderly twins. 2007 , 56, 2710-4	10
585	Direct linkage of mitochondrial genome variation to risk factors for type 2 diabetes in conplastic strains. 2007 , 17, 1319-26	61
584	Effect of insulin deprivation on muscle mitochondrial ATP production and gene transcript levels in type 1 diabetic subjects. 2007 , 56, 2683-9	87
583	Benefits of lifestyle modification in NAFLD. 2007 , 56, 1760-9	169
582	The Mammalian target of rapamycin pathway regulates nutrient-sensitive glucose uptake in man. 2007 , 56, 1600-7	180
581	Étiologie et physiopathologie du diabète de type 2. 2007 , 4, 1-12	4
580	Energy substrate metabolism among habitually violent alcoholic offenders having antisocial personality disorder. 2007 , 150, 287-95	21
579	Targeted suppression of calpain-10 expression impairs insulin-stimulated glucose uptake in cultured primary human skeletal muscle cells. 2007 , 91, 318-24	29
578	Glycogen synthase kinase 3alpha-specific regulation of murine hepatic glycogen metabolism. 2007 , 6, 329-37	225
577	The role of GSK3 in glucose homeostasis and the development of insulin resistance. 2007 , 77 Suppl 1, S49-57	151
576	Role of AMP-activated protein kinase in exercise capacity, whole body glucose homeostasis, and glucose transport in skeletal muscle -insight from analysis of a transgenic mouse model-. 2007 , 77 Suppl 1, S92-8	44
575	Resistin impairs basal and insulin-induced glycogen synthesis by different mechanisms. 2007 , 263, 112-9	8

574	Mechanisms of Insulin Action. 2007 ,		3
573	The effect of exercise, training, and inactivity on insulin sensitivity in diabetics and their relatives: what is new?. 2007 , 32, 541-8		22
572	Cardiomyopathy and exercise intolerance in muscle glycogen storage disease 0. <i>New England Journal of Medicine</i> , 2007 , 357, 1507-14	59.2	106
571	Disordered lipid metabolism and the pathogenesis of insulin resistance. 2007 , 87, 507-20		741
570	Sweet clarity: less invasive measures of hepatic glucose metabolism. 2007 , 132, 794-7		3
569	Antidiabetic Activity. 2007 , 1323-1607		1
568	Shulman, Robert G.: My Years in NMR. 2007 ,		
567	Whole Body Studies: Impact of MRS. 2007 ,		
566	In Vivo NMR Spectroscopy Static Aspects. 43-110		6
565	Effects of hyperbaric exposure with high oxygen concentration on glucose and insulin levels and skeletal muscle-fiber properties in diabetic rats. 2007 , 35, 337-43		33
564	Musculoskeletal spectroscopy. 2007 , 25, 321-38		97
563	Associations between pituitary-adrenocortical function and abdominal obesity, hyperinsulinaemia and dyslipidaemia in normotensive males. 1997 , 241, 451-61		33
562	Mitochondrial fitness and insulin sensitivity in humans. 2008 , 51, 2155-67		61
561	Utilization of uniformly labeled ¹³ C-polyunsaturated fatty acids in the synthesis of long-chain fatty acids and cholesterol accumulating in the neonatal rat brain. 1994 , 62, 2429-36		41
560	Fat infiltration in muscle: new evidence for familial clustering and associations with diabetes. 2008 , 16, 1854-60		32
559	Enhanced glycogenesis is involved in cellular senescence via GSK3/GS modulation. 2008 , 7, 894-907		63
558	Brain glucagon-like peptide 1 signaling controls the onset of high-fat diet-induced insulin resistance and reduces energy expenditure. 2008 , 149, 4768-77		86
557	Insulin resistance in chronic heart failure. 2008 , 52, 239; author reply 239-40		18

556	Exercise and the treatment of diabetes and obesity. 2008 , 37, 887-903	26
555	Exercise interval training: an improved stimulus for improving the physiology of pre-diabetes. 2008 , 71, 752-61	31
554	Insulin action and signalling in fat and muscle from dexamethasone-treated rats. 2008 , 474, 91-101	96
553	Muscular diacylglycerol metabolism and insulin resistance. 2008 , 94, 242-51	99
552	Type 2 diabetes mellitus and skeletal muscle metabolic function. 2008 , 94, 252-8	124
551	Assessment of glucose metabolism in humans with the simultaneous use of indirect calorimetry and tracer techniques. 1995 , 15, 1-12	20
550	Mitochondrial dysfunction in type 2 diabetes and obesity. 2008 , 37, 713-31, x	96
549	Impact of body weight, diet and lifestyle on nonalcoholic fatty liver disease. 2008 , 2, 217-31	12
548	A chronic increase in physical activity inhibits fed-state mTOR/S6K1 signaling and reduces IRS-1 serine phosphorylation in rat skeletal muscle. 2008 , 33, 93-101	28
547	Advances in the development of AMPK-activating compounds. 2008 , 3, 1167-76	8
546	The protective effect of Yi-Qi-Yang-Yin-Ye, a compound of traditional Chinese herbal medicine in diet-induced obese rats. 2008 , 36, 705-17	8
545	American College of Endocrinology Pre-Diabetes Consensus Conference: part three. 2008 , 31, 2404-9	9
544	Muscle-specific deletion of rictor impairs insulin-stimulated glucose transport and enhances Basal glycogen synthase activity. 2008 , 28, 61-70	176
543	Insulin promotes glycogen synthesis in the absence of GSK3 phosphorylation in skeletal muscle. 2008 , 294, E28-35	74
542	Skeletal muscle insulin resistance: roles of fatty acid metabolism and exercise. 2008 , 88, 1279-96	109
541	Muscle-specific IRS-1 Ser->Ala transgenic mice are protected from fat-induced insulin resistance in skeletal muscle. 2008 , 57, 2644-51	89
540	Early detection of insulin sensitivity and beta-cell function with simple tests indicates future derangements in late pregnancy. 2008 , 93, 876-80	41
539	Aerobic exercise training versus the aetiology of insulin resistance. 2008 , 8, 3-14	2

538	Glucose. 2008 , 1-40	1
537	New insights into impaired muscle glycogen synthesis. 2008 , 5, e25	7
536	A prevalent variant in PPP1R3A impairs glycogen synthesis and reduces muscle glycogen content in humans and mice. 2008 , 5, e27	33
535	Therapeutic potential of SIRT1 and NAMPT-mediated NAD biosynthesis in type 2 diabetes. 2009 , 14, 2983-95	60
534	Skeletal muscle insulin resistance is the primary defect in type 2 diabetes. 2009 , 32 Suppl 2, S157-63	1056
533	Dual regulation of muscle glycogen synthase during exercise by activation and compartmentalization. 2009 , 284, 15692-700	65
532	Hypothalamic involvement predicts cardiovascular risk in adults with childhood onset craniopharyngioma on long-term GH therapy. 2009 , 161, 671-9	66
531	m.3243A>G mutation in mitochondrial DNA leads to decreased insulin sensitivity in skeletal muscle and to progressive beta-cell dysfunction. 2009 , 58, 543-9	34
530	Metabolic fate of plasma glucose during hyperglycemia in impaired glucose tolerance: evidence for further early defects in the pathogenesis of type 2 diabetes. 2009 , 296, E440-4	7
529	Novel noninvasive breath test method for screening individuals at risk for diabetes: response to Dillon et al. 2009 , 32, e88; author reply e89	1
528	Kinetics of GLUT4 trafficking in rat and human skeletal muscle. 2009 , 58, 847-54	52
527	Improvement of high-fat-diet-induced metabolic syndrome by a compound from <i>Balanophora polyandra</i> Griff in mice. 2009 , 616, 328-33	12
526	Magnetic resonance spectroscopy shows an inverse correlation between intramyocellular lipid content in human calf muscle and local glycogen synthesis rate. 2010 , 23, 133-41	7
525	Chromium improves glucose uptake and metabolism through upregulating the mRNA levels of IR, GLUT4, GS, and UCP3 in skeletal muscle cells. 2009 , 131, 133-42	50
524	The effect of growth hormone treatment on metabolic and cardiovascular risk factors is similar in preterm and term short, small for gestational age children. 2009 , 71, 65-73	18
523	Is in vivo nuclear magnetic resonance spectroscopy currently a quantitative method for whole-body carbohydrate metabolism?. 2000 , 58, 304-14	14
522	Regulation of muscle glycogen synthase phosphorylation and kinetic properties by insulin, exercise, adrenaline and role in insulin resistance. 2009 , 115, 13-21	65
521	Mammalian target of rapamycin and diabetes: what does the current evidence tell us?. 2009 , 41, S31-8	33

520	Low non-oxidative glucose metabolism and violent offending: an 8-year prospective follow-up study. 2009 , 168, 26-31	14
519	Identification of a novel mutation in GYS1 (muscle-specific glycogen synthase) resulting in sudden cardiac death, that is diagnosable from skin fibroblasts. 2009 , 98, 378-82	41
518	Evolution, body composition, insulin receptor competition, and insulin resistance. 2009 , 49, 283-5	22
517	[Hypogonadism, erectile dysfunction and endothelial dysfunction among HIV-infected men]. 2009 , 132, 311-21	1
516	[Glucose metabolism in physiological situation]. 2009 , 28, e175-80	3
515	Banting Lecture. From the triumvirate to the ominous octet: a new paradigm for the treatment of type 2 diabetes mellitus. 2009 , 58, 773-95	1832
514	Association of the CPT1B gene with skeletal muscle fat infiltration in Afro-Caribbean men. 2009 , 17, 1396-401	15
513	Adaptations to exercise training within skeletal muscle in adults with type 2 diabetes or impaired glucose tolerance: a systematic review. 2009 , 25, 13-40	47
512	The daily management of athletes with diabetes. 2009 , 28, 479-95	16
511	The second-meal phenomenon is associated with enhanced muscle glycogen storage in humans. 2009 , 117, 119-27	39
510	Metabolic Complications of Obesity. 237-270	3
509	Comparative study between the effect of the peroxisome proliferator activated receptor- α ligands fenofibrate and n-3 polyunsaturated fatty acids on activation of 5'-AMP-activated protein kinase- α in high-fat fed rats. 2010 , 61, 1339-1346	23
508	JNK deficiency enhances fatty acid utilization and diverts glucose from oxidation to glycogen storage in cultured myotubes. 2010 , 18, 1701-9	14
507	Human ATP synthase beta is phosphorylated at multiple sites and shows abnormal phosphorylation at specific sites in insulin-resistant muscle. 2010 , 53, 541-51	50
506	Insulin resistance, lipotoxicity, type 2 diabetes and atherosclerosis: the missing links. The Claude Bernard Lecture 2009. 2010 , 53, 1270-87	573
505	Skeletal muscle insulin resistance: the interplay of local lipid excess and mitochondrial dysfunction. 2010 , 59, 70-85	43
504	Ghrelin affects carbohydrate-glycogen metabolism via insulin inhibition and glucagon stimulation in the zebrafish (<i>Danio rerio</i>) brain. 2010 , 156, 190-200	50
503	Measuring the acute effect of insulin infusion on ATP turnover rate in human skeletal muscle using phosphorus-31 magnetic resonance saturation transfer spectroscopy. 2010 , 23, 952-7	14

502	Randomized clinical trial to compare the effects of preoperative oral carbohydrate versus placebo on insulin resistance after colorectal surgery. 2010 , 97, 317-27	107
501	Randomized clinical trial to compare the effects of preoperative oral carbohydrate versus placebo on insulin resistance after colorectal surgery (Br J Surg 2010; 97: 317-327). 2010 , 97, 327	5
500	Glucagon-like peptide-1 (GLP-1) attenuates post-resuscitation myocardial microcirculatory dysfunction. 2010 , 81, 755-60	38
499	Caffeine and theophylline block insulin-stimulated glucose uptake and PKB phosphorylation in rat skeletal muscles. 2010 , 200, 65-74	20
498	Diacylglycerol-mediated insulin resistance. 2010 , 16, 400-2	311
497	Improvement on lipid metabolic disorder by 3'-deoxyadenosine in high-fat-diet-induced fatty mice. 2010 , 38, 1065-75	6
496	Impaired glucose tolerance and predisposition to the fasted state in liver glycogen synthase knock-out mice. 2010 , 285, 12851-61	54
495	The role of mitochondria in the pathophysiology of skeletal muscle insulin resistance. 2010 , 31, 25-51	111
494	Computational model of cellular metabolic dynamics: effect of insulin on glucose disposal in human skeletal muscle. 2010 , 298, E1198-209	14
493	Acute elevation of plasma lipids does not affect ATP synthesis in human skeletal muscle. 2010 , 299, E33-8	27
492	The role of PAS kinase in PASsing the glucose signal. 2010 , 10, 5668-82	15
491	Lipid-induced insulin resistance is prevented in lean and obese myotubes by AICAR treatment. 2010 , 298, R1692-9	34
490	Increased subsarcolemmal lipids in type 2 diabetes: effect of training on localization of lipids, mitochondria, and glycogen in sedentary human skeletal muscle. 2010 , 298, E706-13	116
489	Pathogenesis of insulin resistance in skeletal muscle. 2010 , 2010, 476279	325
488	Cardiovascular risk, cardiac function, physical activity, and quality of life with and without long-term growth hormone therapy in adult survivors of childhood acute lymphoblastic leukemia. 2010 , 95, 3726-35	32
487	Monitoring of liver glycogen synthesis in diabetic patients using carbon-13 MR spectroscopy. 2010 , 73, 300-4	13
486	Allosteric regulation of glycogen synthase controls glycogen synthesis in muscle. 2010 , 12, 456-66	140
485	Lipid-induced insulin resistance: unravelling the mechanism. 2010 , 375, 2267-77	784

484	The role of muscle insulin resistance in the pathogenesis of atherogenic dyslipidemia and nonalcoholic fatty liver disease associated with the metabolic syndrome. 2010 , 30, 273-90	83
483	Peroxisome proliferator-activated receptor α master regulator of metabolic pathways in skeletal muscle. 2010 , 4, 565-73	3
482	Restoration of muscle mitochondrial function and metabolic flexibility in type 2 diabetes by exercise training is paralleled by increased myocellular fat storage and improved insulin sensitivity. 2010 , 59, 572-9	228
481	Apelin is necessary for the maintenance of insulin sensitivity. 2010 , 298, E59-67	178
480	[Obesity-related metabolic disorders in childhood and adolescence]. 2011 , 75, 135.e1-9	10
479	Exercise and the treatment of diabetes and obesity. 2011 , 95, 953-69	27
478	Abnormal metabolism flexibility in response to high palmitate concentrations in myotubes derived from obese type 2 diabetic patients. 2011 , 1812, 423-30	22
477	Tetramethylpyrazine protects palmitate-induced oxidative damage and mitochondrial dysfunction in C2C12 myotubes. 2011 , 88, 803-9	39
476	Curcumin improves insulin resistance in skeletal muscle of rats. 2011 , 21, 526-33	120
475	Fructose induced lipogenesis: from sugar to fat to insulin resistance. 2011 , 22, 60-5	177
474	Physiopathologie de l'insulinorésistance dans le muscle squelettique et implication des fonctions mitochondriales. 2011 , 25, 114-130	1
473	Promiscuous affairs of PKB/AKT isoforms in metabolism. 2011 , 117, 70-7	60
472	Rothman, Douglas L.: In Flux Veritas: Contributions to the Development of in vivo ^{13}C MRS. 2011 ,	
471	The role of skeletal muscle glycogen breakdown for regulation of insulin sensitivity by exercise. 2011 , 2, 112	190
470	Remodeling lipid metabolism and improving insulin responsiveness in human primary myotubes. 2011 , 6, e21068	36
469	Inhibition of lipolysis in Type 2 diabetes normalizes glucose disposal without change in muscle glycogen synthesis rates. 2011 , 121, 169-77	18
468	Effects of gastric bypass surgery on insulin resistance and insulin secretion in nondiabetic obese patients. 2011 , 19, 1420-6	21
467	Effects of adrenaline on whole-body glucose metabolism and insulin-mediated regulation of glycogen synthase and PKB phosphorylation in human skeletal muscle. 2011 , 60, 215-26	17

466	Hepatitis C virus infection: molecular pathways to insulin resistance. 2011 , 8, 474	21
465	Targeting fatty acid and carbohydrate oxidation--a novel therapeutic intervention in the ischemic and failing heart. 2011 , 1813, 1333-50	239
464	Molecular Changes in Fatty Acid Oxidation in the Failing Heart. 2011 , 153-175	1
463	The effect of acute exercise on glycogen synthesis rate in obese subjects studied by 13C MRS. 2011 , 111, 275-83	10
462	Effect of a 2-h hyperglycemic-hyperinsulinemic glucose clamp to promote glucose storage on endurance exercise performance. 2011 , 111, 2105-14	3
461	New emerging role of protein-tyrosine phosphatase 1B in the regulation of glycogen metabolism in basal and TNF- α -induced insulin-resistant conditions in an immortalised muscle cell line isolated from mice. 2011 , 54, 1157-68	4
460	Imaging superoxide flash and metabolism-coupled mitochondrial permeability transition in living animals. 2011 , 21, 1295-304	99
459	Physical activity before and during pregnancy and risk of gestational diabetes mellitus: a meta-analysis. 2011 , 34, 223-9	255
458	Effect of dietary and lifestyle factors on the risk of gestational diabetes: review of epidemiologic evidence. 2011 , 94, 1975S-1979S	169
457	Palmitic acid acutely stimulates glucose uptake via activation of Akt and ERK1/2 in skeletal muscle cells. 2011 , 52, 1319-27	45
456	Beneficial effects of resistance exercise on glycemic control are not further improved by protein ingestion. 2011 , 6, e20613	20
455	¹ H NMR-Based Metabonomic Analysis of Metabolic Changes of Serum and Liver in Zucker Obese Rats. 2011 , 44, 1579-1590	8
454	Magnetic resonance spectroscopy studies of human metabolism. 2011 , 60, 1361-9	28
453	Effects of raising muscle glycogen synthesis rate on skeletal muscle ATP turnover rate in type 2 diabetes. 2011 , 301, E1155-62	12
452	Insulin resistance after a 72-h fast is associated with impaired AS160 phosphorylation and accumulation of lipid and glycogen in human skeletal muscle. 2012 , 302, E190-200	48
451	Effect of acute exercise on glycogen synthase in muscle from obese and diabetic subjects. 2012 , 303, E82-9	20
450	Role of TRIB3 in regulation of insulin sensitivity and nutrient metabolism during short-term fasting and nutrient excess. 2012 , 303, E908-16	20
449	Pyrrolidine dithiocarbamate enhances hepatic glycogen synthesis and reduces FoxO1-mediated gene transcription in type 2 diabetic rats. 2012 , 302, E409-16	12

448	TFE3 regulates muscle metabolic gene expression, increases glycogen stores, and enhances insulin sensitivity in mice. 2012 , 302, E896-902	26
447	Stress augments insulin resistance and prothrombotic state: role of visceral adipose-derived monocyte chemoattractant protein-1. 2012 , 61, 1552-61	68
446	Lipid-induced insulin resistance is not mediated by impaired transcapillary transport of insulin and glucose in humans. 2012 , 61, 3176-80	21
445	Serum osteocalcin is not associated with glucose but is inversely associated with leptin across generations of nondiabetic women. 2012 , 97, 4106-14	38
444	Acute free fatty acid elevation eliminates endurance training effect on insulin sensitivity. 2012 , 97, 2890-7	10
443	Znt7-null mice are more susceptible to diet-induced glucose intolerance and insulin resistance. 2012 , 287, 33883-96	54
442	Resistance Training in Type II Diabetes Mellitus: Impact on Areas of Metabolic Dysfunction in Skeletal Muscle and Potential Impact on Bone. 2012 , 2012, 268197	18
441	Risk factors for extensive skeletal muscle uptake in oncologic FDG-PET/CT for patients undergoing a 4-h fast. 2012 , 33, 648-55	10
440	Skeletal muscle respiratory capacity is enhanced in rats consuming an obesogenic Western diet. 2012 , 302, E1541-9	24
439	The role of glycogen synthase in the development of hyperglycemia in type 2 diabetes: 'To store or not to store glucose, that's the question'. 2012 , 28, 635-44	21
438	Skeletal Muscle and Exercise. 2012 , 303-346	
437	Placental restriction reduces insulin sensitivity and expression of insulin signaling and glucose transporter genes in skeletal muscle, but not liver, in young sheep. 2012 , 153, 2142-51	36
436	Muscle glycogen storage disease 0 presenting recurrent syncope with weakness and myalgia. 2012 , 22, 162-5	28
435	First-degree relatives of type 2 diabetic patients have reduced expression of genes involved in fatty acid metabolism in skeletal muscle. 2012 , 97, E1332-7	16
434	Mechanisms for insulin resistance: common threads and missing links. 2012 , 148, 852-71	1389
433	CHAPTER 3:Whole Body Glucose Metabolism. 2012 , 30-47	
432	Antidiabetic activities of oligosaccharides of <i>Ophiopogon japonicus</i> in experimental type 2 diabetic rats. 2012 , 51, 749-55	28
431	Improved insulin sensitivity by the angiotensin receptor antagonist irbesartan in patients with systolic heart failure: a randomized double-blinded placebo-controlled study. 2012 , 161, 137-42	11

430	Muscle mitochondria and insulin resistance: a human perspective. 2012 , 23, 444-50	66
429	Protein restriction during gestation alters histone modifications at the glucose transporter 4 (GLUT4) promoter region and induces GLUT4 expression in skeletal muscle of female rat offspring. 2012 , 23, 1064-71	36
428	Skeletal Muscle Metabolism. 2012 , 841-853	
427	Actions and interactions of AMPK with insulin, the peroxisomal-proliferator activated receptors and sirtuins. 2012 , 7, 191-208	2
426	Elevated NEFA levels impair glucose effectiveness by increasing net hepatic glycogenolysis. 2012 , 55, 3021-8	15
425	Cellular Physiology and Metabolism of Physical Exercise. 2012 ,	1
424	Function-based discovery of significant transcriptional temporal patterns in insulin stimulated muscle cells. 2012 , 7, e32391	11
423	Fatty Acids Stimulate Glucose Uptake by the PI3K/AMPK/Akt and PI3K/ERK1/2 Pathways. 2012 ,	3
422	Influence of foot orientation on the appearance and quantification of 1H magnetic resonance muscle spectra obtained from the soleus and the vastus lateralis. 2012 , 68, 1731-7	8
421	Hyperglycaemia normalises insulin action on glucose metabolism but not the impaired activation of AKT and glycogen synthase in the skeletal muscle of patients with type 2 diabetes. 2012 , 55, 1435-45	31
420	Cardiorespiratory fitness predicts insulin action and secretion in healthy individuals. 2012 , 61, 12-6	14
419	Prediction of gestational diabetes mellitus at 24 to 28 weeks of gestation by using first-trimester insulin sensitivity indices in Asian Indian subjects. 2012 , 61, 715-20	31
418	Impact of the FTO gene variation on fat oxidation and its potential influence on body weight in women with polycystic ovary syndrome. 2012 , 77, 120-5	15
417	Testosterone therapy increased muscle mass and lipid oxidation in aging men. 2012 , 34, 145-56	51
416	Metabolic Syndrome. 2013 ,	24
415	Variability in fasting lipid and glycogen contents in hepatic and skeletal muscle tissue in subjects with and without type 2 diabetes: a 1H and 13C MRS study. 2013 , 26, 1518-26	17
414	Impaired Akt phosphorylation in insulin-resistant human muscle is accompanied by selective and heterogeneous downstream defects. 2013 , 56, 875-85	63
413	The consequences of long-term glycogen synthase kinase-3 inhibition on normal and insulin resistant rat hearts. 2013 , 27, 381-92	8

412	Mitochondrial dysfunction in non-alcoholic fatty liver disease and insulin resistance: cause or consequence?. 2013 , 47, 854-68	65
411	Caffeine and glucose homeostasis during rest and exercise in diabetes mellitus. 2013 , 38, 813-22	13
410	MG53's new identity. 2013 , 3, 25	8
409	Obesity, adiposity, and dyslipidemia: a consensus statement from the National Lipid Association. 2013 , 7, 304-83	241
408	Characterization of insulin resistance in young adult survivors of childhood acute lymphoblastic leukaemia and non-Hodgkin lymphoma. 2013 , 78, 790-8	11
407	A dual-tuned transceive resonator for $(^{13}\text{C}\{^1\text{H}\})$ MRS: two open coils in one. 2013 , 26, 533-41	6
406	Acute exercise reverses starvation-mediated insulin resistance in humans. 2013 , 304, E436-43	13
405	Acute hyperinsulinemia and reduced plasma free fatty acid levels decrease intramuscular triglyceride synthesis. 2013 , 62, 44-51	9
404	Design and synthesis of 2-N-substituted indazolone derivatives as non-carboxylic acid glycogen synthase activators. 2013 , 23, 2936-40	23
403	Central role of E3 ubiquitin ligase MG53 in insulin resistance and metabolic disorders. 2013 , 494, 375-9	174
402	Regulation of glycogen synthase from mammalian skeletal muscle--a unifying view of allosteric and covalent regulation. 2013 , 280, 2-27	24
401	Studies of Small Biological Molecules. 2013 , 223-245	
400	N-substituted sultam carboxylic acids as novel glycogen synthase activators. 2013 , 4, 833-838	1
399	Mitochondrial fatty acid oxidation in obesity. 2013 , 19, 269-84	123
398	Defining sarcopenia: the impact of different diagnostic criteria on the prevalence of sarcopenia in a large middle aged cohort. 2013 , 35, 871-81	160
397	Hyperphosphorylation of glucosyl C6 carbons and altered structure of glycogen in the neurodegenerative epilepsy Lafora disease. 2013 , 17, 756-67	61
396	Impaired insulin-stimulated glucose transport in ATM-deficient mouse skeletal muscle. 2013 , 38, 589-96	9
395	Minireview: Dopaminergic regulation of insulin secretion from the pancreatic islet. 2013 , 27, 1198-207	61

394	Regulation of glycogen synthase in muscle and its role in Type 2 diabetes. 2013 , 3, 81-90	6
393	Akt2 influences glycogen synthase activity in human skeletal muscle through regulation of NHErterminal (sites 2 + 2a) phosphorylation. 2013 , 304, E631-9	12
392	Enhanced glucose metabolism is preserved in cultured primary myotubes from obese donors in response to exercise training. 2013 , 98, 3739-47	29
391	Pathogenesis of type 2 diabetes in South Asians. 2013 , 169, R99-R114	45
390	Mechanisms of obesity-induced inflammation and insulin resistance: insights into the emerging role of nutritional strategies. 2013 , 4, 52	307
389	Blocking the entrance to open the gate. 2013 , 62, 703-5	2
388	Transgenic muscle-specific Nor-1 expression regulates multiple pathways that effect adiposity, metabolism, and endurance. 2013 , 27, 1897-917	38
387	Resistance training for diabetes prevention and therapy: experimental findings and molecular mechanisms. 2013 , 2013, 805217	49
386	Insulin sensitivity assessed by stable isotopes with oral glucose administration: validation with euglycaemic clamp. 2013 , 2013, 189412	1
385	Roles of Fatty Acid oversupply and impaired oxidation in lipid accumulation in tissues of obese rats. 2013 , 2013, 420754	15
384	Insulin signaling in skeletal muscle of HIV-infected patients in response to endurance and strength training. 2013 , 1, e00060	6
383	Deficiency of a glycogen synthase-associated protein, Epm2aip1, causes decreased glycogen synthesis and hepatic insulin resistance. 2013 , 288, 34627-37	10
382	High-density lipoprotein maintains skeletal muscle function by modulating cellular respiration in mice. 2013 , 128, 2364-71	47
381	MR Spectroscopy and Spectroscopic Imaging for Evaluation of Skeletal Muscle Metabolism: Basics and Applications in Metabolic Diseases. 2013 , 135-163	
380	AMPK and Exercise: Glucose Uptake and Insulin Sensitivity. 2013 , 37, 1-21	153
379	Leptin- and leptin receptor-deficient rodent models: relevance for human type 2 diabetes. 2014 , 10, 131-45	280
378	Advanced Skeletal Muscle MR Imaging Approaches in the Assessment of Muscular Dystrophies. 2014 , 02,	3
377	Nutrient regulation of insulin secretion and action. 2014 , 221, R105-20	117

376	Exercise interventions to prevent and manage type 2 diabetes: physiological mechanisms. 2014 , 60, 36-47	13
375	Spectral Quantification and Pitfalls in Interpreting Magnetic Resonance Spectroscopic Data: What To Look Out For. 2014 , 49-67	3
374	Fundamentals of MR Spectroscopy. 2014 , 257-271	1
373	Increasing muscle mass improves vascular function in obese (db/db) mice. 2014 , 3, e000854	23
372	Over-expression of PRAS40 enhances insulin sensitivity in skeletal muscle. 2014 , 120, 64-72	20
371	Diabetes in South Asians: is the phenotype different?. 2014 , 63, 53-5	74
370	Grb10 deletion enhances muscle cell proliferation, differentiation and GLUT4 plasma membrane translocation. 2014 , 229, 1753-64	18
369	Training status diverges muscle diacylglycerol accumulation during free fatty acid elevation. 2014 , 307, E124-31	24
368	Fasting and postprandial liver glycogen content in patients with type 1 diabetes mellitus after successful pancreas-kidney transplantation with systemic venous insulin delivery. 2014 , 80, 208-13	8
367	The relationship between exercise, nutrition and type 2 diabetes. 2014 , 60, 1-10	18
366	Bedside ultrasound measurement of skeletal muscle. 2014 , 17, 389-95	63
365	New Aspects on Chronic Trapezius Myalgia: Contribution of Metabolomics and Proteomics. 2014 , 22, 382-388	2
364	Role of adiponectin in metabolic and cardiovascular disease. 2014 , 10, 54-9	64
363	Role of the TWEAK-Fn14-clAP1-NF- κ B Signaling Axis in the Regulation of Myogenesis and Muscle Homeostasis. 2014 , 5, 34	27
362	A 5-day high-fat, high-calorie diet impairs insulin sensitivity in healthy, young South Asian men but not in Caucasian men. 2014 , 63, 248-58	48
361	Evidence for a regulatory role of Cullin-RING E3 ubiquitin ligase 7 in insulin signaling. 2014 , 26, 233-239	23
360	Protection of palmitic acid-mediated lipotoxicity by arachidonic acid via channeling of palmitic acid into triglycerides in C2C12. 2014 , 21, 13	24
359	Recommendations for (18)F-fluorodeoxyglucose positron emission tomography imaging for cardiac sarcoidosis: Japanese Society of Nuclear Cardiology recommendations. 2014 , 28, 393-403	99

358	Glycogen storage in the human retinal pigment epithelium: a comparative study of diabetic and non-diabetic donors. 2014 , 51, 543-52	14
357	Direct assessment of hepatic mitochondrial oxidative and anaplerotic fluxes in humans using dynamic ¹³ C magnetic resonance spectroscopy. 2014 , 20, 98-102	69
356	A small-molecule benzimidazole derivative that potently activates AMPK to increase glucose transport in skeletal muscle: comparison with effects of contraction and other AMPK activators. 2014 , 460, 363-75	54
355	Parallel evolution of the glycogen synthase 1 (muscle) gene <i>Gys1</i> between Old World and New World fruit bats (Order: Chiroptera). 2014 , 52, 443-58	4
354	<i>Artemisia dracunculus</i> L. extract ameliorates insulin sensitivity by attenuating inflammatory signalling in human skeletal muscle culture. 2014 , 16, 728-38	17
353	Effects of acute lipid overload on skeletal muscle insulin resistance, metabolic flexibility, and mitochondrial performance. 2014 , 307, E1117-24	48
352	A polyphenol rescues lipid induced insulin resistance in skeletal muscle cells and adipocytes. 2014 , 452, 382-8	22
351	Cold-activated brown adipose tissue in human adults: methodological issues. 2014 , 307, R103-13	108
350	Fatty acid metabolism, energy expenditure and insulin resistance in muscle. 2014 , 220, T61-79	126
349	Ectopic fat in insulin resistance, dyslipidemia, and cardiometabolic disease. <i>New England Journal of Medicine</i> , 2014 , 371, 1131-41	59.2 564
348	Muscle-specific activation of Ca(2+)/calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. 2014 , 57, 1232-41	7
347	Surrogate measures of insulin sensitivity vs the hyperinsulinaemic-euglycaemic clamp: a meta-analysis. 2014 , 57, 1781-8	89
346	Positron emission tomography-computed tomography for imaging of inflammatory cardiovascular diseases. 2014 , 78, 1302-10	45
345	Black elderberry extract attenuates inflammation and metabolic dysfunction in diet-induced obese mice. 2015 , 114, 1123-31	42
344	Phosphorylation and function of DGAT1 in skeletal muscle cells. 2015 , 1, 41-50	15
343	Ginsenoside Rb1 increases insulin sensitivity by activating AMP-activated protein kinase in male rats. 2015 , 3, e12543	26
342	Type 2 diabetes mellitus. 2015 , 1, 15019	651
341	High-sensitivity, broadband-decoupled (¹³ C) MR spectroscopy in humans at 7T using two-dimensional heteronuclear single-quantum coherence. 2015 , 74, 903-14	14

340	1-Deoxynojirimycin Alleviates Insulin Resistance via Activation of Insulin Signaling PI3K/AKT Pathway in Skeletal Muscle of db/db Mice. 2015 , 20, 21700-14	44
339	Molecular Events Linking Oxidative Stress and Inflammation to Insulin Resistance and β Cell Dysfunction. 2015 , 2015, 181643	191
338	Uncovering the metabolic complications of androgen deprivation therapy in patients with prostate cancer--where do we take it next?. 2015 , 193, 1882-3	2
337	Markers of autophagy are adapted to hyperglycaemia in skeletal muscle in type 2 diabetes. 2015 , 58, 2087-95	45
336	Middle-aged overweight South Asian men exhibit a different metabolic adaptation to short-term energy restriction compared with Europeans. 2015 , 58, 165-77	0
335	Mathematical modelling of hepatic lipid metabolism. 2015 , 262, 167-81	15
334	Relationship between serum IGF-1 and skeletal muscle IGF-1 mRNA expression to phosphocreatine recovery after exercise in obese men with reduced GH. 2015 , 100, 617-25	7
333	Amino Acids Supplementation as Nutritional Therapy Strategy in Diabetes Mellitus. 2015 , 387-401	
332	Diurnal variation in skeletal muscle and liver glycogen in humans with normal health and Type 2 diabetes. 2015 , 128, 707-13	27
331	Dysregulation of muscle glycogen synthase in recovery from exercise in type 2 diabetes. 2015 , 58, 1569-78	20
330	Insulin secretion response during oral glucose tolerance test is related to low cardiorespiratory fitness in obese adolescents. 2015 , 28, 539-44	1
329	Noninvasive measurements of glycogen in perfused mouse livers using chemical exchange saturation transfer NMR and comparison to $(13)C$ NMR spectroscopy. 2015 , 87, 5824-30	11
328	Type 2 diabetes in obese adolescents: pathophysiology and treatment. 2015 , 815-822	
327	Combination therapy in type 2 diabetes mellitus. 2015 , 686-708	1
326	Pathogenesis of type 2 diabetes mellitus. 2015 , 371-400	2
325	TNF- α knockdown alleviates palmitate-induced insulin resistance in C2C12 skeletal muscle cells. 2015 , 460, 977-82	26
324	Chronic cadmium exposure in rats produces pancreatic impairment and insulin resistance in multiple peripheral tissues. 2015 , 583, 27-35	47
323	Use of in vivo magnetic resonance spectroscopy for studying metabolic diseases. 2015 , 47, e139	30

322	A novel Alaska pollack-derived peptide, which increases glucose uptake in skeletal muscle cells, lowers the blood glucose level in diabetic mice. 2015 , 6, 2749-57	10
321	Mechanism by Which Caloric Restriction Improves Insulin Sensitivity in Sedentary Obese Adults. 2016 , 65, 74-84	67
320	Metabolic inflexibility and insulin resistance in obese adolescents with non-alcoholic fatty liver disease. 2015 , 16, 211-8	16
319	Free fatty acid induced impairment of insulin signaling is prevented by the diastereomeric mixture of calophyllic acid and isocalophyllic acid in skeletal muscle cells. 2015 , 746, 70-7	8
318	Glucose tolerance is associated with differential expression of microRNAs in skeletal muscle: results from studies of twins with and without type 2 diabetes. 2015 , 58, 363-73	43
317	Dietary Long Chain Omega-3 Polyunsaturated Fatty Acids and Inflammatory Gene Expression in Type 2 Diabetes. 2016 , 291-299	
316	The role of lipids in the pathogenesis and treatment of type 2 diabetes and associated co-morbidities. 2016 , 49, 139-48	44
315	Effect of testosterone on insulin sensitivity, oxidative metabolism and body composition in aging men with type 2 diabetes on metformin monotherapy. 2016 , 18, 980-9	37
314	MRS Studies of Muscle and Heart in Obesity and Diabetes. 2016 , 1157-1174	2
313	Insulin Resistance in Type 2 Diabetes. 2016 , 174-186	3
312	¹³ C MRS in Human Tissue. 2016 , 1027-1038	4
311	Comparative Proteomic Study of Fatty Acid-treated Myoblasts Reveals Role of Cox-2 in Palmitate-induced Insulin Resistance. 2016 , 6, 21454	20
310	Combined Aerobic and Resistance Training Effects on Glucose Homeostasis, Fitness, and Other Major Health Indices: A Review of Current Guidelines. 2016 , 46, 1809-1818	24
309	Testosterone differentially regulates targets of lipid and glucose metabolism in liver, muscle and adipose tissues of the testicular feminised mouse. 2016 , 54, 504-515	41
308	Skeletal muscle homeostasis and plasticity in youth and ageing: impact of nutrition and exercise. 2016 , 216, 15-41	81
307	Dapagliflozin Enhances Fat Oxidation and Ketone Production in Patients With Type 2 Diabetes. 2016 , 39, 2036-2041	105
306	Adhesion G Protein-Coupled Receptor G1 (ADGRG1/GPR56) and Pancreatic β Cell Function. 2016 , 101, 4637-4645	41
305	Understanding Age-Related Changes in Skeletal Muscle Metabolism: Differences Between Females and Males. 2016 , 36, 129-56	38

304	Skeletal muscle mitochondria as a target to prevent or treat type 2 diabetes mellitus. 2016 , 12, 633-645	146
303	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. 2016 , 107, 81-126	16
302	A genistein-enriched diet neither improves skeletal muscle oxidative capacity nor prevents the transition towards advanced insulin resistance in ZDF rats. 2016 , 6, 22854	7
301	AMP-activated Protein Kinase. 2016 ,	7
300	Resistin's, obesity and insulin resistance: the continuing disconnect between rodents and humans. 2016 , 39, 607-15	58
299	Adipose tissue glycogen accumulation is associated with obesity-linked inflammation in humans. 2016 , 5, 5-18	37
298	Handgrip strength is associated with metabolic syndrome among middle-aged and elderly community-dwelling persons. 2016 , 38, 245-51	40
297	Impaired glucose metabolism and exercise capacity with muscle-specific glycogen synthase 1 (<i>gys1</i>) deletion in adult mice. 2016 , 5, 221-232	32
296	Intact Regulation of the AMPK Signaling Network in Response to Exercise and Insulin in Skeletal Muscle of Male Patients With Type 2 Diabetes: Illumination of AMPK Activation in Recovery From Exercise. 2016 , 65, 1219-30	47
295	Musculoskeletal Disease Associated with Diabetes Mellitus. 2016 ,	3
294	Effects of exenatide therapy on insulin resistance in the skeletal muscles of high-fat diet and low-dose streptozotocin-induced diabetic rats. 2016 , 41, 1-7	8
293	The metabolic and temporal basis of muscle hypertrophy in response to resistance exercise. 2016 , 16, 633-44	18
292	Regulation of Intermediary Metabolism During Fasting and Feeding. 2016 , 598-626.e3	2
291	Type 2 Diabetes Mellitus. 2016 , 691-714.e6	4
290	Obesity and diabetes: An update. 2017 , 11, 73-79	110
289	Hypothalamic Insulin Resistance in Obesity: Effects on Glucose Homeostasis. 2017 , 104, 364-381	52
288	Proceedings of the 2016 Clinical Nutrition Week Research Workshop-The Optimal Dose of Protein Provided to Critically Ill Patients. 2017 , 41, 208-216	14
287	Polluted Pathways: Mechanisms of Metabolic Disruption by Endocrine Disrupting Chemicals. 2017 , 4, 208-222	42

286	MG53: Biological Function and Potential as a Therapeutic Target. 2017 , 92, 211-218	16
285	Variable reliability of surrogate measures of insulin sensitivity after Roux-en-Y gastric bypass. 2017 , 312, R797-R805	11
284	Non-alcoholic fatty liver disease: A sign of systemic disease. 2017 , 72, 94-108	92
283	Effect of acute physiological free fatty acid elevation in the context of hyperinsulinemia on fiber type-specific IMCL accumulation. 2017 , 123, 71-78	16
282	Diagnosis and Clinical Implications of Diabetes in Liver Cirrhosis: A Focus on the Oral Glucose Tolerance Test. 2017 , 1, 886-896	19
281	Intramuscular triglyceride content precedes impaired glucose metabolism without evidence for mitochondrial dysfunction during early development of a diabetic phenotype. 2017 , 42, 963-972	3
280	Insulin Resistance and Mitochondrial Dysfunction. 2017 , 982, 465-520	73
279	AJS1669, a novel small-molecule muscle glycogen synthase activator, improves glucose metabolism and reduces body fat mass in mice. 2017 , 39, 841-850	3
278	Roles of Peroxisome Proliferator-Activated Receptor α in skeletal muscle physiology. 2017 , 136, 42-48	33
277	Early-onset and classical forms of type 2 diabetes show impaired expression of genes involved in muscle branched-chain amino acids metabolism. 2017 , 7, 13850	28
276	A Chinese Perspective on Receptors and Receptor Regulation. 2017 , 92, 185-187	0
275	Muscle Stem Cell and Physical Activity: What Point is the Debate at?. 2017 , 12, 144-156	4
274	Skeletal Muscle Regeneration, Repair and Remodelling in Aging: The Importance of Muscle Stem Cells and Vascularization. 2017 , 63, 91-100	55
273	Dietary sphingomyelin attenuates hepatic steatosis and adipose tissue inflammation in high-fat-diet-induced obese mice. 2017 , 40, 36-43	64
272	Vascular Endothelial Regulation of Obesity-Associated Insulin Resistance. 2017 , 4, 51	18
271	Insulin Resistance and Alzheimer's Disease: Bioenergetic Linkages. 2017 , 9, 345	123
270	Nutrient supply affects the mRNA expression profile of the porcine skeletal muscle. 2017 , 18, 603	12
269	State-of-the-Art Methods for Skeletal Muscle Glycogen Analysis in Athletes-The Need for Novel Non-Invasive Techniques. 2017 , 7,	15

268	Receptor and post-receptor abnormalities contribute to insulin resistance in myotonic dystrophy type 1 and type 2 skeletal muscle. 2017 , 12, e0184987	27
267	13C MRS Studies of the Control of Hepatic Glycogen Metabolism at High Magnetic Fields. 2017, 5,	2
266	Insulin restores UCP3 activity and decreases energy surfeit to alleviate lipotoxicity in skeletal muscle. 2017 , 40, 2000-2010	6
265	The relationship between muscle mitochondrial nutritional overloading and insulin resistance. 2017 , 34, 19-28	
264	Pre-Exercise High-Fat Diet for 3 Days Affects Post-Exercise Skeletal Muscle Glycogen Repletion. 2017 , 63, 323-330	4
263	Effects of ethyl acetate leaf extracts of <i>Vitex simplicifolia</i> on antioxidant vitamins, sod, liver glycogen content and lipid profile in alloxan induced - diabetic wistar rats. 2017 , 10, 191	
262	Revisiting the metabolic syndrome: the emerging role of aquaglyceroporins. 2018 , 75, 1973-1988	27
261	Altered mitochondrial bioenergetics and ultrastructure in the skeletal muscle of young adults with type 1 diabetes. 2018 , 61, 1411-1423	46
260	Pathogenesis of Type 2 Diabetes Mellitus. 2018 , 1-74	
259	Metabolomics Reveals Protection of Resveratrol in Diet-Induced Metabolic Risk Factors in Abdominal Muscle. 2018 , 45, 1136-1148	14
258	Human embryonic stem cell-derived cardiomyocytes as an in vitro model to study cardiac insulin resistance. 2018 , 1864, 1960-1967	10
257	Effect of liraglutide on dietary lipid-induced insulin resistance in humans. 2018 , 20, 69-76	7
256	Pharmacological targeting of exercise adaptations in skeletal muscle: Benefits and pitfalls. 2018 , 147, 211-220	14
255	Insulin Resistance and the Metabolic Syndrome. 2018 , 320-333.e5	1
254	Infusion of adipose-derived mesenchymal stem cells inhibits skeletal muscle mitsugumin 53 elevation and thereby alleviates insulin resistance in type 2 diabetic rats. 2018 , 17, 8466-8474	11
253	In Vivo NMR Spectroscopy Static Aspects. 2018 , 43-128	0
252	Effect of puerarin in promoting fatty acid oxidation by increasing mitochondrial oxidative capacity and biogenesis in skeletal muscle in diabetic rats. 2018 , 8, 1	41
251	Multinuclear Magnetic Resonance Spectroscopy of Human Skeletal Muscle Metabolism in Training and Disease. 2018 ,	

250	Skeletal muscle metabolism in rats with low and high intrinsic aerobic capacity: Effect of aging and exercise training. 2018 , 13, e0208703	5
249	Exploring the Potential Effectiveness of Combining Optimal Nutrition With Electrical Stimulation to Maintain Muscle Health in Critical Illness: A Narrative Review. 2018 , 33, 772-789	10
248	Pathogenesis of Type 2 Diabetes Mellitus. 2018 , 181-253	5
247	Effect of Chronic Hyperglycemia on Glucose Metabolism in Subjects With Normal Glucose Tolerance. 2018 , 67, 2507-2517	18
246	Type 2 diabetes - An autoinflammatory disease driven by metabolic stress. 2018 , 1864, 3805-3823	37
245	Puerarin attenuates palmitate-induced mitochondrial dysfunction, impaired mitophagy and inflammation in L6 myotubes. 2018 , 206, 84-92	14
244	Metabolic fate of glucose in the brain of APP/PS1 transgenic mice at 10 months of age: a C NMR metabolomic study. 2018 , 33, 1661-1668	11
243	Virus-Induced Interferon- γ Causes Insulin Resistance in Skeletal Muscle and Derails Glycemic Control in Obesity. 2018 , 49, 164-177.e6	71
242	Role of MicroRNAs in Obesity-Induced Metabolic Disorder and Immune Response. 2018 , 2018, 2835761	21
241	Acute activation of pyruvate dehydrogenase increases glucose oxidation in muscle without changing glucose uptake. 2018 , 315, E258-E266	17
240	Mechanisms of Insulin Action and Insulin Resistance. 2018 , 98, 2133-2223	718
239	Dai-Zong-Fang, A Traditional Chinese Herbal Formula, Ameliorates Insulin Resistance in Mice. 2018 , 9, 224	10
238	The age-related loss of skeletal muscle mass and function: Measurement and physiology of muscle fibre atrophy and muscle fibre loss in humans. 2018 , 47, 123-132	172
237	Zmynd17 controls muscle mitochondrial quality and whole-body metabolism. 2018 , 32, 5012-5025	15
236	Circadian misalignment induces fatty acid metabolism gene profiles and compromises insulin sensitivity in human skeletal muscle. 2018 , 115, 7789-7794	100
235	Ameliorates Non-Alcoholic Steatosis by Upregulating Energy Metabolizing Enzymes in the Liver. 2018 , 7,	5
234	Anti-Diabetic Effects and Anti-Inflammatory Effects of and in Skeletal Muscle: In Vitro and In Vivo Model. 2018 , 10,	22
233	Cell-Specific "Competition for Calories" Drives Asymmetric Nutrient-Energy Partitioning, Obesity, and Metabolic Diseases in Human and Non-human Animals. 2018 , 9, 1053	13

232	Adipose tissue and the physiologic underpinnings of metabolic disease. 2018 , 14, 1755-1763	12
231	Autophagy and Diabetes Mellitus. 2018 , 83-90	
230	Altered tricarboxylic acid cycle flux in primary myotubes from severely obese humans. 2019 , 43, 895-905	12
229	Ketogenic Diet: an Endocrinologist Perspective. 2019 , 8, 402-410	6
228	NDUFAB1 protects against obesity and insulin resistance by enhancing mitochondrial metabolism. 2019 , 33, 13310-13322	9
227	Insulin Resistance and Atherosclerosis: Implications for Insulin-Sensitizing Agents. 2019 , 40, 1447-1467	85
226	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
225	Recommendations for 18F-Fluorodeoxyglucose Positron Emission Tomography Imaging for Diagnosis of Cardiac Sarcoidosis-2018 Update. 2019 , 5, 141-159	2
224	Transcriptome Changes of Skeletal Muscle RNA-Seq Speculates the Mechanism of Postprandial Hyperglycemia in Diabetic Goto-Kakizaki Rats During the Early Stage of T2D. 2019 , 10,	5
223	Recommendations for F-fluorodeoxyglucose positron emission tomography imaging for diagnosis of cardiac sarcoidosis-2018 update: Japanese Society of Nuclear Cardiology recommendations. 2019 , 26, 1414-1433	30
222	Resistance Exercise Training as a Primary Countermeasure to Age-Related Chronic Disease. 2019 , 10, 645	79
221	Mitochondrial (Dys)function and Insulin Resistance: From Pathophysiological Molecular Mechanisms to the Impact of Diet. 2019 , 10, 532	111
220	Accumulation of saturated intramyocellular lipid is associated with insulin resistance. 2019 , 60, 1323-1332	14
219	Advances in Quantitative Imaging of Genetic and Acquired Myopathies: Clinical Applications and Perspectives. 2019 , 10, 78	19
218	Enhanced hepatic glycogen synthesis and suppressed adenosine deaminase activity by lithium attenuates hepatic triglyceride accumulation in nicotine-exposed rats. 2019 , 109, 1417-1427	10
217	Emerging Pharmacological Targets for the Treatment of Nonalcoholic Fatty Liver Disease, Insulin Resistance, and Type 2 Diabetes. 2019 , 59, 65-87	38
216	Circadian clocks and insulin resistance. 2019 , 15, 75-89	223
215	Emerging Technologies to Image Tissue Metabolism. 2019 , 29, 518-538	29

214	Application of Magnetic Resonance Spectroscopy in metabolic research. 2019 , 1865, 741-748	10
213	The Hyperechoic Appearance of the Deltoid Muscle on Shoulder Ultrasound Imaging as a Predictor of Diabetes and Prediabetes. 2020 , 39, 323-329	1
212	Amelioration of insulin resistance using the additive effect of ferulic acid and resveratrol on vesicle trafficking for skeletal muscle glucose metabolism. 2020 , 34, 808-816	8
211	Dissociation of Muscle Insulin Resistance from Alterations in Mitochondrial Substrate Preference. 2020 , 32, 726-735.e5	10
210	Mechanisms of muscle insulin resistance and the cross-talk with liver and adipose tissue. 2020 , 8, e14607	22
209	Swim therapy-induced tissue specific metabolic responses in male rats. 2020 , 262, 118516	5
208	Sphingolipid Metabolism and Signaling in Skeletal Muscle: From Physiology to Physiopathology. 2020 , 11, 491	10
207	The Mitochondrial Proteomic Signatures of Human Skeletal Muscle Linked to Insulin Resistance. 2020 , 21,	3
206	High-Intensity Interval Training Restores Glycolipid Metabolism and Mitochondrial Function in Skeletal Muscle of Mice With Type 2 Diabetes. 2020 , 11, 561	2
205	PPARs and Microbiota in Skeletal Muscle Health and Wasting. 2020 , 21,	18
204	Plasma Lactate as a Marker for Metabolic Health. 2020 , 48, 119-124	9
203	Inducible deletion of skeletal muscle AMPK reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. 2020 , 40, 101028	15
202	Pathway attenuation of fatty acid beta-oxidation in the skeletal muscle of a type 2 diabetic mouse model. 2020 , 34, e8869	1
201	The essential role of fructose-1,6-bisphosphatase 2 enzyme in thermal homeostasis upon cold stress. 2020 , 52, 485-496	8
200	Bredemolic Acid Ameliorates Selected Liver Function Biomarkers in a Diet-Induced Prediabetic Rat Model. 2020 , 2020, 2475301	3
199	Decreased Appendicular Skeletal Muscle Mass is Associated with Poor Outcomes after ST-Segment Elevation Myocardial Infarction. 2020 , 27, 1278-1287	6
198	Dose-response associations between serum creatinine and type 2 diabetes mellitus risk: A Chinese cohort study and meta-analysis of cohort studies. 2020 , 12, 594-604	8
197	Why are South Asians prone to type 2 diabetes? A hypothesis based on underexplored pathways. 2020 , 63, 1103-1109	37

196	Abscisic acid enriched fig extract promotes insulin sensitivity by decreasing systemic inflammation and activating LANCL2 in skeletal muscle. 2020 , 10, 10463	2
195	Mitochondrial Dysfunction, Insulin Resistance, and Potential Genetic Implications. 2020 , 161,	30
194	Proteomics reveals different pathological processes of adipose tissue, liver, and skeletal muscle under insulin resistance. 2020 , 235, 6441-6461	0
193	Non-alcoholic Fatty Liver Disease and Insulin Resistance. 2020 , 455-471	4
192	Alternate-day fasting alleviates diabetes-induced glycolipid metabolism disorders: roles of FGF21 and bile acids. 2020 , 83, 108403	15
191	Characterization of Kinetic Isotope Effects and Label Loss in Deuterium-Based Isotopic Labeling Studies. 2021 , 12, 234-243	8
190	Role of Sphingosine Kinase in Type 2 Diabetes Mellitus. 2020 , 11, 627076	7
189	Sex Differences in Insulin Sensitivity are Related to Muscle Tissue Acylcarnitine But Not Subcellular Lipid Distribution. 2021 , 29, 550-561	1
188	The Inhibition of Metabolic Inflammation by EPA Is Associated with Enhanced Mitochondrial Fusion and Insulin Signaling in Human Primary Myotubes. 2021 , 151, 810-819	3
187	NMR visibility of deuterium-labeled liver glycogen in vivo. 2021 , 86, 62-68	7
186	Molecular and Biochemical Pathways of Catalpol in Alleviating Diabetes Mellitus and Its Complications. 2021 , 11,	13
185	Sir Peter Mansfield. 9 October 1933B February 2017. 2021 , 70, 313-334	
184	Insulin Resistance across the Spectrum of Nonalcoholic Fatty Liver Disease. 2021 , 11,	12
183	Photobiomodulation therapy ameliorates hyperglycemia and insulin resistance by activating cytochrome c oxidase-mediated protein kinase B in muscle. 2021 , 13, 10015-10033	3
182	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. 2021 , 33, 758-780	28
181	Insulin action in adipocytes, adipose remodeling, and systemic effects. 2021 , 33, 748-757	11
180	Regulation of Energy Substrate Metabolism in Endurance Exercise. 2021 , 18,	2
179	Quantitative flux analysis in mammals. 2021 , 3, 896-908	4

178	The aetiology and molecular landscape of insulin resistance. 2021 , 22, 751-771	35
177	The effects of exercise training versus intensive insulin treatment on skeletal muscle fibre content in type 1 diabetes mellitus rodents. 2021 , 20, 64	
176	Skeletal Muscle O-GlcNAc Transferase Action on Global Metabolism Is Partially Mediated Through Interleukin-15. 2021 , 12, 682052	2
175	Storage and Utilization of Glycogen by Mouse Liver during Adaptation to Nutritional Changes Are GLP-1 and PASK Dependent. 2021 , 13,	2
174	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
173	Notch1 haploinsufficiency in mice accelerates adipogenesis. 2021 , 11, 16761	3
172	Metabolic and cardiovascular adaptations to an 8-wk lifestyle weight loss intervention in younger and older obese men. 2021 , 321, E325-E337	0
171	Effects of Fasting and Feeding on Transcriptional and Posttranscriptional Regulation of Insulin-Degrading Enzyme in Mice. 2021 , 10,	2
170	Distinct mechanisms involving diacylglycerol, ceramides, and inflammation underlie insulin resistance in oxidative and glycolytic muscles from high fat-fed rats. 2021 , 11, 19160	2
169	Bioactive compounds from <i>Artemisia dracunculus</i> L. activate AMPK signaling in skeletal muscle. 2021 , 143, 112188	1
168	Programmed cell death 5 improves skeletal muscle insulin resistance by inhibiting IRS-1 ubiquitination through stabilization of MDM2. 2021 , 285, 119918	0
167	Metabolic and Molecular Pathogenesis of Type 2 Diabetes Mellitus.	2
166	Treating Type 2 Diabetes Mellitus. 2010 , 731-747	1
165	Insulin Resistance. 2007 , 185-209	2
164	Insulin Resistance in Essential Hypertension. 1991 , 117-138	1
163	Glucose- and Fructose-Induced Toxicity in the Liver and Brain. 2013 , 35-66	1
162	Microalbuminuria in Patients with Essential Hypertension. Cardiovascular and Renal Implications. 1998 , 569-584	1
161	Insulin sensitivity, muscle fibre types, and membrane lipids. 1998 , 441, 129-38	13

160	Anatomy of glucose transporters in skeletal muscle. Effects of insulin and contractions. 1998 , 441, 17-26	14
159	NMR Studies on the Mechanism of Insulin Resistance. 1999 , 159-177	2
158	Risk Factors for Gestational Diabetes: from an Epidemiological Standpoint. 2010 , 71-81	9
157	Major Advances in Brain Glycogen Research: Understanding of the Roles of Glycogen Have Evolved from Emergency Fuel Reserve to Dynamic, Regulated Participant in Diverse Brain Functions. 2019 , 23, 1-16	13
156	Insulin Resistance, Obesity and Lipotoxicity. 2017 , 960, 277-304	182
155	Applications of Magnetic Resonance Spectroscopy to Nutrition and Metabolism. 1993 , 19-45	2
154	Pathophysiology of Type 2 Diabetes Mellitus. 1996 , 7-42	6
153	Multiple defects of both hepatic and peripheral intracellular glucose processing contribute to the hyperglycaemia of NIDDM. 1995 , 38, 326	2
152	Insulin resistance and abnormal albumin excretion in non-diabetic first-degree relatives of patients with NIDDM. 1995 , 38, 363	4
151	Polymorphisms of the human hexokinase II gene: lack of association with NIDDM and insulin resistance. 1995 , 38, 617	1
150	³¹ P NMR Spectroscopy of Metabolic Changes Associated with Muscle Exercise: Physiopathological Applications. 1994 , 389-403	7
149	¹³ C Magnetic Resonance Spectroscopy as a Noninvasive Tool for Metabolic Studies on Humans. 1995 , 269-322	4
148	Regulation of Intermediary Metabolism During Fasting and Feeding. 2010 , 673-698	5
147	Type 2 Diabetes Mellitus. 2010 , 765-787	2
146	Germline manipulation of glucose homeostasis via alteration of glucose transporter levels in skeletal muscle.. 1993 , 268, 18442-18445	83
145	Primary Prevention of Non-insulin-dependent Diabetes Mellitus. 1994 , 10, 172-184	47
144	Pubertal alterations in growth and body composition. VI. Pubertal insulin resistance: relation to adiposity, body fat distribution and hormone release.	2
143	¹³ C/ ³¹ P NMR studies of glucose transport in human skeletal muscle. 1998 , 95, 1313-8	22

142	Identification of Functional Noncoding RNA-encoded Proteins on Lipid Droplets.	1
141	Nix induced mitochondrial fission, mitophagy, and myocyte insulin resistance are abrogated by PKA phosphorylation.	1
140	Insulin resistance in microalbuminuric hypertension. Sites and mechanisms. 1995 , 26, 789-95	54
139	Asp905Tyr polymorphism of protein phosphatase 1 G subunit gene in hypertension. 1997 , 30, 236-9	5
138	Nonobese Patients With Familial Combined Hyperlipidemia Are Insulin Resistant Compared With Their Nonaffected Relatives. 1997 , 17, 1465-1471	34
137	Athletes feature greater rates of muscle glucose transport and glycogen synthesis during lipid infusion. 2019 , 4,	3
136	Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. 2002 , 109, 1321-1326	436
135	Glucose toxicity and the development of diabetes in mice with muscle-specific inactivation of GLUT4. 2001 , 108, 153-60	141
134	Hyperglycemia normalizes insulin-stimulated skeletal muscle glucose oxidation and storage in noninsulin-dependent diabetes mellitus. 1990 , 86, 1999-2007	149
133	Multiple defects in muscle glycogen synthase activity contribute to reduced glycogen synthesis in non-insulin dependent diabetes mellitus. 1991 , 87, 489-95	106
132	Defective insulin response of cyclic adenosine monophosphate-dependent protein kinase in insulin-resistant humans. 1991 , 87, 673-9	26
131	Effect of physiologic hyperinsulinemia on glucose and lipid metabolism in cirrhosis. 1991 , 88, 561-70	110
130	Sources of carbon for hepatic glycogen synthesis in the conscious dog. 1991 , 88, 578-87	100
129	Effects of fat on insulin-stimulated carbohydrate metabolism in normal men. 1991 , 88, 960-6	358
128	Decreased insulin activation of glycogen synthase in skeletal muscles in young nonobese Caucasian first-degree relatives of patients with non-insulin-dependent diabetes mellitus. 1992 , 89, 782-8	218
127	³¹ P nuclear magnetic resonance measurements of muscle glucose-6-phosphate. Evidence for reduced insulin-dependent muscle glucose transport or phosphorylation activity in non-insulin-dependent diabetes mellitus. 1992 , 89, 1069-75	243
126	Characterization of cellular defects of insulin action in type 2 (non-insulin-dependent) diabetes mellitus. 1993 , 91, 484-94	128
125	Insulin resistance in liver cirrhosis. Positron-emission tomography scan analysis of skeletal muscle glucose metabolism. 1993 , 91, 1897-902	81

124	Glycogen synthase and phosphofructokinase protein and mRNA levels in skeletal muscle from insulin-resistant patients with non-insulin-dependent diabetes mellitus. 1993 , 91, 2342-50	76
123	Transmembrane glucose transport in skeletal muscle of patients with non-insulin-dependent diabetes. 1993 , 92, 486-94	118
122	Skeletal muscle glycogenolysis is more sensitive to insulin than is glucose transport/phosphorylation. Relation to the insulin-mediated inhibition of hepatic glucose production. 1993 , 92, 2963-74	48
121	Mechanisms of fatty acid-induced inhibition of glucose uptake. 1994 , 93, 2438-46	725
120	¹³ C-nuclear magnetic resonance spectroscopy studies of hepatic glucose metabolism in normal subjects and subjects with insulin-dependent diabetes mellitus. 1994 , 94, 2369-76	86
119	Glycemic improvement in diabetic db/db mice by overexpression of the human insulin-regulatable glucose transporter (GLUT4). 1995 , 95, 1512-8	163
118	Severe insulin-resistant diabetes mellitus in patients with congenital muscle fiber type disproportion myopathy. 1995 , 95, 1925-32	16
117	Mechanism of free fatty acid-induced insulin resistance in humans. 1996 , 97, 2859-65	1029
116	Glycogen synthase activity is reduced in cultured skeletal muscle cells of non-insulin-dependent diabetes mellitus subjects. Biochemical and molecular mechanisms. 1996 , 98, 1231-6	106
115	Human primary myoblast cell cultures from non-diabetic insulin resistant subjects retain defects in insulin action. 1996 , 98, 2346-50	40
114	Metabolic effects of liver transplantation in cirrhotic patients. 1997 , 99, 692-700	39
113	Role of the glucosamine pathway in fat-induced insulin resistance. 1997 , 99, 2173-82	228
112	Mechanism of impaired insulin-stimulated muscle glucose metabolism in subjects with insulin-dependent diabetes mellitus. 1997 , 99, 2219-24	37
111	Peripheral but not hepatic insulin resistance in mice with one disrupted allele of the glucose transporter type 4 (GLUT4) gene. 1997 , 100, 1831-9	71
110	Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. 2002 , 109, 1321-6	220
109	Postabsorptive respiratory quotient and insulin-stimulated glucose storage rate in nondiabetic pima indians are related To glycogen synthase fractional activity in cultured myoblasts. 1998 , 101, 2251-6	9
108	Tissue glycogen content and glucose intolerance. 2003 , 111, 1282-4	12
107	PKC- β knockout mice are protected from fat-induced insulin resistance. 2004 , 114, 823-827	351

106	PKC-theta knockout mice are protected from fat-induced insulin resistance. 2004 , 114, 823-7	181
105	Redistribution of substrates to adipose tissue promotes obesity in mice with selective insulin resistance in muscle. 2000 , 105, 1791-7	243
104	Obesity and Diabetes. 2012 , 249-310	1
103	Exercise training elicits superior metabolic effects when performed in the afternoon compared to morning in metabolically compromised humans. 2021 , 8, e14669	15
102	Focus Issue on Cardiac Sarcoidosis from International Congress of Nuclear Cardiology and Cardiac CT (ICNC 12) Symposium. 2015 , 1, 87-94	6
101	Butyrate alleviates high fat diet-induced obesity through activation of adiponectin-mediated pathway and stimulation of mitochondrial function in the skeletal muscle of mice. 2016 , 7, 56071-56082	85
100	Downregulated long noncoding RNA ALDBGALG0000005049 induces inflammation in chicken muscle suffered from selenium deficiency by regulating stearyl-CoA desaturase. 2017 , 8, 52761-52774	14
99	Metabolic Effects of Metformin in Humans. 2019 , 15, 328-339	5
98	Effect of electrical stimulation combined with diet therapy on insulin resistance via mTOR signaling. 2019 , 20, 5152-5162	2
97	Spinach aldolase interactions with rabbit, chicken, and fish muscle phosphofructokinase-1. 2013 , 01, 121-131	1
96	Knockout mouse models of insulin signaling: Relevance past and future. 2014 , 5, 146-59	22
95	Preventive effects of endurance exercise on slow-to-fast fiber transition in plantaris muscle of non-obese type 2 diabetic rats. 2016 , 65, 197-203	1
94	The Molecular Basis of Insulin Action and Insulin Resistance. 2001 , 133-190	
93	Aging, Gender, and Susceptibility to Muscle Damage and Overtraining. 2001 , 189-208	
92	Insulin resistance in diabetes. 2004 , 65-98	
91	Rol' sinteticheskogo liganda PPARy-rosiglitazona v patogeneticheskom lechenii sakharnogo diabeta 2 tipa. 2005 , 8, 66-73	
90	Examination of PPP1R3B as a candidate gene for the type 2 diabetes and MODY loci on chromosome 8p23. 2006 , 060721082338044	
89	Molecular Modifications Induced by Physical Exercise: A Significant Role in Disease Prevention. 2007 , 83-99	

88 Excessive Nutrients and Regional Energy Metabolism. **2012**, 55-66

87 Insulin Resistance and the Metabolic Syndrome. **2012**, 284-296.e4

86 References. 575-608

85 The Skeletal Muscle in Metabolic Syndrome. **2014**, 111-136

84 Contribution of Dietary Carbohydrates in Induction of Oxidative Stress. **2014**, 237-261

83 Facilitative Glucose Transporters: Regulation and Possible Role in NIDDM. **1991**, 27-41

82 Methodology for the Study of Metabolism: Kinetic Techniques. **1991**, 1-14

81 Metabolic Studies in Human Subjects. **1991**, 19, 251-262

1

80 Insulin-A Risk Factor for Cardiovascular Disease?. **1992**, 105-110

79 Insulin Resistance. **1992**, 27-51

0

78 Mechanismen der Insulinresistenz. **1993**, 1-19

77 NMR Studies of Glycogen Metabolism in the Heart. **1993**, 169-183

76 Analysis of Mitochondrial Function by Carbon-13 Nuclear Magnetic Resonance Spectroscopy in Intact Tissues. **1993**, 127-145

75 Facilitative glucose transporters. **1994**, 43-55

74 ¹H-MRS of Muscle Physiology and Pathophysiology. **1996**, 133-147

3

73 Insulin action in skeletal muscle from patients with NIDDM. **1998**, 153-160

3

72 Metabolic and therapeutic lessons from genetic manipulation of GLUT4. **1998**, 143-152

71 Medical Consequences of Obesity. **1999**, 93-112

- 70 Insulin Resistance, and Hypertension. **1999**, 195-216
- 69 Assays for Insulin and Insulin-Like Metabolic Activity Based on Hepatocytes, Myocytes, and Diaphragms. **2015**, 1-62
- 68 Mechanism of Skeletal Muscle Contraction: Role of Mechanical Muscle Contraction in Glucose Homeostasis. **2016**, 155-169
- 67 Treating Type 2 Diabetes Mellitus. **2016**, 1-24
- 66 Assays for Insulin and Insulin-Like Metabolic Activity Based on Hepatocytes, Myocytes and Diaphragms. **2016**, 2723-2780
- 65 Treating Type 2 Diabetes Mellitus. **2017**, 905-927
- 64 Treating Type 2 Diabetes Mellitus. **2017**, 1-24
- 63 Magnetic resonance spectroscopy analysis of intramyocellular lipid composition in lipodystrophic patients and athletes. ○
- 62 FOXO3A-Short is a Novel Regulator of Non-Oxidative Glucose Metabolism Associated with Human Longevity.
- 61 Techniques to Assess Insulin Action in Youth. **2020**, 19-35
- 60 Comprehensive analysis of long non-coding RNAs and mRNAs in skeletal muscle of diabetic Goto-Kakizaki rats during the early stage of type 2 diabetes. **2020**, 8, e8548 ○
- 59 Fundamentals about onset and progressive disease character of type 2 diabetes mellitus. **2020**, 11, 165-181 1
- 58 Skeletal Muscle Composition and Glucose Levels in Children Who Are Overweight and Obese. **2020**, 32, 157-164
- 57 Hyperpolarized [1- C]pyruvate combined with the hyperinsulinaemic euglycaemic and hypoglycaemic clamp technique in skeletal muscle in a large animal model. **2021**, 106, 2412-2422
- 56 The Metformin Paradox. **2020**, 16, 143-147 2
- 55 AKT2 deficiency causes sarcopenia and metabolic disorder of skeletal muscle. ○
- 54 Leptin receptor defect with diabetes causes skeletal muscle atrophy in female obese Zucker rats where peculiar depots networked with mitochondrial damages. **2021**, 45, 346-375
- 53 Stoffwechsel des Herzens bei Diabetes. **2005**, 101-121

52	Glucides. 2007 , 39-56	
51	Catestatin induces glycogenesis by stimulating phosphoinositide 3-kinase-AKT pathway.	
50	Regulation of glycogen synthesis in rat skeletal muscle after glycogen-depleting contractile activity: effects of adrenaline on glycogen synthesis and activation of glycogen synthase and glycogen phosphorylase. 1999 , 344 Pt 1, 231-5	10
49	Cellular mechanism of insulin resistance in skeletal muscle. 2002 , 95 Suppl 42, 8-13	12
48	Nuclear magnetic resonance studies of glucose metabolism in non-insulin-dependent diabetes mellitus subjects. 1996 , 2, 533-40	3
47	Gastrointestinal dopamine as an anti-incretin and its possible role in bypass surgery as therapy for type 2 diabetes with associated obesity. 2016 , 41, 43-56	11
46	Exercise, CaMKII, and type 2 diabetes. 2021 , 20, 386-399	
45	Metabolic and physiological effects of insulin. 2022 , 203-230	
44	Catestatin induces glycogenesis by stimulating the phosphoinositide 3-kinase-AKT pathway.. 2022 , e13775	0
43	Insulin Resistance: From Mechanisms to Therapeutic Strategies.. 2021 ,	13
42	iPSCs in insulin resistance, type 2 diabetes, and the metabolic syndrome. 2022 , 275-302	
41	Exercise increases the expression of glucose transport and lipid metabolism genes at optimum level time point 6 h post-exercise in rat skeletal muscle. 2022 , 31, 147-153	
40	Insulin: The master regulator of glucose metabolism.. 2022 , 155142	6
39	Metabolic and therapeutic lessons from genetic manipulation of GLUT4. 1998 , 182, 143-52	5
38	Insulin action in skeletal muscle from patients with NIDDM. 1998 , 182, 153-60	18
37	Triglyceride-glucose index in the development of heart failure and left ventricular dysfunction: analysis of the ARIC study.. 2022 ,	0
36	Bioactive lipids and metabolic syndrome-a symposium report.. 2022 ,	3
35	Potential Mechanisms for How Long-Term Physical Activity May Reduce Insulin Resistance.. 2022 , 12,	1

34	Prenatal Low-Protein Diet Affects Mitochondrial Structure and Function in the Skeletal Muscle of Adult Female Offspring.. 2022 , 14,	1
33	Searching for the link between inflammaging and sarcopenia.. 2022 , 77, 101611	2
32	Anti-diabetic potential of Psidium guajava leaf in streptozotocin induced diabetic rats. 2022 , 2, 100254	1
31	In vivo insulin action and muscle glycogen synthase activity in type 2 (non-insulin-dependent) diabetes mellitus: effects of diet treatment. 1992 , 35, 777-84	50
30	Skeletal muscle cell-specific differences in type 2 diabetes.. 2022 , 79, 256	1
29	Dietary Activation of AMP-Activated Protein Kinase (AMPK) to Treat Insulin Resistance.	
28	Precision Exercise and Physical Activity for Diabetes. 2022 , 251-288	
27	Phosphoproteomic mapping reveals distinct signaling actions and activation of protein synthesis and muscle hypertrophy by Isthmin-1.	
26	Molecular Mechanisms Involved in Insulin Resistance: Recent Updates and Future Challenges.	
25	The sonographic quantitative assessment of the deltoid muscle to detect type 2 diabetes mellitus: a potential noninvasive and sensitive screening method?. 2022 , 22,	
24	Comprehensive isotopomer analysis of glutamate and aspartate in small tissue samples.	0
23	Effects of Acute Muscle Contraction on the Key Molecules in Insulin and Akt Signaling in Skeletal Muscle in Health and in Insulin Resistant States. 2022 , 3, 423-446	0
22	Molecular and biochemical regulation of skeletal muscle metabolism. 2022 , 100,	0
21	Mesenchymal Stem Cells (MSCs): A Novel Therapy for Type 2 Diabetes. 2022 , 2022, 1-17	0
20	Lactate-induced lactylation in skeletal muscle is associated with insulin resistance in humans. 13,	0
19	Is insulin resistance tissue-dependent and substrate-specific? The role of white adipose tissue and skeletal muscle. 2022 ,	1
18	Phosphoproteomic mapping reveals distinct signaling actions and activation of muscle protein synthesis by Isthmin-1. 11,	0
17	Role of mitochondria-associated endoplasmic reticulum membranes in insulin sensitivity, energy metabolism, and contraction of skeletal muscle. 9,	0

16	Using endogenous glycogen as relaxation agent for imaging liver metabolism by MRI. 2022,	0
15	Effect of Carica papaya on IRS-1/Akt Signaling Mechanisms in High-Fat-Diet+Streptozotocin-Induced Type 2 Diabetic Experimental Rats: A Mechanistic Approach. 2022, 14, 4181	1
14	The early days of ex vivo ¹ H, ¹³ C and ³¹ P NMR in the laboratory of Dr. Robert G Shulman from 1975 to 1995..	0
13	Cyclosorus terminans Extract Ameliorates Insulin Resistance and Non-Alcoholic Fatty Liver Disease (NAFLD) in High-Fat Diet (HFD)-Induced Obese Rats. 2022, 14, 4895	1
12	Chrono-exercise: Time-of-day-dependent physiological responses to exercise. 2022,	1
11	Lafora progressive myoclonus-epilepsy: Laforin targets malin to glycogen.	0
10	FOXO3A -short is a novel regulator of non-oxidative glucose metabolism associated with human longevity.	0
9	Novel Muscle-Homing Peptide FGF1 Conjugate Based on AlphaFold for Type 2 Diabetes Mellitus.	0
8	Ganoderma lucidum: Current advancements of characteristic components and experimental progress in anti-liver fibrosis. 13,	1
7	MG53 : A potential therapeutic target for kidney disease. 2023, 11,	0
6	Enriched functional milk fat ameliorates glucose intolerance and triacylglycerol accumulation in skeletal muscle of rats fed high-fat diets.	0
5	Effects of Type 2 Diabetes on the Regulation of Hepatic Glucose Metabolism. 2004, 52, 366-374	1
4	Metabolic imaging with deuterium labeled substrates. 2023, 134-135, 39-51	0
3	Low carbohydrate high fat ketogenic diets on the exercise crossover point and glucose homeostasis. 14,	0
2	Preventive Activity of Patchouli Alcohol Against Colorectal Cancer and Diabetes. 2023, 26, 255-261	0
1	Dysregulated Liver Metabolism and Polycystic Ovarian Syndrome. 2023, 24, 7454	0