Michael Roden

List of Publications by Citations

355 papers	23,928 citations	68 h-index	149 g-index
384 ext. papers	29,080 ext. citations	8.5 avg, IF	6.93 L-index

#	Paper	IF	Citations
355	New genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. *Nature Genetics*, **2010**, 42, 105-16	36.3	1673
354	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. *Nature Genetics*, **2012**, 44, 981-90	36.3	1482
353	Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. *Nature Genetics*, **2010**, 42, 579-89	36.3	1449
352	Systematic identification of trans eQTLs as putative drivers of known disease associations. *Nature Genetics*, **2013**, 45, 1238-1243	36.3	1244
351	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. *Nature Genetics*, **2014**, 46, 234-44	36.3	784
350	Statin-associated muscle symptoms: impact on statin therapy-European Atherosclerosis Society Consensus Panel Statement on Assessment, Aetiology and Management. *European Heart Journal*, **2015**, 36, 1012-22	9.5	770
349	The genetic architecture of type 2 diabetes. *Nature*, **2016**, 536, 41-47	50.4	704
348	Identification of serum metabolites associated with risk of type 2 diabetes using a targeted metabolomic approach. *Diabetes*, **2013**, 62, 639-48	0.9	634
347	Increased glucose transport-phosphorylation and muscle glycogen synthesis after exercise training in insulin-resistant subjects. *New England Journal of Medicine*, **1996**, 335, 1357-62	59.2	522
346	Epigenome-wide association study of body mass index, and the adverse outcomes of adiposity. *Nature*, **2017**, 541, 81-86	50.4	511
345	Adaptation of hepatic mitochondrial function in humans with non-alcoholic fatty liver is lost in steatohepatitis. *Cell Metabolism*, **2015**, 21, 739-46	24.6	481
344	NAFLD and diabetes mellitus. *Nature Reviews Gastroenterology and Hepatology*, **2017**, 14, 32-42	24.2	434
343	An Expanded Genome-Wide Association Study of Type 2 Diabetes in Europeans. *Diabetes*, **2017**, 66, 2888-2902	9.3	414
342	The role of mitochondria in insulin resistance and type 2 diabetes mellitus. *Nature Reviews Endocrinology*, **2011**, 8, 92-103	15.2	362
341	Identification of IRS-1 Ser-1101 as a target of S6K1 in nutrient- and obesity-induced insulin resistance. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14056-61	11.5	336
340	Common variants at 10 genomic loci influence hemoglobin A[C) levels via glycemic and nonglycemic pathways. *Diabetes*, **2010**, 59, 3229-39	0.9	314
339	Empagliflozin monotherapy with sitagliptin as an active comparator in patients with type 2 diabetes: a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Diabetes and Endocrinology,the*, **2013**, 1, 208-19	18.1	309

338	Genetic fine mapping and genomic annotation defines causal mechanisms at type 2 diabetes susceptibility loci. *Nature Genetics*, **2015**, 47, 1415-25	36.3	292
337	Overactivation of S6 kinase 1 as a cause of human insulin resistance during increased amino acid availability. *Diabetes*, **2005**, 54, 2674-84	0.9	288
336	Mechanism of amino acid-induced skeletal muscle insulin resistance in humans. *Diabetes*, **2002**, 51, 599-605	0.9	281
335	Mechanisms of Disease: hepatic steatosis in type 2 diabetes--pathogenesis and clinical relevance. *Nature Clinical Practice Endocrinology and Metabolism*, **2006**, 2, 335-48		277
334	The integrative biology of type 2 diabetes. *Nature*, **2019**, 576, 51-60	50.4	266
333	Role of diacylglycerol activation of PKC□in lipid-induced muscle insulin resistance in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9597-602	11.5	262
332	Early detection of nerve fiber loss by corneal confocal microscopy and skin biopsy in recently diagnosed type 2 diabetes. *Diabetes*, **2014**, 63, 2454-63	0.9	224
331	Alterations in postprandial hepatic glycogen metabolism in type 2 diabetes. *Diabetes*, **2004**, 53, 3048-56	0.9	216
330	Vascular effects of advanced glycation endproducts: Clinical effects and molecular mechanisms. *Molecular Metabolism*, **2014**, 3, 94-108	8.8	191
329	Muscle mitochondrial ATP synthesis and glucose transport/phosphorylation in type 2 diabetes. *PLoS Medicine*, **2007**, 4, e154	11.6	186
328	Risk of diabetes-associated diseases in subgroups of patients with recent-onset diabetes: a 5-year follow-up study. *Lancet Diabetes and Endocrinology,the*, **2019**, 7, 684-694	18.1	170
327	Ectopic lipids and organ function. *Current Opinion in Lipidology*, **2009**, 20, 50-6	4.4	151
326	Liver ATP synthesis is lower and relates to insulin sensitivity in patients with type 2 diabetes. *Diabetes Care*, **2011**, 34, 448-53	14.6	144
325	Abnormal hepatic energy homeostasis in type 2 diabetes. *Hepatology*, **2009**, 50, 1079-86	11.2	137
324	Specific Hepatic Sphingolipids Relate to Insulin Resistance, Oxidative Stress, and Inflammation in Nonalcoholic Steatohepatitis. *Diabetes Care*, **2018**, 41, 1235-1243	14.6	136
323	Effects of insulin treatment in type 2 diabetic patients on intracellular lipid content in liver and skeletal muscle. *Diabetes*, **2002**, 51, 3025-32	0.9	136
322	Hepatic glucose metabolism in humans--its role in health and disease. *Best Practice and Research in Clinical Endocrinology and Metabolism*, **2003**, 17, 365-83	6.5	135
321	Intake of Lactobacillus reuteri improves incretin and insulin secretion in glucose-tolerant humans: a proof of concept. *Diabetes Care*, **2015**, 38, 1827-34	14.6	131

320	Isocaloric Diets High in Animal or Plant Protein Reduce Liver Fat and Inflammation in Individuals With Type 2 Diabetes. *Gastroenterology*, **2017**, 152, 571-585.e8	13.3	120
319	Effects of supplemented isoenergetic diets differing in cereal fiber and protein content on insulin sensitivity in overweight humans. *American Journal of Clinical Nutrition*, **2011**, 94, 459-71	7	116
318	Increased intramyocellular lipid concentration identifies impaired glucose metabolism in women with previous gestational diabetes. *Diabetes*, **2003**, 52, 244-51	0.9	114
317	Relationship between serum lipoprotein ratios and insulin resistance in obesity. *Clinical Chemistry*, **2004**, 50, 2316-22	5.5	99
316	Accelerated increase in serum interleukin-1 receptor antagonist starts 6 years before diagnosis of type 2 diabetes: Whitehall II prospective cohort study. *Diabetes*, **2010**, 59, 1222-7	0.9	98
315	Interorgan Metabolic Crosstalk in Human Insulin Resistance. *Physiological Reviews*, **2018**, 98, 1371-1415	47.9	97
314	Leveraging cross-species transcription factor binding site patterns: from diabetes risk loci to disease mechanisms. *Cell*, **2014**, 156, 343-58	56.2	96
313	Acute dietary fat intake initiates alterations in energy metabolism and insulin resistance. *Journal of Clinical Investigation*, **2017**, 127, 695-708	15.9	93
312	Genetics of type 2 diabetes: pathophysiologic and clinical relevance. *European Journal of Clinical Investigation*, **2011**, 41, 679-92	4.6	91
311	Emerging Biomarkers, Tools, and Treatments for Diabetic Polyneuropathy. *Endocrine Reviews*, **2019**, 40, 153-192	27.2	90
310	Mechanisms of Insulin Resistance in Primary and Secondary Nonalcoholic Fatty Liver. *Diabetes*, **2017**, 66, 2241-2253	0.9	89
309	Comparison of liver fat indices for the diagnosis of hepatic steatosis and insulin resistance. *PLoS ONE*, **2014**, 9, e94059	3.7	88
308	Mechanisms underlying the onset of oral lipid-induced skeletal muscle insulin resistance in humans. *Diabetes*, **2013**, 62, 2240-8	0.9	86
307	Association Between Long-term Exposure to Air Pollution and Biomarkers Related to Insulin Resistance, Subclinical Inflammation, and Adipokines. *Diabetes*, **2016**, 65, 3314-3326	0.9	86
306	Empagliflozin Effectively Lowers Liver Fat Content in Well-Controlled Type 2 Diabetes: A Randomized, Double-Blind, Phase 4, Placebo-Controlled Trial. *Diabetes Care*, **2020**, 43, 298-305	14.6	86
305	A meta-analysis of gene expression signatures of blood pressure and hypertension. *PLoS Genetics*, **2015**, 11, e1005035	6	83
304	How free fatty acids inhibit glucose utilization in human skeletal muscle. *Physiology*, **2004**, 19, 92-6	9.8	83
303	Alterations of Mitochondrial Function and Insulin Sensitivity in Human Obesity and Diabetes Mellitus. *Annual Review of Nutrition*, **2016**, 36, 337-67	9.9	83

302	Inhibition of 11HSD1 with RO5093151 for non-alcoholic fatty liver disease: a multicentre, randomised, double-blind, placebo-controlled trial. *Lancet Diabetes and Endocrinology,the*, **2014**, 2, 406-16	18.1	82
301	Cell Specific eQTL Analysis without Sorting Cells. *PLoS Genetics*, **2015**, 11, e1005223	6	81
300	Increased lipid availability impairs insulin-stimulated ATP synthesis in human skeletal muscle. *Diabetes*, **2006**, 55, 136-40	0.9	81
299	The role of mitochondria in statin-induced myopathy. *European Journal of Clinical Investigation*, **2015**, 45, 745-54	4.6	80
298	Hepatic energy metabolism in human diabetes mellitus, obesity and non-alcoholic fatty liver disease. *Molecular and Cellular Endocrinology*, **2013**, 379, 35-42	4.4	78
297	Effects of metformin on metabolite profiles and LDL cholesterol in patients with type 2 diabetes. *Diabetes Care*, **2015**, 38, 1858-67	14.6	76
296	Evidence for a direct effect of the NAD+ precursor acipimox on muscle mitochondrial function in humans. *Diabetes*, **2015**, 64, 1193-201	0.9	74
295	Safety, tolerability and effects on cardiometabolic risk factors of empagliflozin monotherapy in drug-naïve patients with type 2 diabetes: a double-blind extension of a Phase III randomized controlled trial. *Cardiovascular Diabetology*, **2015**, 14, 154	8.7	74
294	Chronic TNF- neutralization does not improve insulin resistance or endothelial function in "healthy" men with metabolic syndrome. *Molecular Medicine*, **2011**, 17, 189-93	6.2	73
293	The effect of a Diabetes-Specific Cognitive Behavioral Treatment Program (DIAMOS) for patients with diabetes and subclinical depression: results of a randomized controlled trial. *Diabetes Care*, **2015**, 38, 551-60	14.6	71
292	Mechanosensing by 1 integrin induces angiocrine signals for liver growth and survival. *Nature*, **2018**, 562, 128-132	50.4	71
291	Pancreatic adipose tissue infiltration, parenchymal steatosis and beta cell function in humans. *Diabetologia*, **2015**, 58, 1646-55	10.3	69
290	Cohort profile: the German Diabetes Study (GDS). *Cardiovascular Diabetology*, **2016**, 15, 59	8.7	69
289	The role of metformin and thiazolidinediones in the regulation of hepatic glucose metabolism and its clinical impact. *Trends in Pharmacological Sciences*, **2011**, 32, 607-16	13.2	69
288	Free fatty acids inhibit the glucose-stimulated increase of intramuscular glucose-6-phosphate concentration in humans. *Journal of Clinical Endocrinology and Metabolism*, **2001**, 86, 2153-60	5.6	69
287	Short-term dietary reduction of branched-chain amino acids reduces meal-induced insulin secretion and modifies microbiome composition in type 2 diabetes: a randomized controlled crossover trial. *American Journal of Clinical Nutrition*, **2019**, 110, 1098-1107	7	68
286	Ectopic fat and insulin resistance. *Current Diabetes Reports*, **2008**, 8, 185-91	5.6	68
285	Immunological and cardiometabolic risk factors in the prediction of type 2 diabetes and coronary events: MONICA/KORA Augsburg case-cohort study. *PLoS ONE*, **2011**, 6, e19852	3.7	67

284	Nonalcoholic steatohepatitis: the role of peroxisome proliferator-activated receptors. *Nature Reviews Gastroenterology and Hepatology*, **2021**, 18, 24-39	24.2	67
283	Hepatic glycogen metabolism in type 1 diabetes after long-term near normoglycemia. *Diabetes*, **2002**, 51, 49-54	0.9	66
282	The Human Blood Metabolome-Transcriptome Interface. *PLoS Genetics*, **2015**, 11, e1005274	6	65
281	Insulin resistance in type 1 diabetes mellitus. *Metabolism: Clinical and Experimental*, **2015**, 64, 1629-39	12.7	64
280	Prevention of in Vitro Lipolysis by Tetrahydrolipstatin. *Clinical Chemistry*, **2000**, 46, 950-954	5.5	63
279	Circulating Levels of Interleukin 1-Receptor Antagonist and Risk of Cardiovascular Disease: Meta-Analysis of Six Population-Based Cohorts. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 1222-1227	9.4	62
278	Effects of intranasal insulin on hepatic fat accumulation and energy metabolism in humans. *Diabetes*, **2015**, 64, 1966-75	0.9	62
277	Association of subclinical inflammation with polyneuropathy in the older population: KORA F4 study. *Diabetes Care*, **2013**, 36, 3663-70	14.6	62
276	Mitochondrial fitness and insulin sensitivity in humans. *Diabetologia*, **2008**, 51, 2155-67	10.3	61
275	Hypothalamic and Striatal Insulin Action Suppresses Endogenous Glucose Production and May Stimulate Glucose Uptake During Hyperinsulinemia in Lean but Not in Overweight Men. *Diabetes*, **2017**, 66, 1797-1806	0.9	60
274	Increased prevalence of cardiac autonomic dysfunction at different degrees of glucose intolerance in the general population: the KORA S4 survey. *Diabetologia*, **2015**, 58, 1118-28	10.3	60
273	Discovery and Fine-Mapping of Glycaemic and Obesity-Related Trait Loci Using High-Density Imputation. *PLoS Genetics*, **2015**, 11, e1005230	6	59
272	Energy metabolism of white adipose tissue and insulin resistance in humans. *European Journal of Clinical Investigation*, **2018**, 48, e13017	4.6	56
271	Short-term exercise training does not stimulate skeletal muscle ATP synthesis in relatives of humans with type 2 diabetes. *Diabetes*, **2009**, 58, 1333-41	0.9	56
270	Proinflammatory Cytokines Predict the Incidence and Progression of Distal Sensorimotor Polyneuropathy: KORA F4/FF4 Study. *Diabetes Care*, **2017**, 40, 569-576	14.6	55
269	In vivo imaging of beta cells with radiotracers: state of the art, prospects and recommendations for development and use. *Diabetologia*, **2016**, 59, 1340-1349	10.3	55
268	Impaired mitochondrial function and insulin resistance of skeletal muscle in mitochondrial diabetes. *Diabetes Care*, **2009**, 32, 677-9	14.6	55
267	The complex link between NAFLD and type 2 diabetes mellitus - mechanisms and treatments. *Nature Reviews Gastroenterology and Hepatology*, **2021**, 18, 599-612	24.2	55

266	Analyzing illumina gene expression microarray data from different tissues: methodological aspects of data analysis in the metaxpress consortium. *PLoS ONE*, **2012**, 7, e50938	3.7	54
265	Indirect calorimetry in humans: a postcalorimetric evaluation procedure for correction of metabolic monitor variability. *American Journal of Clinical Nutrition*, **2013**, 97, 763-73	7	52
264	Are Lifestyle Therapies Effective for NAFLD Treatment?. *Trends in Endocrinology and Metabolism*, **2019**, 30, 701-709	8.8	51
263	Adiponectin may mediate the association between omentin, circulating lipids and insulin sensitivity: results from the KORA F4 study. *European Journal of Endocrinology*, **2015**, 172, 423-32	6.5	49
262	Association between traffic-related air pollution, subclinical inflammation and impaired glucose metabolism: results from the SALIA study. *PLoS ONE*, **2013**, 8, e83042	3.7	49
261	Leukocyte profiles differ between type 1 and type 2 diabetes and are associated with metabolic phenotypes: results from the German Diabetes Study (GDS). *Diabetes Care*, **2014**, 37, 2326-33	14.6	46
260	Mitochondrial plasticity in obesity and diabetes mellitus. *Antioxidants and Redox Signaling*, **2013**, 19, 25868	64	46
259	Proinflammatory cytokines, adiponectin, and increased risk of primary cardiovascular events in diabetic patients with or without renal dysfunction: results from the ESTHER study. *Diabetes Care*, **2013**, 36, 1703-11	14.6	46
258	Effects of high-dose simvastatin therapy on glucose metabolism and ectopic lipid deposition in nonobese type 2 diabetic patients. *Diabetes Care*, **2009**, 32, 209-14	14.6	46
257	International Consensus Based Review and Recommendations for Minimum Reporting Standards in Research on Transcutaneous Vagus Nerve Stimulation (Version 2020). *Frontiers in Human Neuroscience*, **2020**, 14, 568051	3.3	46
256	Lipid-mediated muscle insulin resistance: different fat, different pathways?. *Journal of Molecular Medicine*, **2015**, 93, 831-43	5.5	42
255	Tissue-specific differences in the development of insulin resistance in a mouse model for type 1 diabetes. *Diabetes*, **2014**, 63, 3856-67	0.9	41
254	Adiponectin trajectories before type 2 diabetes diagnosis: Whitehall II study. *Diabetes Care*, **2012**, 35, 2540-7	14.6	41
253	General and Abdominal Obesity and Incident Distal Sensorimotor Polyneuropathy: Insights Into Inflammatory Biomarkers as Potential Mediators in the KORA F4/FF4 Cohort. *Diabetes Care*, **2019**, 42, 240-247	14.6	41
252	Biomarkers of subclinical inflammation and increases in glycaemia, insulin resistance and beta-cell function in non-diabetic individuals: the Whitehall II study. *European Journal of Endocrinology*, **2016**, 175, 367-77	6.5	40
251	Reduction of non-esterified fatty acids improves insulin sensitivity and lowers oxidative stress, but fails to restore oxidative capacity in type 2 diabetes: a randomised clinical trial. *Diabetologia*, **2014**, 57, 572-81	10.3	40
250	Non-invasive assessment of hepatic fat accumulation in chronic hepatitis C by 1H magnetic resonance spectroscopy. *European Journal of Radiology*, **2010**, 74, e60-6	4.7	40
249	Body and liver fat mass rather than muscle mitochondrial function determine glucose metabolism in women with a history of gestational diabetes mellitus. *Diabetes Care*, **2011**, 34, 430-6	14.6	40

248	A Thr94Ala mutation in human liver fatty acid-binding protein contributes to reduced hepatic glycogenolysis and blunted elevation of plasma glucose levels in lipid-exposed subjects. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 293, E1078-84	6	40
247	Fatty liver index predicts further metabolic deteriorations in women with previous gestational diabetes. *PLoS ONE*, **2012**, 7, e32710	3.7	40
246	Biomarkers of iron metabolism are independently associated with impaired glucose metabolism and type 2 diabetes: the KORA F4 study. *European Journal of Endocrinology*, **2015**, 173, 643-53	6.5	39
245	Metabolic liver disease in diabetes - From mechanisms to clinical trials. *Metabolism: Clinical and Experimental*, **2020**, 111S, 154299	12.7	39
244	Impact of common regulatory single-nucleotide variants on gene expression profiles in whole blood. *European Journal of Human Genetics*, **2013**, 21, 48-54	5.3	39
243	Plasma Concentrations of Afamin Are Associated With Prevalent and Incident Type 2 Diabetes: A Pooled Analysis in More Than 20,000 Individuals. *Diabetes Care*, **2017**, 40, 1386-1393	14.6	39
242	Inflammatory markers are associated with cardiac autonomic dysfunction in recent-onset type 2 diabetes. *Heart*, **2017**, 103, 63-70	5.1	38
241	Perceived risk of diabetes seriously underestimates actual diabetes risk: The KORA FF4 study. *PLoS ONE*, **2017**, 12, e0171152	3.7	37
240	Patterns of cutaneous nerve fibre loss and regeneration in type 2 diabetes with painful and painless polyneuropathy. *Diabetologia*, **2017**, 60, 2495-2503	10.3	37
239	Advancing the global public health agenda for NAFLD: a consensus statement. *Nature Reviews Gastroenterology and Hepatology*, **2021**,	24.2	37
238	Near-normoglycaemia and development of neuropathy: a 24-year prospective study from diagnosis of type 1 diabetes. *BMJ Open*, **2015**, 5, e006559	3	36
237	Specific Metabolic Profiles and Their Relationship to Insulin Resistance in Recent-Onset Type 1 and Type 2 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2016**, 101, 2130-40	5.6	36
236	Comparison of measuring energy metabolism by different (31) P-magnetic resonance spectroscopy techniques in resting, ischemic, and exercising muscle. *Magnetic Resonance in Medicine*, **2012**, 67, 898-905	4.4	34
235	The Janus Head of Oxidative Stress in Metabolic Diseases and During Physical Exercise. *Current Diabetes Reports*, **2017**, 17, 41	5.6	33
234	Prediction of clamp-derived insulin sensitivity from the oral glucose insulin sensitivity index. *Diabetologia*, **2018**, 61, 1135-1141	10.3	32
233	Initial clinical application of modified Dixon with flexible echo times: hepatic and pancreatic fat assessments in comparison with (1)H MRS. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2014**, 27, 397-405	2.8	32
232	Genetic determinants of circulating interleukin-1 receptor antagonist levels and their association with glycemic traits. *Diabetes*, **2014**, 63, 4343-59	0.9	32
231	Adiponectin and bariatric surgery: associations with diabetes and cardiovascular disease in the Swedish Obese Subjects Study. *Diabetes Care*, **2014**, 37, 1401-9	14.6	32

230	Effect of Sfrp5 on cytokine release and insulin action in primary human adipocytes and skeletal muscle cells. *PLoS ONE*, **2014**, 9, e85906	3.7	32
229	Oxidative stress predicts progression of peripheral and cardiac autonomic nerve dysfunction over 6 years in diabetic patients. *Acta Diabetologica*, **2015**, 52, 65-72	3.9	31
228	Quantitative liver 31P magnetic resonance spectroscopy at 3T on a clinical scanner. *Magnetic Resonance in Medicine*, **2014**, 71, 1670-5	4.4	31
227	Mitochondrial function and insulin resistance during aging: a mini-review. *Gerontology*, **2011**, 57, 387-96	5.5	31
226	Exosomal proteins constitute an essential part of the human adipose tissue secretome. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2019**, 1867, 140172	4	31
225	The Role of Markers of Low-Grade Inflammation for the Early Time Course of Glycemic Control, Glucose Disappearance Rate, and Cell Function in Recently Diagnosed Type 1 and Type 2 Diabetes. *Diabetes Care*, **2015**, 38, 1758-67	14.6	30
224	Association between pro- and anti-inflammatory cytokines and depressive symptoms in patients with diabetes-potential differences by diabetes type and depression scores. *Translational Psychiatry*, **2018**, 7, 1	8.6	30
223	Postprandial and fasting hepatic glucose fluxes in long-standing type 1 diabetes. *Diabetes*, **2011**, 60, 1752-8	0.9	30
222	Differential association between biomarkers of subclinical inflammation and painful polyneuropathy: results from the KORA F4 study. *Diabetes Care*, **2015**, 38, 91-6	14.6	29
221	Adiponectin, markers of subclinical inflammation and nerve conduction in individuals with recently diagnosed type 1 and type 2 diabetes. *European Journal of Endocrinology*, **2016**, 174, 433-43	6.5	29
220	Increased intake of carbohydrates from sources with a higher glycemic index and lower consumption of whole grains during puberty are prospectively associated with higher IL-6 concentrations in younger adulthood among healthy individuals. *Journal of Nutrition*, **2014**, 144, 1586-93	4.1	29
219	Vasoregulatory peptides pro-endothelin-1 and pro-adrenomedullin are associated with metabolic syndrome in the population-based KORA F4 study. *European Journal of Endocrinology*, **2012**, 167, 847-53	6.5	29
218	A Systemic Inflammatory Signature Reflecting Cross Talk Between Innate and Adaptive Immunity Is Associated With Incident Polyneuropathy: KORA F4/FF4 Study. *Diabetes*, **2018**, 67, 2434-2442	0.9	28
217	Metabolic disturbances of non-alcoholic fatty liver resemble the alterations typical for type 2 diabetes. *Clinical Science*, **2017**, 131, 1905-1917	6.5	27
216	Dynamic changes of muscle insulin sensitivity after metabolic surgery. *Nature Communications*, **2019**, 10, 4179	17.4	27
215	Association of subclinical inflammation with deterioration of glycaemia before the diagnosis of type 2 diabetes: the KORA S4/F4 study. *Diabetologia*, **2015**, 58, 2269-77	10.3	27
214	Adiponectin, biomarkers of inflammation and changes in cardiac autonomic function: Whitehall II study. *Cardiovascular Diabetology*, **2017**, 16, 153	8.7	27
213	Mapping the genetic architecture of gene regulation in whole blood. *PLoS ONE*, **2014**, 9, e93844	3.7	27

212	Exercise training reduces intrahepatic lipid content in people with and people without nonalcoholic fatty liver. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 314, E165-E173	6	27
211	Low-energy diets differing in fibre, red meat and coffee intake equally improve insulin sensitivity in type 2 diabetes: a randomised feasibility trial. *Diabetologia*, **2015**, 58, 255-64	10.3	26
210	Protein markers and risk of type 2 diabetes and prediabetes: a targeted proteomics approach in the KORA F4/FF4 study. *European Journal of Epidemiology*, **2019**, 34, 409-422	12.1	26
209	Novel Insights into Sensorimotor and Cardiovascular Autonomic Neuropathy from Recent-Onset Diabetes and Population-Based Cohorts. *Trends in Endocrinology and Metabolism*, **2019**, 30, 286-298	8.8	25
208	Time course of postprandial hepatic phosphorus metabolites in lean, obese, and type 2 diabetes patients. *American Journal of Clinical Nutrition*, **2015**, 102, 1051-8	7	25
207	Regional differences of undiagnosed type 2 diabetes and prediabetes prevalence are not explained by known risk factors. *PLoS ONE*, **2014**, 9, e113154	3.7	25
206	A single nucleotide polymorphism associates with the response of muscle ATP synthesis to long-term exercise training in relatives of type 2 diabetic humans. *Diabetes Care*, **2012**, 35, 350-7	14.6	23
205	Increased plasma levels of plasminogen activator inhibitor-1 and soluble vascular cell adhesion molecule after triacylglycerol infusion in man. *Thrombosis and Haemostasis*, **2003**, 90, 422-8	7	23
204	Reduced basal ATP synthetic flux of skeletal muscle in patients with previous acromegaly. *PLoS ONE*, **2008**, 3, e3958	3.7	23
203	Nonalcoholic fatty liver disease (NAFLD) from pathogenesis to treatment concepts in humans. *Molecular Metabolism*, **2021**, 50, 101122	8.8	23
202	Risk phenotypes of diabetes and association with COVID-19 severity and death: a living systematic review and meta-analysis. *Diabetologia*, **2021**, 64, 1480-1491	10.3	23
201	Carbondioxide-Aided Angiography Decreases Contrast Volume and Preserves Kidney Function in Peripheral Vascular Interventions. *Angiology*, **2016**, 67, 875-81	2.1	23
200	Association of Lower Cardiovagal Tone and Baroreflex Sensitivity With Higher Liver Fat Content Early in Type 2 Diabetes. *Journal of Clinical Endocrinology and Metabolism*, **2018**, 103, 1130-1138	5.6	22
199	Lower fasting muscle mitochondrial activity relates to hepatic steatosis in humans. *Diabetes Care*, **2014**, 37, 468-74	14.6	22
198	Metabolite ratios as potential biomarkers for type 2 diabetes: a DIRECT study. *Diabetologia*, **2018**, 61, 117-129	10.3	21
197	Transcriptome-Wide Analysis Identifies Novel Associations With Blood Pressure. *Hypertension*, **2017**, 70, 743-750	8.5	21
196	Response to: Comment to "EASL-EASD-EASO Clinical Practice Guidelines for the management of non-alcoholic fatty liver disease". *Journal of Hepatology*, **2017**, 66, 466-467	13.4	21
195	Flavonoid intake from fruit and vegetables during adolescence is prospectively associated with a favourable risk factor profile for type 2 diabetes in early adulthood. *European Journal of Nutrition*, **2019**, 58, 1159-1172	5.2	21

194	Differential Patterns of Impaired Cardiorespiratory Fitness and Cardiac Autonomic Dysfunction in Recently Diagnosed Type 1 and Type 2 Diabetes. *Diabetes Care*, **2017**, 40, 246-252	14.6	20
193	Habitually higher dietary glycemic index during puberty is prospectively related to increased risk markers of type 2 diabetes in younger adulthood. *Diabetes Care*, **2013**, 36, 1870-6	14.6	20
192	Skeletal muscle phosphodiester content relates to body mass and glycemic control. *PLoS ONE*, **2011**, 6, e21846	3.7	20
191	Metabolic flexibility and oxidative capacity independently associate with insulin sensitivity in individuals with newly diagnosed type 2 diabetes. *Diabetologia*, **2016**, 59, 2203-7	10.3	20
190	Sfrp5 associates with beta-cell function in humans. *European Journal of Clinical Investigation*, **2016**, 46, 535-43	4.6	20
189	Differential associations of lower cardiac vagal tone with insulin resistance and insulin secretion in recently diagnosed type 1 and type 2 diabetes. *Metabolism: Clinical and Experimental*, **2018**, 79, 1-9	12.7	20
188	Associations between inflammation-related biomarkers and depressive symptoms in individuals with recently diagnosed type 1 and type 2 diabetes. *Brain, Behavior, and Immunity*, **2017**, 61, 137-145	16.6	19
187	A New Targeted Lipidomics Approach Reveals Lipid Droplets in Liver, Muscle and Heart as a Repository for Diacylglycerol and Ceramide Species in Non-Alcoholic Fatty Liver. *Cells*, **2019**, 8,	7.9	19
186	Insulin Resistance and Vulnerability to Cardiac Ischemia. *Diabetes*, **2018**, 67, 2695-2702	0.9	19
185	Effect of Low-Energy Diets Differing in Fiber, Red Meat, and Coffee Intake on Cardiac Autonomic Function in Obese Individuals With Type 2 Diabetes. *Diabetes Care*, **2015**, 38, 1750-7	14.6	18
184	Lower serum extracellular superoxide dismutase levels are associated with polyneuropathy in recent-onset diabetes. *Experimental and Molecular Medicine*, **2017**, 49, e394	12.8	18
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