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Quantitative serum nuclear magnetic resonance metabolomics in cardiovascular epidemiology and genetics

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510	Metabolic signatures of adiposity in young adults: Mendelian randomization analysis and effects of weight change. <b>2014</b> , 11, e1001765		193
509	Sex hormone-binding globulin associations with circulating lipids and metabolites and the risk for type 2 diabetes: observational and causal effect estimates. <b>2015</b> , 44, 623-37		66
508	Multiple Hepatic Regulatory Variants at the GALNT2 GWAS Locus Associated with High-Density Lipoprotein Cholesterol. <b>2015</b> , 97, 801-15		40
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166	Practical Aspects of the Analysis of Low- and High-Field NMR Data from Environmental Samples. <b>2019</b> , 2037, 315-331	
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161	High-density lipoprotein characteristics and coronary heart disease: a Mendelian randomization study.	
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143	Early life infection and proinflammatory, atherogenic metabolomic and lipidomic profiles at 12 months of age: a population-based cohort study.	
142	Fat metabolism is associated with telomere length in six population-based studies. <b>2021</b> ,	1
141	Diverging metabolic effects of two energy restricted diets differing in nutrient quality: a 12-week randomized controlled trial in subjects with abdominal obesity <b>2022</b> ,	O
140	Metaboprep: an R package for pre-analysis data description and processing 2022,	О
139	Effects of dietary and exercise treatments on HDL subclasses in lactating women with overweight and obesity: a secondary analysis of an RCT <b>2022</b> , 1-31	
138	Associations of lipoprotein particle profile and objectively measured physical activity and sedentary time in schoolchildren: a prospective cohort study <b>2022</b> , 19, 5	o
137	Decreasing severity of obesity from early to late adolescence and young adulthood associates with longitudinal metabolomic changes implicated in lower cardiometabolic disease risk <b>2022</b> ,	0
136	1H-NMR metabolomics-based surrogates to impute common clinical risk factors and endpoints <b>2021</b> , 75, 103764	o
135	Cohort profile: InTraUterine sampling in early pregnancy (ITU), a prospective pregnancy cohort study in Finland: study design and baseline characteristics <b>2022</b> , 12, e049231	0
134	Sex-specific associations of adiposity with cardiometabolic traits in the UK: A multi-life stage cohort study with repeat metabolomics <b>2022</b> , 19, e1003636	O

133	Metabolic and Immune Markers for Precise Monitoring of COVID-19 Severity and Treatment <b>2021</b> , 12, 809937	4
132	Maternal first trimester metabolic profile in TGA pregnancies - a case-control study.	
131	Metabolic predictors of phenotypic traits can replace and complement measured clinical variables in transcriptome-wide association studies.	
130	Loss of sucrase-isomaltase function increases acetate levels and improves metabolic health in Greenlandic cohorts <b>2021</b> ,	1
129	Longitudinal profiling of metabolic ageing trends in two population cohorts of young adults 2022,	1
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127	Longitudinal analysis of UK Biobank participants suggests age and APOE-dependent alterations of energy metabolism in development of dementia.	O
126	Metabolomic and microbiome profiling reveals personalized risk factors for coronary artery disease <b>2022</b> ,	7
125	Plasma metabolomics of primary open-angle glaucoma in three prospective US cohorts and the UK Biobank.	
124	Serum CathepsinD in pregnancy: Relation with metabolic and inflammatory markers and effects of fish oils and probiotics <b>2022</b> ,	
123	Blood Plasma Metabolites in Diabetes-Associated Chronic Kidney Disease: A Focus on Lipid Profiles and Cardiovascular Risk <b>2022</b> , 9, 821209	
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121	Distinct Diet-Microbiota-Metabolism Interactions in Overweight and Obese Pregnant Women: a Metagenomics Approach <b>2022</b> , e0089321	0
120	The metabolic signature of cardiovascular disease and arterial calcification in patients with chronic kidney disease <b>2022</b> ,	O
119	Metabolomic serum abnormalities in dogs with hepatopathies <b>2022</b> , 12, 5329	0
118	Multi-Omics Integration in a Twin Cohort and Predictive Modeling of Blood Pressure Values <b>2022</b> , 26, 130-141	1
117	Apolipoprotein A-V is a potential target for treating coronary artery disease: evidence from genetic and metabolomic analyses <b>2022</b> , 100193	1
116	What characterizes event-free elderly FH patients? A comprehensive lipoprotein profiling 2022,	O

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114	Effect of common pregnancy and perinatal complications on offspring metabolic traits across the life course: a multi-cohort study.	
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95	High dietary nucleotide consumption for one week increases circulating uric acid concentrations but does not compromise metabolic health: A randomised controlled trial. <b>2022</b> ,	0
94	Serum metabolomic profiles associated with subclinical and clinical cardiovascular phenotypes in people with type 2 diabetes <b>2022</b> , 21, 62	1
93	Early life infection and proinflammatory, atherogenic metabolomic and lipidomic profiles in infancy: a population-based cohort study <b>2022</b> , 11,	1
92	The UK Biobank: A Shining Example of Genome-Wide Association Study Science with the Power to Detect the Murky Complications of Real-World Epidemiology <b>2022</b> ,	O
91	Predictive value of circulating NMR metabolic biomarkers for type 2 diabetes risk in the UK Biobank study <b>2022</b> , 20, 159	О
90	Bayesian nonparametric modelling of multiple graphs with an application to ethnic metabolic differences.	
89	Sex-specific associations of childhood socioeconomic position and trajectories of metabolic traits across early life: prospective cohort study.	
88	Association of egg consumption, metabolic markers, and risk of cardiovascular diseases: A nested case-control study. 11,	O
87	Fifty-one novel, replicated loci identified in genome-wide association study of polyunsaturated and monounsaturated fatty acids in 124,024 European individuals.	О
86	Atlas of plasma nuclear magnetic resonance biomarkers for health and disease in 118,461 individuals from the UK Biobank.	O
85	Lipo-proteomic and metabolic fine-mapping of genetic lipid risk loci.	
84	Increased maternal non-oxidative energy metabolism mediates association between prenatal DEHP exposure and offspring ASD symptoms: a birth cohort study.	
83	Metabolomics profile of 5649 users and non-users of hormonal intrauterine devices in Finland. <b>2022</b> ,	
82	Using Mendelian Randomisation to Prioritise Candidate Maternal Metabolic Traits Influencing Offspring Birthweight. <b>2022</b> , 12, 537	O
81	Identification of blood metabolites linked to the risk of cholelithiasis: a comprehensive Mendelian randomization study.	О
80	Role of circulating polyunsaturated fatty acids on cardiovascular diseases risk: analysis using Mendelian randomization and fatty acid genetic association data from over 114,000 UK Biobank participants. <b>2022</b> , 20,	1

79	Lipoprotein profiles associated with exposure to poly- and perfluoroalkyl substances (PFASs) in the EuroMix human biomonitoring study. <b>2022</b> , 119664	1
78	Investigation of metabolomic biomarkers for childhood executive function and the role of genetic and dietary factors: The GUSTO cohort. <b>2022</b> , 81, 104111	
77	High density lipoprotein subfractions and extent of coronary atherosclerotic lesions: From the cordioprev study. <b>2022</b> , 533, 89-95	
76	Adipose methylome integrative-omic analyses reveal genetic and dietary metabolic health drivers and insulin resistance classifiers. <b>2022</b> , 14,	1
75	Lipoprofiling Assessed by NMR Spectroscopy in Patients with Acute Coronary Syndromes: Is There a Need for Fasting Prior to Sampling?. <b>2022</b> , 12, 1675	0
74	The metabolomic signature of weight loss in the Diabetes Remission Clinical Trial (DiRECT).	
73	Visceral adiposity is associated with metabolic profiles predictive of type 2 diabetes and myocardial infarction. <b>2022</b> , 2,	0
72	Circulating metabolites associated with incident myocardial infarction and stroke: A prospective cohort study of 90 438 participants.	
7 <sup>1</sup>	Lipoprotein Subclasses Independently Contribute to Subclinical Variance of Microvascular and Macrovascular Health. <b>2022</b> , 27, 4760	0
70	Accelerometer-Based Sedentary Time, Physical Activity, and Serum Metabolome in Young Men. <b>2022</b> , 12, 700	Ο
69	Metabolomic predictors of phenotypic traits can replace and complement measured clinical variables in population-scale expression profiling studies. <b>2022</b> , 23,	
68	1H NMR Metabolite Monitoring during the Differentiation of Human Induced Pluripotent Stem Cells Provides New Insights into the Molecular Events That Regulate Embryonic Chondrogenesis. <b>2022</b> , 23, 9266	1
67	Association of lipid profile with obesity among breast cancer survivors: a cross-sectional study. <b>2022</b> , 21,	0
66	Plasma metabolomic profiles of dementia: a prospective study of 110,655 participants in the UK Biobank. <b>2022</b> , 20,	O
65	Metabolomic and gut microbiome profiles across the spectrum of community-based COVID and non-COVID disease: A COVID-19 Biobank study.	
64	Relationships between lipid-related metabolites and age-related macular degeneration vary with complement genotype. <b>2022</b> , 100211	
63	Inflammatory Biomarkers in Elite Cross-Country Skiers After a Competition Season: A Caseffontrol Study.	0
62	Taurine promotes Oreochromis niloticus survival against Edwardsiella tarda infection. <b>2022</b> , 129, 137-144	O

61	The causal association of polyunsaturated fatty acids with allergic disease: A two-sample Mendelian randomization study. 9,	О
60	Circulating serum metabolites as predictors of dementia: a machine learning approach in a 21-year follow-up of the Whitehall II cohort study. <b>2022</b> , 20,	Ο
59	Metabolomic profiles predict individual multidisease outcomes.	2
58	Branched-chain amino acids linked to depression in young adults. 16,	1
57	Alterations of Renal Function in Patients with Diabetic Kidney Disease: A BOLD and DTI Study. <b>2022</b> , 2022, 1-11	O
56	Cross-sectional associations between cardiorespiratory fitness and NMR-derived metabolic biomarkers in children [the PANIC study. 13,	O
55	Bayesian dynamic network modelling: an application to metabolic associations in cardiovascular diseases. 1-25	1
54	Metabolic signature of the ganglion cellinner plexiform layer thickness and the risks of mortality and morbidity: a population-based study in UK Biobank.	O
53	Mediterranean diet related metabolite profiles and cognitive performance in a Greek population.	0
52	Metabolic Profiling of Pregnant Women with Obesity: An Exploratory Study in Women at Greater Risk of Gestational Diabetes. <b>2022</b> , 12, 922	O
51	Quantitative NMR Methods in Metabolomics. 2022,	О
50	Practical Aspects of NMR-Based Metabolomics. 2022,	Ο
49	Automated Segmented-Flow Analysis INMR with a Novel Fluoropolymer Flow Cell for High-Throughput Screening.	О
48	Systematic Review of NMR-Based Metabolomics Practices in Human Disease Research. <b>2022</b> , 12, 963	1
47	Association between NMR metabolomic signatures of healthy lifestyle and incident coronary artery disease.	O
46	Leptin increases hepatic triglyceride export via a vagal mechanism in humans. <b>2022</b> , 34, 1719-1731.e5	O
45	The Molecular Human 🖪 Roadmap of Molecular Interactions Linking Multiomics Networks with Disease Endpoints	0
44	Association of physical activity with metabolic profile from adolescence to adulthood.	O

43	Genetic mimicry analysis reveals the specific lipases targeted by the ANGPTL3/ANGPTL8 complex and ANGPTL4. <b>2022</b> , 100313	O
42	Inflammation proteomics datasets in the ALSPAC cohort. 7, 277	О
41	Adiposity and NMR-measured lipid and metabolic biomarkers among 30,000 Mexican adults. <b>2022</b> , 2,	0
40	Characterisation of fasting and postprandial NMR metabolites: insights from the ZOE PREDICT 1 Study.	o
39	Longitudinal associations between metabolites and long-term exposure to ambient air pollution: Results from the KORA cohort study. <b>2022</b> , 170, 107632	О
38	Increased maternal non-oxidative energy metabolism mediates association between prenatal di-(2-ethylhexyl) phthalate (DEHP) exposure and offspring autism spectrum disorder symptoms in early life: A birth cohort study. <b>2023</b> , 171, 107678	О
37	Plasma metabolomic profiling of dietary patterns associated with glucose metabolism status: The Maastricht Study. <b>2022</b> , 20,	О
36	Glycated Proteins, Glycine, Acetate, and Monounsaturated Fatty Acids May Act as New Biomarkers to Predict the Progression of Type 2 Diabetes: Secondary Analyses of a Randomized Controlled Trial. <b>2022</b> , 14, 5165	О
35	Maternal first trimester metabolic profile in pregnancies with transposition of the great arteries.	О
34	Mediterranean diet related metabolite profiles and cognitive performance. 2022,	O
33	Sex-Specific Associations of Red Meat and Processed Meat Consumption with Serum Metabolites in the UK Biobank. <b>2022</b> , 14, 5306	О
32	Evaluation of epigenetic and metabolomic biomarkers indicating biological age.	O
31	Glycoprotein Acetyls and Depression: testing for directionality and potential causality using longitudinal data and Mendelian randomization analyses.	О
30	Metabolic profiling of pregnancies complicated by preeclampsia: A longitudinal study.	O
29	Longitudinal perturbations of plasma nuclear magnetic resonance profiles in neonatal encephalopathy.	О
28	Cardiometabolic health improvements upon dietary intervention are driven by tissue-specific insulin resistance phenotype: A precision nutrition trial. <b>2023</b> , 35, 71-83.e5	o
27	Clarifying the biological and statistical assumptions of cross-sectional biological age predictors.	О
26	Elevated LDL Triglycerides and Atherosclerotic Risk. <b>2023</b> , 81, 136-152	1

25	Changes in Lipoprotein Particles in the Blood Serum of Patients with Lichen Planus. 2023, 13, 91	1
24	Quality control and removal of technical variation of NMR metabolic biomarker data in ~120,000 UK Biobank participants. <b>2023</b> , 10,	O
23	Normal range CAG repeat size variations in the HTT gene are associated with an adverse lipoprotein profile partially mediated by body mass index.	O
22	Effect of common pregnancy and perinatal complications on offspring metabolic traits across the life course: a multi-cohort study. <b>2023</b> , 21,	O
21	Cross-sectionally Calculated Metabolic Aging Does Not Relate to Longitudinal Metabolic ChangesBupport for Stratified Aging Models.	0
20	Comparison of Acute and Chronic Stage Ischemic Stroke Metabolome with Controls.	O
19	The metabolic differences of anestrus, heat, pregnancy, pseudopregnancy, and lactation in 800 female dogs. 10,	O
18	Atlas of plasma NMR biomarkers for health and disease in 118,461 individuals from the UK Biobank. <b>2023</b> , 14,	1
17	Metabolomic Investigation of Major Depressive Disorder Identifies a Potentially Causal Association With Polyunsaturated Fatty Acids. <b>2023</b> ,	0
16	Cross-sectional associations between physical fitness and biomarkers of inflammation in childrenThe PANIC study.	Ο
15	Metabolomics signatures of depression: the role of symptom profiles.	O
14	Alterations in circulating lipidomic profile in patients with type 2 diabetes with or without non-alcoholic fatty liver disease. 10,	Ο
13	Metabolic profiling of MRI -measured liver fat in the UK Biobank. 2023, 31, 1121-1132	1
12	Insulin Resistance Is Associated with an Unfavorable Serum Lipoprotein Lipid Profile in Women with Newly Diagnosed Gestational Diabetes. <b>2023</b> , 13, 470	O
11	Causal evidence for an ApoB-independent metabolomic risk profile associated with coronary artery disease.	О
10	Comparison of stability of Glycoprotein Acetyls and high sensitivity C-reactive protein as markers of chronic inflammation.	0
9	Sex-specific trajectories of molecular cardiometabolic traits from childhood to young adulthood. <b>2023</b> , 109, 674-685	0
8	Relationships between circulating metabolites and facial skin aging: a Mendelian randomization study. <b>2023</b> , 17,	O

7	Aberrations in the early pregnancy serum metabolic profile in women with prediabetes at two years postpartum. <b>2023</b> , 19,	О
6	Associations between dietary intake and glucose tolerance in clinical and metabolomics-based metabotypes. <b>2023</b> , 18,	O
5	Cardiovascular risk of metabolically healthy obesity in two european populations: Prevention potential from a metabolomic study. <b>2023</b> , 22,	0
4	Association of dietary patterns, circulating lipid profile, and risk of obesity.	O
3	Association between Nordic and Mediterranean diets with lipoprotein phenotype assessed BY 1H NMR in children with familial hypercholesterolemia. <b>2023</b> ,	O
2	Effects of Nightshift Work on Blood Metabolites in Female Nurses and Paramedic Staff: A Cross-sectional Study.	0
1	Glycoprotein acetyls and depression: Testing for directionality and potential causality using longitudinal data and Mendelian randomization analyses. <b>2023</b> ,	0