

# Metabolite profiles and the risk of developing diabetes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Integration of metabolomics in heart disease and diabetes research: current achievements and future outlook. <i>Bioanalysis</i> , 2011, 3, 2205-2222.	0.6	53
2	Sample preparation prior to the LC-MS-based metabolomics/metabonomics of blood-derived samples. <i>Bioanalysis</i> , 2011, 3, 1647-1661.	0.6	82
3	Metabolomics in Drug Target Discovery. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 235-246.	2.0	75
4	Amine Metabolomics of Hyperglycemic Endothelial Cells using Capillary LC-MS with Isobaric Tagging. <i>Journal of Proteome Research</i> , 2011, 10, 5242-5250.	1.8	115
5	The contrasting roles of PPAR $\alpha$ and PPAR $\beta$ in regulating the metabolic switch between oxidation and storage of fats in white adipose tissue. <i>Genome Biology</i> , 2011, 12, R75.	13.9	85
6	Branching Out for Detection of Type 2 Diabetes. <i>Cell Metabolism</i> , 2011, 13, 491-492.	7.2	24
7	Biomarkers for the Prediction of Type 2 Diabetes and Cardiovascular Disease. <i>Clinical Pharmacology and Therapeutics</i> , 2011, 90, 52-66.	2.3	148
8	Metabolomics Makes a Mark: Early Changes Associated With Autoimmune Diabetes. <i>Diabetes</i> , 2011, 60, 2688-2690.	0.3	10
10	Branched-chain amino acids, mitochondrial biogenesis, and healthspan: an evolutionary perspective. <i>Aging</i> , 2011, 3, 464-478.	1.4	166
11	Power of a Metabonomic Approach to Investigate an Unknown Nervous Disease. , 0, , .		1
12	Comparison of Accuracy of Diabetes Risk Score and Components of the Metabolic Syndrome in Assessing Risk of Incident Type 2 Diabetes in Inter99 Cohort. <i>PLoS ONE</i> , 2011, 6, e22863.	1.1	13
13	An amino acid profile to predict diabetes?. <i>Nature Medicine</i> , 2011, 17, 418-420.	15.2	34
14	What happens if you pose the wrong questions?. <i>Journal of Physiology</i> , 2011, 589, 4799-4801.	1.3	2
15	Circulating, Imaging, and Genetic Biomarkers in Cardiovascular Risk Prediction. <i>Trends in Cardiovascular Medicine</i> , 2011, 21, 105-112.	2.3	15
16	Resveratrol ameliorates metabolic disorders and muscle wasting in streptozotocin-induced diabetic rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E853-E863.	1.8	56
17	Emerging Applications of Metabolomic and Genomic Profiling in Diabetic Clinical Medicine. <i>Diabetes Care</i> , 2011, 34, 2624-2630.	4.3	41
18	Do we really know why diabetes remits after gastric bypass surgery?. <i>Endocrine</i> , 2011, 40, 162-167.	1.1	53
19	Separation strategies for untargeted metabolomics. <i>Journal of Separation Science</i> , 2011, 34, 3460-3469.	1.3	109

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20	Recent Highlights of Metabolomics in Cardiovascular Research. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 463-464.	5.1	8
21	Emerging Perspectives on Essential Amino Acid Metabolism in Obesity and the Insulin-Resistant State. <i>Advances in Nutrition</i> , 2011, 2, 445-456.	2.9	315
22	Insulin resistance due to nutrient excess. <i>Cell Cycle</i> , 2011, 10, 3447-3451.	1.3	80
23	Two Roads Diverge: Weight Loss Interventions and Circulating Amino Acids. <i>Science Translational Medicine</i> , 2011, 3, 80ps15.	5.8	7
24	Next-Generation Genome-Wide Association Studies. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 334-336.	5.1	38
25	Nutrition and metabolism - sphingolipids and branched chain amino acids. <i>Current Opinion in Lipidology</i> , 2011, 22, 503-504.	1.2	6
26	Metabolic Profiling of Diabetes: From Black-Box Epidemiology to Systems Epidemiology. <i>Clinical Chemistry</i> , 2011, 57, 1224-1226.	1.5	39
27	The metabolic footprint of aging in mice. <i>Scientific Reports</i> , 2011, 1, 134.	1.6	440
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31	Circulating Metabolite Predictors of Glycemia in Middle-Aged Men and Women. <i>Diabetes Care</i> , 2012, 35, 1749-1756.	4.3	184
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34	Metabolite Profiling Identifies Pathways Associated With Metabolic Risk in Humans. <i>Circulation</i> , 2012, 125, 2222-2231.	1.6	514
35	Criteria and markers for protein quality assessment – a review. <i>British Journal of Nutrition</i> , 2012, 108, S222-S229.	1.2	85
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39	Choline metabolism provides novel insights into nonalcoholic fatty liver disease and its progression. <i>Current Opinion in Gastroenterology</i> , 2012, 28, 159-165.	1.0	368
40	Novel Target Identification Technologies for the Personalised Therapy of Type II Diabetes and Obesity. <i>Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry</i> , 2012, 12, 183-207.	0.5	4
41	Metabolomic Profiling of Amino Acids and $\beta$ -Cell Function Relative to Insulin Sensitivity in Youth. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012, 97, E2119-E2124.	1.8	68
42	Banting Lecture 2011. <i>Diabetes</i> , 2012, 61, 4-13.	0.3	247
43	Structural and Biochemical Characterization of Human Mitochondrial Branched-chain $\alpha$ -Ketoacid Dehydrogenase Phosphatase. <i>Journal of Biological Chemistry</i> , 2012, 287, 9178-9192.	1.6	19
44	The human circadian metabolome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2625-2629.	3.3	515
45	Hypothalamic Leucine Metabolism Regulates Liver Glucose Production. <i>Diabetes</i> , 2012, 61, 85-93.	0.3	59
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47	Biomarkers intersect with the exposome. <i>Biomarkers</i> , 2012, 17, 483-489.	0.9	101
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54	Enabling biomarkers for tuberculosis control [State of the Art Series. New tools. Number 3 in the series]. <i>International Journal of Tuberculosis and Lung Disease</i> , 2012, 16, 1140-1148.	0.6	50
55	Science of bariatric surgery in focus. <i>Diabetes Management</i> , 2012, 2, 9-12.	0.5	0
56	Improved insulin sensitivity after treatment with PPAR $\alpha$ and PPAR $\gamma$ ligands is mediated by genetically modulated transcripts. <i>Pharmacogenetics and Genomics</i> , 2012, 22, 484-497.	0.7	24

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57	Insulinotropic and Muscle Protein Synthetic Effects of Branched-Chain Amino Acids: Potential Therapy for Type 2 Diabetes and Sarcopenia. <i>Nutrients</i> , 2012, 4, 1664-1678.	1.7	58
58	Serum Glycerophosphate Levels are Increased in Japanese Men with Type 2 Diabetes. <i>Internal Medicine</i> , 2012, 51, 545-551.	0.3	8
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60	Coupling nutrient sensing to metabolic homeostasis: the role of the mammalian target of rapamycin complex 1 pathway. <i>Proceedings of the Nutrition Society</i> , 2012, 71, 502-510.	0.4	37
61	Scientific Opinion on Dietary Reference Values for protein. <i>EFSA Journal</i> , 2012, 10, 2557.	0.9	314
62	Metabolic Signature of CKD: The Search Continues. <i>American Journal of Kidney Diseases</i> , 2012, 60, 173-175.	2.1	5
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66	The dynamic range of the human metabolome revealed by challenges. <i>FASEB Journal</i> , 2012, 26, 2607-2619.	0.2	268
67	The Current Status of Metabolomics in Drug Discovery and Development. <i>Drug Development Research</i> , 2012, 73, 535-546.	1.4	9
68	Interplay between Lipids and Branched-Chain Amino Acids in Development of Insulin Resistance. <i>Cell Metabolism</i> , 2012, 15, 606-614.	7.2	861
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71	Perspectives on Systems Biology Applications in Diabetic Kidney Disease. <i>Journal of Cardiovascular Translational Research</i> , 2012, 5, 491-508.	1.1	33
72	Beneficial effect of branched-chain amino acid supplementation on glycemic control in chronic hepatitis C patients with insulin resistance: Implications for type 2 diabetes. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 1388-1394.	1.5	33
73	Oncosecretomics coupled to bioenergetics identifies $\beta$ -amino adipic acid, isoleucine and GABA as potential biomarkers of cancer: Differential expression of c-Myc, Oct1 and KLF4 coordinates metabolic changes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 2060-2071.	0.5	34
74	Diving Through the "Omics": The Case for Deep Phenotyping and Systems Epidemiology. <i>OMICS A Journal of Integrative Biology</i> , 2012, 16, 231-234.	1.0	52

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77	Short-Term Changes of the Urine Metabolome After Bariatric Surgery. <i>OMICS A Journal of Integrative Biology</i> , 2012, 16, 612-620.	1.0	30
78	Bayesian Independent Component Analysis Recovers Pathway Signatures from Blood Metabolomics Data. <i>Journal of Proteome Research</i> , 2012, 11, 4120-4131.	1.8	24
79	Metabolic Diversity of Progressive Kidney Disease in 325 Patients with Type 1 Diabetes (the FinnDiane) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	68
80	Metabolomic Profiling for the Identification of Novel Biomarkers and Mechanisms Related to Common Cardiovascular Diseases. <i>Circulation</i> , 2012, 126, 1110-1120.	1.6	312
81	Metabolic consequences of mitochondrial coenzyme A deficiency in patients with PANK2 mutations. <i>Molecular Genetics and Metabolism</i> , 2012, 105, 463-471.	0.5	106
82	Reactive oxygen and nitrogen species generation, antioxidant defenses, and $\beta$ -cell function: a critical role for amino acids. <i>Journal of Endocrinology</i> , 2012, 214, 11-20.	1.2	129
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84	Role and function of macrophages in the metabolic syndrome. <i>Biochemical Journal</i> , 2012, 442, 253-262.	1.7	93
85	Metabolomics and Cardiovascular Biomarker Discovery. <i>Clinical Chemistry</i> , 2012, 58, 139-147.	1.5	190
86	Genome-wide association study identifies multiple loci influencing human serum metabolite levels. <i>Nature Genetics</i> , 2012, 44, 269-276.	9.4	516
87	Nutritional Metabolomics: Progress in Addressing Complexity in Diet and Health. <i>Annual Review of Nutrition</i> , 2012, 32, 183-202.	4.3	226
88	Metabolomic analysis to discover candidate therapeutic agents against acute pancreatitis. <i>Archives of Biochemistry and Biophysics</i> , 2012, 522, 107-120.	1.4	22
89	A network-based feature selection approach to identify metabolic signatures in disease. <i>Journal of Theoretical Biology</i> , 2012, 310, 216-222.	0.8	13
90	LC-MS-based metabolomics in the clinical laboratory. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 883-884, 68-75.	1.2	121
91	Metabolic Disease Drug Discovery” “Hitting the Target” Is Easier Said Than Done. <i>Cell Metabolism</i> , 2012, 15, 19-24.	7.2	35
92	Insulin Resistance in the Defense against Obesity. <i>Cell Metabolism</i> , 2012, 15, 798-804.	7.2	90

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93	A Systems Genetics Approach Identifies Genes and Pathways for Type 2 Diabetes in Human Islets. <i>Cell Metabolism</i> , 2012, 16, 122-134.	7.2	323
94	Metabolomic biomarkers of impaired glucose tolerance and type 2 diabetes mellitus with a potential for risk stratification in women with polycystic ovary syndrome. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2012, 160, 121-130.	0.5	17
95	Gut feelings about diabetes. <i>Endocrinología Y Nutrición (English Edition)</i> , 2012, 59, 254-260.	0.5	15
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104	Gut feelings about diabetes. <i>Endocrinología Y Nutrición: Organo De La Sociedad Espanola De Endocrinología Y Nutricion</i> , 2012, 59, 254-260.	0.8	15
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106	Metabolic master regulators: sharing information among multiple systems. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 594-601.	3.1	34
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109	Maximizing the value of metabolomic data. <i>Bioanalysis</i> , 2012, 4, 2199-2201.	0.6	11
110	Investigating the pathogenesis and risk of Type 2 diabetes: clinical applications of metabolomics. <i>Clinical Lipidology</i> , 2012, 7, 641-659.	0.4	11

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112	Metabolomics Reveals Amino Acids Contribute to Variation in Response to Simvastatin Treatment. <i>PLoS ONE</i> , 2012, 7, e38386.	1.1	90
113	The relationship between BMI and metabolomic profiles: a focus on amino acids. <i>Proceedings of the Nutrition Society</i> , 2012, 71, 634-638.	0.4	68
114	Novel biomarkers for pre-diabetes identified by metabolomics. <i>Molecular Systems Biology</i> , 2012, 8, 615.	3.2	605
115	Metabolomic analysis of rat serum in streptozotocin-induced diabetes and after treatment with oral triethylenetetramine (TETA). <i>Genome Medicine</i> , 2012, 4, 35.	3.6	49
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120	Metabolic profiles characterizing different phenotypes of polycystic ovary syndrome: plasma metabolomics analysis. <i>BMC Medicine</i> , 2012, 10, 153.	2.3	168
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122	Metabolomics in the Studies of Islet Autoimmunity and Type 1 Diabetes. <i>Review of Diabetic Studies</i> , 2012, 9, 236-247.	0.5	22
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124	T cell metabolism in autoimmune diseases. , 0, , .		3
125	Biomarkers and Cardiovascular Risk Assessment for Primary Prevention: An Update. <i>Clinical Chemistry</i> , 2012, 58, 72-82.	1.5	88
126	Metabolomics: the apogee of the omics trilogy. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 263-269.	16.1	1,931
127	Top Advances in Functional Genomics and Translational Biology for 2011. <i>Circulation: Cardiovascular Genetics</i> , 2012, 5, 143-145.	5.1	1
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130	Genomic medicine in the prevention and treatment of atherosclerotic cardiovascular disease. <i>Personalized Medicine</i> , 2012, 9, 395-404.	0.8	3
133	Insulin resistance and the metabolism of branched-chain amino acids in humans. <i>Amino Acids</i> , 2012, 43, 171-181.	1.2	137
134	Amino Acids Potentiate Insulin Signaling in CHO-K1 at High Glucose Conditions. <i>Archives of Medical Research</i> , 2012, 43, 173-182.	1.5	6
135	Plasma amino acid profile is associated with visceral fat accumulation in obese Japanese subjects. <i>Clinical Obesity</i> , 2012, 2, 29-40.	1.1	94
136	The role of metabolomics in neurological disease. <i>Journal of Neuroimmunology</i> , 2012, 248, 48-52.	1.1	41
137	Metabolite profiling as a future tool in the prediction of type 2 diabetes mellitus*. <i>Clinical Endocrinology</i> , 2012, 76, 615-616.	1.2	2
138	Effects of oestrogen and testosterone therapy on serum metabolites in postmenopausal women. <i>Clinical Endocrinology</i> , 2012, 77, 288-295.	1.2	9
139	Omics-driven discoveries in prevention and treatment of type 2 diabetes. <i>European Journal of Clinical Investigation</i> , 2012, 42, 579-588.	1.7	15
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143	Quantitative determination of taurine and related biomarkers in urine by liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 763-770.	1.9	50
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147	Metabolite Profiles During Oral Glucose Challenge. <i>Diabetes</i> , 2013, 62, 2689-2698.	0.3	127
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168	Polar lipid derangements in type 2 diabetes mellitus: potential pathological relevance of fatty acyl heterogeneity in sphingolipids. <i>Metabolomics</i> , 2013, 9, 786-799.	1.4	23
169	Nearline acquisition and processing of liquid chromatography-tandem mass spectrometry data. <i>Metabolomics</i> , 2013, 9, 84-91.	1.4	35
170	Interactive network analysis of the plasma amino acids profile in a mouse model of hyperglycemia. <i>SpringerPlus</i> , 2013, 2, 287.	1.2	5
171	Association between protein signals and type 2 diabetes incidence. <i>Acta Diabetologica</i> , 2013, 50, 697-704.	1.2	9
172	Physiology and Physiopathology of Adipose Tissue. , 2013, , .		6
174	Metabolomics and proteomics approaches to characterize and assess proteins of bear bile powder for hepatitis C virus. <i>Chinese Journal of Natural Medicines</i> , 2013, 11, 653-665.	0.7	9
175	Comparative Nontargeted Profiling of Metabolic Changes in Tissues and Biofluids in High-Fat Diet-Fed Ossabaw Pig. <i>Journal of Proteome Research</i> , 2013, 12, 3980-3992.	1.8	31
176	Predicting phenotypic variation from genotypes, phenotypes and a combination of the two. <i>Current Opinion in Biotechnology</i> , 2013, 24, 803-809.	3.3	21
177	Obesity and diabetes related plasma amino acid alterations. <i>Clinical Biochemistry</i> , 2013, 46, 1447-1452.	0.8	89
178	Systems Epidemiology: A New Direction in Nutrition and Metabolic Disease Research. <i>Current Nutrition Reports</i> , 2013, 2, 225-235.	2.1	43
179	Analysis of serum metabolites for the discovery of amino acid biomarkers and the effect of galangin on cerebral ischemia. <i>Molecular BioSystems</i> , 2013, 9, 2311.	2.9	36
180	Genetic Variants Associated With Glycine Metabolism and Their Role in Insulin Sensitivity and Type 2 Diabetes. <i>Diabetes</i> , 2013, 62, 2141-2150.	0.3	70
181	Metabolomic analysis of pancreatic beta cells following exposure to high glucose. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2583-2590.	1.1	26
182	Liquid Chromatography Coupled to Mass Spectrometry-Based Metabolomics and the Concept of Biomarker. <i>Advances in Botanical Research</i> , 2013, 67, 159-218.	0.5	6
183	Development of a Standard Reference Material for Metabolomics Research. <i>Analytical Chemistry</i> , 2013, 85, 11732-11738.	3.2	95
184	A Novel Fasting Blood Test for Insulin Resistance and Prediabetes. <i>Journal of Diabetes Science and Technology</i> , 2013, 7, 100-110.	1.3	77
185	Metabolomics and Transcriptomics of Metabolic Disorders. <i>Current Nutrition Reports</i> , 2013, 2, 199-206.	2.1	2

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186	The metabolic signature associated with the Western dietary pattern: a cross-sectional study. <i>Nutrition Journal</i> , 2013, 12, 158.	1.5	76
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1161	Serum metabolite profile associated with incident type 2 diabetes in Koreans: findings from the Korean Genome and Epidemiology Study. <i>Scientific Reports</i> , 2018, 8, 8207.	1.6	48
1162	Association of branched chain amino acids related variant rs1440581 with risk of incident diabetes and longitudinal changes in insulin resistance in Chinese. <i>Acta Diabetologica</i> , 2018, 55, 901-908.	1.2	8
1163	A targeted metabolomic procedure for amino acid analysis in different biological specimens by ultra-high-performance liquid chromatography-tandem mass spectrometry. <i>Metabolomics</i> , 2018, 14, 76.	1.4	30
1164	Higher Concentrations of BCAAs and 3-HIB Are Associated with Insulin Resistance in the Transition from Gestational Diabetes to Type 2 Diabetes. <i>Journal of Diabetes Research</i> , 2018, 2018, 1-12.	1.0	38
1165	Reducing impacts of organism variability in metabolomics via time trajectory in vivo NMR. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1117-1123.	1.1	32
1166	Acylcarnitine Profiles in Plasma and Tissues of Hyperglycemic NZO Mice Correlate with Metabolite Changes of Human Diabetes. <i>Journal of Diabetes Research</i> , 2018, 2018, 1-9.	1.0	4
1167	Dietary Intakes and Circulating Concentrations of Branched-Chain Amino Acids in Relation to Incident Type 2 Diabetes Risk Among High-Risk Women with a History of Gestational Diabetes Mellitus. <i>Clinical Chemistry</i> , 2018, 64, 1203-1210.	1.5	64
1168	Amino acids – lifesaver or killer in patients with diabetes?. <i>Nature Reviews Endocrinology</i> , 2018, 14, 449-451.	4.3	12
1169	Simultaneous quantification of straight-chain and branched-chain short chain fatty acids by gas chromatography mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1092, 359-367.	1.2	51
1170	Time course metabolome of Roux-en-Y gastric bypass confirms correlation between leptin, body weight and the microbiome. <i>PLoS ONE</i> , 2018, 13, e0198156.	1.1	15
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1173	Complementary intestinal mucosa and microbiota responses to caloric restriction. <i>Scientific Reports</i> , 2018, 8, 11338.	1.6	37
1174	The serum metabolomics signature of type 2 diabetes is obscured in Alzheimer's disease. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E584-E596.	1.8	10
1175	Food withdrawal alters the gut microbiota and metabolome in mice. <i>FASEB Journal</i> , 2018, 32, 4878-4888.	0.2	34
1176	Gut microbiota and serum metabolite differences in African Americans and White Americans with high blood pressure. <i>International Journal of Cardiology</i> , 2018, 271, 336-339.	0.8	47
1177	Glucose promotes cell growth by suppressing branched-chain amino acid degradation. <i>Nature Communications</i> , 2018, 9, 2935.	5.8	115

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1179	Interorgan Metabolic Crosstalk in Human Insulin Resistance. <i>Physiological Reviews</i> , 2018, 98, 1371-1415.	13.1	138
1180	Progress in Metabonomics of Type 2 Diabetes Mellitus. <i>Molecules</i> , 2018, 23, 1834.	1.7	44
1181	Regulation of Metabolic Disease-Associated Inflammation by Nutrient Sensors. <i>Mediators of Inflammation</i> , 2018, 2018, 1-18.	1.4	26
1182	Circulating Branched-Chain Amino Acids and Incident Cardiovascular Disease in a Prospective Cohort of US Women. <i>Circulation Genomic and Precision Medicine</i> , 2018, 11, e002157.	1.6	145
1183	Pioglitazone improves hepatic mitochondrial function in a mouse model of nonalcoholic steatohepatitis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E163-E173.	1.8	50
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1185	Role of dietary histidine in the prevention of obesity and metabolic syndrome. <i>Open Heart</i> , 2018, 5, e000676.	0.9	35
1186	Association between dietary protein intake and type 2 diabetes varies by dietary pattern. <i>Diabetology and Metabolic Syndrome</i> , 2018, 10, 48.	1.2	28
1187	Branched Chain Amino Acids: Beyond Nutrition Metabolism. <i>International Journal of Molecular Sciences</i> , 2018, 19, 954.	1.8	413
1188	Dietary Leucine Supplement Ameliorates Hepatic Steatosis and Diabetic Nephropathy in db/db Mice. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1921.	1.8	14
1189	The Effect of Lean-Seafood and Non-Seafood Diets on Fasting and Postprandial Serum Metabolites and Lipid Species: Results from a Randomized Crossover Intervention Study in Healthy Adults. <i>Nutrients</i> , 2018, 10, 598.	1.7	27
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1191	Comparison of metabolite networks from four German population-based studies. <i>International Journal of Epidemiology</i> , 2018, 47, 2070-2081.	0.9	9
1192	Metabolomics approach by <sup>1</sup> H NMR spectroscopy of serum reveals progression axes for asymptomatic hyperuricemia and gout. <i>Arthritis Research and Therapy</i> , 2018, 20, 111.	1.6	53
1193	Hepatic steatosis risk is partly driven by increased de novo lipogenesis following carbohydrate consumption. <i>Genome Biology</i> , 2018, 19, 79.	3.8	83
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1195	Branched-chain amino acids in health and disease: metabolism, alterations in blood plasma, and as supplements. <i>Nutrition and Metabolism</i> , 2018, 15, 33.	1.3	429

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1197	Metabolomics-Based Clinical Efficacy and Effect on the Endogenous Metabolites of Tangzhiqing Tablet, a Chinese Patent Medicine for Type 2 Diabetes Mellitus with Hypertriglyceridemia. <i>Evidence-based Complementary and Alternative Medicine</i> , 2018, 2018, 1-11.	0.5	16
1198	XCMS-MRM and METLIN-MRM: a cloud library and public resource for targeted analysis of small molecules. <i>Nature Methods</i> , 2018, 15, 681-684.	9.0	112
1199	Implication of gut microbiota metabolites in cardiovascular and metabolic diseases. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3977-3990.	2.4	127
1200	Increases in bioactive lipids accompany early metabolic changes associated with $\beta$ -cell expansion in response to short-term high-fat diet. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1251-E1263.	1.8	5
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1202	Branched Chain Amino Acids in Metabolic Disease. <i>Current Diabetes Reports</i> , 2018, 18, 76.	1.7	126
1203	Metabolic Effects of Betaine: A Randomized Clinical Trial of Betaine Supplementation in Prediabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3038-3049.	1.8	30
1204	Altered Asparagine and Glutamate Homeostasis Precede Coronary Artery Disease and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 3060-3069.	1.8	71
1205	$\beta$ -Hydroxy- $\beta$ -methylbutyrate modulates lipid metabolism in adipose tissues of growing pigs. <i>Food and Function</i> , 2018, 9, 4836-4846.	2.1	21
1206	Interventional left atrial appendage closure may affect metabolism of essential amino acids and bioenergetic efficacy. <i>International Journal of Cardiology</i> , 2018, 268, 125-131.	0.8	7
1207	Association of circulating metabolites with healthy diet and risk of cardiovascular disease: analysis of two cohort studies. <i>Scientific Reports</i> , 2018, 8, 8620.	1.6	61
1208	A collective diabetes cross in combination with a computational framework to dissect the genetics of human obesity and Type 2 diabetes. <i>Human Molecular Genetics</i> , 2018, 27, 3099-3112.	1.4	21
1209	Genomic insights into the causes of type 2 diabetes. <i>Lancet, The</i> , 2018, 391, 2463-2474.	6.3	110
1210	Dietary Patterns among Asian Indians Living in the United States Have Distinct Metabolomic Profiles That Are Associated with Cardiometabolic Risk. <i>Journal of Nutrition</i> , 2018, 148, 1150-1159.	1.3	29
1211	A Framework for Uncovering the Roles of Calories and Macronutrients in Health and Aging. , 2018, , 93-108.		0
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1217	Applying Precision Medicine to Healthy Living for the Prevention and Treatment of Cardiovascular Disease. <i>Current Problems in Cardiology</i> , 2018, 43, 448-483.	1.1	27
1218	Alterations in plasma acylcarnitine and amino acid profiles may indicate poor nutrition during the suckling period due to maternal intake of an unbalanced diet and may predict later metabolic dysfunction. <i>FASEB Journal</i> , 2019, 33, 796-807.	0.2	8
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1220	Metabolic perturbations of post-load hyperglycemia vs. fasting hyperglycemia. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 216-221.	2.8	1
1221	Dietary protein intake and risk of type 2 diabetes: a doseâ€“response meta-analysis of prospective studies. <i>European Journal of Nutrition</i> , 2019, 58, 1351-1367.	1.8	45
1222	Exploration of predictive metabolic factors for gestational diabetes mellitus in Japanese women using metabolomic analysis. <i>Journal of Diabetes Investigation</i> , 2019, 10, 513-520.	1.1	14
1223	Regulation of metabolic health by essential dietary amino acids. <i>Mechanisms of Ageing and Development</i> , 2019, 177, 186-200.	2.2	75
1224	Plasma tyrosine and its interaction with low highâ€“density lipoprotein cholesterol and the risk of type 2 diabetes mellitus in Chinese. <i>Journal of Diabetes Investigation</i> , 2019, 10, 491-498.	1.1	29
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1226	Application of Metabolomics to Epidemiological Studies of Atherosclerosis and Cardiovascular Disease. <i>Journal of Atherosclerosis and Thrombosis</i> , 2019, 26, 747-757.	0.9	55
1227	Associations among amino acid, lipid, and glucose metabolic profiles in childhood obesity. <i>BMC Pediatrics</i> , 2019, 19, 273.	0.7	34
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1237	Emerging molecular techniques for studying microbial community composition and function in microbiologically influenced corrosion. <i>International Biodeterioration and Biodegradation</i> , 2019, 144, 104722.	1.9	15
1238	Traditional Chinese Medicine-Based Subtyping of Early-Stage Type 2 Diabetes Using Plasma Metabolomics Combined with Ultra-Weak Photon Emission. <i>Engineering</i> , 2019, 5, 916-923.	3.2	9
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1242	Metabolomics and phenotype assessment reveal cellular toxicity of triclosan in <i>Caenorhabditis elegans</i> . <i>Chemosphere</i> , 2019, 236, 124306.	4.2	28
1243	A high protein meal affects plasma insulin concentrations and amino acid metabolism in horses with equine metabolic syndrome. <i>Veterinary Journal</i> , 2019, 251, 105341.	0.6	8
1244	Utility of Raman spectroscopy in diabetes detection based on biomarker Raman bands and in antidiabetic efficacy studies of herbal extract <i>Rothea myricoides</i> Hochst. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1358-1366.	1.2	7
1245	The bidirectional relationship between host physiology and microbiota and health benefits of probiotics: A review. <i>Trends in Food Science and Technology</i> , 2019, 91, 426-435.	7.8	33
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1248	Intra- and inter-individual metabolic profiling highlights carnitine and lysophosphatidylcholine pathways as key molecular defects in type 2 diabetes. <i>Scientific Reports</i> , 2019, 9, 9653.	1.6	32
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1251	Insulin Resistance during normal child growth and development is associated with a distinct blood metabolic phenotype (Earlybird 72). <i>Pediatric Diabetes</i> , 2019, 20, 832-841.	1.2	22
1252	Metabolomics in plasma of Malawian children 7 years after surviving severe acute malnutrition: a ChroSAM cohort study. <i>EBioMedicine</i> , 2019, 45, 464-472.	2.7	17
1253	<sup>1</sup> H Nuclear Magnetic Resonance (NMR)-Based Cerebrospinal Fluid and Plasma Metabolomic Analysis in Type 2 Diabetic Patients and Risk Prediction for Diabetic Microangiopathy. <i>Journal of Clinical Medicine</i> , 2019, 8, 874.	1.0	27
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1255	Changes in whole metabolites after exenatide treatment in overweight/obese polycystic ovary syndrome patients. <i>Clinical Endocrinology</i> , 2019, 91, 508-516.	1.2	25
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1260	Metabolite Profiles of Incident Diabetes and Heterogeneity of Treatment Effect in the Diabetes Prevention Program. <i>Diabetes</i> , 2019, 68, 2337-2349.	0.3	22
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1262	Adipsin preserves beta cells in diabetic mice and associates with protection from type 2 diabetes in humans. <i>Nature Medicine</i> , 2019, 25, 1739-1747.	15.2	100
1263	Lower Circulating Branched-Chain Amino Acid Concentrations Among Vegetarians are Associated with Changes in Gut Microbial Composition and Function. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900612.	1.5	29
1264	Prediction of disease-related metabolites using bi-random walks. <i>PLoS ONE</i> , 2019, 14, e0225380.	1.1	15
1265	Type-2-Diabetes Alters CSF but Not Plasma Metabolomic and AD Risk Profiles in Vervet Monkeys. <i>Frontiers in Neuroscience</i> , 2019, 13, 843.	1.4	17
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1272	Metabolomics and Lipidomics Profiling Reveals Hypocholesterolemic and Hypolipidemic Effects of Arabinoxylan on Type 2 Diabetic Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 10614-10623.	2.4	43
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1277	Purine Metabolites and Carnitine Biosynthesis Intermediates Are Biomarkers for Incident Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 4921-4930.	1.8	35
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1292	Microbiome Alteration in Type 2 Diabetes Mellitus Model of Zebrafish. <i>Scientific Reports</i> , 2019, 9, 867.	1.6	30
1293	Metabolic Signature Differentiated Diabetes Mellitus from Lipid Disorder in Elderly Taiwanese. <i>Journal of Clinical Medicine</i> , 2019, 8, 13.	1.0	10
1294	Raman spectral signatures of urinary extracellular vesicles from diabetic patients and hyperglycemic endothelial cells as potential biomarkers in diabetes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 137-149.	1.7	21
1295	Associations Between Dietary Protein Sources, Plasma BCAA and Short-Chain Acylcarnitine Levels in Adults. <i>Nutrients</i> , 2019, 11, 173.	1.7	47
1296	Genetic basis for plasma amino acid concentrations based on absolute quantification: a genome-wide association study in the Japanese population. <i>European Journal of Human Genetics</i> , 2019, 27, 621-630.	1.4	16
1297	Maternal triacylglycerol signature and risk of food allergy in offspring. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 729-737.	1.5	12
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1299	Obesity Alters the Muscle Protein Synthetic Response to Nutrition and Exercise. <i>Frontiers in Nutrition</i> , 2019, 6, 87.	1.6	51
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1303	Effect of Obesity and Exercise Training on Plasma Amino Acids and Amino Metabolites in American Indian Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 3249-3261.	1.8	49



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1442	Machine Learning Approaches Reveal Metabolic Signatures of Incident Chronic Kidney Disease in Individuals With Prediabetes and Type 2 Diabetes. <i>Diabetes</i> , 2020, 69, 2756-2765.	0.3	33
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1444	The Role of the Gut Microbiota in Coronary Heart Disease. <i>Current Atherosclerosis Reports</i> , 2020, 22, 77.	2.0	40
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1496	The metabolic footprint of compromised insulin sensitivity under fasting and hyperinsulinemic-euglycemic clamp conditions in an Arab population. <i>Scientific Reports</i> , 2020, 10, 17164.	1.6	5
1497	Associations between outdoor temperature and bright sunlight with metabolites in two population-based European cohorts. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2020, 30, 2252-2261.	1.1	4
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1538	Integrating untargeted metabolomics, genetically informed causal inference, and pathway enrichment to define the obesity metabolome. <i>International Journal of Obesity</i> , 2020, 44, 1596-1606.	1.6	12
1539	Metabolic signatures associated with Western and Prudent dietary patterns in women. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 268-283.	2.2	18
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1545	Precision Nutrition and Childhood Obesity: A Scoping Review. <i>Metabolites</i> , 2020, 10, 235.	1.3	10
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1553	Metabolomic Response of Equine Skeletal Muscle to Acute Fatiguing Exercise and Training. <i>Frontiers in Physiology</i> , 2020, 11, 110.	1.3	21
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1557	Gut Microbiome Profiles Are Associated With Type 2 Diabetes in Urban Africans. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 63.	1.8	95
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1561	Omics Biomarkers in Obesity: Novel Etiological Insights and Targets for Precision Prevention. <i>Current Obesity Reports</i> , 2020, 9, 219-230.	3.5	31
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1566	Title: Human Serum/Plasma Glycoprotein Analysis by 1H-NMR, an Emerging Method of Inflammatory Assessment. <i>Journal of Clinical Medicine</i> , 2020, 9, 354.	1.0	57
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1579	Integration of epidemiologic, pharmacologic, genetic and gut microbiome data in a drugâ€™ metabolite atlas. <i>Nature Medicine</i> , 2020, 26, 110-117.	15.2	54
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1586	The Gut Microbiome and Type 2 Diabetes Mellitus: Discussing A Complex Relationship. <i>Biomedicines</i> , 2020, 8, 8.	1.4	106
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1612	Branched-chain amino acid metabolism, insulin sensitivity and liver fat response to exercise training in sedentary dysglycaemic and normoglycaemic men. Diabetologia, 2021, 64, 410-423.	2.9	30

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1614	Integrated omics analysis reveals the alteration of gut microbiome metabolites in obese adults. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	35
1615	Metabolomic basis for response to high dose vitamin D in critical illness. <i>Clinical Nutrition</i> , 2021, 40, 2053-2060.	2.3	22
1616	Dietary intake of branched-chain amino acids and colorectal cancer risk. <i>British Journal of Nutrition</i> , 2021, 126, 22-27.	1.2	16
1617	Dietary pattern, colonic microbiota and immunometabolism interaction: new frontiers for diabetes mellitus and related disorders. <i>Diabetic Medicine</i> , 2021, 38, e14415.	1.2	34
1618	Regulation of maternal fetal metabolic communication. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 1455-1486.	2.4	38
1619	Elevated Plasma Branched-Chain Amino Acid Levels Correlate With Type 2 Diabetes-Related Metabolic Disturbances. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e1827-e1836.	1.8	28
1620	A branched-chain amino acid-based metabolic score can predict liver fat in children and adolescents with severe obesity. <i>Pediatric Obesity</i> , 2021, 16, e12739.	1.4	24
1621	Metabolomics in chronic pain research. <i>European Journal of Pain</i> , 2021, 25, 313-326.	1.4	24
1622	Amino Acid Sensing in Metabolic Homeostasis and Health. <i>Endocrine Reviews</i> , 2021, 42, 56-76.	8.9	48
1623	Metabolic dysfunction in pregnancy: Fingerprinting the maternal metabolome using proton nuclear magnetic resonance spectroscopy. <i>Endocrinology, Diabetes and Metabolism</i> , 2021, 4, e00201.	1.0	10
1624	Association of Circulating Metabolites in Plasma or Serum and Risk of Stroke. <i>Neurology</i> , 2021, 96, .	1.5	24
1625	Choline Metabolism and Risk of Atrial Fibrillation and Heart Failure in the PREDIMED Study. <i>Clinical Chemistry</i> , 2021, 67, 288-297.	1.5	31
1626	Towards resolving the enigma of the dichotomy of resveratrol: cis- and trans-resveratrol have opposite effects on TyrRS-regulated PARP1 activation. <i>GeroScience</i> , 2021, 43, 1171-1200.	2.1	18
1627	The nuclear magnetic resonance metabolic profile: Impact of fasting status. <i>Clinical Biochemistry</i> , 2021, 87, 85-92.	0.8	2
1628	A simultaneous exploratory and quantitative amino acid and biogenic amine metabolic profiling platform for rapid disease phenotyping via UPLC-QToF-MS. <i>Talanta</i> , 2021, 223, 121872.	2.9	23
1629	Metabolite Triplet in Serum Improves the Diagnostic Accuracy of Prediabetes and Diabetes Screening. <i>Journal of Proteome Research</i> , 2021, 20, 1005-1014.	1.8	5
1630	Dietary intake of branched-chain amino acids and survival after colorectal cancer diagnosis. <i>International Journal of Cancer</i> , 2021, 148, 2471-2480.	2.3	9

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1634	Metabolomic Analysis of the Improvements in Insulin Secretion and Resistance After Sleeve Gastrectomy: Implications of the Novel Biomarkers. <i>Obesity Surgery</i> , 2021, 31, 43-52.	1.1	13
1635	Gut microbiota in human metabolic health and disease. <i>Nature Reviews Microbiology</i> , 2021, 19, 55-71.	13.6	1,960
1636	Preanalytical Sample Handling Conditions and Their Effects on the Human Serum Metabolome in Epidemiologic Studies. <i>American Journal of Epidemiology</i> , 2021, 190, 459-467.	1.6	7
1638	Effects of Chronic Photobiomodulation with Transcranial Near-Infrared Laser on Brain Metabolomics of Young and Aged Rats. <i>Molecular Neurobiology</i> , 2021, 58, 2256-2268.	1.9	14
1639	Deep learning magnetic resonance spectroscopy fingerprints of brain tumours using quantum mechanically synthesised data. <i>NMR in Biomedicine</i> , 2021, 34, e4479.	1.6	7
1640	Assessing Amino Acid Concentration Changes as a Result of Drug Dosing and Cytochrome P450 and Non-cytochrome P450-Mediated Metabolism. <i>Methods in Pharmacology and Toxicology</i> , 2021, , 359-370.	0.1	0
1641	Metabolic features of adiposity and glucose homeostasis among school-aged inuit children from Nunavik (Northern Quebec, Canada). <i>International Journal of Circumpolar Health</i> , 2021, 80, 1858605.	0.5	3
1642	Electrochemiluminescent chiral discrimination with chiral Ag <sub>2</sub> S quantum dots/few-layer carbon nitride nanosheets. <i>Analyst</i> , 2021, 146, 6245-6251.	1.7	8
1643	Mass Spectrometry-based Metabolomics in Translational Research. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1310, 509-531.	0.8	16
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1647	Advanced Metabolomics for Metabolic Syndrome/Metabolic Diseases. , 2021, , 593-609.		0
1648	Whole-body metabolic fate of branched-chain amino acids. <i>Biochemical Journal</i> , 2021, 478, 765-776.	1.7	13
1650	Serum Metabolomics Study of Papillary Thyroid Carcinoma Based on HPLC-Q-TOF-MS/MS. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 593510.	1.8	35
1651	Metabolites and diabetes remission after weight loss. <i>Nutrition and Diabetes</i> , 2021, 11, 10.	1.5	17
1652	The Fecal Microbiota Is Already Altered in Normoglycemic Individuals Who Go on to Have Type 2 Diabetes. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 598672.	1.8	23

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1654	Development of Precolumn Derivatization LC/MS for Amino-Acid-Focused Metabolomics. <i>Chromatography</i> , 2021, 42, 17-27.	0.8	9
1655	METABOLOMIC APPROACHES IN STUDYING OF CARDIOVASCULAR DISEASES. <i>Eurasian Heart Journal</i> , 2021, , 106-117.	0.2	1
1656	Clinical and metabolomic predictors of regression to normoglycemia in a population at intermediate cardiometabolic risk. <i>Cardiovascular Diabetology</i> , 2021, 20, 56.	2.7	10
1657	Plasma acylcarnitines and risk of lower-extremity functional impairment in older adults: a nested case-control study. <i>Scientific Reports</i> , 2021, 11, 3350.	1.6	6
1658	Obesity Connected Metabolic Changes in Type 2 Diabetic Patients Treated With Metformin. <i>Frontiers in Pharmacology</i> , 2020, 11, 616157.	1.6	16
1659	Population epidemiology and concordance for plasma amino acids and precursors in 11-12-year-old children and their parents. <i>Scientific Reports</i> , 2021, 11, 3619.	1.6	8
1660	The Association Between Leucine and Diabetic Nephropathy in Different Gender: A Cross-Sectional Study in Chinese Patients With Type 2 Diabetes. <i>Frontiers in Endocrinology</i> , 2020, 11, 619422.	1.5	5
1661	Metabolomics Insights into Osteoporosis Through Association With Bone Mineral Density. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 729-738.	3.1	37
1662	Metabolomics-based multidimensional network biomarkers for diabetic retinopathy identification in patients with type 2 diabetes mellitus. <i>BMJ Open Diabetes Research and Care</i> , 2021, 9, e001443.	1.2	26
1663	Data-driven assessment, contextualisation and implementation of 134 variables in the risk for type 2 diabetes: an analysis of Lifelines, a prospective cohort study in the Netherlands. <i>Diabetologia</i> , 2021, 64, 1268-1278.	2.9	3
1664	Dairy consumption, plasma metabolites, and risk of type 2 diabetes. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 163-174.	2.2	29
1665	The SARS-CoV-2 induced targeted amino acid profiling in patients at hospitalized and convalescent stage. <i>Bioscience Reports</i> , 2021, 41, .	1.1	20
1666	Analysis of the Plasma Metabolome after Trauma, Novel Circulating Sphingolipid Signatures, and In-Hospital Outcomes. <i>Journal of the American College of Surgeons</i> , 2021, 232, 276-287e1.	0.2	17
1668	Triangulating evidence from longitudinal and Mendelian randomization studies of metabolomic biomarkers for type 2 diabetes. <i>Scientific Reports</i> , 2021, 11, 6197.	1.6	18
1669	Interaction between dietary branched-chain amino acids and genetic risk score on the risk of type 2 diabetes in Chinese. <i>Genes and Nutrition</i> , 2021, 16, 4.	1.2	10
1670	The cellular and functional complexity of thermogenic fat. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 393-409.	16.1	203
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1674	Proteomic profiling reveals biomarkers and pathways in type 2 diabetes risk. JCI Insight, 2021, 6, .	2.3	26
1675	Extent reflecting overall dietary amino acids composition adherence to the human requirement amino acids pattern is associated with the development of type 2 diabetes. Aging, 2021, 13, 10141-10157.	1.4	4
1676	Dietary Management of Type 2 Diabetes in the MENA Region: A Review of the Evidence. Nutrients, 2021, 13, 1060.	1.7	19
1677	Metabolome-Genome-Wide Association Study (mGWAS) Reveals Novel Metabolites Associated with Future Type 2 Diabetes Risk and Susceptibility Loci in a Case-Control Study in a Chinese Prospective Cohort. Global Challenges, 2021, 5, 2000088.	1.8	11
1678	BCAA Supplementation in Mice with Diet-induced Obesity Alters the Metabolome Without Impairing Glucose Homeostasis. Endocrinology, 2021, 162, .	1.4	28
1679	Brown and beige adipose tissue regulate systemic metabolism through a metabolite interorgan signaling axis. Nature Communications, 2021, 12, 1905.	5.8	82
1680	Metabolomic Signature Between Metabolically Healthy Overweight/Obese and Metabolically Unhealthy Overweight/Obese: A Systematic Review. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2021, Volume 14, 991-1010.	1.1	30
1681	Beneficial effects of whole-body cryotherapy on glucose homeostasis and amino acid profile are associated with a reduced myostatin serum concentration. Scientific Reports, 2021, 11, 7097.	1.6	11
1682	A Metabolomic Profile Predictive of New Osteoporosis or Sarcopenia Development. Metabolites, 2021, 11, 278.	1.3	10
1683	Modulating the Microbiota as a Therapeutic Intervention for Type 2 Diabetes. Frontiers in Endocrinology, 2021, 12, 632335.	1.5	63
1684	Application of Metabolomics in Pediatric Asthma: Prediction, Diagnosis and Personalized Treatment. Metabolites, 2021, 11, 251.	1.3	32
1685	Acute hyperaminoacidemia does not suppress insulin-mediated glucose turnover in healthy young men. Applied Physiology, Nutrition and Metabolism, 2021, 46, 397-403.	0.9	0
1686	Macronutrient Determinants of Obesity, Insulin Resistance and Metabolic Health. Biology, 2021, 10, 336.	1.3	14
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1688	Insights into intrauterine growth restriction based on maternal and umbilical cord blood metabolomics. Scientific Reports, 2021, 11, 7824.	1.6	14
1689	Differences in metabolic profiles between the Burmese, the Maine coon and the Birman cat—Three breeds with varying risk for diabetes mellitus. PLoS ONE, 2021, 16, e0249322.	1.1	4

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1691	Branched-chain amino acids predict incident diabetes in the Brazilian Longitudinal Study of Adult Health "ELSA-Brasil. <i>Diabetes Research and Clinical Practice</i> , 2021, 174, 108747.	1.1	8
1692	Impact of lifestyle Intervention on branched-chain amino acid catabolism and insulin sensitivity in adolescents with obesity. <i>Endocrinology, Diabetes and Metabolism</i> , 2021, 4, e00250.	1.0	15
1693	Plasma 3-hydroxyisobutyrate (3-HIB) and methylmalonic acid (MMA) are markers of hepatic mitochondrial fatty acid oxidation in male Wistar rats. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158887.	1.2	11
1694	Amino Acid Signature of Oxidative Stress in Patients with Type 2 Diabetes: Targeted Exploratory Metabolomic Research. <i>Antioxidants</i> , 2021, 10, 610.	2.2	21
1695	COMETS Analytics: An Online Tool for Analyzing and Meta-Analyzing Metabolomics Data in Large Research Consortia. <i>American Journal of Epidemiology</i> , 2022, 191, 147-158.	1.6	9
1696	Metabolic adaptation characterizes short-term resistance to weight loss induced by a low-calorie diet in overweight/obese individuals. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 267-280.	2.2	9
1697	Physiological effects of nutrients on insulin release by pancreatic beta cells. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 3127-3139.	1.4	8
1698	Brown Adipose Tissue Heterogeneity, Energy Metabolism, and Beyond. <i>Frontiers in Endocrinology</i> , 2021, 12, 651763.	1.5	38
1699	Non-targeted Serum Metabolomics Identifies Candidate Biomarkers Panels Associated with Nonalcoholic Fatty Liver Disease: A Pilot Study in Russian Male Patients. <i>Open Biomarkers Journal</i> , 2021, 11, 17-27.	0.1	3
1700	Metabolic flexibility via mitochondrial BCAA carrier SLC25A44 is required for optimal fever. <i>ELife</i> , 2021, 10, .	2.8	15
1701	Plasma amino acids and oxylipins as potential multi-biomarkers for predicting diabetic macular edema. <i>Scientific Reports</i> , 2021, 11, 9727.	1.6	14
1702	Metabolomic Biomarkers in Gestational Diabetes Mellitus: A Review of the Evidence. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5512.	1.8	39
1703	Nutritional, antioxidant, angiotensin-converting-enzyme and carbohydrate-hydrolyzing-enzyme inhibitory activities of underutilized leafy vegetable: African wild lettuce ( <i>Lactuca taraxacifolia</i> ) Tj ETQq1 1 0.784314. <i>Overlock 10</i>		
1704	Metabolomics and microbiome profiling as biomarkers in obstructive sleep apnoea: a comprehensive review. <i>European Respiratory Review</i> , 2021, 30, 200220.	3.0	32
1705	Biomarker identification and pathway analysis of rheumatoid arthritis based on metabolomics in combination with ingenuity pathway analysis. <i>Proteomics</i> , 2021, 21, e2100037.	1.3	17
1706	Emerging Diabetic Novel Biomarkers of the 21st Century. <i>Annals of the National Academy of Medical Sciences (India)</i> , 2021, 57, 69-81.	0.2	2
1707	Untargeted metabolomics for uncovering plasma biological markers of wet age-related macular degeneration. <i>Aging</i> , 2021, 13, 13968-14000.	1.4	17

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1709	Plasma Amino Acids and Risk of Impaired Lower-Extremity Function and Role of Dietary Intake: A Nested Case-Control Study in Older Adults. <i>Gerontology</i> , 2022, 68, 181-191.	1.4	3
1711	Roles of Gut Microbial Metabolites in Diabetic Kidney Disease. <i>Frontiers in Endocrinology</i> , 2021, 12, 636175.	1.5	33
1712	Kidney Biopsy in Type 2 Diabetic Patients: Critical Reflections on Present Indications and Diagnostic Alternatives. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5425.	1.8	24
1713	Evaluation of change in metabolome caused by comprehensive diabetes treatment: A prospective observational study of diabetes inpatients with gas chromatography/mass spectrometry-based non-target metabolomic analysis. <i>Journal of Diabetes Investigation</i> , 2021, 12, 2232-2241.	1.1	6
1714	Effects of Weight Loss and Moderate-Protein, High-Fiber Diet Consumption on the Fasted Serum Metabolome of Cats. <i>Metabolites</i> , 2021, 11, 324.	1.3	5
1715	Correlation of Plasma Amino Acid and Anthropometric Profiles with Brown Adipose Tissue Density in Humans. <i>Journal of Clinical Medicine</i> , 2021, 10, 2339.	1.0	1
1716	Cardiac Energy Metabolism in Heart Failure. <i>Circulation Research</i> , 2021, 128, 1487-1513.	2.0	433
1717	Metabolomic Biomarkers in Polycystic Ovary Syndrome: A Review of the Evidence. <i>Seminars in Reproductive Medicine</i> , 2021, 39, 102-110.	0.5	8
1718	Targeted metabolomic profiling and prediction of cardiovascular events: a prospective study of patients with psoriatic arthritis and psoriasis. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 1429-1435.	0.5	11
1719	Insulin action, type 2 diabetes, and branched-chain amino acids: A two-way street. <i>Molecular Metabolism</i> , 2021, 52, 101261.	3.0	122
1720	The effect of physical activity level and exercise training on the association between plasma branched-chain amino acids and intrahepatic lipid content in participants with obesity. <i>International Journal of Obesity</i> , 2021, 45, 1510-1520.	1.6	10
1721	Capillary Electrophoresis Mass Spectrometry-Based Metabolomics of Plasma Samples from Healthy Subjects in a Cross-Sectional Japanese Population Study. <i>Metabolites</i> , 2021, 11, 314.	1.3	2
1722	Free amino acid composition of saliva in patients with healthy periodontium and periodontitis. <i>Clinical Oral Investigations</i> , 2021, 25, 4175-4183.	1.4	16
1723	The effect of morning vs evening exercise training on glycaemic control and serum metabolites in overweight/obese men: a randomised trial. <i>Diabetologia</i> , 2021, 64, 2061-2076.	2.9	44
1724	Potential effects of adropin on systemic metabolic and hormonal abnormalities in polycystic ovary syndrome. <i>Reproductive BioMedicine Online</i> , 2021, 42, 1007-1014.	1.1	11
1725	Unravelling the involvement of gut microbiota in type 2 diabetes mellitus. <i>Life Sciences</i> , 2021, 273, 119311.	2.0	73
1726	Plasma Metabolomics of Acute Coronary Syndrome Patients Based on Untargeted Liquid Chromatography-Mass Spectrometry. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 616081.	1.1	7

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1727	The geometry of clinical labs and wellness states from deeply phenotyped humans. <i>Nature Communications</i> , 2021, 12, 3578.	5.8	19
1728	The effect of circuit resistance training on plasma levels of amino acids, alpha-hydroxybutyrate, mannose, and urinary levels of glycine conjugated adducts in obese adolescent boys. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 561-570.	0.9	4
1729	The evolving landscape of untargeted metabolomics. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 1645-1652.	1.1	28
1730	Recent Progress in Metabolic Syndrome Research and Therapeutics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6862.	1.8	20
1731	Metabolomics and cancer preventive behaviors in the BC Generations Project. <i>Scientific Reports</i> , 2021, 11, 12094.	1.6	2
1733	Differential insulin sensitivity of NMR-based metabolomic measures in a two-step hyperinsulinemic euglycemic clamp study. <i>Metabolomics</i> , 2021, 17, 57.	1.4	0
1734	Fasting Plasma Total Amino Acid Levels in Relation to Glucose Levels in Type 2 Diabetes Mellitus – A Study from Karnataka, India. <i>Journal of Evolution of Medical and Dental Sciences</i> , 2021, 10, 1819-1824.	0.1	0
1735	A Preliminary Study Showing the Impact of Genetic and Dietary Factors on GC-MS-Based Plasma Metabolome of Patients with and without PROX1-Genetic Predisposition to T2DM up to 5 Years Prior to Prediabetes Appearance. <i>Current Issues in Molecular Biology</i> , 2021, 43, 513-528.	1.0	5
1736	Metabolomic and Lipidomic Approaches to Evaluate the Effects of <i>Eucommia ulmoides</i> Leaves on Milk Quality and Biochemical Properties. <i>Frontiers in Veterinary Science</i> , 2021, 8, 644967.	0.9	5
1737	Application of metabolomics in clinical and laboratory gastrointestinal oncology. <i>World Journal of Gastrointestinal Oncology</i> , 2021, 13, 536-549.	0.8	5
1738	Framingham Heart Study. <i>Journal of the American College of Cardiology</i> , 2021, 77, 2680-2692.	1.2	35
1739	Association between alterations in plasma metabolome profiles and laminitis in intensively finished Holstein bulls in a randomized controlled study. <i>Scientific Reports</i> , 2021, 11, 12735.	1.6	6
1740	Host and gut microbial tryptophan metabolism and type 2 diabetes: an integrative analysis of host genetics, diet, gut microbiome and circulating metabolites in cohort studies. <i>Gut</i> , 2022, 71, 1095-1105.	6.1	98
1741	Limited survival and impaired hepatic fasting metabolism in mice with constitutive Rag GTPase signaling. <i>Nature Communications</i> , 2021, 12, 3660.	5.8	13
1742	Childhood overeating is associated with adverse cardiometabolic and inflammatory profiles in adolescence. <i>Scientific Reports</i> , 2021, 11, 12478.	1.6	6
1743	Plasma Sphingolipid Profile in Association with Incident Metabolic Syndrome in a Chinese Population-Based Cohort Study. <i>Nutrients</i> , 2021, 13, 2263.	1.7	4
1744	Brain insulin signalling in metabolic homeostasis and disease. <i>Nature Reviews Endocrinology</i> , 2021, 17, 468-483.	4.3	70
1745	Metabolomics and metabolites in ischemic stroke. <i>Reviews in the Neurosciences</i> , 2022, 33, 181-205.	1.4	11



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1746	Associations between serum amino acids and incident type 2 diabetes in Chinese rural adults. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 2416-2425.	1.1	9
1747	Branched-chain Amino Acids and Relationship With Inflammation in Youth With Obesity: A Randomized Controlled Intervention Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, 3129-3139.	1.8	18
1748	Petrel Probe: An Integrated In Situ Sampling and Injection Interface for Fast, High-Efficiency Liquid Chromatography–Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2021, 93, 10114-10121.	3.2	3
1749	Metabolomics in Bariatric Surgery: Towards Identification of Mechanisms and Biomarkers of Metabolic Outcomes. <i>Obesity Surgery</i> , 2021, 31, 4564-4574.	1.1	8
1750	Paired maternal and fetal metabolomics reveal a differential fingerprint in preeclampsia versus fetal growth restriction. <i>Scientific Reports</i> , 2021, 11, 14422.	1.6	16
1751	Monitoring Metabolites Using an NAD(P)H-sensitive Polymer Dot and a Metabolite-specific Enzyme. <i>Angewandte Chemie</i> , 2021, 133, 19480-19485.	1.6	8
1752	The Importance of Metabolism for Immune Homeostasis in Allergic Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 692004.	2.2	17
1754	Tryptophan Metabolism in Atherosclerosis and Diabetes. <i>Current Medicinal Chemistry</i> , 2022, 29, 99-113.	1.2	22
1755	Monitoring Metabolites Using an NAD(P)H-sensitive Polymer Dot and a Metabolite-specific Enzyme. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19331-19336.	7.2	19
1756	Molecular biology and genomics – the basis of health and the future of precision medicine. <i>Buletinul AĂM: AştiinŃe Medicale</i> , 2021, 70, .	0.0	0
1757	Branched-Chain Amino Acids and Risk of Breast Cancer. <i>JNCI Cancer Spectrum</i> , 2021, 5, pkab059.	1.4	12
1758	Monitoring of circulating amino acids in patients with pancreatic cancer and cancer cachexia using capillary electrophoresis and contactless conductivity detection. <i>Electrophoresis</i> , 2021, 42, 1885-1891.	1.3	10
1759	From gut microbiota to host appetite: gut microbiota-derived metabolites as key regulators. <i>Microbiome</i> , 2021, 9, 162.	4.9	110
1760	Plasma Amino Acids Metabolomics' Important in Glucose Management in Type 2 Diabetes. <i>Frontiers in Pharmacology</i> , 2021, 12, 695418.	1.6	24
1761	Association of maternal vitamin B12 and folate levels in early pregnancy with gestational diabetes: a prospective UK cohort study (PRIDE study). <i>Diabetologia</i> , 2021, 64, 2170-2182.	2.9	42
1762	Advantages of Studying the Metabolome in Response to Mixed-Macronutrient Challenges and Suggestions for Future Research Designs. <i>Journal of Nutrition</i> , 2021, 151, 2868-2881.	1.3	8
1763	Nutrient regulation of inflammatory signalling in obesity and vascular disease. <i>Clinical Science</i> , 2021, 135, 1563-1590.	1.8	1
1764	Association of BCAT2 and BCKDH polymorphisms with clinical, anthropometric and biochemical parameters in young adults. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 3210-3218.	1.1	2

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1765	Identification of Novel Serum Metabolic Biomarkers as Indicators in the Progression of Intravenous Leiomyomatosis: A High Performance Liquid Chromatography-Tandem Mass Spectrometry-Based Study. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 695540.	1.8	1
1766	Individual variability in human urinary metabolites identifies age-related, body mass index-related, and sex-related biomarkers. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2021, 9, e1738.	0.6	5
1767	Multiplatform metabolomics for an integrative exploration of metabolic syndrome in older men. <i>EBioMedicine</i> , 2021, 69, 103440.	2.7	18
1768	A Conformable, Gas-Permeable, and Transparent Skin-Like Micromesh Architecture for Glucose Monitoring. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100046.	3.9	13
1769	Molecular and Pathophysiological Links between Metabolic Disorders and Inflammatory Bowel Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9139.	1.8	18
1771	<i>Prevotella copri</i> increases fat accumulation in pigs fed with formula diets. <i>Microbiome</i> , 2021, 9, 175.	4.9	100
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1936	Exploratory metabolomics of metabolic syndrome: A status report. <i>World Journal of Diabetes</i> , 2019, 10, 23-36.	1.3	64
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2145	Role of Branched-chain Amino Acid Metabolism in Tumor Development and Progression. <i>Journal of Cancer Prevention</i> , 2021, 26, 237-243.	0.8	22
2146	Old and New Biomarkers Associated with Endothelial Dysfunction in Chronic Hyperglycemia. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-13.	1.9	1
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2154	A healthy dietary metabolic signature is associated with a lower risk for type 2 diabetes and coronary artery disease. <i>BMC Medicine</i> , 2022, 20, 122.	2.3	15
2155	Role of Branched-Chain Amino Acid Metabolism in Type 2 Diabetes, Obesity, Cardiovascular Disease and Non-Alcoholic Fatty Liver Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4325.	1.8	33
2156	Gene-environment interaction analysis of redox-related metals and genetic variants with plasma metabolic patterns in a general population from Spain: The Hortega Study. <i>Redox Biology</i> , 2022, 52, 102314.	3.9	9
2208	Metabolomic signatures of low and high adiposity neonates differ based on maternal BMI. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, , .	1.8	3
2209	Cardiovascular Risk Assessment Using Artificial Intelligence-Enabled Event Adjudication and Hematologic Predictors. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2022, 15, 101161CIRCOUTCOMES121008007.	0.9	5
2210	Plasma metabolomic signature of early abuse in middle-aged women. <i>Psychosomatic Medicine</i> , 2022, Publish Ahead of Print, .	1.3	1
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2213	Maternal and Fetal Metabolites in Gestational Diabetes Mellitus: A Narrative Review. <i>Metabolites</i> , 2022, 12, 383.	1.3	5
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2215	Serum Metabolomics Benefits Discrimination Kidney Disease Development in Type 2 Diabetes Patients. <i>Frontiers in Medicine</i> , 2022, 9, .	1.2	5
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2229	Plasma metabolites associated with functional and clinical outcomes in heart failure with reduced ejection fraction with and without type 2 diabetes. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
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2238	De Novo Glycine Synthesis Is Reduced in Adults With Morbid Obesity and Increases Following Bariatric Surgery. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	12
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2241	Metabolomics profile of 5649 users and non-users of hormonal intrauterine devices in Finland. <i>American Journal of Obstetrics and Gynecology</i> , 2022, , .	0.7	0
2242	A randomized placebo-controlled clinical trial for pharmacological activation of BCAA catabolism in patients with type 2 diabetes. <i>Nature Communications</i> , 2022, 13, .	5.8	42
2243	Obesity-associated metabolites in relation to type 2 diabetes risk: A prospective nested case-control study of the CARRS cohort. <i>Diabetes, Obesity and Metabolism</i> , 2022, 24, 2008-2016.	2.2	4
2244	Rice-based breakfast improves fasting glucose and HOMA-IR in Korean adolescents who skip breakfast, but breakfast skipping increases aromatic amino acids associated with diabetes prediction in Korean adolescents who skip breakfast: a randomized, parallel-group, controlled trial. <i>Nutrition Research and Practice</i> . 2022, 16, 450.	0.7	1
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2249	Branched-Chain and Aromatic Amino Acids in Relation to Fat Mass and Fat-Free Mass Changes among Adolescents: A School-Based Intervention. <i>Metabolites</i> , 2022, 12, 589.	1.3	0

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2251	Oxidative Stress in Type 2 Diabetes: The Case for Future Pediatric Redoxomics Studies. <i>Antioxidants</i> , 2022, 11, 1336.	2.2	11
2252	Altered branched-chain $\alpha$ -keto acid metabolism is a feature of NAFLD in individuals with severe obesity. <i>JCI Insight</i> , 2022, 7, .	2.3	16
2253	Aberrant branched-chain amino acid catabolism in cardiovascular diseases. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	9
2254	The association between plasma metabolites and future risk of all-cause mortality. <i>Journal of Internal Medicine</i> , 2022, 292, 804-815.	2.7	8
2255	Multi-omics study identifies novel signatures of DNA/RNA, amino acid, peptide, and lipid metabolism by simulated diabetes on coronary endothelial cells. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
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2257	Implications of endocrine-disrupting chemicals on polycystic ovarian syndrome: A comprehensive review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 58484-58513.	2.7	2
2258	Branched-chain and aromatic amino acid levels response to an oral glucose load associated with gestational diabetes mellitus. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
2259	Associations of serum amino acids with insulin resistance among people with and without overweight or obesity: A prospective study in Japan. <i>Clinical Nutrition</i> , 2022, 41, 1827-1833.	2.3	8
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2261	Phenylalanine impairs insulin signaling and inhibits glucose uptake through modification of IR <sup>2</sup> . <i>Nature Communications</i> , 2022, 13, .	5.8	21
2262	Correlation of Salivary Occult Blood with the Plasma Concentration of Branched-Chain Amino Acids: A Cross-Sectional Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 8930.	1.2	0
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2264	Design, methods and baseline characteristics of the Beijing Hospital Atherosclerosis Study: a prospective dynamic cohort study. <i>Annals of Translational Medicine</i> , 2022, 10, 790-790.	0.7	0
2265	Metabolic changes associated with two endocrine abnormalities in dogs: elevated fructosamine and low thyroxine. <i>Metabolomics</i> , 2022, 18, .	1.4	0
2267	Amino acids, microbiota-related metabolites, and the risk of incident diabetes among normoglycemic Chinese adults: Findings from the 4C study. <i>Cell Reports Medicine</i> , 2022, 3, 100727.	3.3	17
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2270	Design of artificial cells: artificial biochemical systems, their thermodynamics and kinetics properties. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2022, 9, 393-412.	0.2	0
2271	Alternative dietary protein sources to support healthy and active skeletal muscle aging. <i>Nutrition Reviews</i> , 2023, 81, 206-230.	2.6	7
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2277	The metabolic adaptation of the adult offspring after maternal high-dosed folic acid supplementation based on the proteomics and metabolomics in rats. <i>Biomedical Chromatography</i> , 0, , .	0.8	0
2278	Gut microbiota: A new target for T2DM prevention and treatment. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	29
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2280	The Roles of Gut Microbiome and Plasma Metabolites in the Associations between ABO Blood Groups and Insulin Homeostasis: The Microbiome and Insulin Longitudinal Evaluation Study (MILES). <i>Metabolites</i> , 2022, 12, 787.	1.3	0
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2282	Metabolic and Genetic Markers Improve Prediction of Incident Type 2 Diabetes: A Nested Case-Control Study in Chinese. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 3120-3127.	1.8	4
2283	The evolving view of thermogenic fat and its implications in cancer and metabolic diseases. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, .	7.1	15
2284	Plasma metabolomic signatures of obesity and risk of type 2 diabetes. <i>Obesity</i> , 2022, 30, 2294-2306.	1.5	8
2285	Modulatory role of gut microbiota in cholesterol and glucose metabolism: Potential implications for atherosclerotic cardiovascular disease. <i>Atherosclerosis</i> , 2022, 359, 1-12.	0.4	8
2286	Metabokines in the regulation of systemic energy metabolism. <i>Current Opinion in Pharmacology</i> , 2022, 67, 102286.	1.7	10
2287	Human microbiome and cardiovascular diseases. <i>Progress in Molecular Biology and Translational Science</i> , 2022, , 231-279.	0.9	3
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2291	Metabolomic Profiles Differentiate Scleroderma-PAH From Idiopathic PAH and Correspond With Worsened Functional Capacity. <i>Chest</i> , 2023, 163, 204-215.	0.4	4
2292	<i>Fusobacterium nucleatum</i> infection-induced neurodegeneration and abnormal gut microbiota composition in Alzheimer's disease-like rats. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	7
2293	Effects of whey protein supplementation on adiposity, body weight, and glycemic parameters: A synthesis of evidence. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2023, 33, 258-274.	1.1	5
2295	Metabolomics analysis of stool in rats with type 2 diabetes mellitus after single-anastomosis duodenal-ileal bypass with sleeve gastrectomy. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	1
2296	Body Composition in Adolescent PKU Patients: Beyond Fat Mass. <i>Children</i> , 2022, 9, 1353.	0.6	2
2297	Communication in non-communicable diseases (NCDs) and role of immunomodulatory nutraceuticals in their management. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	0
2298	Metabolomics for exposure assessment and toxicity effects of occupational pollutants: current status and future perspectives. <i>Metabolomics</i> , 2022, 18, .	1.4	9
2299	Branched-chain amino acids linked to depression in young adults. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	12
2300	Serum Uric Acid and Metabolic Markers in Diabetes. <i>Biomarkers in Disease</i> , 2023, , 239-259.	0.0	0
2301	Altered Metabolome of Amino Acids Species: A Source of Signature Early Biomarkers of T2DM. <i>Biomarkers in Disease</i> , 2023, , 83-125.	0.0	0
2302	Metabolomic Biomarkers, Metabolite Patterns, and Gestational Diabetes Mellitus. <i>Biomarkers in Disease</i> , 2023, , 1033-1052.	0.0	0
2303	Fabrication of nitrogen-doped graphene quantum dots based fluorescent probe and its application for simultaneous, sensitive and selective detection of umami amino acids. <i>Food Chemistry</i> , 2023, 404, 134509.	4.2	10
2304	Multi-omic phenotyping reveals host-microbe responses to bariatric surgery, glycaemic control and obesity. <i>Communications Medicine</i> , 2022, 2, .	1.9	2
2305	Research Progress of Gut Microbiota's Function in Metabolic and Immunological Diseases. <i>Open Journal of Natural Science</i> , 2022, 10, 949-959.	0.1	0
2306	Chemotherapy-Induced Peripheral Neuropathy. <i>Handbook of Experimental Pharmacology</i> , 2022, , 299-337.	0.9	1
2307	Impact of Phenol-Enriched Olive Oils on Serum Metabonome and Its Relationship with Cardiometabolic Parameters: A Randomized, Double-Blind, Cross-Over, Controlled Trial. <i>Antioxidants</i> , 2022, 11, 1964.	2.2	2



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2309	Synergies vs. Clustering Only of Depressive Symptoms in Diabetes and Co-Occurring Conditions: Symmetric Indicators with Asymmetric, Bidirectional Influences in MIMIC Models. <i>Symmetry</i> , 2022, 14, 2275.	1.1	1
2310	Metabolomic markers of glucose regulation after a lifestyle intervention in prediabetes. <i>BMJ Open Diabetes Research and Care</i> , 2022, 10, e003010.	1.2	4
2311	Response of circulating metabolites to an oral glucose challenge and risk of cardiovascular disease and mortality in the community. <i>Cardiovascular Diabetology</i> , 2022, 21, .	2.7	1
2312	Gut Microbiota and Their Associated Metabolites in Diabetes: A Cross Talk Between Host and Microbesâ€”A Review. <i>Metabolic Syndrome and Related Disorders</i> , 2023, 21, 3-15.	0.5	3
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2314	The Association between Circulating Branched Chain Amino Acids and the Temporal Risk of Developing Type 2 Diabetes Mellitus: A Systematic Review & Meta-Analysis. <i>Nutrients</i> , 2022, 14, 4411.	1.7	16
2315	Plasma Metabolite Profiles Associated with the Amount and Source of Meat and Fish Consumption and the Risk of Type 2 Diabetes. <i>Molecular Nutrition and Food Research</i> , 2022, 66, .	1.5	6
2316	Urinary Metabolomics Study on the Protective Role of Cocoa in Zucker Diabetic Rats via 1H-NMR-Based Approach. <i>Nutrients</i> , 2022, 14, 4127.	1.7	2
2317	A novel therapeutic concern: Antibiotic resistance genes in common chronic diseases. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	5
2318	Amino acid profiling to predict prognosis in patients with heart failure: an expert review. <i>ESC Heart Failure</i> , 2023, 10, 32-43.	1.4	3
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2320	Prepregnancy Protein Source and BCAA Intake Are Associated with Gestational Diabetes Mellitus in the CARDIA Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 14142.	1.2	6
2321	Association between Dietary Protein Intake and Type 2 Diabetes Mellitus in Chinese Rural Elderly Population: A Matched Case-Control Study. <i>Journal of Nutritional Science and Vitaminology</i> , 2022, 68, 399-408.	0.2	1
2322	Identification of potential biomarkers and metabolic insights for gestational diabetes prevention: A review of evidence contrasting gestational diabetes versus weight loss studies that may direct future nutritional metabolomics studies. <i>Nutrition</i> , 2022, , 111898.	1.1	0
2323	BDK inhibition acts as a catabolic switch to mimic fasting and improve metabolism in mice. <i>Molecular Metabolism</i> , 2022, 66, 101611.	3.0	16
2324	Nrf2 deficiency deteriorates diabetic kidney disease in Akita model mice. <i>Redox Biology</i> , 2022, 58, 102525.	3.9	20
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2329	Adiposity and NMR-measured lipid and metabolic biomarkers among 30,000 Mexican adults. <i>Communications Medicine</i> , 2022, 2, .	1.9	2
2330	Caloric restriction improves glycaemic control without reducing plasma branched-chain amino acids or keto-acids in obese men. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
2331	An overview on role of nutrition on COVID-19 immunity: Accumulative review from available studies. <i>Clinical Nutrition Open Science</i> , 2022, , .	0.5	0
2332	The relationship between islet $\beta$ cell function and metabolomics in overweight patients with type 2 diabetes. <i>Bioscience Reports</i> , 0, , .	1.1	2
2333	Multi-target regulation of intestinal microbiota by berberine to improve type 2 diabetes mellitus. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	5
2334	Implications of cancer stem cells in diabetes and pancreatic cancer. <i>Life Sciences</i> , 2023, 312, 121211.	2.0	2
2335	Metabolic and proteomic signatures of type 2 diabetes subtypes in an Arab population. <i>Nature Communications</i> , 2022, 13, .	5.8	17
2336	Determination of the Relationship of Serum Amino Acid Profile with Sex and Body Weight in Healthy Geese by Liquid Chromatography-Tandem Mass Spectrometry. <i>Brazilian Journal of Poultry Science</i> , 2022, 24, .	0.3	0
2337	FisiopatologÃa y alteraciones clÃnicas de la diabetes mellitus tipo 2. <i>Nova</i> , 2022, 20, 65-103.	0.2	1
2338	Gut Microbiota and Cardiovascular System: An Intricate Balance of Health and the Diseased State. <i>Life</i> , 2022, 12, 1986.	1.1	8
2339	Dietary metabolic signatures and cardiometabolic risk. <i>European Heart Journal</i> , 2023, 44, 557-569.	1.0	15
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2342	Evaluation of characteristic metabolites of aromatic amino acids in patients with <sc>HIV</sc> infection at different stages of disease. <i>Journal of Clinical Laboratory Analysis</i> , 2023, 37, .	0.9	2
2343	Abdominal obesity in COPD is associated with specific metabolic and functional phenotypes. <i>Nutrition and Metabolism</i> , 2022, 19, .	1.3	0
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2347	Oat $\beta$ -glucan ameliorates diabetes in high fat diet and streptozotocin-induced mice by regulating metabolites. <i>Journal of Nutritional Biochemistry</i> , 2023, 113, 109251.	1.9	5
2348	Metabolomics and Lipidomics Signatures of Insulin Resistance and Abdominal Fat Depots in People Living with Obesity. <i>Metabolites</i> , 2022, 12, 1272.	1.3	1
2349	Prediction of type 2 diabetes using genome-wide polygenic risk score and metabolic profiles: A machine learning analysis of population-based 10-year prospective cohort study. <i>EBioMedicine</i> , 2022, 86, 104383.	2.7	25
2350	SLC7A14 imports GABA to lysosomes and impairs hepatic insulin sensitivity via inhibiting mTORC2. <i>Cell Reports</i> , 2023, 42, 111984.	2.9	2
2351	Specific Alteration of Branched-Chain Amino Acid Profile in Polycystic Ovary Syndrome. <i>Biomedicines</i> , 2023, 11, 108.	1.4	2
2352	Mitochondrial Energy Metabolism in the Regulation of Thermogenic Brown Fats and Human Metabolic Diseases. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1352.	1.8	9
2353	The need for an integrated multi-OMICS approach in microbiome science in the food system. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2023, 22, 1082-1103.	5.9	12
2354	Metabolic remodeling of glycerophospholipids acts as a signature of dulaglutide and liraglutide treatment in recent-onset type 2 diabetes mellitus. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	1
2355	Characterization of Non-Obstructive Azoospermia in Men Using Gut Microbial Profiling. <i>Journal of Clinical Medicine</i> , 2023, 12, 701.	1.0	5
2356	Several Metabolite Families Display Inflexibility during Glucose Challenge in Patients with Type 2 Diabetes: An Untargeted Metabolomics Study. <i>Metabolites</i> , 2023, 13, 131.	1.3	0
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2359	Gestational diabetes is driven by microbiota-induced inflammation months before diagnosis. <i>Gut</i> , 2023, 72, 918-928.	6.1	28
2360	Circulating citric acid cycle metabolites and risk of cardiovascular disease in the PREDIMED study. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2023, 33, 835-843.	1.1	5
2361	Role of Impaired Glycolysis in Perturbations of Amino Acid Metabolism in Diabetes Mellitus. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1724.	1.8	8
2362	Progress in genetics of type 2 diabetes and diabetic complications. <i>Journal of Diabetes Investigation</i> , 2023, 14, 503-515.	1.1	11
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2364	Mixed meal tolerance testing highlights in diabetes altered branched-chain ketoacid metabolism and pathways associated with all-cause mortality. <i>American Journal of Clinical Nutrition</i> , 2023, 117, 529-539.	2.2	1
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