Matej Oresic

List of Publications by Year in descending order

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339 papers	33,198 citations	4831 87 h-index	5622 168 g-index
371 all docs	371 docs citations	371 times ranked	47515 citing authors

#	Article	IF	Citations
1	MZmine 2: Modular framework for processing, visualizing, and analyzing mass spectrometry-based molecular profile data. BMC Bioinformatics, 2010, 11, 395.	1.2	3,031
2	Gut Microbiota Regulates Bile Acid Metabolism by Reducing the Levels of Tauro-beta-muricholic Acid, a Naturally Occurring FXR Antagonist. Cell Metabolism, 2013, 17, 225-235.	7.2	1,671
3	Human gut microbes impact host serum metabolome and insulin sensitivity. Nature, 2016, 535, 376-381.	13.7	1,506
4	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. Cell Host and Microbe, 2015, 17, 260-273.	5.1	1,008
5	MZmine: toolbox for processing and visualization of mass spectrometry based molecular profile data. Bioinformatics, 2006, 22, 634-636.	1.8	725
6	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. Nature Medicine, 2010, 16, 1001-1008.	15.2	581
7	Mitofusin 2 (Mfn2) links mitochondrial and endoplasmic reticulum function with insulin signaling and is essential for normal glucose homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5523-5528.	3.3	544
8	Data processing for mass spectrometry-based metabolomics. Journal of Chromatography A, 2007, 1158, 318-328.	1.8	537
9	The gut microbiota modulates host energy and lipid metabolism in mice. Journal of Lipid Research, 2010, 51, 1101-1112.	2.0	508
10	Novel Theranostic Opportunities Offered by Characterization of Altered Membrane Lipid Metabolism in Breast Cancer Progression. Cancer Research, 2011, 71, 3236-3245.	0.4	444
11	Metabolomics enables precision medicine: â€œA White Paper, Community Perspectiveâ€• Metabolomics, 2016, 12, 149.	1.4	434
12	Dysregulation of lipid and amino acid metabolism precedes islet autoimmunity in children who later progress to type 1 diabetes. Journal of Experimental Medicine, 2008, 205, 2975-2984.	4.2	399
13	Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI). Neurosurgery, 2015, 76, 67-80.	0.6	386
14	Acquired Obesity Is Associated with Changes in the Serum Lipidomic Profile Independent of Genetic Effects â€“ A Monozygotic Twin Study. PLoS ONE, 2007, 2, e218.	1.1	356
15	Integration of microRNA miR-122 in hepatic circadian gene expression. Genes and Development, 2009, 23, 1313-1326.	2.7	349
16	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. PLoS Genetics, 2007, 3, e64.	1.5	346
17	Hepatic ceramides dissociate steatosis and insulin resistance in patients with non-alcoholic fatty liver disease. Journal of Hepatology, 2016, 64, 1167-1175.	1.8	342
18	Processing methods for differential analysis of LC/MS profile data. BMC Bioinformatics, 2005, 6, 179.	1.2	327

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19	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. Journal of Lipid Research, 2017, 58, 2275-2288.	2.0	312
20	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in Catharanthus roseus cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5614-5619.	3.3	307
21	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. Lancet Neurology, The, 2019, 18, 923-934.	4.9	304
22	Normalization method for metabolomics data using optimal selection of multiple internal standards. BMC Bioinformatics, 2007, 8, 93.	1.2	300
23	Differential Lipid Partitioning Between Adipocytes and Tissue Macrophages Modulates Macrophage Lipotoxicity and M2/M1 Polarization in Obese Mice. Diabetes, 2011, 60, 797-809.	0.3	297
24	Adipose Tissue Inflammation and Increased Ceramide Content Characterize Subjects With High Liver Fat Content Independent of Obesity. Diabetes, 2007, 56, 1960-1968.	0.3	279
25	Pathways to the analysis of microarray data. Trends in Biotechnology, 2005, 23, 429-435.	4.9	269
26	Saturated Fat Is More Metabolically Harmful for the Human Liver Than Unsaturated Fat or Simple Sugars. Diabetes Care, 2018, 41, 1732-1739.	4.3	266
27	Global Transcript Profiles of Fat in Monozygotic Twins Discordant for BMI: Pathways behind Acquired Obesity. PLoS Medicine, 2008, 5, e51.	3.9	265
28	Farnesoid X Receptor Deficiency Improves Glucose Homeostasis in Mouse Models of Obesity. Diabetes, 2011, 60, 1861-1871.	0.3	261
29	Analysis of microbiota in first episode psychosis identifies preliminary associations with symptom severity and treatment response. Schizophrenia Research, 2018, 192, 398-403.	1.1	252
30	Ablation of PGC-1Î² Results in Defective Mitochondrial Activity, Thermogenesis, Hepatic Function, and Cardiac Performance. PLoS Biology, 2006, 4, e369.	2.6	249
31	Mitochondrial myopathy induces a starvation-like response. Human Molecular Genetics, 2010, 19, 3948-3958.	1.4	249
32	Metabolome in progression to Alzheimer's disease. Translational Psychiatry, 2011, 1, e57-e57.	2.4	238
33	Bioinformatics strategies for lipidomics analysis: characterization of obesity related hepatic steatosis. BMC Systems Biology, 2007, 1, 12.	3.0	234
34	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. Journal of Lipid Research, 2018, 59, 2001-2017.	2.0	231
35	Exome Sequencing Identifies Mitochondrial Alanyl-tRNA Synthetase Mutations in Infantile Mitochondrial Cardiomyopathy. American Journal of Human Genetics, 2011, 88, 635-642.	2.6	229
36	Association of Lipidome Remodeling in the Adipocyte Membrane with Acquired Obesity in Humans. PLoS Biology, 2011, 9, e1000623.	2.6	213

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37	Effects of an isocaloric healthy <scp>N</scp>ordic diet on insulin sensitivity, lipid profile and inflammation markers in metabolic syndrome â€“ a randomized study (<scp>SYSDIET</scp>). Journal of Internal Medicine, 2013, 274, 52-66.	2.7	213
38	Hepatic Stearoyl-CoA Desaturase (SCD)-1 Activity and Diacylglycerol but Not Ceramide Concentrations Are Increased in the Nonalcoholic Human Fatty Liver. Diabetes, 2009, 58, 203-208.	0.3	210
39	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. Cell, 2019, 177, 881-895.e17.	13.5	209
40	Transcriptomic profiling across the nonalcoholic fatty liver disease spectrum reveals gene signatures for steatohepatitis and fibrosis. Science Translational Medicine, 2020, 12, .	5.8	205
41	A Systems Biology Strategy Reveals Biological Pathways and Plasma Biomarker Candidates for Potentially Toxic Statin-Induced Changes in Muscle. PLoS ONE, 2006, 1, e97.	1.1	202
42	Informatics and computational strategies for the study of lipids. Molecular BioSystems, 2008, 4, 121-127.	2.9	189
43	Metabolomics and lipidomics in NAFLD: biomarkers and non-invasive diagnostic tests. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 835-856.	8.2	183
44	Enhanced liver fibrosis test for the non-invasive diagnosis of fibrosis in patients with NAFLD: A systematic review and meta-analysis. Journal of Hepatology, 2020, 73, 252-262.	1.8	170
45	Serum saturated fatty acids containing triacylglycerols are better markers of insulin resistance than total serum triacylglycerol concentrations. Diabetologia, 2009, 52, 684-690.	2.9	169
46	Ketogenic diet slows down mitochondrial myopathy progression in mice. Human Molecular Genetics, 2010, 19, 1974-1984.	1.4	168
47	Data Analysis Tool for Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 3058-3067.	3.2	168
48	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. Cell Metabolism, 2017, 26, 212-229.e12.	7.2	167
49	Associations between the human intestinal microbiota,Lactobacillus rhamnosusGG and serum lipids indicated by integrated analysis of high-throughput profiling data. PeerJ, 2013, 1, e32.	0.9	166
50	Lipidomics: a new window to biomedical frontiers. Trends in Biotechnology, 2008, 26, 647-652.	4.9	160
51	The Link Between Nutritional Status and Insulin Sensitivity Is Dependent on the Adipocyte-Specific Peroxisome Proliferator-Activated Receptor-Â2 Isoform. Diabetes, 2005, 54, 1706-1716.	0.3	157
52	Comparison of Lipid and Fatty Acid Composition of the Liver, Subcutaneous and Intraâ€abdominal Adipose Tissue, and Serum. Obesity, 2010, 18, 937-944.	1.5	151
53	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. Journal of Hepatology, 2021, 75, 770-785.	1.8	149
54	Link between plasma ceramides, inflammation and insulin resistance: association with serum IL-6 concentration in patients with coronary heart disease. Diabetologia, 2009, 52, 2612-2615.	2.9	144

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55	Comparative metabolomics of estrogen receptor positive and estrogen receptor negative breast cancer: alterations in glutamine and beta-alanine metabolism. Journal of Proteomics, 2013, 94, 279-288.	1.2	144
56	Salinomycin inhibits prostate cancer growth and migration via induction of oxidative stress. British Journal of Cancer, 2012, 106, 99-106.	2.9	141
57	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	1.4	140
58	The MBOAT7 variant rs641738 alters hepatic phosphatidylinositols and increases severity of non-alcoholic fatty liver disease in humans. Journal of Hepatology, 2016, 65, 1263-1265.	1.8	140
59	Genome-wide Profiling of Interleukin-4 and STAT6 Transcription Factor Regulation of Human Th2 Cell Programming. Immunity, 2010, 32, 852-862.	6.6	139
60	Algorithms and tools for the preprocessing of LCâ€“MS metabolomics data. Chemometrics and Intelligent Laboratory Systems, 2011, 108, 23-32.	1.8	138
61	Blocking VLDL secretion causes hepatic steatosis but does not affect peripheral lipid stores or insulin sensitivity in mice. Journal of Lipid Research, 2008, 49, 2038-2044.	2.0	136
62	Specific correlations between relative synonymous codon usage and protein secondary structure. Journal of Molecular Biology, 1998, 281, 31-48.	2.0	133
63	Overexpression of Vascular Endothelial Growth Factor-B in Mouse Heart Alters Cardiac Lipid Metabolism and Induces Myocardial Hypertrophy. Circulation Research, 2008, 103, 1018-1026.	2.0	131
64	Metabolome in schizophrenia and other psychotic disorders: a general population-based study. Genome Medicine, 2011, 3, 19.	3.6	131
65	Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. Diabetologia, 2013, 56, 2266-2274.	2.9	129
66	Metabolomics, a novel tool for studies of nutrition, metabolism and lipid dysfunction. Nutrition, Metabolism and Cardiovascular Diseases, 2009, 19, 816-824.	1.1	128
67	Liquid Chromatography-Mass Spectrometry (LC-MS)-Based Lipidomics for Studies of Body Fluids and Tissues. Methods in Molecular Biology, 2011, 708, 247-257.	0.4	124
68	Remodeling of central metabolism in invasive breast cancer compared to normal breast tissue â€“ a GC-TOFMS based metabolomics study. BMC Genomics, 2012, 13, 334.	1.2	123
69	Gut metabolome meets microbiome: A methodological perspective to understand the relationship between host and microbe. Methods, 2018, 149, 3-12.	1.9	123
70	Noninvasive Detection of Nonalcoholic Steatohepatitis UsingÂClinical Markers and Circulating Levels of Lipids andÂMetabolites. Clinical Gastroenterology and Hepatology, 2016, 14, 1463-1472.e6.	2.4	120
71	Human Tear Fluid Lipidome: From Composition to Function. PLoS ONE, 2011, 6, e19553.	1.1	119
72	Characterising metabolically healthy obesity in weight-discordant monozygotic twins. Diabetologia, 2014, 57, 167-176.	2.9	118

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73	Lipidome as a predictive tool in progression to type 2 diabetes in Finnish men. Metabolism: Clinical and Experimental, 2018, 78, 1-12.	1.5	117
74	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. Journal of Clinical Epidemiology, 2020, 122, 95-107.	2.4	117
75	ApoCIII-Enriched LDL in Type 2 Diabetes Displays Altered Lipid Composition, Increased Susceptibility for Sphingomyelinase, and Increased Binding to Biglycan. Diabetes, 2009, 58, 2018-2026.	0.3	116
76	Fatty Fish Intake Decreases Lipids Related to Inflammation and Insulin Signalingâ€"A Lipidomics Approach. PLoS ONE, 2009, 4, e5258.	1.1	116
77	Composition and lipid spatial distribution of HDL particles in subjects with low and high HDL-cholesterol. Journal of Lipid Research, 2010, 51, 2341-2351.	2.0	111
78	Integrative Biological Analysis of the APOE*3-Leiden Transgenic Mouse. OMICS A Journal of Integrative Biology, 2004, 8, 3-13.	1.0	108
79	Metabolic Associations of Reduced Proliferation and Oxidative Stress in Advanced Breast Cancer. Cancer Research, 2012, 72, 5712-5720.	0.4	108
80	Phospholipids and insulin resistance in psychosis: a lipidomics study of twin pairs discordant for schizophrenia. Genome Medicine, 2012, 4, 1.	3.6	106
81	Exposure to environmental contaminants is associated with altered hepatic lipid metabolism in non-alcoholic fatty liver disease. Journal of Hepatology, 2022, 76, 283-293.	1.8	106
82	Circulating triacylglycerol signatures and insulin sensitivity in NAFLD associated with the E167K variant in TM6SF2. Journal of Hepatology, 2015, 62, 657-663.	1.8	104
83	Genome-scale study reveals reduced metabolic adaptability in patients with non-alcoholic fatty liver disease. Nature Communications, 2016, 7, 8994.	5.8	103
84	Data standards can boost metabolomics research, and if there is a will, there is a way. Metabolomics, 2016, 12, 14.	1.4	97
85	Impaired hepatic lipid synthesis from polyunsaturated fatty acids in TM6SF2 E167K variant carriers with NAFLD. Journal of Hepatology, 2017, 67, 128-136.	1.8	97
86	Age- and Islet Autoimmunityâ€"Associated Differences in Amino Acid and Lipid Metabolites in Children at Risk for Type 1 Diabetes. Diabetes, 2011, 60, 2740-2747.	0.3	96
87	Sphingolipids and glycerophospholipids â€" The â€œying and yangâ€• of lipotoxicity in metabolic diseases. Progress in Lipid Research, 2017, 66, 14-29.	5.3	96
88	Systematic construction of gene coexpression networks with applications to human T helper cell differentiation process. Bioinformatics, 2007, 23, 2096-2103.	1.8	94
89	Insulin Signaling Regulates Fatty Acid Catabolism at the Level of CoA Activation. PLoS Genetics, 2012, 8, e1002478.	1.5	93
90	Mondo/ChREBP-Mlx-Regulated Transcriptional Network Is Essential for Dietary Sugar Tolerance in Drosophila. PLoS Genetics, 2013, 9, e1003438.	1.5	93

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91	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. JCI Insight, 2019, 4, .	2.3	93
92	Bioinformatics and computational methods for lipidomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2855-2862.	1.2	92
93	Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. Genome Medicine, 2012, 4, 37.	3.6	88
94	Variation in monitoring and treatment policies for intracranial hypertension in traumatic brain injury: a survey in 66 neurotrauma centers participating in the CENTER-TBI study. Critical Care, 2017, 21, 233.	2.5	88
95	MPEAâ€"metabolite pathway enrichment analysis. Bioinformatics, 2011, 27, 1878-1879.	1.8	85
96	Metabolomic approaches to phenotype characterization and applications to complex diseases. Expert Review of Molecular Diagnostics, 2006, 6, 575-585.	1.5	84
97	Self-organization and missing values in SOM and GTM. Neurocomputing, 2015, 147, 60-70.	3.5	84
98	Postprandial differences in the plasma metabolome of healthy Finnish subjects after intake of a sourdough fermented endosperm rye bread versus white wheat bread. Nutrition Journal, 2011, 10, 116.	1.5	83
99	Decreased Cord-Blood Phospholipids in Young Ageâ€"atâ€"Onset Type 1 Diabetes. Diabetes, 2013, 62, 3951-3956.	0.3	83
100	Whole Grain Products, Fish and Bilberries Alter Glucose and Lipid Metabolism in a Randomized, Controlled Trial: The Sysdimet Study. PLoS ONE, 2011, 6, e22646.	1.1	83
101	A computational framework to integrate high-throughput â€˜omicsâ€™ datasets for the identification of potential mechanistic links. Nature Protocols, 2018, 13, 2781-2800.	5.5	82
102	Cord Serum Lipidome in Prediction of Islet Autoimmunity and Type 1 Diabetes. Diabetes, 2013, 62, 3268-3274.	0.3	81
103	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. American Journal of Epidemiology, 2019, 188, 991-1012.	1.6	81
104	Triacylglycerol Fatty Acid Composition in Diet-Induced Weight Loss in Subjects with Abnormal Glucose Metabolism â€“ the GENOBIN Study. PLoS ONE, 2008, 3, e2630.	1.1	81
105	Secreted frizzled-related protein 1 regulates adipose tissue expansion and is dysregulated in severe obesity. International Journal of Obesity, 2010, 34, 1695-1705.	1.6	78
106	Phospholipase PLA2G7, associated with aggressive prostate cancer, promotes prostate cancer cell migration and invasion and is inhibited by statins. Oncotarget, 2011, 2, 1176-1190.	0.8	77
107	Adaptive Changes of the Insig1/SREBP1/SCD1 Set Point Help Adipose Tissue to Cope With Increased Storage Demands of Obesity. Diabetes, 2013, 62, 3697-3708.	0.3	76
108	Human Serum Metabolites Associate With Severity and Patient Outcomes in Traumatic Brain Injury. EBioMedicine, 2016, 12, 118-126.	2.7	76

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109	Metabolic Regulation in Progression to Autoimmune Diabetes. PLoS Computational Biology, 2011, 7, e1002257.	1.5	74
110	Connecting genes to metabolites by a systems biology approach. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9949-9950.	3.3	73
111	Prolonged sleep restriction induces changes in pathways involved in cholesterol metabolism and inflammatory responses. Scientific Reports, 2016, 6, 24828.	1.6	72
112	Interaction between dietary lipids and gut microbiota regulates hepatic cholesterol metabolism. Journal of Lipid Research, 2016, 57, 474-481.	2.0	72
113	Systems biology strategies to study lipidomes in health and disease. Progress in Lipid Research, 2014, 55, 43-60.	5.3	71
114	Optimizing the lipidomics workflow for clinical studiesâ€"practical considerations. Analytical and Bioanalytical Chemistry, 2015, 407, 4973-4993.	1.9	70
115	Integration of Metabolomics and Expression of Glycerol-3-phosphate Acyltransferase (GPAM) in Breast Cancerâ€"Link to Patient Survival, Hormone Receptor Status, and Metabolic Profiling. Journal of Proteome Research, 2012, 11, 850-860.	1.8	68
116	A Healthy Nordic Diet Alters the Plasma Lipidomic Profile in Adults with Features of Metabolic Syndrome in a Multicenter Randomized Dietary Intervention. Journal of Nutrition, 2016, 146, 662-672.	1.3	68
117	Metabolic Modeling of Human Gut Microbiota on a Genome Scale: An Overview. Metabolites, 2019, 9, 22.	1.3	66
118	Roux-en-Y Gastric Bypass Surgery Induces Early Plasma Metabolomic and Lipidomic Alterations in Humans Associated with Diabetes Remission. PLoS ONE, 2015, 10, e0126401.	1.1	66
119	Perspectives on Systems Modeling of Human Peripheral Blood Mononuclear Cells. Frontiers in Molecular Biosciences, 2017, 4, 96.	1.6	65
120	Differences in Muscle and Adipose Tissue Gene Expression and Cardio-Metabolic Risk Factors in the Members of Physical Activity Discordant Twin Pairs. PLoS ONE, 2010, 5, e12609.	1.1	65
121	Microbial metabolism of catechin stereoisomers by human faecal microbiota: Comparison of targeted analysis and a non-targeted metabolomics method. Phytochemistry Letters, 2008, 1, 18-22.	0.6	64
122	Peroxisomal and Microsomal Lipid Pathways Associated with Resistance to Hepatic Steatosis and Reduced Pro-inflammatory State. Journal of Biological Chemistry, 2010, 285, 31011-31023.	1.6	63
123	Fish Oil Supplementation Alters the Plasma Lipidomic Profile and Increases Long-Chain PUFAs of Phospholipids and Triglycerides in Healthy Subjects. PLoS ONE, 2012, 7, e42550.	1.1	63
124	Role of Cardiolipins in the Inner Mitochondrial Membrane: Insight Gained through Atom-Scale Simulations. Journal of Physical Chemistry B, 2009, 113, 3413-3422.	1.2	62
125	Hydroxysteroid 17-Î² dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. JCI Insight, 2020, 5, .	2.3	62
126	Splanchnic Balance of Free Fatty Acids, Endocannabinoids, and Lipids in Subjects With Nonalcoholic Fatty Liver Disease. Gastroenterology, 2010, 139, 1961-1971.e1.	0.6	61

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127	Phenotype Characterisation Using Integrated Gene Transcript, Protein and Metabolite Profiling. Applied Bioinformatics, 2004, 3, 205-217.	1.7	60
128	Characterization of microbial metabolism of Syrah grape products in an in vitro colon model using targeted and non-targeted analytical approaches. European Journal of Nutrition, 2013, 52, 833-846.	1.8	60
129	Lipidomics in nutrition and food research. Molecular Nutrition and Food Research, 2013, 57, 1306-1318.	1.5	60
130	Effects of Whole Grain, Fish and Bilberries on Serum Metabolic Profile and Lipid Transfer Protein Activities: A Randomized Trial (Sysdimet). PLoS ONE, 2014, 9, e90352.	1.1	60
131	Effect of probiotic Lactobacillus rhamnosus GG intervention on global serum lipidomic profiles in healthy adults. World Journal of Gastroenterology, 2008, 14, 3188.	1.4	60
132	Deep learning meets metabolomics: a methodological perspective. Briefings in Bioinformatics, 2021, 22, 1531-1542.	3.2	59
133	Circulating Triacylglycerol Signatures in Nonalcoholic Fatty Liver Disease Associated With the I148M Variant in PNPLA3 and With Obesity. Diabetes, 2014, 63, 312-322.	0.3	58
134	Human and preclinical studies of the hostâ€“gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health. Gut, 2021, 70, 2105-2114.	6.1	58
135	Dynamics of Plasma Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes â€“ Type 1 Diabetes Prediction and Prevention Study (DIPP). Scientific Reports, 2018, 8, 10635.	1.6	56
136	How to study lipidomes. Journal of Molecular Endocrinology, 2009, 42, 185-190.	1.1	55
137	Quantitative Proteomics Analysis of the Nuclear Fraction of Human CD4+ Cells in the Early Phases of IL-4-induced Th2 Differentiation. Molecular and Cellular Proteomics, 2010, 9, 1937-1953.	2.5	55
138	Caloric Restriction Ameliorates Angiotensin IIâ€“Induced Mitochondrial Remodeling and Cardiac Hypertrophy. Hypertension, 2012, 59, 76-84.	1.3	55
139	Quantitative profiling of bile acids in blood, adipose tissue, intestine, and gall bladder samples using ultra high performance liquid chromatography-tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 7799-7815.	1.9	55
140	Increased Dihydroceramide/Ceramide Ratio Mediated by Defective Expression of degs1 Impairs Adipocyte Differentiation and Function. Diabetes, 2015, 64, 1180-1192.	0.3	55
141	Genderâ€dependent progression of systemic metabolic states in early childhood. Molecular Systems Biology, 2008, 4, 197.	3.2	54
142	Peroxisome Proliferator-Activated Receptor Î³-Dependent Regulation of Lipolytic Nodes and Metabolic Flexibility. Molecular and Cellular Biology, 2012, 32, 1555-1565.	1.1	54
143	Linking Gut Microbiome and Lipid Metabolism: Moving beyond Associations. Metabolites, 2021, 11, 55.	1.3	54
144	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury. JAMA Neurology, 2021, 78, 1137.	4.5	53

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145	An Overview of Metabolomics Data Analysis: Current Tools and Future Perspectives. Comprehensive Analytical Chemistry, 2018, 82, 387-413.	0.7	52
146	Dietary carbohydrate modification alters serum metabolic profiles in individuals with the metabolic syndrome. Nutrition, Metabolism and Cardiovascular Diseases, 2010, 20, 249-257.	1.1	50
147	Variation in Structure and Process of Care in Traumatic Brain Injury: Provider Profiles of European Neurotrauma Centers Participating in the CENTER-TBI Study. PLoS ONE, 2016, 11, e0161367.	1.1	50
148	Tracing Specific Synonymous Codon-Secondary Structure Correlations Through Evolution. Journal of Molecular Evolution, 2003, 56, 473-484.	0.8	49
149	Rapid quantitative analysis of carnitine and acylcarnitines by ultra-high performanceâ€“hydrophilic interaction liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2013, 1292, 189-194.	1.8	48
150	Simultaneous determination of perfluoroalkyl substances and bile acids in human serum using ultra-high-performance liquid chromatographyâ€“tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 2251-2259.	1.9	48
151	The effect of fatty or lean fish intake on inflammatory gene expression in peripheral blood mononuclear cells of patients with coronary heart disease. European Journal of Nutrition, 2009, 48, 447-455.	1.8	47
152	Gut microbiota affects lens and retinal lipid composition. Experimental Eye Research, 2009, 89, 604-607.	1.2	45
153	Metabolomic Analysis of Plasma Metabolites That May Mediate Effects of Rye Bread on Satiety and Weight Maintenance in Postmenopausal Women. Journal of Nutrition, 2011, 141, 31-36.	1.3	45
154	Drug metabolome of the Simvastatin formed by human intestinal microbiota in vitro. Molecular BioSystems, 2011, 7, 437-446.	2.9	44
155	Adaptation and failure of pancreatic Î² cells in murine models with different degrees of metabolic syndrome. DMM Disease Models and Mechanisms, 2009, 2, 582-592.	1.2	43
156	Enterovirus-induced gene expression profile is critical for human pancreatic islet destruction. Diabetologia, 2012, 55, 3273-3283.	2.9	43
157	The Gut Microbiota Modulates Glycaemic Control and Serum Metabolite Profiles in Non-Obese Diabetic Mice. PLoS ONE, 2014, 9, e110359.	1.1	43
158	PPARÎ³ Modulates Long Chain Fatty Acid Processing in the Intestinal Epithelium. International Journal of Molecular Sciences, 2017, 18, 2559.	1.8	43
159	Capillary electrophoresis with UV detection and mass spectrometry in method development for profiling metabolites of steroid hormone metabolism. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 375-382.	1.2	42
160	Metabolic alterations in immune cells associate with progression to type 1 diabetes. Diabetologia, 2020, 63, 1017-1031.	2.9	42
161	Dysregulated Lipid Metabolism Precedes Onset of Psychosis. Biological Psychiatry, 2021, 89, 288-297.	0.7	42
162	Metabolomics in Angiotensin II-Induced Cardiac Hypertrophy. Hypertension, 2010, 55, 508-515.	1.3	40

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163	Monounsaturated fatty acids in serum triacylglycerols are associated with response to neoadjuvant chemotherapy in breast cancer patients. International Journal of Cancer, 2014, 134, 1725-1733.	2.3	40
164	Fluid balance and outcome in critically ill patients with traumatic brain injury (CENTER-TBI and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 20, 627-638.	4.9	40
165	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 235-251.	1.7	39
166	MARC1 variant rs2642438 increases hepatic phosphatidylcholines and decreases severity of non-alcoholic fatty liver disease in humans. Journal of Hepatology, 2020, 73, 725-726.	1.8	39
167	Elevated pro-inï¬‚ammatory and lipotoxic mucosal lipidscharacterise irritable bowel syndrome. World Journal of Gastroenterology, 2009, 15, 6068.	1.4	39
168	Hierarchical characterization of energy landscapes using Gaussian packet states. Journal of Chemical Physics, 1994, 101, 9844-9857.	1.2	38
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