

Matej Oresic

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3763411/publications.pdf>

Version: 2024-02-01

339
papers

33,198
citations

4120

87
h-index

4870

168
g-index

371
all docs

371
docs citations

371
times ranked

43611
citing authors

#	ARTICLE	IF	CITATIONS
1	MZmine 2: Modular framework for processing, visualizing, and analyzing mass spectrometry-based molecular profile data. <i>BMC Bioinformatics</i> , 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. <i>Cell Metabolism</i> , 2013, 17, 225-235.	7.2	1,671
3	Human gut microbes impact host serum metabolome and insulin sensitivity. <i>Nature</i> , 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. <i>Cell Host and Microbe</i> , 2015, 17, 260-273.	5.1	1,008
5	MZmine: toolbox for processing and visualization of mass spectrometry based molecular profile data. <i>Bioinformatics</i> , 2006, 22, 634-636.	1.8	725
6	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. <i>Nature Medicine</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5523-5528.	3.3	544
8	Data processing for mass spectrometry-based metabolomics. <i>Journal of Chromatography A</i> , 2007, 1158, 318-328.	1.8	537
9	The gut microbiota modulates host energy and lipid metabolism in mice. <i>Journal of Lipid Research</i> , 2010, 51, 1101-1112.	2.0	508
10	Novel Theranostic Opportunities Offered by Characterization of Altered Membrane Lipid Metabolism in Breast Cancer Progression. <i>Cancer Research</i> , 2011, 71, 3236-3245.	0.4	444
11	Metabolomics enables precision medicine: "A White Paper, Community Perspective". <i>Metabolomics</i> , 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. <i>Journal of Experimental Medicine</i> , 2008, 205, 2975-2984.	4.2	399
13	Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI). <i>Neurosurgery</i> , 2015, 76, 67-80.	0.6	386
14	Acquired Obesity Is Associated with Changes in the Serum Lipidomic Profile Independent of Genetic Effects " A Monozygotic Twin Study. <i>PLoS ONE</i> , 2007, 2, e218.	1.1	356
15	Integration of microRNA miR-122 in hepatic circadian gene expression. <i>Genes and Development</i> , 2009, 23, 1313-1326.	2.7	349
16	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. <i>PLoS Genetics</i> , 2007, 3, e64.	1.5	346
17	Hepatic ceramides dissociate steatosis and insulin resistance in patients with non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2016, 64, 1167-1175.	1.8	342
18	Processing methods for differential analysis of LC/MS profile data. <i>BMC Bioinformatics</i> , 2005, 6, 179.	1.2	327

#	ARTICLE	IF	CITATIONS
19	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	2.0	312
20	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Lancet Neurology</i> , The, 2019, 18, 923-934.	4.9	304
22	Normalization method for metabolomics data using optimal selection of multiple internal standards. <i>BMC Bioinformatics</i> , 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. <i>Diabetes</i> , 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. <i>Diabetes</i> , 2007, 56, 1960-1968.	0.3	279
25	Pathways to the analysis of microarray data. <i>Trends in Biotechnology</i> , 2005, 23, 429-435.	4.9	269
26	Saturated Fat Is More Metabolically Harmful for the Human Liver Than Unsaturated Fat or Simple Sugars. <i>Diabetes Care</i> , 2018, 41, 1732-1739.	4.3	266
27	Global Transcript Profiles of Fat in Monozygotic Twins Discordant for BMI: Pathways behind Acquired Obesity. <i>PLoS Medicine</i> , 2008, 5, e51.	3.9	265
28	Farnesoid X Receptor Deficiency Improves Glucose Homeostasis in Mouse Models of Obesity. <i>Diabetes</i> , 2011, 60, 1861-1871.	0.3	261
29	Analysis of microbiota in first episode psychosis identifies preliminary associations with symptom severity and treatment response. <i>Schizophrenia Research</i> , 2018, 192, 398-403.	1.1	252
30	Ablation of PGC-1 β Results in Defective Mitochondrial Activity, Thermogenesis, Hepatic Function, and Cardiac Performance. <i>PLoS Biology</i> , 2006, 4, e369.	2.6	249
31	Mitochondrial myopathy induces a starvation-like response. <i>Human Molecular Genetics</i> , 2010, 19, 3948-3958.	1.4	249
32	Metabolome in progression to Alzheimer's disease. <i>Translational Psychiatry</i> , 2011, 1, e57-e57.	2.4	238
33	Bioinformatics strategies for lipidomics analysis: characterization of obesity related hepatic steatosis. <i>BMC Systems Biology</i> , 2007, 1, 12.	3.0	234
34	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , 2018, 59, 2001-2017.	2.0	231
35	Exome Sequencing Identifies Mitochondrial Alanine-tRNA Synthetase Mutations in Infantile Mitochondrial Cardiomyopathy. <i>American Journal of Human Genetics</i> , 2011, 88, 635-642.	2.6	229
36	Association of Lipidome Remodeling in the Adipocyte Membrane with Acquired Obesity in Humans. <i>PLoS Biology</i> , 2011, 9, e1000623.	2.6	213

#	ARTICLE	IF	CITATIONS
37	Effects of an isocaloric healthy <sc>N</sc>ordic diet on insulin sensitivity, lipid profile and inflammation markers in metabolic syndrome – a randomized study (<sc>SYSDIET</sc>). 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, <i>Lactobacillus rhamnosus</i> GG 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- $\Delta 2$ Isoform. Diabetes, 2005, 54, 1706-1716.	0.3	157
52	Comparison of Lipid and Fatty Acid Composition of the Liver, Subcutaneous and Intraabdominal 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

#	ARTICLE	IF	CITATIONS
55	Comparative metabolomics of estrogen receptor positive and estrogen receptor negative breast cancer: alterations in glutamine and beta-alanine metabolism. <i>Journal of Proteomics</i> , 2013, 94, 279-288.	1.2	144
56	Salinomycin inhibits prostate cancer growth and migration via induction of oxidative stress. <i>British Journal of Cancer</i> , 2012, 106, 99-106.	2.9	141
57	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 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. <i>Journal of Hepatology</i> , 2016, 65, 1263-1265.	1.8	140
59	Genome-wide Profiling of Interleukin-4 and STAT6 Transcription Factor Regulation of Human Th2 Cell Programming. <i>Immunity</i> , 2010, 32, 852-862.	6.6	139
60	Algorithms and tools for the preprocessing of LC-MS metabolomics data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 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. <i>Journal of Lipid Research</i> , 2008, 49, 2038-2044.	2.0	136
62	Specific correlations between relative synonymous codon usage and protein secondary structure. <i>Journal of Molecular Biology</i> , 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. <i>Circulation Research</i> , 2008, 103, 1018-1026.	2.0	131
64	Metabolome in schizophrenia and other psychotic disorders: a general population-based study. <i>Genome Medicine</i> , 2011, 3, 19.	3.6	131
65	Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. <i>Diabetologia</i> , 2013, 56, 2266-2274.	2.9	129
66	Metabolomics, a novel tool for studies of nutrition, metabolism and lipid dysfunction. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2009, 19, 816-824.	1.1	128
67	Liquid Chromatography-Mass Spectrometry (LC-MS)-Based Lipidomics for Studies of Body Fluids and Tissues. <i>Methods in Molecular Biology</i> , 2011, 708, 247-257.	0.4	124
68	Remodeling of central metabolism in invasive breast cancer compared to normal breast tissue – a GC-TOFMS based metabolomics study. <i>BMC Genomics</i> , 2012, 13, 334.	1.2	123
69	Gut metabolome meets microbiome: A methodological perspective to understand the relationship between host and microbe. <i>Methods</i> , 2018, 149, 3-12.	1.9	123
70	Noninvasive Detection of Nonalcoholic Steatohepatitis Using Clinical Markers and Circulating Levels of Lipids and Metabolites. <i>Clinical Gastroenterology and Hepatology</i> , 2016, 14, 1463-1472.e6.	2.4	120
71	Human Tear Fluid Lipidome: From Composition to Function. <i>PLoS ONE</i> , 2011, 6, e19553.	1.1	119
72	Characterising metabolically healthy obesity in weight-discordant monozygotic twins. <i>Diabetologia</i> , 2014, 57, 167-176.	2.9	118

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

#	ARTICLE	IF	CITATIONS
91	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. <i>JCI Insight</i> , 2019, 4, .	2.3	93
92	Bioinformatics and computational methods for lipidomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2855-2862.	1.2	92
93	Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. <i>Genome Medicine</i> , 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. <i>Critical Care</i> , 2017, 21, 233.	2.5	88
95	MPEAâ€”metabolite pathway enrichment analysis. <i>Bioinformatics</i> , 2011, 27, 1878-1879.	1.8	85
96	Metabolomic approaches to phenotype characterization and applications to complex diseases. <i>Expert Review of Molecular Diagnostics</i> , 2006, 6, 575-585.	1.5	84
97	Self-organization and missing values in SOM and GTM. <i>Neurocomputing</i> , 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. <i>Nutrition Journal</i> , 2011, 10, 116.	1.5	83
99	Decreased Cord-Blood Phospholipids in Young Ageâ€”atâ€”Onset Type 1 Diabetes. <i>Diabetes</i> , 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. <i>PLoS ONE</i> , 2011, 6, e22646.	1.1	83
101	A computational framework to integrate high-throughput â€”omicsâ€” datasets for the identification of potential mechanistic links. <i>Nature Protocols</i> , 2018, 13, 2781-2800.	5.5	82
102	Cord Serum Lipidome in Prediction of Islet Autoimmunity and Type 1 Diabetes. <i>Diabetes</i> , 2013, 62, 3268-3274.	0.3	81
103	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. <i>American Journal of Epidemiology</i> , 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. <i>PLoS ONE</i> , 2008, 3, e2630.	1.1	81
105	Secreted frizzled-related protein 1 regulates adipose tissue expansion and is dysregulated in severe obesity. <i>International Journal of Obesity</i> , 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. <i>Oncotarget</i> , 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. <i>Diabetes</i> , 2013, 62, 3697-3708.	0.3	76
108	Human Serum Metabolites Associate With Severity and Patient Outcomes in Traumatic Brain Injury. <i>EBioMedicine</i> , 2016, 12, 118-126.	2.7	76

#	ARTICLE	IF	CITATIONS
109	Metabolic Regulation in Progression to Autoimmune Diabetes. <i>PLoS Computational Biology</i> , 2011, 7, e1002257.	1.5	74
110	Connecting genes to metabolites by a systems biology approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9949-9950.	3.3	73
111	Prolonged sleep restriction induces changes in pathways involved in cholesterol metabolism and inflammatory responses. <i>Scientific Reports</i> , 2016, 6, 24828.	1.6	72
112	Interaction between dietary lipids and gut microbiota regulates hepatic cholesterol metabolism. <i>Journal of Lipid Research</i> , 2016, 57, 474-481.	2.0	72
113	Systems biology strategies to study lipidomes in health and disease. <i>Progress in Lipid Research</i> , 2014, 55, 43-60.	5.3	71
114	Optimizing the lipidomics workflow for clinical studies—practical considerations. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4973-4993.	1.9	70
115	Integration of Metabolomics and Expression of Glycerol-3-phosphate Acyltransferase (GPAM) in Breast Cancer—Link to Patient Survival, Hormone Receptor Status, and Metabolic Profiling. <i>Journal of Proteome Research</i> , 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. <i>Journal of Nutrition</i> , 2016, 146, 662-672.	1.3	68
117	Metabolic Modeling of Human Gut Microbiota on a Genome Scale: An Overview. <i>Metabolites</i> , 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. <i>PLoS ONE</i> , 2015, 10, e0126401.	1.1	66
119	Perspectives on Systems Modeling of Human Peripheral Blood Mononuclear Cells. <i>Frontiers in Molecular Biosciences</i> , 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. <i>PLoS ONE</i> , 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. <i>Phytochemistry Letters</i> , 2008, 1, 18-22.	0.6	64
122	Peroxisomal and Microsomal Lipid Pathways Associated with Resistance to Hepatic Steatosis and Reduced Pro-inflammatory State. <i>Journal of Biological Chemistry</i> , 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. <i>PLoS ONE</i> , 2012, 7, e42550.	1.1	63
124	Role of Cardiolipins in the Inner Mitochondrial Membrane: Insight Gained through Atom-Scale Simulations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3413-3422.	1.2	62
125	Hydroxysteroid 17- β dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. <i>JCI Insight</i> , 2020, 5, .	2.3	62
126	Splanchnic Balance of Free Fatty Acids, Endocannabinoids, and Lipids in Subjects With Nonalcoholic Fatty Liver Disease. <i>Gastroenterology</i> , 2010, 139, 1961-1971.e1.	0.6	61

#	ARTICLE	IF	CITATIONS
127	Phenotype Characterisation Using Integrated Gene Transcript, Protein and Metabolite Profiling. <i>Applied Bioinformatics</i> , 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. <i>European Journal of Nutrition</i> , 2013, 52, 833-846.	1.8	60
129	Lipidomics in nutrition and food research. <i>Molecular Nutrition and Food Research</i> , 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). <i>PLoS ONE</i> , 2014, 9, e90352.	1.1	60
131	Effect of probiotic <i>Lactobacillus rhamnosus</i> GG intervention on global serum lipidomic profiles in healthy adults. <i>World Journal of Gastroenterology</i> , 2008, 14, 3188.	1.4	60
132	Deep learning meets metabolomics: a methodological perspective. <i>Briefings in Bioinformatics</i> , 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. <i>Diabetes</i> , 2014, 63, 312-322.	0.3	58
134	Human and preclinical studies of the host-gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health. <i>Gut</i> , 2021, 70, 2105-2114.	6.1	58
135	Dynamics of Plasma Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes – Type 1 Diabetes Prediction and Prevention Study (DIPP). <i>Scientific Reports</i> , 2018, 8, 10635.	1.6	56
136	How to study lipidomes. <i>Journal of Molecular Endocrinology</i> , 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. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1937-1953.	2.5	55
138	Caloric Restriction Ameliorates Angiotensin II-Induced Mitochondrial Remodeling and Cardiac Hypertrophy. <i>Hypertension</i> , 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. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7799-7815.	1.9	55
140	Increased Dihydroceramide/Ceramide Ratio Mediated by Defective Expression of <i>degs1</i> Impairs Adipocyte Differentiation and Function. <i>Diabetes</i> , 2015, 64, 1180-1192.	0.3	55
141	Gender-dependent progression of systemic metabolic states in early childhood. <i>Molecular Systems Biology</i> , 2008, 4, 197.	3.2	54
142	Peroxisome Proliferator-Activated Receptor β -Dependent Regulation of Lipolytic Nodes and Metabolic Flexibility. <i>Molecular and Cellular Biology</i> , 2012, 32, 1555-1565.	1.1	54
143	Linking Gut Microbiome and Lipid Metabolism: Moving beyond Associations. <i>Metabolites</i> , 2021, 11, 55.	1.3	54
144	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury. <i>JAMA Neurology</i> , 2021, 78, 1137.	4.5	53

#	ARTICLE	IF	CITATIONS
145	An Overview of Metabolomics Data Analysis: Current Tools and Future Perspectives. <i>Comprehensive Analytical Chemistry</i> , 2018, 82, 387-413.	0.7	52
146	Dietary carbohydrate modification alters serum metabolic profiles in individuals with the metabolic syndrome. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 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. <i>PLoS ONE</i> , 2016, 11, e0161367.	1.1	50
148	Tracing Specific Synonymous Codon-Secondary Structure Correlations Through Evolution. <i>Journal of Molecular Evolution</i> , 2003, 56, 473-484.	0.8	49
149	Rapid quantitative analysis of carnitine and acylcarnitines by ultra-high performance hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1292, 189-194.	1.8	48
150	Simultaneous determination of perfluoroalkyl substances and bile acids in human serum using ultra-high-performance liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 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. <i>European Journal of Nutrition</i> , 2009, 48, 447-455.	1.8	47
152	Gut microbiota affects lens and retinal lipid composition. <i>Experimental Eye Research</i> , 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. <i>Journal of Nutrition</i> , 2011, 141, 31-36.	1.3	45
154	Drug metabolome of the Simvastatin formed by human intestinal microbiota in vitro. <i>Molecular BioSystems</i> , 2011, 7, 437-446.	2.9	44
155	Adaptation and failure of pancreatic β^2 cells in murine models with different degrees of metabolic syndrome. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 582-592.	1.2	43
156	Enterovirus-induced gene expression profile is critical for human pancreatic islet destruction. <i>Diabetologia</i> , 2012, 55, 3273-3283.	2.9	43
157	The Gut Microbiota Modulates Glycaemic Control and Serum Metabolite Profiles in Non-Obese Diabetic Mice. <i>PLoS ONE</i> , 2014, 9, e110359.	1.1	43
158	PPAR β Modulates Long Chain Fatty Acid Processing in the Intestinal Epithelium. <i>International Journal of Molecular Sciences</i> , 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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 375-382.	1.2	42
160	Metabolic alterations in immune cells associate with progression to type 1 diabetes. <i>Diabetologia</i> , 2020, 63, 1017-1031.	2.9	42
161	Dysregulated Lipid Metabolism Precedes Onset of Psychosis. <i>Biological Psychiatry</i> , 2021, 89, 288-297.	0.7	42
162	Metabolomics in Angiotensin II-Induced Cardiac Hypertrophy. <i>Hypertension</i> , 2010, 55, 508-515.	1.3	40

#	ARTICLE	IF	CITATIONS
163	Monounsaturated fatty acids in serum triacylglycerols are associated with response to neoadjuvant chemotherapy in breast cancer patients. <i>International Journal of Cancer</i> , 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 50 702 20, 627-638.	4.9	40
165	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 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. <i>Journal of Hepatology</i> , 2020, 73, 725-726.	1.8	39
167	Elevated pro-inflammatory and lipotoxic mucosal lipids characterise irritable bowel syndrome. <i>World Journal of Gastroenterology</i> , 2009, 15, 6068.	1.4	39
168	Hierarchical characterization of energy landscapes using Gaussian packet states. <i>Journal of Chemical Physics</i> , 1994, 101, 9844-9857.	1.2	38
169	Methods for the Differential Integrative Omic Analysis of Plasma from a Transgenic Disease Animal Model. <i>OMICS A Journal of Integrative Biology</i> , 2004, 8, 267-288.	1.0	38
170	Multivariate multi-way analysis of multi-source data. <i>Bioinformatics</i> , 2010, 26, i391-i398.	1.8	38
171	Serum metabolite profile associates with the development of metabolic co-morbidities in first-episode psychosis. <i>Translational Psychiatry</i> , 2016, 6, e951-e951.	2.4	38
172	Identification of a plasma signature of psychotic disorder in children and adolescents from the Avon Longitudinal Study of Parents and Children (ALSPAC) cohort. <i>Translational Psychiatry</i> , 2017, 7, e1240-e1240.	2.4	38
173	Prenatal exposure to perfluoroalkyl substances modulates neonatal serum phospholipids, increasing risk of type 1 diabetes. <i>Environment International</i> , 2020, 143, 105935.	4.8	38
174	Metabolic transformations of dietary polyphenols: comparison between in vitro colonic and hepatic models and in vivo urinary metabolites. <i>Journal of Nutritional Biochemistry</i> , 2016, 33, 111-118.	1.9	37
175	Bioanalytical techniques in nontargeted clinical lipidomics. <i>Bioanalysis</i> , 2016, 8, 351-364.	0.6	37
176	Metabolomics Profiling As a Diagnostic Tool in Severe Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2017, 8, 398.	1.1	36
177	Accelerated renal disease is associated with the development of metabolic syndrome in a glucolipotoxic mouse model. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 636-48.	1.2	35
178	Genomic, Transcriptomic, and Lipidomic Profiling Highlights the Role of Inflammation in Individuals With Low High-density Lipoprotein Cholesterol. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 847-857.	1.1	35
179	Lipidomes in health and disease: Analytical strategies and considerations. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115664.	5.8	34
180	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 3315-3331.	1.7	34

#	ARTICLE	IF	CITATIONS
181	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation. <i>Lancet Neurology</i> , The, 2022, 21, 153-162.	4.9	34
182	Expression of ceramide-metabolising enzymes in subcutaneous and intra-abdominal human adipose tissue. <i>Lipids in Health and Disease</i> , 2012, 11, 115.	1.2	33
183	High Density Lipoprotein Structural Changes and Drug Response in Lipidomic Profiles following the Long-Term Fenofibrate Therapy in the FIELD Substudy. <i>PLoS ONE</i> , 2011, 6, e23589.	1.1	33
184	Proteomic-Based Detection of a Protein Cluster Dysregulated during Cardiovascular Development Identifies Biomarkers of Congenital Heart Defects. <i>PLoS ONE</i> , 2009, 4, e4221.	1.1	32
185	15-Hydroxyprostaglandin dehydrogenase associates with poor prognosis in breast cancer, induces epithelial-mesenchymal transition, and promotes cell migration in cultured breast cancer cells. <i>Journal of Pathology</i> , 2012, 226, 674-686.	2.1	32
186	The influence of sample collection methodology and sample preprocessing on the blood metabolic profile. <i>Bioanalysis</i> , 2015, 7, 991-1006.	0.6	32
187	Serum, plasma and erythrocyte membrane lipidomes in infants fed formula supplemented with bovine milk fat globule membranes. <i>Pediatric Research</i> , 2018, 84, 726-732.	1.1	32
188	Use of Blood Biomarkers in the Assessment of Sports-Related Concussion: A Systematic Review in the Context of Their Biological Significance. <i>Clinical Journal of Sport Medicine</i> , 2018, 28, 561-571.	0.9	31
189	Systems biology approaches to study lipidomes in health and disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158857.	1.2	31
190	Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. <i>Intensive Care Medicine</i> , 2021, 47, 1115-1129.	3.9	31
191	Metabolic signatures across the full spectrum of non-alcoholic fatty liver disease. <i>JHEP Reports</i> , 2022, 4, 100477.	2.6	31
192	Deletion of the metabolic transcriptional coactivator PGC1 β induces cardiac arrhythmia. <i>Cardiovascular Research</i> , 2011, 92, 29-38.	1.8	30
193	Metabolome and fecal microbiota in monozygotic twin pairs discordant for weight: a Big Mac challenge. <i>FASEB Journal</i> , 2014, 28, 4169-4179.	0.2	30
194	Metabolomics Analytics Workflow for Epidemiological Research: Perspectives from the Consortium of Metabolomics Studies (COMETS). <i>Metabolites</i> , 2019, 9, 145.	1.3	30
195	Circulating metabolites in progression to islet autoimmunity and type 1 diabetes. <i>Diabetologia</i> , 2019, 62, 2287-2297.	2.9	30
196	Persistent Alterations in Plasma Lipid Profiles Before Introduction of Gluten in the Diet Associated With Progression to Celiac Disease. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00044.	1.3	30
197	Informatics and computational strategies for the study of lipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 991-999.	1.2	29
198	Isoenergetic diets differing in their n-3 fatty acid and polyphenol content reflect different plasma and HDL fraction lipidomic profiles in subjects at high cardiovascular risk. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1873-1882.	1.5	29

#	ARTICLE	IF	CITATIONS
199	Serum metabolome associated with severity of acute traumatic brain injury. <i>Nature Communications</i> , 2022, 13, 2545.	5.8	29
200	Serum Lipidomics Meets Cardiac Magnetic Resonance Imaging: Profiling of Subjects at Risk of Dilated Cardiomyopathy. <i>PLoS ONE</i> , 2011, 6, e15744.	1.1	28
201	Lipidomics in biomedical research-practical considerations. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 800-803.	1.2	28
202	Effect of perfluorooctanesulfonic acid (PFOS) on the liver lipid metabolism of the developing chicken embryo. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 691-698.	2.9	28
203	A comparative evaluation of software for the analysis of liquid chromatography-tandem mass spectrometry data from isotope coded affinity tag experiments. <i>Proteomics</i> , 2005, 5, 2748-2760.	1.3	27
204	The Role of Metabolomics in Systems Biology. , 2003, , 171-198.		27
205	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. <i>Interface Focus</i> , 2013, 3, 20120072.	1.5	26
206	Integrated Lipidomics and Proteomics Point to Early Blood-Based Changes in Childhood Preceding Later Development of Psychotic Experiences: Evidence From the Avon Longitudinal Study of Parents and Children. <i>Biological Psychiatry</i> , 2019, 86, 25-34.	0.7	26
207	Surgery versus conservative treatment for traumatic acute subdural haematoma: a prospective, multicentre, observational, comparative effectiveness study. <i>Lancet Neurology</i> , The, 2022, 21, 620-631.	4.9	26
208	Applications of a new subspace clustering algorithm (COSA) in medical systems biology. <i>Metabolomics</i> , 2007, 3, 69-77.	1.4	25
209	Phenolic metabolites as compliance biomarker for polyphenol intake in a randomized controlled human intervention. <i>Food Research International</i> , 2014, 63, 233-238.	2.9	25
210	Metabolic Signatures of the Exposome—Quantifying the Impact of Exposure to Environmental Chemicals on Human Health. <i>Metabolites</i> , 2020, 10, 454.	1.3	25
211	Characterization of cerebrospinal fluid by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1293, 142-149.	1.8	24
212	Analytical Lipidomics in Metabolic and Clinical Research. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 671-673.	3.1	24
213	Lipidomics-Based Safety Biomarkers for Lipid-Lowering Treatments. <i>Angiology</i> , 2008, 59, 65S-68S.	0.8	23
214	Metabolomic changes in fatty liver can be modified by dietary protein and calcium during energy restriction. <i>World Journal of Gastroenterology</i> , 2008, 14, 4462.	1.4	23
215	Integrating post-genomic approaches as a strategy to advance our understanding of health and disease. <i>Genome Medicine</i> , 2009, 1, 35.	3.6	23
216	Compartmentation of glycogen metabolism revealed from ¹³ C isotopologue distributions. <i>BMC Systems Biology</i> , 2011, 5, 175.	3.0	23

#	ARTICLE	IF	CITATIONS
217	Links between central CB1-receptor availability and peripheral endocannabinoids in patients with first episode psychosis. <i>NPJ Schizophrenia</i> , 2020, 6, 21.	2.0	23
218	Building an international consortium for tracking coronavirus health status. <i>Nature Medicine</i> , 2020, 26, 1161-1165.	15.2	23
219	Double Derivatization Strategy for High-Sensitivity and High-Coverage Localization of Double Bonds in Free Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 6446-6455.	3.2	23
220	Outcome Prediction after Moderate and Severe Traumatic Brain Injury: External Validation of Two Established Prognostic Models in 1742 European Patients. <i>Journal of Neurotrauma</i> , 2021, 38, 1377-1388.	1.7	23
221	Activation of pregnane X receptor induces atherogenic lipids and PCSK9 by a SREBP2-mediated mechanism. <i>British Journal of Pharmacology</i> , 2021, 178, 2461-2481.	2.7	23
222	Bioinformatics Strategies for the Analysis of Lipids. , 2009, 580, 339-368.		23
223	A longitudinal plasma lipidomics dataset from children who developed islet autoimmunity and type 1 diabetes. <i>Scientific Data</i> , 2018, 5, 180250.	2.4	23
224	Exploring the lipoprotein composition using Bayesian regression on serum lipidomic profiles. <i>Bioinformatics</i> , 2007, 23, i519-i528.	1.8	22
225	Obesity and psychotic disorders: uncovering common mechanisms through metabolomics. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 614-620.	1.2	22
226	Metabolomics in the Studies of Islet Autoimmunity and Type 1 Diabetes. <i>Review of Diabetic Studies</i> , 2012, 9, 236-247.	0.5	22
227	Targeted Clinical Metabolite Profiling Platform for the Stratification of Diabetic Patients. <i>Metabolites</i> , 2019, 9, 184.	1.3	22
228	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. <i>Journal of Neurotrauma</i> , 2020, 37, 2069-2080.	1.7	22
229	Data integration and visualization system for enabling conceptual biology. <i>Bioinformatics</i> , 2005, 21, i177-i185.	1.8	21
230	Early Familial Dilated Cardiomyopathy: Identification with Determination of Disease State Parameter from Cine MR Image Data. <i>Radiology</i> , 2008, 249, 88-96.	3.6	21
231	Bioinformatics and computational approaches applicable to lipidomics. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 99-106.	1.0	21
232	Two-way analysis of high-dimensional collinear data. <i>Data Mining and Knowledge Discovery</i> , 2009, 19, 261-276.	2.4	21
233	Effects of long-term intake of lactotriptides on cardiovascular risk factors in hypertensive subjects. <i>European Journal of Clinical Nutrition</i> , 2012, 66, 843-849.	1.3	21
234	Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. <i>Neurocritical Care</i> , 2021, 35, 184-196.	1.2	21

#	ARTICLE	IF	CITATIONS
235	Regulation of lipid metabolism in breast cancer provides diagnostic and therapeutic opportunities. <i>Clinical Lipidology</i> , 2012, 7, 177-188.	0.4	20
236	Serum Metabolites Associated with Computed Tomography Findings after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2673-2683.	1.7	20
237	Toward a New Multi-Dimensional Classification of Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research for Traumatic Brain Injury Study. <i>Journal of Neurotrauma</i> , 2020, 37, 1002-1010.	1.7	20
238	Prediction of Global Functional Outcome and Post-Concussive Symptoms after Mild Traumatic Brain Injury: External Validation of Prognostic Models in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. <i>Journal of Neurotrauma</i> , 2021, 38, 196-209.	1.7	20
239	Increased serum miR-193a-5p during non-alcoholic fatty liver disease progression: Diagnostic and mechanistic relevance. <i>JHEP Reports</i> , 2022, 4, 100409.	2.6	20
240	Detection of Molecular Paths Associated with Insulinitis and Type 1 Diabetes in Non-Obese Diabetic Mouse. <i>PLoS ONE</i> , 2009, 4, e7323.	1.1	19
241	Lipocalin Prostaglandin D Synthase and PPAR β Coordinate to Regulate Carbohydrate and Lipid Metabolism In Vivo. <i>PLoS ONE</i> , 2012, 7, e39512.	1.1	19
242	Cord-Blood Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes. <i>Biomolecules</i> , 2019, 9, 33.	1.8	19
243	Early-life exposure to perfluorinated alkyl substances modulates lipid metabolism in progression to celiac disease. <i>Environmental Research</i> , 2020, 188, 109864.	3.7	19
244	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. <i>British Journal of Anaesthesia</i> , 2020, 125, 505-517.	1.5	19
245	Lipidomic and Metabolomic Signature of Progression of Chronic Kidney Disease in Patients with Severe Obesity. <i>Metabolites</i> , 2021, 11, 836.	1.3	19
246	The effect of atorvastatin treatment on serum oxysterol concentrations and cytochrome P450 3A4 activity. <i>British Journal of Clinical Pharmacology</i> , 2015, 80, 473-479.	1.1	18
247	The Metabolome in Finnish Carriers of the MYBPC3-Q1061X Mutation for Hypertrophic Cardiomyopathy. <i>PLoS ONE</i> , 2015, 10, e0134184.	1.1	18
248	Model of a quasi-one-dimensional spin glass. <i>Physical Review B</i> , 1993, 47, 2655-2660.	1.1	17
249	The PNPLA3 Δ 148M variant increases polyunsaturated triglycerides in human adipose tissue. <i>Liver International</i> , 2020, 40, 2128-2138.	1.9	17
250	A genome-wide association study of outcome from traumatic brain injury. <i>EBioMedicine</i> , 2022, 77, 103933.	2.7	17
251	Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. <i>Journal of Neurotrauma</i> , 2021, 38, 1842-1857.	1.7	16
252	Application of Lipidomics and Metabolomics to the Study of Adipose Tissue. <i>Methods in Molecular Biology</i> , 2008, 456, 123-130.	0.4	16

#	ARTICLE	IF	CITATIONS
253	An integrative approach for biological data mining and visualisation. <i>International Journal of Data Mining and Bioinformatics</i> , 2008, 2, 54.	0.1	14
254	Systems medicine and the integration of bioinformatic tools for the diagnosis of alzheimer's disease. <i>Genome Medicine</i> , 2010, 2, 83.	3.6	14
255	Interfacial Properties of High-Density Lipoprotein-like Lipid Droplets with Different Lipid and Apolipoprotein A-I Compositions. <i>Biophysical Journal</i> , 2013, 104, 2193-2201.	0.2	14
256	Platform for systems medicine research and diagnostic applications in psychotic disordersâ€”The METSY project. <i>European Psychiatry</i> , 2018, 50, 40-46.	0.1	14
257	Targeted Serum Metabolite Profiling Identifies Metabolic Signatures in Patients with Alzheimer's Disease, Normal Pressure Hydrocephalus and Brain Tumor. <i>Frontiers in Neuroscience</i> , 2017, 11, 747.	1.4	14
258	Glucosylceramide synthase deficiency in the heart compromises β ¹ -adrenergic receptor trafficking. <i>European Heart Journal</i> , 2021, 42, 4481-4492.	1.0	14
259	Metabolomic strategies to identify tissue-specific effects of cardiovascular drugs. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008, 4, 665-680.	1.5	13
260	Overexpression of PPAR β Specifically in Pancreatic β -Cells Exacerbates Obesity-Induced Glucose Intolerance, Reduces β -Cell Mass, and Alters Islet Lipid Metabolism in Male Mice. <i>Endocrinology</i> , 2014, 155, 3843-3852.	1.4	13
261	High-Dose Simvastatin Exhibits Enhanced Lipid-Lowering Effects Relative to Simvastatin/Ezetimibe Combination Therapy. <i>Circulation: Cardiovascular Genetics</i> , 2014, 7, 955-964.	5.1	13
262	Modeling strategies to study metabolic pathways in progression to type 1 diabetes â€” Challenges and opportunities. <i>Archives of Biochemistry and Biophysics</i> , 2016, 589, 131-137.	1.4	13
263	Glycomic and Glycoproteomic Techniques in Neurodegenerative Disorders and Neurotrauma: Towards Personalized Markers. <i>Cells</i> , 2022, 11, 581.	1.8	13
264	Dynamic network topology changes in functional modules predict responses to oxidative stress in yeast. <i>Molecular BioSystems</i> , 2009, 5, 276.	2.9	12
265	Metabolomic analysis of polar metabolites in lipoprotein fractions identifies lipoprotein-specific metabolic profiles and their association with insulin resistance. <i>Molecular BioSystems</i> , 2012, 8, 2559.	2.9	12
266	The DEXLIFE study methods: Identifying novel candidate biomarkers that predict progression to type 2 diabetes in high risk individuals. <i>Diabetes Research and Clinical Practice</i> , 2014, 106, 383-389.	1.1	12
267	Longitudinal plasma metabolic profiles, infant feeding, and islet autoimmunity in the MIDIA study. <i>Pediatric Diabetes</i> , 2017, 18, 111-119.	1.2	12
268	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. <i>Neurorehabilitation and Neural Repair</i> , 2020, 34, 814-830.	1.4	12
269	Comparison of Care System and Treatment Approaches for Patients with Traumatic Brain Injury in China versus Europe: A CENTER-TBI Survey Study. <i>Journal of Neurotrauma</i> , 2020, 37, 1806-1817.	1.7	12
270	Integrative Analysis of Circulating Metabolite Profiles and Magnetic Resonance Imaging Metrics in Patients with Traumatic Brain Injury. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1395.	1.8	12

#	ARTICLE	IF	CITATIONS
271	4 β -Hydroxycholesterol Signals From the Liver to Regulate Peripheral Cholesterol Transporters. <i>Frontiers in Pharmacology</i> , 2020, 11, 361.	1.6	12
272	Frequency of fatigue and its changes in the first 6 months after traumatic brain injury: results from the CENTER-TBI study. <i>Journal of Neurology</i> , 2021, 268, 61-73.	1.8	12
273	Exposure to per- and polyfluoroalkyl substances associates with an altered lipid composition of breast milk. <i>Environment International</i> , 2021, 157, 106855.	4.8	12
274	Functional prediction of unidentified lipids using supervised classifiers. <i>Metabolomics</i> , 2010, 6, 18-26.	1.4	11
275	Brain death and postmortem organ donation: report of a questionnaire from the CENTER-TBI study. <i>Critical Care</i> , 2018, 22, 306.	2.5	11
276	Management of arterial partial pressure of carbon dioxide in the first week after traumatic brain injury: results from the CENTER-TBI study. <i>Intensive Care Medicine</i> , 2021, 47, 961-973.	3.9	11
277	Integrated Model of Metabolism and Autoimmune Response in β -Cell Death and Progression to Type 1 Diabetes. <i>PLoS ONE</i> , 2012, 7, e51909.	1.1	11
278	Health care utilization and outcomes in older adults after Traumatic Brain Injury: A CENTER-TBI study. <i>Injury</i> , 2022, 53, 2774-2782.	0.7	11
279	Prognostic Validation of the NINDS Common Data Elements for the Radiologic Reporting of Acute Traumatic Brain Injuries: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , 2020, 37, 1269-1282.	1.7	10
280	How do 66 European institutional review boards approve one protocol for an international prospective observational study on traumatic brain injury? Experiences from the CENTER-TBI study. <i>BMC Medical Ethics</i> , 2020, 21, 36.	1.0	10
281	Systems biology strategy to study lipotoxicity and the metabolic syndrome. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 235-239.	1.2	9
282	Matching samples of multiple views. <i>Data Mining and Knowledge Discovery</i> , 2011, 23, 300-321.	2.4	9
283	Imbalance of plasma amino acids, metabolites and lipids in patients with lysinuric protein intolerance (LPI). <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 1361-1375.	1.5	9
284	Association Between Circulating Lipids and Future Weight Gain in Individuals With an At-Risk Mental State and in First-Episode Psychosis. <i>Schizophrenia Bulletin</i> , 2021, 47, 160-169.	2.3	9
285	Serum Lipid and Serum Metabolite Components in relation to anthropometric parameters in EPIC-Potsdam participants. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 1348-1358.	1.5	8
286	Conjugated C-6 hydroxylated bile acids in serum relate to human metabolic health and gut Clostridia species. <i>Scientific Reports</i> , 2021, 11, 13252.	1.6	8
287	Perfluoroalkyl substances are increased in patients with late-onset ulcerative colitis and induce intestinal barrier defects <i>in vivo</i> in murine intestinal tissue. <i>Scandinavian Journal of Gastroenterology</i> , 2021, 56, 1286-1295.	0.6	8
288	Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2021, 29, 113.	1.1	8

#	ARTICLE	IF	CITATIONS
289	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. <i>Journal of Critical Care</i> , 2020, 59, 6-15.	1.0	8
290	Quantitative genome-scale metabolic modeling of human CD4+ T cell differentiation reveals subset-specific regulation of glycosphingolipid pathways. <i>Cell Reports</i> , 2021, 37, 109973.	2.9	8
291	Analysis of the SYSDIET Healthy Nordic Diet randomized trial based on metabolic profiling reveal beneficial effects on glucose metabolism and blood lipids. <i>Clinical Nutrition</i> , 2022, 41, 441-451.	2.3	8
292	Improving Identification of Differentially Expressed Genes by Integrative Analysis of Affymetrix and Illumina Arrays. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 369-380.	1.0	7
293	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. <i>Cell Host and Microbe</i> , 2016, 20, 121.	5.1	7
294	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. <i>Metabolomics</i> , 2021, 17, 55.	1.4	7
295	Lipidomic Analyses Reveal Modulation of Lipid Metabolism by the PFAS Perfluoroundecanoic Acid (PFUnDA) in Non-Obese Diabetic Mice. <i>Frontiers in Genetics</i> , 2021, 12, 721507.	1.1	7
296	T-cell activation induces selective changes of cellular lipidome. <i>Frontiers in Bioscience - Elite</i> , 2013, E5, 558-573.	0.9	5
297	Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. <i>JAMA Network Open</i> , 2021, 4, e2134121.	2.8	5
298	Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. <i>Brain and Spine</i> , 2022, 2, 100854.	0.0	5
299	Health-related quality of life after traumatic brain injury: deriving value sets for the QOLIBRI-OS for Italy, The Netherlands and The United Kingdom. <i>Quality of Life Research</i> , 2020, 29, 3095-3107.	1.5	4
300	1-Deoxyceramides – Key players in lipotoxicity and progression to type 2 diabetes?. <i>Acta Physiologica</i> , 2021, 232, e13635.	1.8	4
301	Persistent postconcussive symptoms in children and adolescents with mild traumatic brain injury receiving initial head computed tomography. <i>Journal of Neurosurgery: Pediatrics</i> , 2021, 27, 538-547.	0.8	4
302	Permutation-based significance analysis reduces the type 1 error rate in bisulphite sequencing data analysis of human umbilical cord blood samples. <i>Epigenetics</i> , 2022, 17, 1608-1627.	1.3	4
303	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis. <i>Neurocritical Care</i> , 2022, 36, 927-941.	1.2	4
304	Umbilical cord blood DNA methylation in children who later develop type 1 diabetes. <i>Diabetologia</i> , 2022, 65, 1534-1540.	2.9	4
305	Systems Biology in Human Health and Disease. , 2014, , 17-23.		3
306	Potential Transdiagnostic Lipid Mediators of Inflammatory Activity in Individuals With Serious Mental Illness. <i>Frontiers in Psychiatry</i> , 2021, 12, 778325.	1.3	3

#	ARTICLE	IF	CITATIONS
307	Vibrational Spectroscopy for the Triage of Traumatic Brain Injury Computed Tomography Priority and Hospital Admissions. <i>Journal of Neurotrauma</i> , 2022, 39, 773-783.	1.7	3
308	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. <i>Neurocritical Care</i> , 2021, , 1.	1.2	3
309	Impact of Extensively Hydrolyzed Infant Formula on Circulating Lipids During Early Life. <i>Frontiers in Nutrition</i> , 2022, 9, .	1.6	3
310	Survey of muscle characteristics after statin-induced rhabdomyolysis. <i>Clinical Lipidology</i> , 2010, 5, 17-27.	0.4	2
311	Integration of transcription and flux data reveals molecular paths associated with differences in oxygen-dependent phenotypes of <i>Saccharomyces cerevisiae</i> . <i>BMC Systems Biology</i> , 2014, 8, 16.	3.0	2
312	42.3 METABOLOMICS APPROACHES TO STUDY METABOLIC CO-MORBIDITIES IN PSYCHOTIC DISORDERS. <i>Schizophrenia Bulletin</i> , 2018, 44, S69-S69.	2.3	2
313	Allostatic hypermetabolic response in $PGC1\alpha/\beta$ heterozygote mouse despite mitochondrial defects. <i>FASEB Journal</i> , 2021, 35, e21752.	0.2	2
314	Cross-Species Translation of Multi-way Biomarkers. <i>Lecture Notes in Computer Science</i> , 2011, , 209-216.	1.0	2
315	Graphical Multi-way Models. <i>Lecture Notes in Computer Science</i> , 2010, , 538-553.	1.0	2
316	Plasma lipid alterations in young adults with psychotic experiences: A study from the Avon Longitudinal Study of Parents and Children cohort. <i>Schizophrenia Research</i> , 2022, 243, 78-85.	1.1	2
317	Meeting highlights from the 2013 European Society of Cardiology Heart Failure Association Winter Meeting on Translational Heart Failure Research. <i>European Journal of Heart Failure</i> . 2014, 16, 6-14.	2.9	1
318	Role of Microbiota in Regulating Host Lipid Metabolism and Disease Risk. <i>Molecular and Integrative Toxicology</i> , 2015, , 235-260.	0.5	1
319	Abstract 5573: GC-TOF mass spectroscopy reveals strong dependence of breast cancer metabolome on estrogen receptor, but not on HER2 status. , 2010, , .		1
320	Abstract 4806: Association of changes in 4-aminobutyrate aminotransferase (ABAT) and beta-alanine metabolism with breast cancer and the more aggressive estrogen receptor negative subtype. , 2012, , .		1
321	Lipidomics in nutrition research. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2022, 25, 311-318.	1.3	1
322	Monte Carlo simulation of a quasi one-dimensional spin glass. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 506-509.	1.5	0
323	ApoCIII-enriched LDL in type 2 diabetes displays altered lipid composition and increased susceptibility for sphingomyelinase. <i>Chemistry and Physics of Lipids</i> , 2008, 154, S13.	1.5	0
324	ELEVATED SERUM SPHINGOMYELIN ASSOCIATES WITH REDUCED GRAY MATTER DENSITY: EVIDENCE FROM TWINS DISCORDANT FOR SCHIZOPHRENIA. <i>Schizophrenia Research</i> , 2010, 117, 370-371.	1.1	0

#	ARTICLE	IF	CITATIONS
325	Second international symposium on mass spectrometry in life sciences. <i>Metabolomics</i> , 2011, 7, 623-624.	1.4	0
326	Data Handling. <i>RSC Chromatography Monographs</i> , 2013, , 183-194.	0.1	0
327	Metabolomics to Study Psychotic Disorders and Their Metabolic Comorbidities. <i>Advances in Biological Psychiatry</i> , 2014, , 74-74.	0.2	0
328	MS-Based Lipidomics. <i>Comprehensive Analytical Chemistry</i> , 2014, 64, 375-393.	0.7	0
329	O045 : Bioactive lipids in the human liver in "Common NAFLD"™ and "PNPLA3 NAFLD"™. <i>Journal of Hepatology</i> , 2015, 62, S211.	1.8	0
330	Metabolism of human liver on a genome scale in non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2020, 73, S671-S672.	1.8	0
331	Metabolomics approaches to identify biomarkers of non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2020, 73, S438.	1.8	0
332	The Role of Omic Technologies in the Study of the Human Gut Microbiome. , 2021, , 469-481.		0
333	Integrating Transcriptional and Metabolic Profiling to Unravel Secondary Metabolite Biosynthesis in Plants. , 2007, , 135-138.		0
334	Systems Biology Strategies in Studies of Energy Homeostasis In Vivo. , 2009, , 354-360.		0
335	Searching for Linear Dependencies between Heart Magnetic Resonance Images and Lipid Profiles. <i>Lecture Notes in Computer Science</i> , 2010, , 232-243.	1.0	0
336	Abstract 2597: PLA2G7 associates with aggressive prostate cancer in vivo and regulates prostate cancer cell migration and adhesion in vitro. , 2011, , .		0
337	Heterogeneous Biological Network Visualization System: Case Study in Context of Medical Image Data. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 95-118.	0.8	0
338	A Regression Subset-Selection Strategy for Fat-Structure Data. , 2008, , 349-358.		0
339	Chapter 7. Addressing the Health Beneficial Aspects of Nutrition"™The Example of the Obesity Epidemic. <i>RSC Food Analysis Monographs</i> , 0, , 237-243.	0.2	0