Matej Oresic

List of Publications by Citations

332 papers	24,266 citations	78 h-index	149 g-index
371 ext. papers	29,303 ext. citations	7 avg, IF	6.83 L-index

#	Paper	IF	Citations
332	MZmine 2: modular framework for processing, visualizing, and analyzing mass spectrometry-based molecular profile data. *BMC Bioinformatics*, **2010**, 11, 395	3.6	1975
331	Gut microbiota regulates bile acid metabolism by reducing the levels of tauro-beta-muricholic acid, a naturally occurring FXR antagonist. *Cell Metabolism*, **2013**, 17, 225-35	24.6	1204
330	Human gut microbes impact host serum metabolome and insulin sensitivity. *Nature*, **2016**, 535, 376-81	50.4	977
329	The dynamics of the human infant gut microbiome in development and in progression toward type 1 diabetes. *Cell Host and Microbe*, **2015**, 17, 260-73	23.4	639
328	MZmine: toolbox for processing and visualization of mass spectrometry based molecular profile data. *Bioinformatics*, **2006**, 22, 634-6	7.2	606
327	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. *Nature Medicine*, **2010**, 16, 1001-8	50.5	502
326	Data processing for mass spectrometry-based metabolomics. *Journal of Chromatography A*, **2007**, 1158, 318-28	4.5	478
325	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, 5523-8	11.5	422
324	The gut microbiota modulates host energy and lipid metabolism in mice. *Journal of Lipid Research*, **2010**, 51, 1101-12	6.3	401
323	Novel theranostic opportunities offered by characterization of altered membrane lipid metabolism in breast cancer progression. *Cancer Research*, **2011**, 71, 3236-45	10.1	363
322	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, 2975-84	16.6	329
321	Metabolomics enables precision medicine: "A White Paper, Community Perspective". *Metabolomics*, **2016**, 12, 149	4.7	327
320	Acquired obesity is associated with changes in the serum lipidomic profile independent of genetic effects--a monozygotic twin study. *PLoS ONE*, **2007**, 2, e218	3.7	306
319	PPAR gamma 2 prevents lipotoxicity by controlling adipose tissue expandability and peripheral lipid metabolism. *PLoS Genetics*, **2007**, 3, e64	6	304
318	Processing methods for differential analysis of LC/MS profile data. *BMC Bioinformatics*, **2005**, 6, 179	3.6	296
317	Integration of microRNA miR-122 in hepatic circadian gene expression. *Genes and Development*, **2009**, 23, 1313-26	12.6	286
316	Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI): a prospective longitudinal observational study. *Neurosurgery*, **2015**, 76, 67-80	3.2	276

315	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, 5614-9	11.5	272
314	Hepatic ceramides dissociate steatosis and insulin resistance in patients with non-alcoholic fatty liver disease. *Journal of Hepatology*, **2016**, 64, 1167-1175	13.4	252
313	Differential lipid partitioning between adipocytes and tissue macrophages modulates macrophage lipotoxicity and M2/M1 polarization in obese mice. *Diabetes*, **2011**, 60, 797-809	0.9	248
312	Normalization method for metabolomics data using optimal selection of multiple internal standards. *BMC Bioinformatics*, **2007**, 8, 93	3.6	240
311	Adipose tissue inflammation and increased ceramide content characterize subjects with high liver fat content independent of obesity. *Diabetes*, **2007**, 56, 1960-8	0.9	240
310	Pathways to the analysis of microarray data. *Trends in Biotechnology*, **2005**, 23, 429-35	15.1	229
309	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950-Metabolites in Frozen Human Plasma. *Journal of Lipid Research*, **2017**, 58, 2275-2288	6.3	220
308	Farnesoid X receptor deficiency improves glucose homeostasis in mouse models of obesity. *Diabetes*, **2011**, 60, 1861-71	0.9	219
307	Global transcript profiles of fat in monozygotic twins discordant for BMI: pathways behind acquired obesity. *PLoS Medicine*, **2008**, 5, e51	11.6	218
306	Ablation of PGC-1beta results in defective mitochondrial activity, thermogenesis, hepatic function, and cardiac performance. *PLoS Biology*, **2006**, 4, e369	9.7	217
305	Bioinformatics strategies for lipidomics analysis: characterization of obesity related hepatic steatosis. *BMC Systems Biology*, **2007**, 1, 12	3.5	204
304	Exome sequencing identifies mitochondrial alanyl-tRNA synthetase mutations in infantile mitochondrial cardiomyopathy. *American Journal of Human Genetics*, **2011**, 88, 635-42	11	195
303	A systems biology strategy reveals biological pathways and plasma biomarker candidates for potentially toxic statin-induced changes in muscle. *PLoS ONE*, **2006**, 1, e97	3.7	193
302	Mitochondrial myopathy induces a starvation-like response. *Human Molecular Genetics*, **2010**, 19, 3948-58	9.6	192
301	Metabolome in progression to Alzheimer's disease. *Translational Psychiatry*, **2011**, 1, e57	8.6	186
300	Analysis of microbiota in first episode psychosis identifies preliminary associations with symptom severity and treatment response. *Schizophrenia Research*, **2018**, 192, 398-403	3.6	177
299	Effects of an isocaloric healthy Nordic diet on insulin sensitivity, lipid profile and inflammation markers in metabolic syndrome -- a randomized study (SYSDIET). *Journal of Internal Medicine*, **2013**, 274, 52-66	10.8	175
298	Hepatic stearoyl-CoA desaturase (SCD)-1 activity and diacylglycerol but not ceramide concentrations are increased in the nonalcoholic human fatty liver. *Diabetes*, **2009**, 58, 203-8	0.9	175

297	Association of lipidome remodeling in the adipocyte membrane with acquired obesity in humans. *PLoS Biology*, **2011**, 9, e1000623	9.7	169
296	Informatics and computational strategies for the study of lipids. *Molecular BioSystems*, **2008**, 4, 121-7		167
295	Saturated Fat Is More Metabolically Harmful for the Human Liver Than Unsaturated Fat or Simple Sugars. *Diabetes Care*, **2018**, 41, 1732-1739	14.6	167
294	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. *Journal of Lipid Research*, **2018**, 59, 2001-2017	6.3	146
293	Serum saturated fatty acids containing triacylglycerols are better markers of insulin resistance than total serum triacylglycerol concentrations. *Diabetologia*, **2009**, 52, 684-90	10.3	146
292	Data analysis tool for comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. *Analytical Chemistry*, **2011**, 83, 3058-67	7.8	143
291	Ketogenic diet slows down mitochondrial myopathy progression in mice. *Human Molecular Genetics*, **2010**, 19, 1974-84	5.6	140
290	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	24.1	139
289	The link between nutritional status and insulin sensitivity is dependent on the adipocyte-specific peroxisome proliferator-activated receptor-gamma2 isoform. *Diabetes*, **2005**, 54, 1706-16	0.9	139
288	Lipidomics: a new window to biomedical frontiers. *Trends in Biotechnology*, **2008**, 26, 647-52	15.1	133
287	Associations between the human intestinal microbiota, Lactobacillus rhamnosus GG and serum lipids indicated by integrated analysis of high-throughput profiling data. *PeerJ*, **2013**, 1, e32	3.1	132
286	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. *Cell Metabolism*, **2017**, 26, 212-229.e12	24.6	128
285	Link between plasma ceramides, inflammation and insulin resistance: association with serum IL-6 concentration in patients with coronary heart disease. *Diabetologia*, **2009**, 52, 2612-5	10.3	121
284	Comparison of lipid and fatty acid composition of the liver, subcutaneous and intra-abdominal adipose tissue, and serum. *Obesity*, **2010**, 18, 937-44	8	120
283	Algorithms and tools for the preprocessing of LC–MS metabolomics data. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 108, 23-32	3.8	117
282	Blocking VLDL secretion causes hepatic steatosis but does not affect peripheral lipid stores or insulin sensitivity in mice. *Journal of Lipid Research*, **2008**, 49, 2038-44	6.3	117
281	Salinomycin inhibits prostate cancer growth and migration via induction of oxidative stress. *British Journal of Cancer*, **2012**, 106, 99-106	8.7	114
280	Comparative metabolomics of estrogen receptor positive and estrogen receptor negative breast cancer: alterations in glutamine and beta-alanine metabolism. *Journal of Proteomics*, **2013**, 94, 279-88	3.9	113

279	Genome-wide profiling of interleukin-4 and STAT6 transcription factor regulation of human Th2 cell programming. *Immunity*, **2010**, 32, 852-62	32.3	113
278	Specific correlations between relative synonymous codon usage and protein secondary structure. *Journal of Molecular Biology*, **1998**, 281, 31-48	6.5	111
277	Metabolome in schizophrenia and other psychotic disorders: a general population-based study. *Genome Medicine*, **2011**, 3, 19	14.4	110
276	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. *Cell*, **2019**, 177, 881-895.e17	56.2	109
275	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. *Metabolomics*, **2015**, 11, 1587-1597	4.7	109
274	Liquid chromatography-mass spectrometry (LC-MS)-based lipidomics for studies of body fluids and tissues. *Methods in Molecular Biology*, **2011**, 708, 247-57	1.4	108
273	Metabolomics, a novel tool for studies of nutrition, metabolism and lipid dysfunction. *Nutrition, Metabolism and Cardiovascular Diseases*, **2009**, 19, 816-24	4.5	107
272	Overexpression of vascular endothelial growth factor-B in mouse heart alters cardiac lipid metabolism and induces myocardial hypertrophy. *Circulation Research*, **2008**, 103, 1018-26	15.7	107
271	Characterising metabolically healthy obesity in weight-discordant monozygotic twins. *Diabetologia*, **2014**, 57, 167-76	10.3	104
270	Remodeling of central metabolism in invasive breast cancer compared to normal breast tissue - a GC-TOFMS based metabolomics study. *BMC Genomics*, **2012**, 13, 334	4.5	102
269	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	13.4	102
268	Fatty fish intake decreases lipids related to inflammation and insulin signaling--a lipidomics approach. *PLoS ONE*, **2009**, 4, e5258	3.7	101
267	Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. *Diabetologia*, **2013**, 56, 2266-74	10.3	100
266	Integrative biological analysis of the APOE*3-leiden transgenic mouse. *OMICS A Journal of Integrative Biology*, **2004**, 8, 3-13	3.8	99
265	Metabolic associations of reduced proliferation and oxidative stress in advanced breast cancer. *Cancer Research*, **2012**, 72, 5712-20	10.1	98
264	ApoCIII-enriched LDL in type 2 diabetes displays altered lipid composition, increased susceptibility for sphingomyelinase, and increased binding to biglycan. *Diabetes*, **2009**, 58, 2018-26	0.9	97
263	Human tear fluid lipidome: from composition to function. *PLoS ONE*, **2011**, 6, e19553	3.7	94
262	Composition and lipid spatial distribution of HDL particles in subjects with low and high HDL-cholesterol. *Journal of Lipid Research*, **2010**, 51, 2341-51	6.3	93

261 Data standards can boost metabolomics research, and if there is a will, there is a way. *Metabolomics* , **2016**, 12, 14 — 4.7 — 85

260 Circulating triacylglycerol signatures and insulin sensitivity in NAFLD associated with the E167K variant in TM6SF2. *Journal of Hepatology*, **2015**, 62, 657-63 — 13.4 — 84

259 Noninvasive Detection of Nonalcoholic Steatohepatitis Using Clinical Markers and Circulating Levels of Lipids and Metabolites. *Clinical Gastroenterology and Hepatology*, **2016**, 14, 1463-1472.e6 — 6.9 — 82

258 Metabolomic approaches to phenotype characterization and applications to complex diseases. *Expert Review of Molecular Diagnostics*, **2006**, 6, 575-85 — 3.8 — 82

257 Phospholipids and insulin resistance in psychosis: a lipidomics study of twin pairs discordant for schizophrenia. *Genome Medicine*, **2012**, 4, 1 — 14.4 — 80

256 Systematic construction of gene coexpression networks with applications to human T helper cell differentiation process. *Bioinformatics*, **2007**, 23, 2096-103 — 7.2 — 79

255 Bioinformatics and computational methods for lipidomics. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 2855-62 — 3.2 — 78

254 Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. *Genome Medicine*, **2012**, 4, 37 — 14.4 — 74

253 Age- and islet autoimmunity-associated differences in amino acid and lipid metabolites in children at risk for type 1 diabetes. *Diabetes*, **2011**, 60, 2740-7 — 0.9 — 73

252 Triacylglycerol fatty acid composition in diet-induced weight loss in subjects with abnormal glucose metabolism--the GENOBIN study. *PLoS ONE*, **2008**, 3, e2630 — 3.7 — 73

251 Lipidome as a predictive tool in progression to type 2 diabetes in Finnish men. *Metabolism: Clinical and Experimental*, **2018**, 78, 1-12 — 12.7 — 72

250 Gut metabolome meets microbiome: A methodological perspective to understand the relationship between host and microbe. *Methods*, **2018**, 149, 3-12 — 4.6 — 71

249 Whole grain products, fish and bilberries alter glucose and lipid metabolism in a randomized, controlled trial: the Sysdimet study. *PLoS ONE*, **2011**, 6, e22646 — 3.7 — 71

248 Impaired hepatic lipid synthesis from polyunsaturated fatty acids in TM6SF2 E167K variant carriers with NAFLD. *Journal of Hepatology*, **2017**, 67, 128-136 — 13.4 — 70

247 Genome-scale study reveals reduced metabolic adaptability in patients with non-alcoholic fatty liver disease. *Nature Communications*, **2016**, 7, 8994 — 17.4 — 70

246 Mondo/ChREBP-Mlx-regulated transcriptional network is essential for dietary sugar tolerance in Drosophila. *PLoS Genetics*, **2013**, 9, e1003438 — 6 — 70

245 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 — 4.3 — 70

244 MPEA--metabolite pathway enrichment analysis. *Bioinformatics*, **2011**, 27, 1878-9 — 7.2 — 70

243	Insulin signaling regulates fatty acid catabolism at the level of CoA activation. *PLoS Genetics*, **2012**, 8, e1002478	6	67
242	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	13.4	65
241	Metabolic regulation in progression to autoimmune diabetes. *PLoS Computational Biology*, **2011**, 7, e1002257	3	65
240	Decreased cord-blood phospholipids in young age-at-onset type 1 diabetes. *Diabetes*, **2013**, 62, 3951-6	0.9	64
239	Connecting genes to metabolites by a systems biology approach. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 9949-50	11.5	64
238	Phospholipase PLA2G7, associated with aggressive prostate cancer, promotes prostate cancer cell migration and invasion and is inhibited by statins. *Oncotarget*, **2011**, 2, 1176-90	3.3	63
237	Cord serum lipidome in prediction of islet autoimmunity and type 1 diabetes. *Diabetes*, **2013**, 62, 3268-74	0.9	62
236	Human Serum Metabolites Associate With Severity and Patient Outcomes in Traumatic Brain Injury. *EBioMedicine*, **2016**, 12, 118-126	8.8	61
235	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	1.9	61
234	Secreted frizzled-related protein 1 regulates adipose tissue expansion and is dysregulated in severe obesity. *International Journal of Obesity*, **2010**, 34, 1695-705	5.5	60
233	Systems biology strategies to study lipidomes in health and disease. *Progress in Lipid Research*, **2014**, 55, 43-60	14.3	59
232	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	10.8	58
231	Integration of metabolomics and expression of glycerol-3-phosphate acyltransferase (GPAM) in breast cancer-link to patient survival, hormone receptor status, and metabolic profiling. *Journal of Proteome Research*, **2012**, 11, 850-60	5.6	58
230	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	3.7	57
229	Self-organization and missing values in SOM and GTM. *Neurocomputing*, **2015**, 147, 60-70	5.4	56
228	Interaction between dietary lipids and gut microbiota regulates hepatic cholesterol metabolism. *Journal of Lipid Research*, **2016**, 57, 474-81	6.3	56
227	Adaptive changes of the Insig1/SREBP1/SCD1 set point help adipose tissue to cope with increased storage demands of obesity. *Diabetes*, **2013**, 62, 3697-708	0.9	56
226	Optimizing the lipidomics workflow for clinical studies--practical considerations. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 4973-93	4.4	55

225	How to study lipidomes. *Journal of Molecular Endocrinology*, **2009**, 42, 185-90	4.5	55
224	Phenotype characterisation using integrated gene transcript, protein and metabolite profiling. *Applied Bioinformatics*, **2004**, 3, 205-17		55
223	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, 833-46	5.2	54
222	Peroxisomal and microsomal lipid pathways associated with resistance to hepatic steatosis and reduced pro-inflammatory state. *Journal of Biological Chemistry*, **2010**, 285, 31011-23	5.4	54
221	Effect of probiotic Lactobacillus rhamnosus GG intervention on global serum lipidomic profiles in healthy adults. *World Journal of Gastroenterology*, **2008**, 14, 3188-94	5.6	54
220	Sphingolipids and glycerophospholipids - The "ying and yang" of lipotoxicity in metabolic diseases. *Progress in Lipid Research*, **2017**, 66, 14-29	14.3	53
219	Role of cardiolipins in the inner mitochondrial membrane: insight gained through atom-scale simulations. *Journal of Physical Chemistry B*, **2009**, 113, 3413-22	3.4	53
218	Splanchnic balance of free fatty acids, endocannabinoids, and lipids in subjects with nonalcoholic fatty liver disease. *Gastroenterology*, **2010**, 139, 1961-1971.e1	13.3	52
217	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*, **2015**, 146, 662-672	4.1	51
216	Transcriptomic profiling across the nonalcoholic fatty liver disease spectrum reveals gene signatures for steatohepatitis and fibrosis. *Science Translational Medicine*, **2020**, 12,	17.5	51
215	Metabolic Modeling of Human Gut Microbiota on a Genome Scale: An Overview. *Metabolites*, **2019**, 9,	5.6	50
214	Caloric restriction ameliorates angiotensin II-induced mitochondrial remodeling and cardiac hypertrophy. *Hypertension*, **2012**, 59, 76-84	8.5	50
213	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	3.7	50
212	Circulating triacylglycerol signatures in nonalcoholic fatty liver disease associated with the I148M variant in PNPLA3 and with obesity. *Diabetes*, **2014**, 63, 312-22	0.9	49
211	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. *JCI Insight*, **2019**, 4,	9.9	48
210	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. *Journal of Clinical Epidemiology*, **2020**, 122, 95-107	5.7	47
209	Lipidomics in nutrition and food research. *Molecular Nutrition and Food Research*, **2013**, 57, 1306-18	5.9	47
208	Dietary carbohydrate modification alters serum metabolic profiles in individuals with the metabolic syndrome. *Nutrition, Metabolism and Cardiovascular Diseases*, **2010**, 20, 249-57	4.5	47

207	Gender-dependent progression of systemic metabolic states in early childhood. *Molecular Systems Biology*, **2008**, 4, 197	12.2	47
206	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. *American Journal of Epidemiology*, **2019**, 188, 991-1012	3.8	44
205	Prolonged sleep restriction induces changes in pathways involved in cholesterol metabolism and inflammatory responses. *Scientific Reports*, **2016**, 6, 24828	4.9	44
204	Rapid quantitative analysis of carnitine and acylcarnitines by ultra-high performance-hydrophilic interaction liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*, **2013**, 1292, 189-94	4.5	44
203	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	3.7	44
202	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, 447-55	5.2	44
201	Peroxisome proliferator-activated receptor δ-dependent regulation of lipolytic nodes and metabolic flexibility. *Molecular and Cellular Biology*, **2012**, 32, 1555-65	4.8	44
200	Tracing specific synonymous codon-secondary structure correlations through evolution. *Journal of Molecular Evolution*, **2003**, 56, 473-84	3.1	44
199	A computational framework to integrate high-throughput 'omics' datasets for the identification of potential mechanistic links. *Nature Protocols*, **2018**, 13, 2781-2800	18.8	44
198	Increased dihydroceramide/ceramide ratio mediated by defective expression of degs1 impairs adipocyte differentiation and function. *Diabetes*, **2015**, 64, 1180-92	0.9	43
197	Roux-en-Y Gastric Bypass Surgery Induces Early Plasma Metabolomic and Lipidomic Alterations in Humans Associated with Diabetes Remission. *PLoS ONE*, **2015**, 10, e0126401	3.7	43
196	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, 31-6	4.1	40
195	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, 1937-53	7.6	40
194	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	3.7	40
193	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, 7799-815	4.4	39
192	Enterovirus-induced gene expression profile is critical for human pancreatic islet destruction. *Diabetologia*, **2012**, 55, 3273-83	10.3	38
191	Adaptation and failure of pancreatic beta cells in murine models with different degrees of metabolic syndrome. *DMM Disease Models and Mechanisms*, **2009**, 2, 582-92	4.1	38
190	Metabolomics in angiotensin II-induced cardiac hypertrophy. *Hypertension*, **2010**, 55, 508-15	8.5	35

189	Methods for the differential integrative omic analysis of plasma from a transgenic disease animal model. *OMICS A Journal of Integrative Biology*, **2004**, 8, 267-88	3.8	35
188	Elevated pro-inflammatory and lipotoxic mucosal lipids characterise irritable bowel syndrome. *World Journal of Gastroenterology*, **2009**, 15, 6068-74	5.6	35
187	Metabolic transformations of dietary polyphenols: comparison between in vitro colonic and hepatic models and in vivo urinary metabolites. *Journal of Nutritional Biochemistry*, **2016**, 33, 111-8	6.3	35
186	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, 375-82	3.2	34
185	The gut microbiota modulates glycaemic control and serum metabolite profiles in non-obese diabetic mice. *PLoS ONE*, **2014**, 9, e110359	3.7	33
184	Genomic, transcriptomic, and lipidomic profiling highlights the role of inflammation in individuals with low high-density lipoprotein cholesterol. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 847-57	9.4	33
183	Drug metabolome of the simvastatin formed by human intestinal microbiota in vitro. *Molecular BioSystems*, **2011**, 7, 437-46		33
182	Hydroxysteroid 17-ßdehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. *JCI Insight*, **2020**, 5,	9.9	33
181	High density lipoprotein structural changes and drug response in lipidomic profiles following the long-term fenofibrate therapy in the FIELD substudy. *PLoS ONE*, **2011**, 6, e23589	3.7	32
180	Dynamics of Plasma Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes - Type 1 Diabetes Prediction and Prevention Study (DIPP). *Scientific Reports*, **2018**, 8, 10635	4.9	31
179	Gut microbiota affects lens and retinal lipid composition. *Experimental Eye Research*, **2009**, 89, 604-7	3.7	31
178	Multivariate multi-way analysis of multi-source data. *Bioinformatics*, **2010**, 26, i391-8	7.2	30
177	Proteomic-based detection of a protein cluster dysregulated during cardiovascular development identifies biomarkers of congenital heart defects. *PLoS ONE*, **2009**, 4, e4221	3.7	30
176	Serum metabolite profile associates with the development of metabolic co-morbidities in first-episode psychosis. *Translational Psychiatry*, **2016**, 6, e951	8.6	29
175	Bioanalytical techniques in nontargeted clinical lipidomics. *Bioanalysis*, **2016**, 8, 351-64	2.1	29
174	Monounsaturated fatty acids in serum triacylglycerols are associated with response to neoadjuvant chemotherapy in breast cancer patients. *International Journal of Cancer*, **2014**, 134, 1725-33	7.5	29
173	Informatics and computational strategies for the study of lipids. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2011**, 1811, 991-9	5	29
172	Hierarchical characterization of energy landscapes using Gaussian packet states. *Journal of Chemical Physics*, **1994**, 101, 9844-9857	3.9	29

171	Perspectives on Systems Modeling of Human Peripheral Blood Mononuclear Cells. *Frontiers in Molecular Biosciences*, **2017**, 4, 96	5.6	28
170	Identification of a plasma signature of psychotic disorder in children and adolescents from the Avon Longitudinal Study of Parents and Children (ALSPAC) cohort. *Translational Psychiatry*, **2017**, 7, e1240	8.6	27
169	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. *Molecular Nutrition and Food Research*, **2014**, 58, 1873-82	5.9	27
168	Serum lipidomics meets cardiac magnetic resonance imaging: profiling of subjects at risk of dilated cardiomyopathy. *PLoS ONE*, **2011**, 6, e15744	3.7	27
167	Metabolomics and lipidomics in NAFLD: biomarkers and non-invasive diagnostic tests. *Nature Reviews Gastroenterology and Hepatology*, **2021**, 18, 835-856	24.2	27
166	The influence of sample collection methodology and sample preprocessing on the blood metabolic profile. *Bioanalysis*, **2015**, 7, 991-1006	2.1	26
165	Accelerated renal disease is associated with the development of metabolic syndrome in a glucolipotoxic mouse model. *DMM Disease Models and Mechanisms*, **2012**, 5, 636-48	4.1	26
164	Use of Blood Biomarkers in the Assessment of Sports-Related Concussion-A Systematic Review in the Context of Their Biological Significance. *Clinical Journal of Sport Medicine*, **2018**, 28, 561-571	3.2	25
163	Serum, plasma and erythrocyte membrane lipidomes in infants fed formula supplemented with bovine milk fat globule membranes. *Pediatric Research*, **2018**, 84, 726-732	3.2	25
162	15-Hydroxyprostaglandin dehydrogenase associates with poor prognosis in breast cancer, induces epithelial-mesenchymal transition, and promotes cell migration in cultured breast cancer cells. *Journal of Pathology*, **2012**, 226, 674-86	9.4	25
161	Lipidomics in biomedical research-practical considerations. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 800-803	5	24
160	PPAR Modulates Long Chain Fatty Acid Processing in the Intestinal Epithelium. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	24
159	Phenolic metabolites as compliance biomarker for polyphenol intake in a randomized controlled human intervention. *Food Research International*, **2014**, 63, 233-238	7	24
158	Expression of ceramide-metabolising enzymes in subcutaneous and intra-abdominal human adipose tissue. *Lipids in Health and Disease*, **2012**, 11, 115	4.4	24
157	A comparative evaluation of software for the analysis of liquid chromatography-tandem mass spectrometry data from isotope coded affinity tag experiments. *Proteomics*, **2005**, 5, 2748-60	4.8	24
156	Deletion of the metabolic transcriptional coactivator PGC1 induces cardiac arrhythmia. *Cardiovascular Research*, **2011**, 92, 29-38	9.9	23
155	Applications of a new subspace clustering algorithm (COSA) in medical systems biology. *Metabolomics*, **2007**, 3, 69-77	4.7	23
154	Compartmentation of glycogen metabolism revealed from 13C isotopologue distributions. *BMC Systems Biology*, **2011**, 5, 175	3.5	22

153	Exploring the lipoprotein composition using Bayesian regression on serum lipidomic profiles. *Bioinformatics*, **2007**, 23, i519-28	7.2	22
152	Characterization of cerebrospinal fluid by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry. *Journal of Chromatography A*, **2013**, 1293, 142-9	4.5	21
151	Metabolomics Profiling As a Diagnostic Tool in Severe Traumatic Brain Injury. *Frontiers in Neurology*, **2017**, 8, 398	4.1	21
150	Metabolome and fecal microbiota in monozygotic twin pairs discordant for weight: a Big Mac challenge. *FASEB Journal*, **2014**, 28, 4169-79	0.9	21
149	Lipidomics-based safety biomarkers for lipid-lowering treatments. *Angiology*, **2008**, 59, 65S-8S	2.1	21
148	Metabolomic changes in fatty liver can be modified by dietary protein and calcium during energy restriction. *World Journal of Gastroenterology*, **2008**, 14, 4462-72	5.6	21
147	An Overview of Metabolomics Data Analysis: Current Tools and Future Perspectives. *Comprehensive Analytical Chemistry*, **2018**, 82, 387-413	1.9	21
146	Analytical Lipidomics in Metabolic and Clinical Research. *Trends in Endocrinology and Metabolism*, **2015**, 26, 671-673	8.8	20
145	Bioinformatics strategies for the analysis of lipids. *Methods in Molecular Biology*, **2009**, 580, 339-68	1.4	20
144	Simultaneous determination of perfluoroalkyl substances and bile acids in human serum using ultra-high-performance liquid chromatography-tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 2251-2259	4.4	20
143	Deep learning meets metabolomics: a methodological perspective. *Briefings in Bioinformatics*, **2021**, 22, 1531-1542	13.4	20
142	Regulation of lipid metabolism in breast cancer provides diagnostic and therapeutic opportunities. *Clinical Lipidology*, **2012**, 7, 177-188		19
141	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. *Interface Focus*, **2013**, 3, 20120072	3.9	19
140	Bioinformatics and computational approaches applicable to lipidomics. *European Journal of Lipid Science and Technology*, **2009**, 111, 99-106	3	19
139	Two-way analysis of high-dimensional collinear data. *Data Mining and Knowledge Discovery*, **2009**, 19, 261-276	5.6	19
138	Integrating post-genomic approaches as a strategy to advance our understanding of health and disease. *Genome Medicine*, **2009**, 1, 35	14.4	19
137	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	13.4	19
136	The Role of Metabolomics in Systems Biology **2003**, 171-198		19

135	Metabolomics in the studies of islet autoimmunity and type 1 diabetes. *Review of Diabetic Studies*, **2012**, 9, 236-47	3.6	18
134	Obesity and psychotic disorders: uncovering common mechanisms through metabolomics. *DMM Disease Models and Mechanisms*, **2012**, 5, 614-20	4.1	17
133	Early familial dilated cardiomyopathy: identification with determination of disease state parameter from cine MR image data. *Radiology*, **2008**, 249, 88-96	20.5	17
132	Model of a quasi-one-dimensional spin glass. *Physical Review B*, **1993**, 47, 2655-2660	3.3	17
131	Effect of perfluorooctanesulfonic acid (PFOS) on the liver lipid metabolism of the developing chicken embryo. *Ecotoxicology and Environmental Safety*, **2019**, 170, 691-698	7	17
130	Lipidomes in health and disease: Analytical strategies and considerations. *TrAC - Trends in Analytical Chemistry*, **2019**, 120, 115664	14.6	16
129	MARC1 variant rs2642438 increases hepatic phosphatidylcholines and decreases severity of non-alcoholic fatty liver disease in humans. *Journal of Hepatology*, **2020**, 73, 725-726	13.4	16
128	Building an international consortium for tracking coronavirus health status. *Nature Medicine*, **2020**, 26, 1161-1165	50.5	16
127	Metabolic alterations in immune cells associate with progression to type 1 diabetes. *Diabetologia*, **2020**, 63, 1017-1031	10.3	16
126	Metabolomics Analytics Workflow for Epidemiological Research: Perspectives from the Consortium of Metabolomics Studies (COMETS). *Metabolites*, **2019**, 9,	5.6	16
125	Lipocalin prostaglandin D synthase and PPAR☐ coordinate to regulate carbohydrate and lipid metabolism in vivo. *PLoS ONE*, **2012**, 7, e39512	3.7	16
124	Effects of long-term intake of lactotripeptides on cardiovascular risk factors in hypertensive subjects. *European Journal of Clinical Nutrition*, **2012**, 66, 843-9	5.2	16
123	Application of lipidomics and metabolomics to the study of adipose tissue. *Methods in Molecular Biology*, **2008**, 456, 123-30	1.4	16
122	Metabolic Signatures of the Exposome-Quantifying the Impact of Exposure to Environmental Chemicals on Human Health. *Metabolites*, **2020**, 10,	5.6	16
121	Circulating metabolites in progression to islet autoimmunity and type 1 diabetes. *Diabetologia*, **2019**, 62, 2287-2297	10.3	15
120	Prenatal exposure to perfluoroalkyl substances modulates neonatal serum phospholipids, increasing risk of type 1 diabetes. *Environment International*, **2020**, 143, 105935	12.9	15
119	The effect of atorvastatin treatment on serum oxysterol concentrations and cytochrome P450 3A4 activity. *British Journal of Clinical Pharmacology*, **2015**, 80, 473-9	3.8	15
118	Persistent Alterations in Plasma Lipid Profiles Before Introduction of Gluten in the Diet Associated With Progression to Celiac Disease. *Clinical and Translational Gastroenterology*, **2019**, 10, 1-10	4.2	15

117	Linking Gut Microbiome and Lipid Metabolism: Moving beyond Associations. *Metabolites*, **2021**, 11,	5.6	15
116	A longitudinal plasma lipidomics dataset from children who developed islet autoimmunity and type 1 diabetes. *Scientific Data*, **2018**, 5, 180250	8.2	14
115	Cord-Blood Lipidome in Progression to Islet Autoimmunity and Type 1 Diabetes. *Biomolecules*, **2019**, 9,	5.9	13
114	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. *Biological Psychiatry*, **2019**, 86, 25-34	7.9	13
113	The PNPLA3-I148M variant increases polyunsaturated triglycerides in human adipose tissue. *Liver International*, **2020**, 40, 2128-2138	7.9	13
112	Detection of molecular paths associated with insulitis and type 1 diabetes in non-obese diabetic mouse. *PLoS ONE*, **2009**, 4, e7323	3.7	13
111	An integrative approach for biological data mining and visualisation. *International Journal of Data Mining and Bioinformatics*, **2008**, 2, 54-77	0.5	13
110	Data integration and visualization system for enabling conceptual biology. *Bioinformatics*, **2005**, 21 Suppl 1, i177-85	7.2	13
109	Human and preclinical studies of the host-gut microbiome co-metabolite hippurate as a marker and mediator of metabolic health. *Gut*, **2021**, 70, 2105-2114	19.2	13
108	Systems biology approaches to study lipidomes in health and disease. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2021**, 1866, 158857	5	13
107	Platform for systems medicine research and diagnostic applications in psychotic disorders-The METSY project. *European Psychiatry*, **2018**, 50, 40-46	6	12
106	The Metabolome in Finnish Carriers of the MYBPC3-Q1061X Mutation for Hypertrophic Cardiomyopathy. *PLoS ONE*, **2015**, 10, e0134184	3.7	12
105	Metabolomic strategies to identify tissue-specific effects of cardiovascular drugs. *Expert Opinion on Drug Metabolism and Toxicology*, **2008**, 4, 665-80	5.5	12
104	Exposure to environmental contaminants is associated with altered hepatic lipid metabolism in non-alcoholic fatty liver disease. *Journal of Hepatology*, **2021**,	13.4	12
103	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. *Journal of Neurotrauma*, **2021**, 38, 235-251	5.4	12
102	Metabolomic analysis of polar metabolites in lipoprotein fractions identifies lipoprotein-specific metabolic profiles and their association with insulin resistance. *Molecular BioSystems*, **2012**, 8, 2559-65		11
101	Systems medicine and the integration of bioinformatic tools for the diagnosis of Alzheimer's disease. *Genome Medicine*, **2009**, 1, 83	14.4	11
100	Outcome Prediction after Moderate and Severe Traumatic Brain Injury: External Validation of Two Established Prognostic Models in 1742 European Patients. *Journal of Neurotrauma*, **2021**, 38, 1377-1388	5.4	11

99	Serum Metabolites Associated with Computed Tomography Findings after Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 2673-2683	5.4	11
98	Targeted Clinical Metabolite Profiling Platform for the Stratification of Diabetic Patients. *Metabolites*, **2019**, 9,	5.6	10
97	Double Derivatization Strategy for High-Sensitivity and High-Coverage Localization of Double Bonds in Free Fatty Acids by Mass Spectrometry. *Analytical Chemistry*, **2020**, 92, 6446-6455	7.8	10
96	Interfacial properties of high-density lipoprotein-like lipid droplets with different lipid and apolipoprotein A-I compositions. *Biophysical Journal*, **2013**, 104, 2193-201	2.9	10
95	The DEXLIFE study methods: identifying novel candidate biomarkers that predict progression to type 2 diabetes in high risk individuals. *Diabetes Research and Clinical Practice*, **2014**, 106, 383-9	7.4	10
94	Dynamic network topology changes in functional modules predict responses to oxidative stress in yeast. *Molecular BioSystems*, **2009**, 5, 276-87		10
93	Functional prediction of unidentified lipids using supervised classifiers. *Metabolomics*, **2010**, 6, 18-26	4.7	10
92	Integrated model of metabolism and autoimmune response in ß-cell death and progression to type 1 diabetes. *PLoS ONE*, **2012**, 7, e51909	3.7	10
91	Links between central CB1-receptor availability and peripheral endocannabinoids in patients with first episode psychosis. *NPJ Schizophrenia*, **2020**, 6, 21	5.5	10
90	Dysregulated Lipid Metabolism Precedes Onset of Psychosis. *Biological Psychiatry*, **2021**, 89, 288-297	7.9	10
89	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury: A TRACK-TBI Study With External Validation in CENTER-TBI. *JAMA Neurology* , **2021**, 78, 1137-1148	17.2	10
88	Modeling strategies to study metabolic pathways in progression to type 1 diabetes--Challenges and opportunities. *Archives of Biochemistry and Biophysics*, **2016**, 589, 131-7	4.1	9
87	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. *Journal of Neurotrauma*, **2020**, 37, 2069-2080	5.4	9
86	Systems biology strategy to study lipotoxicity and the metabolic syndrome. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2010**, 1801, 235-9	5	9
85	Toward a New Multi-Dimensional Classification of Traumatic Brain Injury: A Collaborative European NeuroTrauma Effectiveness Research for Traumatic Brain Injury Study. *Journal of Neurotrauma*, **2020**, 37, 1002-1010	5.4	9
84	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. *British Journal of Anaesthesia*, **2020**, 125, 505-517	5.4	9
83	Serum Lipid and Serum Metabolite Components in relation to anthropometric parameters in EPIC-Potsdam participants. *Metabolism: Clinical and Experimental*, **2015**, 64, 1348-58	12.7	8
82	4-Hydroxycholesterol Signals From the Liver to Regulate Peripheral Cholesterol Transporters. *Frontiers in Pharmacology*, **2020**, 11, 361	5.6	8

81	Imbalance of plasma amino acids, metabolites and lipids in patients with lysinuric protein intolerance (LPI). *Metabolism: Clinical and Experimental*, **2016**, 65, 1361-75	12.7	8
80	High-dose simvastatin exhibits enhanced lipid-lowering effects relative to simvastatin/ezetimibe combination therapy. *Circulation: Cardiovascular Genetics*, **2014**, 7, 955-964		8
79	Building an International Consortium for Tracking Coronavirus Health Status		8
78	Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. *Neurocritical Care*, **2021**, 35, 184-196	3.3	8
77	Brain death and postmortem organ donation: report of a questionnaire from the CENTER-TBI study. *Critical Care*, **2018**, 22, 306	10.8	8
76	Comparison of Care System and Treatment Approaches for Patients with Traumatic Brain Injury in China versus Europe: A CENTER-TBI Survey Study. *Journal of Neurotrauma*, **2020**, 37, 1806-1817	5.4	7
75	Targeted Serum Metabolite Profiling Identifies Metabolic Signatures in Patients with Alzheimer's Disease, Normal Pressure Hydrocephalus and Brain Tumor. *Frontiers in Neuroscience*, **2017**, 11, 747	5.1	7
74	Overexpression of PPARβ specifically in pancreatic β-cells exacerbates obesity-induced glucose intolerance, reduces β-cell mass, and alters islet lipid metabolism in male mice. *Endocrinology*, **2014**, 155, 3843-52	4.8	7
73	Early-life exposure to perfluorinated alkyl substances modulates lipid metabolism in progression to celiac disease. *Environmental Research*, **2020**, 188, 109864	7.9	7
72	Association Between Circulating Lipids and Future Weight Gain in Individuals With an At-Risk Mental State and in First-Episode Psychosis. *Schizophrenia Bulletin*, **2021**, 47, 160-169	1.3	7
71	Longitudinal plasma metabolic profiles, infant feeding, and islet autoimmunity in the MIDIA study. *Pediatric Diabetes*, **2017**, 18, 111-119	3.6	6
70	Matching samples of multiple views. *Data Mining and Knowledge Discovery*, **2011**, 23, 300-321	5.6	6
69	Improving identification of differentially expressed genes by integrative analysis of Affymetrix and Illumina arrays. *OMICS A Journal of Integrative Biology*, **2006**, 10, 369-80	3.8	6
68	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. *Journal of Neurotrauma*, **2021**, 38, 3315-3331	5.4	6
67	Fluid balance and outcome in critically ill patients with traumatic brain injury (CENTER-TBI and OzENTER-TBI): a prospective, multicentre, comparative effectiveness study. *Lancet Neurology, The*, **2021**, 20, 627-638	24.1	6
66	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. *BMC Medical Ethics*, **2020**, 21, 36	2.9	5
65	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. *Neurorehabilitation and Neural Repair*, **2020**, 34, 814-830	4.7	5
64	The Dynamics of the Human Infant Gut Microbiome in Development and in Progression toward Type 1 Diabetes. *Cell Host and Microbe*, **2016**, 20, 121	23.4	5

63	Glucosylceramide synthase deficiency in the heart compromises β1-adrenergic receptor trafficking. *European Heart Journal*, **2021**, 42, 4481-4492	9.5	5
62	Exposure to per- and polyfluoroalkyl substances associates with an altered lipid composition of breast milk. *Environment International*, **2021**, 157, 106855	12.9	5
61	Integrative Analysis of Circulating Metabolite Profiles and Magnetic Resonance Imaging Metrics in Patients with Traumatic Brain Injury. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
60	Increased serum miR-193a-5p during non-alcoholic fatty liver disease progression: Diagnostic and mechanistic relevance.. *JHEP Reports*, **2022**, 4, 100409	10.3	4
59	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. *Journal of Critical Care*, **2020**, 59, 6-15	4	4
58	Prenatal exposure to perfluoroalkyl substances modulates neonatal serum phospholipids, increasing risk of type 1 diabetes		4
57	Prognostic Validation of the NINDS Common Data Elements for the Radiologic Reporting of Acute Traumatic Brain Injuries: A CENTER-TBI Study. *Journal of Neurotrauma*, **2020**, 37, 1269-1282	5.4	4
56	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. *Journal of Neurotrauma*, **2021**, 38, 196-209	5.4	4
55	Activation of pregnane X receptor induces atherogenic lipids and PCSK9 by a SREBP2-mediated mechanism. *British Journal of Pharmacology*, **2021**, 178, 2461-2481	8.6	4
54	Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. *Journal of Neurotrauma*, **2021**, 38, 1842-1857	5.4	4
53	Systems Biology in Human Health and Disease **2014**, 17-23		3
52	Umbilical Cord Blood DNA Methylation in Children Who Later Develop Type 1 Diabetes		3
51	42.3 METABOLOMICS APPROACHES TO STUDY METABOLIC CO-MORBIDITIES IN PSYCHOTIC DISORDERS. *Schizophrenia Bulletin*, **2018**, 44, S69-S69	1.3	2
50	Integration of transcription and flux data reveals molecular paths associated with differences in oxygen-dependent phenotypes of Saccharomyces cerevisiae. *BMC Systems Biology*, **2014**, 8, 16	3.5	2
49	T-cell activation induces selective changes of cellular lipidome. *Frontiers in Bioscience - Elite*, **2013**, 5, 558-73	1.6	2
48	Survey of muscle characteristics after statin-induced rhabdomyolysis. *Clinical Lipidology*, **2010**, 5, 17-27		2
47	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation.. *Lancet Neurology, The*, **2022**, 21, 153-162	24.1	2
46	Cross-Species Translation of Multi-way Biomarkers. *Lecture Notes in Computer Science*, **2011**, 209-216	0.9	2

45	Graphical Multi-way Models. *Lecture Notes in Computer Science*, **2010**, 538-553	0.9	2
44	Permutation-based significance analysis reduces the type 1 error rate in bisulfite sequencing data analysis of human umbilical cord blood samples		2
43	Persistent postconcussive symptoms in children and adolescents with mild traumatic brain injury receiving initial head computed tomography. *Journal of Neurosurgery: Pediatrics*, **2021**, 1-10	2.1	2
42	Management of arterial partial pressure of carbon dioxide in the first week after traumatic brain injury: results from the CENTER-TBI study. *Intensive Care Medicine*, **2021**, 47, 961-973	14.5	2
41	Frequency of fatigue and its changes in the first 6 months after traumatic brain injury: results from the CENTER-TBI study. *Journal of Neurology*, **2021**, 268, 61-73	5.5	2
40	Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, **2021**, 29, 113	3.6	2
39	Lipidomic Analyses Reveal Modulation of Lipid Metabolism by the PFAS Perfluoroundecanoic Acid (PFUnDA) in Non-Obese Diabetic Mice. *Frontiers in Genetics*, **2021**, 12, 721507	4.5	2
38	Metabolic signatures across the full spectrum of non-alcoholic fatty liver disease.. *JHEP Reports*, **2022**, 4, 100477	10.3	2
37	Serum metabolome associated with severity of acute traumatic brain injury.. *Nature Communications*, **2022**, 13, 2545	17.4	2
36	Role of Microbiota in Regulating Host Lipid Metabolism and Disease Risk. *Molecular and Integrative Toxicology*, **2015**, 235-260	0.5	1
35	Systems Biology in Food and Nutrition Research **2013**, 539-550		1
34	Analysis of the SYSDIET Healthy Nordic Diet randomized trial based on metabolic profiling reveal beneficial effects on glucose metabolism and blood lipids.. *Clinical Nutrition*, **2021**, 41, 441-451	5.9	1
33	Links between central CB1-receptor availability and peripheral endocannabinoids in patients with first episode psychosis		1
32	Dysregulated lipid metabolism precedes onset of psychosis in people at clinical high risk		1
31	Metabolic Alterations in Human Peripheral Blood Mononuclear Cells Associate with Progression to Islet Autoimmunity and Type 1 Diabetes		1
30	Health-related quality of life after traumatic brain injury: deriving value sets for the QOLIBRI-OS for Italy, The Netherlands and The United Kingdom. *Quality of Life Research*, **2020**, 29, 3095-3107	3.7	1
29	Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. *Intensive Care Medicine*, **2021**, 47, 1115-1129	14.5	1
28	Permutation-based significance analysis reduces the type 1 error rate in bisulfite sequencing data analysis of human umbilical cord blood samples.. *Epigenetics*, **2022**, 1-20	5.7	1

#	Reference	IF	Cit
27	Lipidomic and Metabolomic Signature of Progression of Chronic Kidney Disease in Patients with Severe Obesity.. *Metabolites*, **2021**, 11,	5.6	1
26	Meeting highlights from the 2013 European Society of Cardiology Heart Failure Association Winter Meeting on Translational Heart Failure Research. *European Journal of Heart Failure*, **2014**, 16, 6-14	12.3	0
25	Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. *Brain and Spine*, **2022**, 2, 100854		0
24	Potential Transdiagnostic Lipid Mediators of Inflammatory Activity in Individuals With Serious Mental Illness.. *Frontiers in Psychiatry*, **2021**, 12, 778325	5	0
23	Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. *JAMA Network Open*, **2021**, 4, e2134121	10.4	0
22	Quantitative genome-scale metabolic modeling of human CD4 T cell differentiation reveals subset-specific regulation of glycosphingolipid pathways. *Cell Reports*, **2021**, 37, 109973	10.6	0
21	Conjugated C-6 hydroxylated bile acids in serum relate to human metabolic health and gut Clostridia species. *Scientific Reports*, **2021**, 11, 13252	4.9	0
20	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. *Metabolomics*, **2021**, 17, 55	4.7	0
19	Perfluoroalkyl substances are increased in patients with late-onset ulcerative colitis and induce intestinal barrier defects in murine intestinal tissue. *Scandinavian Journal of Gastroenterology*, **2021**, 56, 1286-1295	2.4	0
18	Allostatic hypermetabolic response in PGC1 heterozygote mouse despite mitochondrial defects. *FASEB Journal*, **2021**, 35, e21752	0.9	0
17	A genome-wide association study of outcome from traumatic brain injury.. *EBioMedicine*, **2022**, 77, 103933	8	0
16	Plasma lipid alterations in young adults with psychotic experiences: A study from the Avon Longitudinal Study of Parents and Children cohort.. *Schizophrenia Research*, **2022**, 243, 78-85	3.6	0
15	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. *Neurocritical Care*, **2021**, 1	3.3	0
14	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis.. *Neurocritical Care*, **2021**, 1	3.3	0
13	Metabolomics to Study Psychotic Disorders and Their Metabolic Comorbidities. *Advances in Biological Psychiatry*, **2014**, 74-74		
12	MS-Based Lipidomics. *Comprehensive Analytical Chemistry*, **2014**, 64, 375-393	1.9	
11	CHAPTER 8:Data Handling. *RSC Chromatography Monographs*, **2013**, 183-194		
10	ELEVATED SERUM SPHINGOMYELIN ASSOCIATES WITH REDUCED GRAY MATTER DENSITY: EVIDENCE FROM TWINS DISCORDANT FOR SCHIZOPHRENIA. *Schizophrenia Research*, **2010**, 117, 370-371	3.6	

9 Monte Carlo simulation of a quasi one-dimensional spin glass. *Journal of Non-Crystalline Solids*, **1994**, 172-174, 506-509   3.9

8 A Regression Subset-Selection Strategy for Fat-Structure Data **2008**, 349-358

7 Integrating Transcriptional and Metabolic Profiling to Unravel Secondary Metabolite Biosynthesis in Plants **2007**, 135-138

6 Systems Biology Strategies in Studies of Energy Homeostasis In Vivo **2009**, 354-360

5 Searching for Linear Dependencies between Heart Magnetic Resonance Images and Lipid Profiles. *Lecture Notes in Computer Science*, **2010**, 232-243   0.9

4 Obesity and Diabetes: Lipotoxicity347-368

3 Heterogeneous biological network visualization system: case study in context of medical image data. *Advances in Experimental Medicine and Biology*, **2012**, 736, 95-118   3.6

2 The Role of Omic Technologies in the Study of the Human Gut Microbiome **2021**, 469-481

1 Chapter 7. Addressing the Health Beneficial Aspects of Nutrition⬚he Example of the Obesity Epidemic. *RSC Food Analysis Monographs*,237-243