Peter J Meikle

List of Publications by Year
in descending order

286 papers	16,302 citations	19657 61 h-index	23533 111 g-index
305 all docs	305 docs citations	305 times ranked	20227 citing authors

#	Article	IF	Citations
1	Prevalence of Lysosomal Storage Disorders. JAMA - Journal of the American Medical Association, 1999, 281, 249.	7.4	1,810
2	Distinct patterns of tissue-specific lipid accumulation during the induction of insulin resistance in mice by high-fat feeding. Diabetologia, 2013, 56, 1638-1648.	6.3	339
3	Sphingolipids and phospholipids in insulin resistance and related metabolic disorders. Nature Reviews Endocrinology, 2017, 13, 79-91.	9.6	313
4	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950â€“Metabolites in Frozen Human Plasma. Journal of Lipid Research, 2017, 58, 2275-2288.	4.2	312
5	Evidence that TLR4 Is Not a Receptor for Saturated Fatty Acids but Mediates Lipid-Induced Inflammation by Reprogramming Macrophage Metabolism. Cell Metabolism, 2018, 27, 1096-1110.e5.	16.2	309
6	Plasma lipid profiling in a large population-based cohort. Journal of Lipid Research, 2013, 54, 2898-2908.	4.2	304
7	Plasma Lysophosphatidylcholine Levels Are Reduced in Obesity and Type 2 Diabetes. PLoS ONE, 2012, 7, e41456.	2.5	285
8	Interleukin-6-deficient mice develop hepatic inflammation and systemic insulin resistance. Diabetologia, 2010, 53, 2431-2441.	6.3	283
9	Plasma Lipidomic Analysis of Stable and Unstable Coronary Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2723-2732.	2.4	265
10	Plasma Lipid Profiling Shows Similar Associations with Prediabetes and Type 2 Diabetes. PLoS ONE, 2013, 8, e74341.	2.5	247
11	Ceramides Contained in LDL Are Elevated in Type 2 Diabetes and Promote Inflammation and Skeletal Muscle Insulin Resistance. Diabetes, 2013, 62, 401-410.	0.6	240
12	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. Journal of Lipid Research, 2018, 59, 2001-2017.	4.2	231
13	High-Throughput Plasma Lipidomics: Detailed Mapping of the Associations with Cardiometabolic Risk Factors. Cell Chemical Biology, 2019, 26, 71-84.e4.	5.2	219
14	Plasma Lipidomic Profiles Improve on Traditional Risk Factors for the Prediction of Cardiovascular Events in Type 2 Diabetes Mellitus. Circulation, 2016, 134, 1637-1650.	1.6	205
15	The location of (1?3)-?-glucans in the walls of pollen tubes of Nicotiana alata using a (1?3)-?-glucan-specific monoclonal antibody. Planta, 1991, 185, 1-8.	3.2	197
16	Adipocyte Ceramides Regulate Subcutaneous Adipose Browning, Inflammation, and Metabolism. Cell Metabolism, 2016, 24, 820-834.	16.2	186
17	Development and validation of a ceramide- and phospholipid-based cardiovascular risk estimation score for coronary artery disease patients. European Heart Journal, 2020, 41, 371-380.	2.2	180
18	Zebrafish Embryonic Lipidomic Analysis Reveals that the Yolk Cell Is Metabolically Active in Processing Lipid. Cell Reports, 2016, 14, 1317-1329.	6.4	178

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19	Fructose stimulated de novo lipogenesis is promoted by inflammation. Nature Metabolism, 2020, 2, 1034-1045.	11.9	174
20	A (13,14)-beta-glucan-specific monoclonal antibody and its use in the quantitation and immunocytochemical location of (13,14)-beta-glucans. Plant Journal, 1994, 5, 1-9.	5.7	167
21	FXR activation protects against NAFLD via bile-acid-dependent reductions in lipid absorption. Cell Metabolism, 2021, 33, 1671-1684.e4.	16.2	165
22	Transitional changes in the CRP structure lead to the exposure of proinflammatory binding sites. Nature Communications, 2017, 8, 14188.	12.8	158
23	Newborn screening for lysosomal storage disorders. Molecular Genetics and Metabolism, 2006, 88, 307-314.	1.1	145
24	Mitochondrial dysfunction-related lipid changes occur in nonalcoholic fatty liver disease progression. Journal of Lipid Research, 2018, 59, 1977-1986.	4.2	144
25	Lipidomics: Potential role in risk prediction and therapeutic monitoring for diabetes and cardiovascular disease. , 2014, 143, 12-23.		141
26	Skeletal muscle and plasma lipidomic signatures of insulin resistance and overweight/obesity in humans. Obesity, 2016, 24, 908-916.	3.0	138
27	Î±-Tocopherol preserves cardiac function by reducing oxidative stress and inflammation in ischemia/reperfusion injury. Redox Biology, 2019, 26, 101292.	9.0	138
28	An Efficient Single Phase Method for the Extraction of Plasma Lipids. Metabolites, 2015, 5, 389-403.	2.9	136
29	A lipidomic screen of palmitate-treated MIN6 Î²-cells links sphingolipid metabolites with endoplasmic reticulum (ER) stress and impaired protein trafficking. Biochemical Journal, 2011, 435, 267-276.	3.7	132
30	Overexpression of Sphingosine Kinase 1 Prevents Ceramide Accumulation and Ameliorates Muscle Insulin Resistance in High-Fat Dietâ€“Fed Mice. Diabetes, 2012, 61, 3148-3155.	0.6	126
31	Replacing acid Î±-glucosidase in Pompe disease: recombinant and transgenic enzymes are equipotent, but neither completely clears glycogen from type II muscle fibers. Molecular Therapy, 2005, 11, 48-56.	8.2	124
32	Plasmalogens: A potential therapeutic target for neurodegenerative and cardiometabolic disease. Progress in Lipid Research, 2019, 74, 186-195.	11.6	123
33	Roles of ceramide and sphingolipids in pancreatic Î²-cell function and dysfunction. Islets, 2012, 4, 177-187.	1.8	122
34	Circulating microparticles generate and transport monomeric C-reactive protein in patients with myocardial infarction. Cardiovascular Research, 2012, 96, 64-72.	3.8	117
35	Sex and APOE Îµ4 genotype modify the Alzheimerâ€™s disease serum metabolome. Nature Communications, 2020, 11, 1148.	12.8	115
36	Alteration of Endoplasmic Reticulum Lipid Rafts Contributes to Lipotoxicity in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2013, 288, 26569-26582.	3.4	107

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37	Pigment Epitheliumâ€“Derived Factor Regulates Lipid Metabolism via Adipose Triglyceride Lipase. Diabetes, 2011, 60, 1458-1466.	0.6	106
38	Newborn Screening for Lysosomal Storage Disorders: Clinical Evaluation of a Two-Tier Strategy. Pediatrics, 2004, 114, 909-916.	2.1	102
39	Metabolic Network Analysis Reveals Altered Bile Acid Synthesis and Metabolism in Alzheimerâ€™s Disease. Cell Reports Medicine, 2020, 1, 100138.	6.5	102
40	An integrative systems genetic analysis of mammalian lipid metabolism. Nature, 2019, 567, 187-193.	27.8	101
41	Large-scale plasma lipidomic profiling identifies lipids that predict cardiovascular events in secondary prevention. JCI Insight, 2018, 3, .	5.0	100
42	PLIN5 deletion remodels intracellular lipid composition and causes insulin resistance in muscle. Molecular Metabolism, 2014, 3, 652-663.	6.5	97
43	Lipidomics is providing new insight into the metabolic syndrome and its sequelae. Current Opinion in Lipidology, 2011, 22, 210-215.	2.7	93
44	Fibrogenesis in pediatric cholestatic liver disease: Role of taurocholate and hepatocyte-derived monocyte chemotaxis protein-1 in hepatic stellate cell recruitment. Hepatology, 2009, 49, 533-544.	7.3	91
45	Diagnosis of lysosomal storage disorders: evaluation of lysosome-associated membrane protein LAMP-1 as a diagnostic marker. Clinical Chemistry, 1997, 43, 1325-1335.	3.2	90
46	High-coverage plasma lipidomics reveals novel sex-specific lipidomic fingerprints of age and BMI: Evidence from two large population cohort studies. PLoS Biology, 2020, 18, e3000870.	5.6	89
47	Consumption of a highâ€fat diet, but not regular endurance exercise training, regulates hypothalamic lipid accumulation in mice. Journal of Physiology, 2012, 590, 4377-4389.	2.9	88
48	Plasma Lipidomic Profile Signature of Hypertension in Mexican American Families. Hypertension, 2013, 62, 621-626.	2.7	87
49	The small-molecule BGP-15 protects against heart failure and atrial fibrillation in mice. Nature Communications, 2014, 5, 5705.	12.8	86
50	Exosomes containing HIV protein Nef reorganize lipid rafts potentiating inflammatory response in bystander cells. PLoS Pathogens, 2019, 15, e1007907.	4.7	86
51	Lipidomics Reveals a Tissue-Specific Fingerprint. Frontiers in Physiology, 2018, 9, 1165.	2.8	85
52	The CDP-Ethanolamine Pathway Regulates Skeletal Muscle Diacylglycerol Content and Mitochondrial Biogenesis without Altering Insulin Sensitivity. Cell Metabolism, 2015, 21, 718-730.	16.2	83
53	Determination of Acid Î±-Glucosidase Activity in Blood Spots as a Diagnostic Test for Pompe Disease. Clinical Chemistry, 2001, 47, 1378-1383.	3.2	81
54	Effect of lysosomal storage on bis(monoacylglycero)phosphate. Biochemical Journal, 2008, 411, 71-78.	3.7	80

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55	Disease-Specific Markers for the Mucopolysaccharidoses. Pediatric Research, 2004, 56, 733-738.	2.3	76
56	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimerâ€™s disease. Nature Communications, 2020, 11, 5698.	12.8	76
57	Specific plasma lipid classes and phospholipid fatty acids indicative of dairy food consumption associate with insulin sensitivity. American Journal of Clinical Nutrition, 2014, 99, 46-53.	4.7	74
58	Conditional tissue-specific expression of the acid alpha-glucosidase (GAA) gene in the GAA knockout mice: implications for therapy. Human Molecular Genetics, 2001, 10, 2039-2047.	2.9	71
59	Lysosomal Biogenesis in Lysosomal Storage Disorders. Experimental Cell Research, 1997, 234, 85-97.	2.6	70
60	A Mouse Model of Harlequin Ichthyosis Delineates a Key Role for Abca12 in Lipid Homeostasis. PLoS Genetics, 2008, 4, e1000192.	3.5	70
61	Effects of low-fat or full-fat fermented and non-fermented dairy foods on selected cardiovascular biomarkers in overweight adults. British Journal of Nutrition, 2013, 110, 2242-2249.	2.3	66
62	The prediction of type 2 diabetes in women with previous gestational diabetes mellitus using lipidomics. Diabetologia, 2015, 58, 1436-1442.	6.3	66
63	Lysosomal storage disorders: emerging therapeutic options require early diagnosis. European Journal of Pediatrics, 2003, 162, S34-S37.	2.7	64
64	Clinical lipidomics: realizing the potential of lipid profiling. Journal of Lipid Research, 2021, 62, 100127.	4.2	61
65	Determination of Oligosaccharides in Pompe Disease by Electrospray Ionization Tandem Mass Spectrometry. Clinical Chemistry, 2002, 48, 131-139.	3.2	59
66	Determination of monosaccharides and disaccharides in mucopolysaccharidoses patients by electrospray ionisation mass spectrometry. Molecular Genetics and Metabolism, 2003, 78, 193-204.	1.1	59
67	Dose-Dependent Effects of Rosuvastatin on the Plasma Sphingolipidome and Phospholipidome in the Metabolic Syndrome. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2335-E2340.	3.6	59
68	Determination of oligosaccharides and glycolipids in amniotic fluid by electrospray ionisation tandem mass spectrometry: in utero indicators of lysosomal storage diseases. Molecular Genetics and Metabolism, 2004, 83, 231-238.	1.1	57
69	Caveolin-1 Plays a Critical Role in the Differentiation of Monocytes into Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e117-25.	2.4	57
70	The association between dairy food intake and the incidence of diabetes in Australia: the Australian Diabetes Obesity and Lifestyle Study (AusDiab). Public Health Nutrition, 2013, 16, 339-345.	2.2	57
71	Hepatic lipidomic remodeling in severe obesity manifests with steatosis and does not evolve with non-alcoholic steatohepatitis. Journal of Hepatology, 2021, 75, 524-535.	3.7	57
72	Determination of Acid Î±-Glucosidase Protein: Evaluation as a Screening Marker for Pompe Disease and Other Lysosomal Storage Disorders. Clinical Chemistry, 2000, 46, 1318-1325.	3.2	56

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73	Urinary Lipid Profiling for the Identification of Fabry Hemizygotes and Heterozygotes. Clinical Chemistry, 2005, 51, 688-694.	3.2	56
74	Human Plasma Lipidome Is Pleiotropically Associated With Cardiovascular Risk Factors and Death. Circulation: Cardiovascular Genetics, 2014, 7, 854-863.	5.1	56
75	Inhibition of Adenosine Monophosphateâ€“Activated Protein Kinaseâ€“3â€Hydroxyâ€3â€Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. Hepatology Communications, 2019, 3, 84-98.	4.3	56
76	Secondary sphingolipid accumulation in a macrophage model of Gaucher disease. Molecular Genetics and Metabolism, 2007, 92, 336-345.	1.1	55
77	Lipidomic Profiles of the Heart and Circulation in Response to Exercise versus Cardiac Pathology: A Resource of Potential Biomarkers and Drug Targets. Cell Reports, 2018, 24, 2757-2772.	6.4	55
78	Treatment of type 2 diabetes with the designer cytokine IC7Fc. Nature, 2019, 574, 63-68.	27.8	55
79	Shared reference materials harmonize lipidomics across MS-based detection platforms and laboratories. Journal of Lipid Research, 2020, 61, 105-115.	4.2	55
80	Immunoquantification of Î±-Galactosidase: Evaluation for the Diagnosis of Fabry Disease. Clinical Chemistry, 2004, 50, 1979-1985.	3.2	54
81	Postprandial Plasma Phospholipids in Men Are Influenced by the Source of Dietary Fat. Journal of Nutrition, 2015, 145, 2012-2018.	2.9	54
82	Lipid droplet remodelling and reduced muscle ceramides following sprint interval and moderate-intensity continuous exercise training in obese males. International Journal of Obesity, 2017, 41, 1745-1754.	3.4	54
83	A distinct plasma lipid signature associated with poor prognosis in castrationâ€resistant prostate cancer. International Journal of Cancer, 2017, 141, 2112-2120.	5.1	54
84	Characterization of Urinary Sulfatides in Metachromatic Leukodystrophy Using Electrospray Ionization-Tandem Mass Spectrometry. Molecular Genetics and Metabolism, 2001, 73, 30-37.	1.1	51
85	Plasmalogen modulation attenuates atherosclerosis in ApoE- and ApoE/GPx1-deficient mice. Atherosclerosis, 2015, 243, 598-608.	0.8	51
86	Exceptional human longevity is associated with a specific plasma phenotype of ether lipids. Redox Biology, 2019, 21, 101127.	9.0	51
87	Skeletal muscle-specific overproduction of constitutively activated c-Jun N-terminal kinase (JNK) induces insulin resistance in mice. Diabetologia, 2012, 55, 2769-2778.	6.3	49
88	Lipidomic Profiling in Inflammatory Bowel Disease. Inflammatory Bowel Diseases, 2015, 21, 1511-1518.	1.9	49
89	Lipidomic Profiles in Diabetes andÂDementia. Journal of Alzheimer's Disease, 2017, 59, 433-444.	2.6	49
90	Weight Loss and Exercise Alter the High-Density Lipoprotein Lipidome and Improve High-Density Lipoprotein Functionality in Metabolic Syndrome. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 438-447.	2.4	49

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91	Quantification of galactosylsphingosine in the twitcher mouse using electrospray ionization-tandem mass spectrometry. Journal of Lipid Research, 2001, 42, 2092-2095.	4.2	49
92	The effect of shortâ€term overfeeding on serum lipids in healthy humans. Obesity, 2013, 21, E649-59.	3.0	48
93	Acetylation of Trehalose Mycolates Is Required for Efficient MmpL-Mediated Membrane Transport in Corynebacterineae. ACS Chemical Biology, 2015, 10, 734-746.	3.4	48
94	Complement C5a Induces Renal Injury in Diabetic Kidney Disease by Disrupting Mitochondrial Metabolic Agility. Diabetes, 2020, 69, 83-98.	0.6	48
95	Glycosaminoglycan degradation fragments in mucopolysaccharidosis I. Glycobiology, 2004, 14, 443-450.	2.5	47
96	Statin action favors normalization of the plasma lipidome in the atherogenic mixed dyslipidemia of MetS: potential relevance to statin-associated dysglycemia. Journal of Lipid Research, 2015, 56, 2381-2392.	4.2	47
97	Prediction of neuropathology in mucopolysaccharidosis I patients. Molecular Genetics and Metabolism, 2005, 84, 18-24.	1.1	46
98	Evaluation of the lysosome-associated membrane protein LAMP-2 as a marker for lysosomal storage disorders. Clinical Chemistry, 1998, 44, 2094-2102.	3.2	45
99	Lipidomic and metabolomic characterization of a genetically modified mouse model of the early stages of human type 1 diabetes pathogenesis. Metabolomics, 2016, 12, 13.	3.0	45
100	Sets of coregulated serum lipids are associated with Alzheimer's disease pathophysiology. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 619-627.	2.4	45
101	High-intensity training induces non-stoichiometric changes in the mitochondrial proteome of human skeletal muscle without reorganisation of respiratory chain content. Nature Communications, 2021, 12, 7056.	12.8	45
102	Hepatic accumulation of intestinal cholesterol is decreased and fecal cholesterol excretion is increased in mice fed a high-fat diet supplemented with milk phospholipids. Nutrition and Metabolism, 2010, 7, 90.	3.0	44
103	Dietary Sphingomyelin Lowers Hepatic Lipid Levels and Inhibits Intestinal Cholesterol Absorption in High-Fat-Fed Mice. PLoS ONE, 2013, 8, e55949.	2.5	44
104	Lipidomic risk score independently and cost-effectively predicts risk of future type 2 diabetes: results from diverse cohorts. Lipids in Health and Disease, 2016, 15, 67.	3.0	44
105	Correlation among Genotype, Phenotype, and Biochemical Markers in Gaucher Disease: Implications for the Prediction of Disease Severity. Molecular Genetics and Metabolism, 2002, 75, 46-55.	1.1	43
106	Diagnosis of lysosomal storage disorders: current techniques and future directions. Expert Review of Molecular Diagnostics, 2004, 4, 677-691.	3.1	43
107	Screening patients referred to a metabolic clinic for lysosomal storage disorders. Journal of Medical Genetics, 2011, 48, 422-425.	3.2	43
108	Metabolomics and ischaemic heart disease. Clinical Science, 2013, 124, 289-306.	4.3	43

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109	Analysis of the liver lipidome reveals insights into the protective effect of exercise on high-fat diet-induced hepatosteatosis in mice. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E778-E791.	3.5	43
110	Protein Kinase C Epsilon Deletion in Adipose Tissue, but Not in Liver, Improves Glucose Tolerance. Cell Metabolism, 2019, 29, 183-191.e7.	16.2	42
111	Laronidase Treatment of Mucopolysaccharidosis I. BioDrugs, 2005, 19, 1-7.	4.6	41
112	Breaking Up Prolonged Sitting Alters the Postprandial Plasma Lipidomic Profile of Adults With Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 1991-1999.	3.6	41
113	The lipidome in major depressive disorder: Shared genetic influence for ether-phosphatidylcholines, a plasma-based phenotype related to inflammation, and disease risk. European Psychiatry, 2017, 43, 44-50.	0.2	41
114	Reconstituted high-density lipoprotein infusion modulates fatty acid metabolism in patients with type 2 diabetes mellitus. Journal of Lipid Research, 2011, 52, 572-581.	4.2	39
115	Cytomegalovirus Restructures Lipid Rafts via a US28/CDC42-Mediated Pathway, Enhancing Cholesterol Efflux from Host Cells. Cell Reports, 2016, 16, 186-200.	6.4	39
116	Establishing multiple omics baselines for three Southeast Asian populations in the Singapore Integrative Omics Study. Nature Communications, 2017, 8, 653.	12.8	39
117	LDL subclass lipidomics in atherogenic dyslipidemia: effect of statin therapy on bioactive lipids and dense LDL. Journal of Lipid Research, 2020, 61, 911-932.	4.2	39
118	Circulating inflammatory and atherogenic biomarkers are not increased following single meals of dairy foods. European Journal of Clinical Nutrition, 2012, 66, 25-31.	2.9	38
119	Lysosomal acid lipase and lipophagy are constitutive negative regulators of glucose-stimulated insulin secretion from pancreatic beta cells. Diabetologia, 2014, 57, 129-139.	6.3	38
120	Preliminary Crystallographic Analysis of a Fab Specific for the O-antigen of Shigella flexneri Cell Surface Lipopolysaccharide with and without Bound Saccharides. Journal of Molecular Biology, 1993, 231, 133-136.	4.2	37
121	Profiling oligosaccharidurias by electrospray tandem mass spectrometry: Quantifying reducing oligosaccharides. Analytical Biochemistry, 2005, 345, 30-46.	2.4	37
122	Glucosylceramide accumulation is not confined to the lysosome in fibroblasts from patients with Gaucher disease. Molecular Genetics and Metabolism, 2008, 93, 437-443.	1.1	37
123	Effects of the BET-inhibitor, RVX-208 on the HDL lipidome and glucose metabolism in individuals with prediabetes: A randomized controlled trial. Metabolism: Clinical and Experimental, 2016, 65, 904-914.	3.4	37
124	Characterization of Sulfated Oligosaccharides in Mucopolysaccharidosis Type IIIA by Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2006, 78, 4534-4542.	6.5	36
125	Activation of Hippo signaling pathway mediates mitochondria dysfunction and dilated cardiomyopathy in mice. Theranostics, 2021, 11, 8993-9008.	10.0	36
126	Saposins A, B, C, and D in Plasma of Patients with Lysosomal Storage Disorders. Clinical Chemistry, 2000, 46, 167-174.	3.2	35

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127	Immunometabolic and Lipidomic Markers Associated With the Frailty Index and Quality of Life in Aging HIV+ Men on Antiretroviral Therapy. EBioMedicine, 2017, 22, 112-121.	6.1	35
128	HDL Phospholipids, but Not Cholesterol Distinguish Acute Coronary Syndrome From Stable Coronary Artery Disease. Journal of the American Heart Association, 2019, 8, e011792.	3.7	35
129	Circulating Lipids Are Associated with Alcoholic Liver Cirrhosis and Represent Potential Biomarkers for Risk Assessment. PLoS ONE, 2015, 10, e0130346.	2.5	33
130	Inclusion of Plasma Lipid Species Improves Classification of Individuals at Risk of Type 2 Diabetes. PLoS ONE, 2013, 8, e76577.	2.5	33
131	Sphingomyelin Phosphodiesterase Acid-like 3A (SMPDL3A) Is a Novel Nucleotide Phosphodiesterase Regulated by Cholesterol in Human Macrophages. Journal of Biological Chemistry, 2014, 289, 32895-32913.	3.4	32
132	Plasma dihydroceramide species associate with waist circumference in Mexican American families. Obesity, 2014, 22, 950-956.	3.0	32
133	Plasma lipidomic analysis predicts non-calcified coronary artery plaque in asymptomatic patients at intermediate risk of coronary artery disease. European Heart Journal Cardiovascular Imaging, 2014, 15, 908-916.	1.2	32
134	Baseline serum phosphatidylcholine plasmalogen concentrations are inversely associated with incident myocardial infarction in patients with mixed peripheral artery disease presentations. Atherosclerosis, 2017, 263, 301-308.	0.8	32
135	Lysophosphatidylcholine is a Major Component of Platelet Microvesicles Promoting Platelet Activation and Reporting Atherosclerotic Plaque Instability. Thrombosis and Haemostasis, 2019, 119, 1295-1310.	3.4	32
136	Comparison of the Serum Lipidome in Patients With Abdominal Aortic Aneurysm and Peripheral Artery Disease. Circulation: Cardiovascular Genetics, 2014, 7, 71-79.	5.1	31
137	Prion Infection Impairs Cholesterol Metabolism in Neuronal Cells. Journal of Biological Chemistry, 2014, 289, 789-802.	3.4	31
138	Statin action enriches HDL3 in polyunsaturated phospholipids and plasmalogens and reduces LDL-derived phospholipid hydroperoxides in atherogenic mixed dyslipidemia. Journal of Lipid Research, 2016, 57, 2073-2087.	4.2	31
139	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. Journal of Biological Chemistry, 2020, 295, 13250-13266.	3.4	31
140	Development of an assay for the detection of mucopolysaccharidosis type VI patients using dried blood-spots. Clinica Chimica Acta, 2005, 353, 67-74.	1.1	30
141	The Effects of Long-Term Saturated Fat Enriched Diets on the Brain Lipidome. PLoS ONE, 2016, 11, e0166964.	2.5	30
142	The association of the lipidomic profile with features of polycystic ovary syndrome. Journal of Molecular Endocrinology, 2017, 59, 93-104.	2.5	30
143	Lipidomic profiling reveals early-stage metabolic dysfunction in overweight or obese humans. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 335-343.	2.4	30
144	Comprehensive genetic analysis of the human lipidome identifies loci associated with lipid homeostasis with links to coronary artery disease. Nature Communications, 2022, 13, .	12.8	30

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145	Android Fat Deposition and Its Association With Cardiovascular Risk Factors in Overweight Young Males. Frontiers in Physiology, 2019, 10, 1162.	2.8	29
146	Heritability of 596 lipid species and genetic correlation with cardiovascular traits in the Busselton Family Heart Study. Journal of Lipid Research, 2020, 61, 537-545.	4.2	29
147	Immunochemistry of Lysosomal Storage Disorders. Clinical Chemistry, 2006, 52, 1660-1668.	3.2	28
148	Lipidomic Profiling of Chylomicron Triacylglycerols in Response to High Fat Meals. Lipids, 2013, 48, 39-50.	1.7	28
149	Plasma Lipidomic Profiling of Treated HIV-Positive Individuals and the Implications for Cardiovascular Risk Prediction. PLoS ONE, 2014, 9, e94810.	2.5	28
150	GM3 ganglioside and phosphatidylethanolamine-containing lipids are adipose tissue markers of insulin resistance in obese women. International Journal of Obesity, 2016, 40, 706-713.	3.4	28
151	Macrophage polarization state affects lipid composition and the channeling of exogenous fatty acids into endogenous lipid pools. Journal of Biological Chemistry, 2021, 297, 101341.	3.4	28
152	Purification and Characterization of Recombinant Human Lysosomal Î±-Mannosidase. Molecular Genetics and Metabolism, 2001, 73, 18-29.	1.1	27
153	Monitoring Dose Response of Enzyme Replacement Therapy in Feline Mucopolysaccharidosis Type VI by Tandem Mass Spectrometry. Pediatric Research, 2004, 55, 585-591.	2.3	27
154	Detection of Mucopolysaccharidosis Type II by Measurement of Iduronate-2-Sulfatase in Dried Blood Spots and Plasma Samples. Clinical Chemistry, 2006, 52, 643-649.	3.2	27
155	Altered Trafficking and Turnover of LAMP-1 in Pompe Disease-Affected Cells. Molecular Genetics and Metabolism, 1999, 66, 179-188.	1.1	26
156	Correlation of acid Î±-glucosidase and glycogen content in skin fibroblasts with age of onset in Pompe disease. Clinica Chimica Acta, 2005, 361, 191-198.	1.1	26
157	Plasma lipids are altered in Gaucher disease: Biochemical markers to evaluate therapeutic intervention. Blood Cells, Molecules, and Diseases, 2008, 40, 420-427.	1.4	26
158	Hydrogenated phosphatidylcholine supplementation reduces hepatic lipid levels in mice fed a high-fat diet. Atherosclerosis, 2010, 213, 142-147.	0.8	26
159	Postprandial metabolism of docosapentaenoic acid (DPA, 22:5nâˆ’3) and eicosapentaenoic acid (EPA,) Tj ETQq1 1 0.784314 rgBT /Ov	2.2	25
160	Strategies for Extending Metabolomics Studies with Stable Isotope Labelling and Fluxomics. Metabolites, 2016, 6, 32.	2.9	25
161	Low-Density Lipoprotein Receptorâ€“Dependent and Low-Density Lipoprotein Receptorâ€“Independent Mechanisms of Cyclosporin Aâ€“Induced Dyslipidemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1338-1349.	2.4	25
162	Diagnosis of Metachromatic Leukodystrophy by Immune Quantification of Arylsulphatase A Protein and Activity in Dried Blood Spots. Clinical Chemistry, 2008, 54, 1925-1927.	3.2	24

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163	Association of Plasma Ceramides and Sphingomyelin With VLDL apoB-100 Fractional Catabolic Rate Before and After Rosuvastatin Treatment. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 2497-2501.	3.6	24
164	Disruption of beta cell acetyl-CoA carboxylase-1 in mice impairs insulin secretion and beta cell mass. Diabetologia, 2019, 62, 99-111.	6.3	24
165	Immunochemical analysis of CD107a (LAMP-1). Cellular Immunology, 2005, 236, 161-166.	3.0	23
166	Biochemical profiling to predict disease severity in metachromatic leukodystrophy. Molecular Genetics and Metabolism, 2010, 99, 142-148.	1.1	23
167	Effects of prenatal ethanol exposure on the lungs of postnatal lambs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L139-L147.	2.9	23
168	A comprehensive lipidomic screen of pancreatic Î²-cells using mass spectroscopy defines novel features of glucose-stimulated turnover of neutral lipids, sphingolipids and plasmalogens. Molecular Metabolism, 2016, 5, 404-414.	6.5	23
169	Lipidomic analyses in epidemiology. International Journal of Epidemiology, 2016, 45, 1329-1338.	1.9	23
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171	Shark liver oil supplementation enriches endogenous plasmalogens and reduces markers of dyslipidemia and inflammation. Journal of Lipid Research, 2021, 62, 100092.	4.2	23
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