

# CITATION REPORT

List of articles citing

Update of the LIPID MAPS comprehensive classification system for lipids

DOI: 10.1194/jlr.r800095-jlr200  
Journal of Lipid Research, 2009, 50 Suppl, S9-14.

**Source:** <https://exaly.com/paper-pdf/46573992/citation-report.pdf>

**Version:** 2024-04-29

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1161	Lipidomics joins the omics evolution. <b>2009</b> , 106, 2089-90		121
1160	Founding, early history, and transformation of the Journal for Lipid Research to an American Society of Biochemistry and Molecular Biology journal. <i>Journal of Lipid Research</i> , <b>2009</b> , 50 Suppl, S3-8	6.3	0
1159	Normal phase liquid chromatography coupled to quadrupole time of flight atmospheric pressure chemical ionization mass spectrometry for separation, detection and mass spectrometric profiling of neutral sphingolipids and cholesterol. <b>2009</b> , 877, 2976-82		50
1158	Gut microbiota affects lens and retinal lipid composition. <b>2009</b> , 89, 604-7		31
1157	Bis(monoacylglycero)phosphate, a peculiar phospholipid to control the fate of cholesterol: Implications in pathology. <b>2009</b> , 81, 313-24		62
1156	Phospholipases: Degradation of Phospholipids in Membranes and Emulsions. <b>2009</b> ,		4
1155	The protease resistant surface (PRS) glycoconjugate from <i>Trypanosoma congolense</i> has an inositol-acylated glycosylphosphatidylinositol anchor, containing a significant proportion of myristate at the sn-2 position. <b>2010</b> , 171, 50-4		4
1154	Lipidomics era: accomplishments and challenges. <b>2010</b> , 29, 877-929		139
1153	Ozone-induced dissociation on a modified tandem linear ion-trap: observations of different reactivity for isomeric lipids. <b>2010</b> , 21, 1989-99		110
1152	Solution structure and function of YndB, an AHSA1 protein from <i>Bacillus subtilis</i> . <b>2010</b> , 78, 3328-40		11
1151	Mass-spectrometry based oxidative lipidomics and lipid imaging: applications in traumatic brain injury. <b>2010</b> , 115, 1322-36		94
1150	A mouse macrophage lipidome. <b>2010</b> , 285, 39976-85		210
1149	Analytical approaches to metabolomics and applications to systems biology. <b>2010</b> , 30, 500-11		98
1148	Lipidomics reveals a remarkable diversity of lipids in human plasma. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 3299-305	6.3	873
1147	Advances in mass spectrometry for lipidomics. <b>2010</b> , 3, 433-65		246
1146	Lipidomics reveals membrane lipid remodelling and release of potential lipid mediators during early stress responses in a murine melanoma cell line. <b>2010</b> , 1801, 1036-47		51
1145	Targeted metabolomics and mass spectrometry. <b>2010</b> , 80, 45-83		73

1144	Interest of glycolipids in drug delivery: from physicochemical properties to drug targeting. <b>2010</b> , 7, 1031-48	56
1143	Direct analysis of lipids and small metabolites in mouse brain tissue by AP IR-MALDI and reactive LAESI mass spectrometry. <b>2010</b> , 135, 751-8	81
1142	Identifying static and kinetic lipid phenotypes by high resolution UPLC-MS: unraveling diet-induced changes in lipid homeostasis by coupling metabolomics and fluxomics. <b>2011</b> , 10, 4281-90	33
1141	The human plasma lipidome. <b>2011</b> , 365, 1812-23	275
1140	Lipidomic analysis of apoptotic hela cells induced by Paclitaxel. <b>2011</b> , 15, 655-64	14
1139	Bioinformatics and systems biology of the lipidome. <b>2011</b> , 111, 6452-90	132
1138	Lipid map of the mammalian cell. <b>2011</b> , 124, 5-8	420
1137	Analysis of unsaturated lipids by ozone-induced dissociation. <b>2011</b> , 1811, 807-17	90
1136	Profiling of acylcarnitines and sterols from dried blood or plasma spot by atmospheric pressure thermal desorption chemical ionization (APTDCI) tandem mass spectrometry. <b>2011</b> , 1811, 669-79	11
1135	Lipid analysis and lipidomics by structurally selective ion mobility-mass spectrometry. <b>2011</b> , 1811, 935-45	168
1134	Lipid classification, structures and tools. <b>2011</b> , 1811, 637-47	288
1133	High sensitivity quantitative lipidomics analysis of fatty acids in biological samples by gas chromatography-mass spectrometry. <b>2011</b> , 1811, 648-56	151
1132	Glycerophospholipids and glycerophospholipid-derived lipid mediators: a complex meshwork in Alzheimer's disease pathology. <b>2011</b> , 50, 313-30	122
1131	Ultra performance liquid chromatography and high resolution mass spectrometry for the analysis of plant lipids. <b>2011</b> , 2, 54	134
1130	A mathematical model for the determination of steady-state cardiolipin remodeling mechanisms using lipidomic data. <b>2011</b> , 6, e21170	13
1129	Lipidomics is providing new insight into the metabolic syndrome and its sequelae. <b>2011</b> , 22, 210-5	74
1128	Development of stereotactic mass spectrometry for brain tumor surgery. <b>2011</b> , 68, 280-89; discussion 290	48
1127	Elemental formula annotation of polar and lipophilic metabolites using (13) C, (15) N and (34) S isotope labelling, in combination with high-resolution mass spectrometry. <b>2011</b> , 68, 364-76	240

1126	A steroidomic approach for biomarkers discovery in doping control. <b>2011</b> , 213, 85-94		61
1125	Applications of mass spectrometry to lipids and membranes. <b>2011</b> , 80, 301-25		150
1124	Matrix-assisted laser desorption ionization imaging mass spectrometry in lipidomics. <b>2011</b> , 401, 29-51		67
1123	Localization of fatty acyl and double bond positions in phosphatidylcholines using a dual stage CID fragmentation coupled with ion mobility mass spectrometry. <b>2011</b> , 22, 1552-67		95
1122	Systems level analysis of lipidome. <b>2011</b> , 6, 183-189		
1121	ApoB siRNA-induced liver steatosis is resistant to clearance by the loss of fatty acid transport protein 5 (Fatp5). <b>2011</b> , 46, 991-1003		27
1120	Phytoceramide and sphingoid bases derived from brewer's yeast <i>Saccharomyces pastorianus</i> activate peroxisome proliferator-activated receptors. <b>2011</b> , 10, 150		19
1119	Lipidomic profiling of biological tissues using off-line two-dimensional high-performance liquid chromatography-mass spectrometry. <b>2011</b> , 1218, 5146-56		124
1118	Typing of unknown microorganisms based on quantitative analysis of fatty acids by mass spectrometry and hierarchical clustering. <b>2011</b> , 684, 112-20		51
1117	Defective macrophage function in aquaporin-3 deficiency. <b>2011</b> , 25, 4233-9		44
1116	A simple desalting method for direct MALDI mass spectrometry profiling of tissue lipids. <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 840-9	6.3	46
1115	Lipidomic analyses of <i>Mycobacterium tuberculosis</i> based on accurate mass measurements and the novel "Mtb LipidDB". <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 861-72	6.3	96
1114	Anacetrapib promotes reverse cholesterol transport and bulk cholesterol excretion in Syrian golden hamsters. <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 1965-73	6.3	69
1113	Function and Regulation of Lipid Biology in <i>Caenorhabditis elegans</i> Aging. <b>2012</b> , 3, 143		32
1112	Molecular species of triacylglycerols, diacylglycerols derived from complex lipids, and related lipids. <b>2012</b> , 215-244		2
1111	Analysis of simple lipid classes. <b>2012</b> , 69-90		1
1110	Practical identification of individual lipid species in lipid extracts of biological samples. <b>2012</b> , 339-364		
1109	Lipid extraction, storage and sample handling. <b>2012</b> , 55-66		4

1108	Preparation of derivatives of fatty acids. <b>2012</b> , 145-158	10
1107	Quantification of cardiolipin molecular species in Escherichia coli lipid extracts using liquid chromatography/electrospray ionization mass spectrometry. <b>2012</b> , 26, 2267-74	19
1106	Lipids: their structures and occurrence. <b>2012</b> , 3-19	4
1105	References. <b>2012</b> , 393-415	
1104	Chromatographic analysis of sphingolipids. <b>2012</b> , 125-142	
1103	Gas chromatographic analysis of fatty acid derivatives. <b>2012</b> , 159-180	0
1102	Isolation of fatty acids and identification by spectroscopic and related techniques. <b>2012</b> , 181-211	2
1101	Chromatographic analysis of lipids: general principles. <b>2012</b> , 21-54	1
1100	Chromatographic analysis of molecular species of intact phospholipids and glycolipids. <b>2012</b> , 245-259	
1099	Positional distributions of fatty acids in glycerolipids. <b>2012</b> , 261-273	1
1098	Introduction to mass spectrometric analysis of lipids in lipidomics. <b>2012</b> , 277-303	2
1097	Characterization of lipids by electrospray ionization mass spectrometry. <b>2012</b> , 305-338	1
1096	Quantification of lipid molecular species by electrospray ionization mass spectrometry. <b>2012</b> , 365-392	1
1095	Chromatographic analysis of phospholipids and glycosyldiacylglycerols. <b>2012</b> , 91-124	1
1094	Sphingolipid and ceramide homeostasis: potential therapeutic targets. <b>2012</b> , 2012, 248135	32
1093	Plantmetabolomics.org: mass spectrometry-based Arabidopsis metabolomics--database and tools update. <b>2012</b> , 40, D1216-20	22
1092	Quantitative analysis of the lipidomes of the influenza virus envelope and MDCK cell apical membrane. <b>2012</b> , 196, 213-21	199
1091	Polyunsaturated fatty acids and peripheral artery disease. <b>2012</b> , 17, 51-63	21

1090	Triacylglyceride (TAG) profiles of integumentary lipids isolated from three bat species determined by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS). <b>2012</b> , 90, 1117-1127	13
1089	Perspectives on metabolic engineering for increased lipid contents in microalgae. <b>2012</b> , 3, 71-86	50
1088	LIPID MAPS-Nature Lipidomics Gateway: An Online Resource for Students and Educators Interested in Lipids. <b>2012</b> , 89, 291-292	43
1087	Alkamid database: Chemistry, occurrence and functionality of plant N-alkylamides. <b>2012</b> , 142, 563-90	91
1086	Discovery of phosphatidylcholines and sphingomyelins as biomarkers for ovarian endometriosis. <b>2012</b> , 27, 2955-65	89
1085	Template-based combinatorial enumeration of virtual compound libraries for lipids. <b>2012</b> , 4, 23	18
1084	Automated compound classification using a chemical ontology. <b>2012</b> , 4, 40	15
1083	High-Throughput Molecular Lipidomics. <b>2012</b> , 35-51	2
1082	Targeted Lipidomics: Sphingolipidomics. <b>2012</b> , 73-97	1
1081	Lipid Informatics: From a Mass Spectrum to Interactomics. <b>2012</b> , 147-174	4
1080	Imaging Mass Spectrometry. <b>2012</b> , 145-193	3
1079	CardioNet: a human metabolic network suited for the study of cardiomyocyte metabolism. <b>2012</b> , 6, 114	47
1078	Investigation of chronic alcohol consumption in rodents via ultra-high-performance liquid chromatography-mass spectrometry based metabolite profiling. <b>2012</b> , 1259, 128-37	22
1077	4,8-Sphingadienine and 4-hydroxy-8-sphingenine activate ceramide production in the skin. <b>2012</b> , 11, 108	23
1076	Metabolite profiling of a diverse collection of wheat lines using ultraperformance liquid chromatography coupled with time-of-flight mass spectrometry. <b>2012</b> , 7, e44179	32
1075	Low temporal variation in the intact polar lipid composition of North Sea coastal marine water reveals limited chemotaxonomic value. <b>2012</b> , 9, 1073-1084	22
1074	Semi-targeted metabolomic approaches to validate potential markers of health for micronutrients: analytical perspectives. <b>2012</b> , 8, 1114-1129	6
1073	Profiling eicosanoids and phospholipids using LC-MS/MS: principles and recent applications. <b>2012</b> , 35, 1227-35	23

1072	Nutritional lipid supply can control the heat shock response of B16 melanoma cells in culture. <b>2012</b> , 29, 274-89	13
1071	Lipid profiling of the model temperate grass, <i>Brachypodium distachyon</i> . <b>2012</b> , 8, 598-613	12
1070	MALDI-mass spectrometry imaging of desalted rat brain sections reveals ischemia-mediated changes of lipids. <b>2012</b> , 404, 113-24	40
1069	Comparison of sample preparation approaches for phospholipids profiling in human serum by liquid chromatography-tandem mass spectrometry. <b>2012</b> , 1240, 21-8	41
1068	Metabolic network reconstruction: advances in in silico interpretation of analytical information. <b>2012</b> , 23, 77-82	20
1067	A reversed-phase capillary ultra-performance liquid chromatography-mass spectrometry (UPLC-MS) method for comprehensive top-down/bottom-up lipid profiling. <b>2012</b> , 402, 2923-33	78
1066	Ozone-induced dissociation of conjugated lipids reveals significant reaction rate enhancements and characteristic odd-electron product ions. <b>2013</b> , 24, 286-96	55
1065	Lipidomics from an analytical perspective. <b>2013</b> , 17, 847-53	71
1064	Lipidomics applications in health, disease and nutrition research. <b>2013</b> , 57, 1336-46	53
1063	Nutritional lipidomics: molecular metabolism, analytics, and diagnostics. <b>2013</b> , 57, 1319-35	43
1062	The Lipid World Concept of Plant Lipidomics. <b>2013</b> , 331-376	2
1061	Lipidomics as a principal tool for advancing biomedical research. <b>2013</b> , 40, 375-90	87
1060	Trans-fatty acids, dangerous bonds for health? A background review paper of their use, consumption, health implications and regulation in France. <b>2013</b> , 52, 1289-302	35
1059	Lipids in preventive dentistry. <b>2013</b> , 17, 669-85	28
1058	Biological and Chemical Databases for Research into the Composition of Animal Source Foods. <b>2013</b> , 29, 321-351	13
1057	Invertebrates in Obesity Research: A Worm's Perspective. <b>2013</b> , 265-275	1
1056	Chemical and Physical Properties of Lipids. <b>2013</b> , 17-38	
1055	Molecular Gels for Tissue Engineering. <b>2013</b> , 129-162	1

1054	Technological approaches to minimize industrial trans fatty acids in foods. <b>2013</b> , 78, R377-86	26
1053	Impact of oxidized phospholipids on the structural and dynamic organization of phospholipid membranes: a combined DSC and solid state NMR study. <b>2013</b> , 161, 499-513; discussion 563-89	24
1052	On-line two-dimensional capillary strong anion exchange/reversed phase liquid chromatography-tandem mass spectrometry for comprehensive lipid analysis. <b>2013</b> , 1310, 82-90	40
1051	Profiling of oxidized lipid products of marine fish under acute oxidative stress. <b>2013</b> , 53, 205-13	27
1050	Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. <b>2013</b> , 113, 1904-2074	1008
1049	The Art and Practice of Lipidomics. <b>2013</b> , 137-176	5
1048	Separation of Lipids. <b>2013</b> , 203-248	4
1047	Influence of lipids on protein-mediated transmembrane transport. <b>2013</b> , 169, 57-71	29
1046	Mass spectrometry based lipid(ome) analyzer and molecular platform: a new software to interpret and analyze electrospray and/or matrix-assisted laser desorption/ionization mass spectrometric data of lipids: a case study from Mycobacterium tuberculosis. <b>2013</b> , 48, 465-77	21
1045	A practical guide to metabolomic profiling as a discovery tool for human heart disease. <b>2013</b> , 55, 2-11	70
1044	Fatty acid compositions of Taenia solium metacestode and its surrounding tissues. <b>2013</b> , 62, 75-8	2
1043	LC-MS-based Metabolomics of Xenobiotic-induced Toxicities. <b>2013</b> , 4, e201301008	17
1042	Statistical methods for the analysis of high-throughput metabolomics data. <b>2013</b> , 4, e201301009	176
1041	Plasma lipidomic profiling method based on ultrasound extraction and liquid chromatography mass spectrometry. <b>2013</b> , 85, 12085-92	62
1040	Stable isotope-assisted lipidomics combined with nontargeted isotopomer filtering, a tool to unravel the complex dynamics of lipid metabolism. <b>2013</b> , 85, 4651-7	37
1039	Crystal structure of 3-hydroxybenzoate 6-hydroxylase uncovers lipid-assisted flavoprotein strategy for regioselective aromatic hydroxylation. <b>2013</b> , 288, 26235-26245	38
1038	Bioinformatics tools and challenges in structural analysis of lipidomics MS/MS data. <b>2013</b> , 14, 375-90	26
1037	Mitochondrial fission mediates ceramide-induced metabolic disruption in skeletal muscle. <b>2013</b> , 456, 427-39	58



1036	Shorthand notation for lipid structures derived from mass spectrometry. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1523-1530	6.3	531
1035	The MetaboLights repository: curation challenges in metabolomics. <b>2013</b> , 2013, bat029		40
1034	Lipid metabolism emerges as a promising target for malignant glioma therapy. <b>2013</b> , 2, 289-99		93
1033	Mass spectrometry images acylcarnitines, phosphatidylcholines, and sphingomyelin in MDA-MB-231 breast tumor models. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 333-44	6.3	104
1032	Impact of lipid nutrition on neural stem/progenitor cells. <b>2013</b> , 2013, 973508		14
1031	<sup>13</sup> C-isotope-based protocol for prenyl lipid metabolic analysis in zebrafish embryos. <b>2013</b> , 8, 2337-47		12
1030	On the future of mass-spectrometry-based lipidomics. <b>2013</b> , 280, 2817-29		49
1029	Systems-Level Lipid Analysis Methodologies for Qualitative and Quantitative Investigation of Lipid Signaling Events During Wound Healing. <b>2013</b> , 2, 538-548		12
1028	Recent advances in shotgun lipidomics and their implication for vision research and ophthalmology. <b>2013</b> , 38, 417-27		26
1027	The role of sphingolipids in drug metabolism and transport. <b>2013</b> , 9, 319-31		2
1026	Alterations in cerebrospinal fluid glycerophospholipids and phospholipase A2 activity in Alzheimer's disease. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 2884-97	6.3	60
1025	Profiling the triacylglyceride contents in bat integumentary lipids by preparative thin layer chromatography and MALDI-TOF mass spectrometry. <b>2013</b> ,		5
1024	LipidHome: a database of theoretical lipids optimized for high throughput mass spectrometry lipidomics. <b>2013</b> , 8, e61951		59
1023	Lipidomic assessment of plasma and placenta of women with early-onset preeclampsia. <b>2014</b> , 9, e110747		32
1022	Dose-dependent metabolic alterations in human cells exposed to gamma irradiation. <b>2014</b> , 9, e113573		25
1021	Lipidomics: quest for molecular lipid biomarkers in cardiovascular disease. <b>2014</b> , 7, 941-54		53
1020	Lipids and prostate cancer adenocarcinoma. <b>2014</b> , 9, 643-655		3
1019	Untargeted profiling of urinary steroid metabolites after testosterone ingestion: opening new perspectives for antidoping testing. <b>2014</b> , 6, 2523-36		23

1018	Plasma lipidomics discloses metabolic syndrome with a specific HDL phenotype. <b>2014</b> , 28, 5163-71		34
1017	Lipidomics of Alzheimer's disease. <b>2014</b> , 6, 541-61		36
1016	A review on digestive TAG-lipases of insects. <b>2014</b> , 47, 2187-2192		5
1015	Predicting glycerophosphoinositol identities in lipidomic datasets using VaLID (Visualization and Phospholipid Identification)--an online bioinformatic search engine. <b>2014</b> , 2014, 818670		1
1014	Lipidomics applications for discovering biomarkers of diseases in clinical chemistry. <b>2014</b> , 313, 1-26		76
1013	Lipases and Their Functionality in the Production of Wheat-Based Food Systems. <b>2014</b> , 13, 978-989		59
1012	High resolution mass spectrometry based techniques at the crossroads of metabolic pathways. <b>2014</b> , 33, 471-500		117
1011	LipidMiner: a software for automated identification and quantification of lipids from multiple liquid chromatography/mass spectrometry data files. <b>2014</b> , 28, 981-5		4
1010	A high-fat diet suppresses de novo lipogenesis and desaturation but not elongation and triglyceride synthesis in mice. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 2541-53	6.3	96
1009	Cigarette smoke increases cardiomyocyte ceramide accumulation and inhibits mitochondrial respiration. <b>2014</b> , 14, 165		22
1008	The mzTab data exchange format: communicating mass-spectrometry-based proteomics and metabolomics experimental results to a wider audience. <b>2014</b> , 13, 2765-75		96
1007	Characterization of complex lipid mixtures in contaminant exposed JEG-3 cells using liquid chromatography and high-resolution mass spectrometry. <b>2014</b> , 21, 11907-16		24
1006	Recovery of Lipids from Algae. <b>2014</b> , 297-310		1
1005	Insulin increases ceramide synthesis in skeletal muscle. <b>2014</b> , 2014, 765784		77
1004	Candidate mediators of chondrocyte mechanotransduction via targeted and untargeted metabolomic measurements. <b>2014</b> , 545, 116-23		16
1003	Sample preparation and orthogonal chromatography for broad polarity range plasma metabolomics: application to human subjects with neurodegenerative dementia. <b>2014</b> , 455, 48-54		30
1002	Solid-phase extraction approach for phospholipids profiling by titania-coated silica microspheres prior to reversed-phase liquid chromatography-evaporative light scattering detection and tandem mass spectrometry analysis. <b>2014</b> , 123, 233-40		11
1001	Lipidomic profiling of snow algae by ESI-MS and silver-LC/APCI-MS. <b>2014</b> , 100, 34-42		24

1000	Glycerophospholipid analysis of Eastern red bat ( <i>Lasiurus borealis</i> ) hair by electrospray ionization tandem mass spectrometry. <b>2014</b> , 40, 227-35	4
999	New fatty acid derivatives based on barbiturates and other cyclic Edicarbonyl compounds and an acyl migration. <b>2014</b> , 11, 1429-1437	1
998	Comprehensive imaging of porcine adrenal gland lipids by MALDI-FTMS using quercetin as a matrix. <b>2014</b> , 86, 638-46	46
997	Ceramides and sphingomyelinases in senile plaques. <b>2014</b> , 65, 193-201	36
996	Yeast lipid metabolism at a glance. <b>2014</b> , 14, 369-88	177
995	Microbubble-mediated sonoporation amplified lipid peroxidation of Jurkat cells. <b>2014</b> , 180, 53-60	27
994	Lipid integration in neurodegeneration: an overview of Alzheimer's disease. <b>2014</b> , 50, 168-76	65
993	Acyltransferases and transacylases that determine the fatty acid composition of glycerolipids and the metabolism of bioactive lipid mediators in mammalian cells and model organisms. <b>2014</b> , 53, 18-81	146
992	Rapid and simple extraction of lipids from blood plasma and urine for liquid chromatography-tandem mass spectrometry. <b>2014</b> , 1331, 19-26	39
991	Lipidomics in the analysis of malignancy. <b>2014</b> , 54, 93-8	16
990	Novel semisolid SNEDDS based on PEG-30-dipolyhydroxystearate: development and characterization. <b>2014</b> , 477, 506-18	11
989	High-content screening of yeast mutant libraries by shotgun lipidomics. <b>2014</b> , 10, 1364-76	23
988	Liposomes in tissue engineering and regenerative medicine. <b>2014</b> , 11, 20140459	198
987	Structural characterization of glycerophospholipids by combinations of ozone- and collision-induced dissociation mass spectrometry: the next step towards "top-down" lipidomics. <b>2014</b> , 139, 204-14	94
986	Objective set of criteria for optimization of sample preparation procedures for ultra-high throughput untargeted blood plasma lipid profiling by ultra performance liquid chromatography-mass spectrometry. <b>2014</b> , 86, 5766-74	153
985	Untargeted lipidomic analysis in chronic obstructive pulmonary disease. Uncovering sphingolipids. <b>2014</b> , 190, 155-64	82
984	The lipid profile of brown adipose tissue is sex-specific in mice. <b>2014</b> , 1842, 1563-70	40
983	Systems biology strategies to study lipidomes in health and disease. <b>2014</b> , 55, 43-60	59

982	Enhanced lipid isomer separation in human plasma using reversed-phase UPLC with ion-mobility/high-resolution MS detection. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1772-83	6.3	88
981	A non-target chemometric strategy applied to UPLC-MS sphingolipid analysis of a cell line exposed to chlorpyrifos pesticide: A feasibility study. <b>2014</b> , 117, 255-261		14
980	Deciphering non-alcoholic fatty liver disease through metabolomics. <b>2014</b> , 42, 1447-52		23
979	Proteomics, lipidomics, metabolomics: a mass spectrometry tutorial from a computer scientist's point of view. <b>2014</b> , 15 Suppl 7, S9		42
978	The Arabidopsis thaliana lysophospholipid acyltransferase At1g78690p acylates a variety of lysophospholipids including bis(monoacylglycero)phosphate. <b>2014</b> , 452, 1022-7		2
977	Characterization of acyl chain position in unsaturated phosphatidylcholines using differential mobility-mass spectrometry. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1668-77	6.3	82
976	Human urinary biomarkers of dioxin exposure: analysis by metabolomics and biologically driven data dimensionality reduction. <b>2014</b> , 230, 234-43		40
975	A lipidomic perspective on intermediates in cholesterol synthesis as indicators of disease status. <b>2014</b> , 41, 275-82		6
974	Multiple bonds for the lipid interest. <b>2014</b> , 1841, 1031-7		23
973	Modeling of eicosanoid fluxes reveals functional coupling between cyclooxygenases and terminal synthases. <b>2014</b> , 106, 966-75		20
972	Lipidomics: analysis of the lipid composition of cells and subcellular organelles by electrospray ionization mass spectrometry. <b>2014</b> , 83, 79-98		193
971	Towards automated discrimination of lipids versus peptides from full scan mass spectra. <b>2014</b> , 4, 87-100		5
970	Do lipids influence the allergic sensitization process?. <b>2014</b> , 134, 521-9		95
969	Lipid bilayers supported on bare and modified gold [Formation, characterization and relevance of lipid rafts. <b>2014</b> , 126, 139-150		24
968	Mycobacterial Lipidomics. <b>2014</b> , 2,		17
967	A semi-automated methodology for finding lipid-related GO terms. <b>2014</b> , 2014,		0
966	Traveling-wave ion mobility-mass spectrometry in metabolomics: workflows and bioinformatic tools. <b>2015</b> , 68-80		2
965	References and Notes. <b>2015</b> , 167-179		

964	Reverse enGENEering of Regulatory Networks from Big Data: A Roadmap for Biologists. <b>2015</b> , 9, 61-74	30
963	Metabolomic profiling of Burkholderia pseudomallei using UHPLC-ESI-Q-TOF-MS reveals specific biomarkers including 4-methyl-5-thiazoleethanol and unique thiamine degradation pathway. <b>2015</b> , 5, 26	10
962	Electron-induced dissociation (EID) for structure characterization of glycerophosphatidylcholine: determination of double-bond positions and localization of acyl chains. <b>2015</b> , 50, 1327-39	31
961	Untargeted Metabolomics Reveals Predominant Alterations in Lipid Metabolism Following Light Exposure in Broccoli Sprouts. <b>2015</b> , 16, 13678-91	15
960	Chemical Composition of Fat and Oil Products. <b>2015</b> , 365-402	2
959	MALDI Mass Spectrometry Imaging of Lipids and Gene Expression Reveals Differences in Fatty Acid Metabolism between Follicular Compartments in Porcine Ovaries. <b>2015</b> , 4, 216-36	23
958	Transcriptome Analysis Comparison of Lipid Biosynthesis in the Leaves and Developing Seeds of Brassica napus. <b>2015</b> , 10, e0126250	17
957	The LUX Score: A Metric for Lipidome Homology. <b>2015</b> , 11, e1004511	9
956	Changes in PTGS1 and ALOX12 Gene Expression in Peripheral Blood Mononuclear Cells Are Associated with Changes in Arachidonic Acid, Oxylipins, and Oxylipin/Fatty Acid Ratios in Response to Omega-3 Fatty Acid Supplementation. <b>2015</b> , 10, e0144996	12
955	Lipidomics by Supercritical Fluid Chromatography. <b>2015</b> , 16, 13868-84	81
954	Lipidomics. <b>2015</b> , 68, 395-439	3
953	ESI-MS/MS and MALDI-IMS Localization Reveal Alterations in Phosphatidic Acid, Diacylglycerol, and DHA in Glioma Stem Cell Xenografts. <b>2015</b> , 14, 2511-9	27
952	LC-MS-based serum metabolomic analysis reveals dysregulation of phosphatidylcholines in esophageal squamous cell carcinoma. <b>2015</b> , 127, 96-102	26
951	COordination of Standards in MetabOlogicS (COSMOS): facilitating integrated metabolomics data access. <b>2015</b> , 11, 1587-1597	109
950	RNA-Seq and Mass-Spectrometry-Based Lipidomics Reveal Extensive Changes of Glycerolipid Pathways in Brown Adipose Tissue in Response to Cold. <b>2015</b> , 13, 2000-13	43
949	Evidence of a molecular boundary lubricant at snakeskin surfaces. <b>2015</b> , 12, 20150817	17
948	Mechanotransduction in primary human osteoarthritic chondrocytes is mediated by metabolism of energy, lipids, and amino acids. <b>2015</b> , 48, 4253-61	22
947	Effect of P. Murex on the properties of spin coated ZnO thin films for dye sensitized solar cell applications. <b>2015</b> , 26, 7577-7587	8

946	Brain membrane lipids in major depression and anxiety disorders. <b>2015</b> , 1851, 1052-65	173
945	Metabolism of acyl-lipids in <i>Chlamydomonas reinhardtii</i> . <b>2015</b> , 82, 504-522	168
944	Understanding nanoparticle cellular entry: A physicochemical perspective. <b>2015</b> , 218, 48-68	219
943	Metabolism of propionic acid to a novel acyl-coenzyme A thioester by mammalian cell lines and platelets. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 142-50	6.3 13
942	Automated structural classification of lipids by machine learning. <b>2015</b> , 31, 621-5	2
941	Ion mobility-derived collision cross section as an additional measure for lipid fingerprinting and identification. <b>2015</b> , 87, 1137-44	199
940	Multidimensional analytical approach based on UHPLC-UV-ion mobility-MS for the screening of natural pigments. <b>2015</b> , 87, 2593-9	43
939	Organization and evolution of brain lipidome revealed by large-scale analysis of human, chimpanzee, macaque, and mouse tissues. <b>2015</b> , 85, 695-702	94
938	Metabolic phenotyping of atherosclerotic plaques reveals latent associations between free cholesterol and ceramide metabolism in atherogenesis. <b>2015</b> , 14, 1389-99	53
937	Plasma lipidomics reveal profound perturbation of glycerophospholipids, fatty acids, and sphingolipids in diet-induced hyperlipidemia. <b>2015</b> , 228, 79-87	58
936	Ultra-high-performance liquid chromatography electrospray ionization tandem mass spectrometry for accurate analysis of glycerophospholipids and sphingolipids in drug resistance tumor cells. <b>2015</b> , 1381, 140-8	27
935	Metabolomics reveals significant impairments in the immune system of the APP/PS1 transgenic mice of Alzheimer's disease. <b>2015</b> , 36, 577-87	22
934	Lipidomics: new insight into kidney disease. <b>2015</b> , 68, 153-75	66
933	Metabolite localization by atmospheric pressure high-resolution scanning microprobe matrix-assisted laser desorption/ionization mass spectrometry imaging in whole-body sections and individual organs of the rove beetle <i>Paederus riparius</i> . <b>2015</b> , 407, 2189-201	40
932	Metabolomics in the developmental origins of obesity and its cardiometabolic consequences. <b>2015</b> , 6, 65-78	35
931	Lipid metabolism, apoptosis and cancer therapy. <b>2015</b> , 16, 924-49	242
930	Rapid high performance liquid chromatography-high resolution mass spectrometry methodology for multiple prenol lipids analysis in zebrafish embryos. <b>2015</b> , 1412, 59-66	10
929	Unsaturated fatty acids as high-affinity ligands of the C-terminal Per-ARNT-Sim domain from the Hypoxia-inducible factor 3H. <b>2015</b> , 5, 12698	12

928	Liquid extraction surface analysis field asymmetric waveform ion mobility spectrometry mass spectrometry for the analysis of dried blood spots. <b>2015</b> , 140, 6879-85	46
927	Glycerophospholipid Profiles of Bats with White-Nose Syndrome. <b>2015</b> , 88, 425-32	9
926	High-Throughput and Comprehensive Lipidomic Analysis Using Ultrahigh-Performance Supercritical Fluid Chromatography-Mass Spectrometry. <b>2015</b> , 87, 7187-95	163
925	Profiling over 1500 lipids in induced lung sputum and the implications in studying lung diseases. <b>2015</b> , 87, 4957-64	23
924	Lipidomic analysis of plasma, erythrocytes and lipoprotein fractions of cardiovascular disease patients using UHPLC/MS, MALDI-MS and multivariate data analysis. <b>2015</b> , 990, 52-63	23
923	Genome instability biomarkers and blood micronutrient risk profiles associated with mild cognitive impairment and Alzheimer's disease. <b>2015</b> , 776, 54-83	13
922	Targeting of the hydrophobic metabolome by pathogens. <b>2015</b> , 16, 439-60	10
921	Lipidomics: An Evolving Discipline in Molecular Sciences. <b>2015</b> , 16, 7748-7752	5
920	Steroidomic Footprinting Based on Ultra-High Performance Liquid Chromatography Coupled with Qualitative and Quantitative High-Resolution Mass Spectrometry for the Evaluation of Endocrine Disrupting Chemicals in H295R Cells. <b>2015</b> , 28, 955-66	23
919	Reconstruction of genome-scale human metabolic models using omics data. <b>2015</b> , 7, 859-68	38
918	Continuous comprehensive two-dimensional liquid chromatography-electrospray ionization mass spectrometry of complex lipidomic samples. <b>2015</b> , 407, 5033-43	52
917	Applications of ion-mobility mass spectrometry for lipid analysis. <b>2015</b> , 407, 4995-5007	125
916	Lipidomics applications for disease biomarker discovery in mammal models. <b>2015</b> , 9, 153-68	54
915	Mitochondrial responses to extreme environments: insights from metabolomics. <b>2015</b> , 4, 7	11
914	Challenges in nutritional metabolomics. <b>2015</b> , 3-16	2
913	Inflammaging and cancer: a challenge for the Mediterranean diet. <b>2015</b> , 7, 2589-621	117
912	Concurrent self-assembly of amphiphiles into nanoarchitectures with increasing complexity. <b>2015</b> , 10, 278-300	56
911	Steroid biosynthesis in adipose tissue. <b>2015</b> , 103, 89-104	52

910	Plant Lipidomics: Signalling and Analytical Strategies. <b>2015</b> , 331-356		1
909	Combining liquid chromatography with ozone-induced dissociation for the separation and identification of phosphatidylcholine double bond isomers. <b>2015</b> , 407, 5053-64		25
908	The systematic analysis of protein-lipid interactions comes of age. <b>2015</b> , 16, 753-61		119
907	A rapid ambient ionization-mass spectrometry approach to monitoring the relative abundance of isomeric glycerophospholipids. <b>2015</b> , 5, 9243		28
906	Introduction to Thematic Review Series: Phospholipases: Central Role in Lipid Signaling and Disease. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1245-7	6.3	35
905	Polypharmacology Shakes Hands with Complex Aetiopathology. <b>2015</b> , 36, 802-821		24
904	High resolution ion mobility-mass spectrometry for separation and identification of isomeric lipids. <b>2015</b> , 140, 6904-11		139
903	Postprandial Plasma Phospholipids in Men Are Influenced by the Source of Dietary Fat. <b>2015</b> , 145, 2012-8		43
902	Translational metabolomics in cancer research. <b>2015</b> , 9, 821-34		15
901	Mass spectrometry-based lipidomics analysis using methyl tert-butyl ether extraction in human hepatocellular carcinoma tissues. <b>2015</b> , 7, 8466-8471		4
900	Prospects of common biomolecules as coating substances for polymeric biomaterials. <b>2015</b> , 5, 69660-69679		18
899	Matrix coating assisted by an electric field (MCAEF) for enhanced tissue imaging by MALDI-MS. <b>2015</b> , 6, 729-738		25
898	Targeting host lipid synthesis and metabolism to inhibit dengue and hepatitis C viruses. <b>2015</b> , 124, 110-21		47
897	Autonomous metabolomics for rapid metabolite identification in global profiling. <b>2015</b> , 87, 884-91		119
896	Lipidomic analysis of cerebrospinal fluid by mass spectrometry-based methods. <b>2015</b> , 38, 53-64		14
895	Determination of nonpolar and polar lipid classes in human plasma, erythrocytes and plasma lipoprotein fractions using ultrahigh-performance liquid chromatography-mass spectrometry. <b>2015</b> , 1377, 85-91		40
894	Principles and practice of lipidomics. <b>2015</b> , 38, 41-52		29
893	BMP and RA signaling cooperate to regulate Apolipoprotein C1 expression during embryonic development. <b>2015</b> , 554, 196-204		8



892	Nutritive and xenobiotic compounds in the alien algae <i>Undaria pinnatifida</i> from Argentine Patagonia. <b>2015</b> , 68, 553-65	13
891	Systems Toxicology. <b>2016</b> , 1-39	1
890	Alterations in Serum Polyunsaturated Fatty Acids and Eicosanoids in Patients with Mild to Moderate Chronic Obstructive Pulmonary Disease (COPD). <b>2016</b> , 17,	23
889	Internet Databases of the Properties, Enzymatic Reactions, and Metabolism of Small Molecules-Search Options and Applications in Food Science. <b>2016</b> , 17,	16
888	Trans Fats and Risks of Cardiovascular Diseases. <b>2016</b> , 21-38	1
887	Glycosphingolipid-Protein Interaction in Signal Transduction. <b>2016</b> , 17,	38
886	Computational Modeling of Lipid Metabolism in Yeast. <b>2016</b> , 3, 57	7
885	Lipidomics-Reshaping the Analysis and Perception of Type 2 Diabetes. <b>2016</b> , 17,	35
884	Bioprospecting of Marine Macrophytes Using MS-Based Lipidomics as a New Approach. <b>2016</b> , 14,	36
883	Biological Effects of Naturally Occurring Sphingolipids, Uncommon Variants, and Their Analogs. <b>2016</b> , 18, 396-414	20
882	Quantitative analysis of N-acylphosphatidylethanolamine molecular species in rat brain using solid-phase extraction combined with reversed-phase chromatography and tandem mass spectrometry. <b>2016</b> , 39, 2474-80	10
881	Lipid specific molecular ion emission as a function of the primary ion characteristics in TOF-SIMS. <b>2016</b> , 34, 051804	7
880	Metabolomic profiling predicts outcome of rituximab therapy in rheumatoid arthritis. <b>2016</b> , 2, e000289	23
879	Comprehensive systems biology analysis of a 7-month cigarette smoke inhalation study in C57BL/6 mice. <b>2016</b> , 3, 150077	21
878	Biocatalytic Synthesis of Phospholipids and Their Application as Coating Agents for CaCO <sub>3</sub> NanoCrystals: Characterization and Intracellular Localization Analysis. <b>2016</b> , 1, 6507-6514	12
877	Cellular and Molecular Biological Approaches to Interpreting Ancient Biomarkers. <b>2016</b> , 44, 493-522	24
876	Retention behavior of lipids in reversed-phase ultrahigh-performance liquid chromatography-electrospray ionization mass spectrometry. <b>2016</b> , 1450, 76-85	65
875	A Lipidomic and Metabolomic Serum Signature from Nonhuman Primates Exposed to Ionizing Radiation. <b>2016</b> , 12, 1	42

874	Metabolomics in rheumatic diseases: desperately seeking biomarkers. <b>2016</b> , 12, 269-81	95
873	Annotation of the human cerebrospinal fluid lipidome using high resolution mass spectrometry and a dedicated data processing workflow. <b>2016</b> , 12, 91	30
872	A protocol for the systematic and quantitative measurement of protein-lipid interactions using the liposome-microarray-based assay. <b>2016</b> , 11, 1021-38	18
871	Evidence for two protein coding transcripts at the Igf2as locus. <b>2016</b> , 4, 60-66	1
870	Use of lipidomics to investigate sebum dysfunction in juvenile acne. <i>Journal of Lipid Research</i> , <b>2016</b> , 57, 1051-8	6.3 42
869	Lipid Regulation of Sodium Channels. <b>2016</b> , 78, 353-407	8
868	An insight into the role of arachidonic acid derived lipid mediators in virus associated pathogenesis and malignancies. <b>2016</b> , 126, 46-54	16
867	Lipidomic Signature of Progression of Chronic Kidney Disease in the Chronic Renal Insufficiency Cohort. <b>2016</b> , 1, 256-268	50
866	Making Sense of the Yeast Sphingolipid Pathway. <b>2016</b> , 428, 4765-4775	24
865	Psoralen and Ultraviolet A Light Treatment Directly Affects Phosphatidylinositol 3-Kinase Signal Transduction by Altering Plasma Membrane Packing. <b>2016</b> , 291, 24364-24376	20
864	Fatty Acid Oxidation Mediated by Acyl-CoA Synthetase Long Chain 3 Is Required for Mutant KRAS Lung Tumorigenesis. <b>2016</b> , 16, 1614-1628	123
863	Integrative analysis of human omics data using biomolecular networks. <b>2016</b> , 12, 2953-64	26
862	Metabolomics in childhood diabetes. <b>2016</b> , 17, 3-14	24
861	Liberating Chiral Lipid Mediators, Inflammatory Enzymes, and LIPID MAPS from Biological Grease. <b>2016</b> , 291, 24431-24448	30
860	Enhanced Lipidome Coverage in Shotgun Analyses by using Gas-Phase Fractionation. <b>2016</b> , 27, 1735-1744	13
859	Technological Platforms to Study Plant Lipidomics. <b>2016</b> , 477-492	
858	Complex Lipids and Sterols in the Leaves of <i>Eucalyptus macrorhyncha</i> (Myrtaceae) in the Context of Feeding by an Unnamed Gall-Inducing Species of <i>Glycaspis</i> (Synglycaspis) (Hemiptera: Psylloidea: Aphalaridae). <b>2016</b> , 109, 890-898	3
857	Simple LC-MS Method for Differentiation of Isobaric Phosphatidylserines and Phosphatidylcholines with Deuterated Mobile Phase Additives. <b>2016</b> , 88, 9103-10	2

856	Purity matters: A workflow for the valid high-resolution lipid profiling of mitochondria from cell culture samples. <b>2016</b> , 6, 21107	25
855	ClassyFire: automated chemical classification with a comprehensive, computable taxonomy. <b>2016</b> , 8, 61	327
854	Lipidomics. <b>2016</b> , 147-159	1
853	Rapid Evaporative Ionisation Mass Spectrometry (REIMS) Provides Accurate Direct from Culture Species Identification within the Genus Candida. <b>2016</b> , 6, 36788	36
852	Systems biology in plant cells and their organelles. <b>2016</b> , 371-391	
851	Food-induced changes of lipids in rat neuronal tissue visualized by ToF-SIMS imaging. <b>2016</b> , 6, 32797	11
850	On Exclusivity of Vanadium and Nickel Porphyrins in Crude Oil. <b>2016</b> , 30, 9978-9980	5
849	Integration of lipidomics and transcriptomics unravels aberrant lipid metabolism and defines cholesteryl oleate as potential biomarker of prostate cancer. <b>2016</b> , 6, 20984	82
848	Reduced expression of CDP-DAG synthase changes lipid composition and leads to male sterility in Drosophila. <b>2016</b> , 6, 50169	18
847	Extraction, chromatographic and mass spectrometric methods for lipid analysis. <b>2016</b> , 30, 695-709	47
846	Guinea pig genital tract lipidome reveals in vivo and in vitro regulation of phosphatidylcholine 16:0/18:1 and contribution to serovar D infectivity. <b>2016</b> , 12, 1	4
845	Crystallization and rheology of palm oil in the presence of sugar. <b>2016</b> , 85, 224-234	13
844	Molecular Damage: Hyperthermia Alone. <b>2016</b> , 19-32	
843	Imaging mass spectrometry: Molecular microscopy for the new age of biology and medicine. <b>2016</b> , 16, 1607-12	43
842	Trimethylation Enhancement Using (13)C-Diazomethane ((13)C-TrEnDi): Increased Sensitivity and Selectivity of Phosphatidylethanolamine, Phosphatidylcholine, and Phosphatidylserine Lipids Derived from Complex Biological Samples. <b>2016</b> , 88, 6996-7004	15
841	Cu-Catalyzed Click Reaction in Carbohydrate Chemistry. <b>2016</b> , 116, 3086-240	490
840	Optimized Protocol To Analyze Changes in the Lipidome of Xenografts after Treatment with 2-Hydroxyoleic Acid. <b>2016</b> , 88, 1022-9	6
839	Effects of Cigarette Smoke, Cessation, and Switching to Two Heat-Not-Burn Tobacco Products on Lung Lipid Metabolism in C57BL/6 and Apoe <sup>-/-</sup> Mice-An Integrative Systems Toxicology Analysis. <b>2016</b> , 149, 441-57	39

838	ECMDB 2.0: A richer resource for understanding the biochemistry of E. coli. <b>2016</b> , 44, D495-501	73
837	Wolbachia Modulates Lipid Metabolism in Aedes albopictus Mosquito Cells. <b>2016</b> , 82, 3109-3120	69
836	Regulating effect of $\beta$ -ketoacyl synthase domain of fatty acid synthase on fatty acyl chain length in de novo fatty acid synthesis. <b>2016</b> , 1861, 149-55	10
835	The TULIP superfamily of eukaryotic lipid-binding proteins as a mediator of lipid sensing and transport. <b>2016</b> , 1861, 913-923	51
834	Mass Spectrometry in Plant-omics. <b>2016</b> , 88, 3422-34	50
833	Ion mobility mass spectrometry enhances low-abundance species detection in untargeted lipidomics. <b>2016</b> , 12, 50	30
832	Lipid interaction sites on channels, transporters and receptors: Recent insights from molecular dynamics simulations. <b>2016</b> , 1858, 2390-2400	112
831	Oil Secretory System in Vegetative Organs of Three Arnica Taxa: Essential Oil Synthesis, Distribution and Accumulation. <b>2016</b> , 57, 1020-37	16
830	Emerging roles for lipids in non-apoptotic cell death. <b>2016</b> , 23, 1099-109	120
829	Unbiased Metabolomic Investigation of Alzheimer's Disease Brain Points to Dysregulation of Mitochondrial Aspartate Metabolism. <b>2016</b> , 15, 608-18	79
828	Requirement of Phosphoinositides Containing Stearic Acid To Control Cell Polarity. <b>2016</b> , 36, 765-80	9
827	Phospholipidomic identification of potential serum biomarkers in dengue fever, hepatitis B and hepatitis C using liquid chromatography-electrospray ionization-tandem mass spectrometry. <b>2016</b> , 1009-1010, 44-54	8
826	Pore-forming toxins: Properties, diversity, and uses as tools to image sphingomyelin and ceramide phosphoethanolamine. <b>2016</b> , 1858, 576-92	22
825	Salt-stress induced alterations in the root lipidome of two barley genotypes with contrasting responses to salinity. <b>2016</b> , 43, 207-219	29
824	Lipidomics of tobacco leaf and cigarette smoke. <b>2016</b> , 1439, 54-64	3
823	Metabolomics Workbench: An international repository for metabolomics data and metadata, metabolite standards, protocols, tutorials and training, and analysis tools. <b>2016</b> , 44, D463-70	309
822	Lipid metabolism in mycobacteria--Insights using mass spectrometry-based lipidomics. <b>2016</b> , 1861, 60-67	12
821	Evaluation and identification of dioxin exposure biomarkers in human urine by high-resolution metabolomics, multivariate analysis and in vitro synthesis. <b>2016</b> , 240, 22-31	22

820	Evaluation of steroidomics by liquid chromatography hyphenated to mass spectrometry as a powerful analytical strategy for measuring human steroid perturbations. <b>2016</b> , 1430, 97-112	61
819	Omega-3 fatty acids, lipid rafts, and T cell signaling. <b>2016</b> , 785, 2-9	56
818	Proposed Confidence Scale and ID Score in the Identification of Known-Unknown Compounds Using High Resolution MS Data. <b>2017</b> , 28, 709-723	40
817	Genetic alterations in Krebs cycle and its impact on cancer pathogenesis. <b>2017</b> , 135, 164-172	59
816	Dysregulation of lipids in Alzheimer's disease and their role as potential biomarkers. <b>2017</b> , 13, 810-827	89
815	NMR metabolic fingerprints of murine melanocyte and melanoma cell lines: application to biomarker discovery. <b>2017</b> , 7, 42324	14
814	Common cases of improper lipid annotation using high-resolution tandem mass spectrometry data and corresponding limitations in biological interpretation. <b>2017</b> , 1862, 766-770	37
813	Opinion article on lipidomics: Inherent challenges of lipidomic analysis of sphingolipids. <b>2017</b> , 1862, 774-776	14
812	Analysing Algorithms and Data Sources for the Tissue-Specific Reconstruction of Liver Healthy and Cancer Cells. <b>2017</b> , 9, 36-45	6
811	Changes in lipidomic profile of aqueous humour in Fuchs endothelial dystrophy. <b>2017</b> , 95, 727-732	5
810	Metabolomics for clinical use and research in chronic kidney disease. <b>2017</b> , 13, 269-284	169
809	Metabolomics: A Primer. <b>2017</b> , 42, 274-284	167
808	Infection-derived lipids elicit an immune deficiency circuit in arthropods. <b>2017</b> , 8, 14401	50
807	On Mass Ambiguities in High-Resolution Shotgun Lipidomics. <b>2017</b> , 89, 2986-2994	18
806	Phospholipidomic Studies in Human Cornea From Climatic Droplet Keratopathy. <b>2017</b> , 118, 3920-3931	7
805	Computational studies of membrane proteins: from sequence to structure to simulation. <b>2017</b> , 45, 133-141	15
804	Breaking Up Prolonged Sitting Alters the Postprandial Plasma Lipidomic Profile of Adults With Type 2 Diabetes. <b>2017</b> , 102, 1991-1999	29
803	Quantitative Profiling of Lysosomal Lipidome by Shotgun Lipidomics. <b>2017</b> , 1594, 19-34	5

802	Recent advances in expanding the coverage of the lipidome. <b>2017</b> , 43, 127-133	42
801	Lipidomics in translational research and the clinical significance of lipid-based biomarkers. <b>2017</b> , 189, 13-29	56
800	Opinion articles on lipidomics - A critical assessment of the state-of-the-art. <b>2017</b> , 1862, 729-730	4
799	The early metabolomic response of adipose tissue during acute cold exposure in mice. <b>2017</b> , 7, 3455	31
798	Nanotubes connecting B lymphocytes: High impact of differentiation-dependent lipid composition on their growth and mechanics. <b>2017</b> , 1862, 991-1000	9
797	Collision cross section predictions using 2-dimensional molecular descriptors. <b>2017</b> , 53, 7624-7627	31
796	Lipid homeostasis and regulated cell death. <b>2017</b> , 39, 83-89	68
795	PM-bound metal metabolic distribution and coupled lipid abnormality at different developmental windows. <b>2017</b> , 228, 354-362	28
794	Lipidomic Profiles in Diabetes and Dementia. <b>2017</b> , 59, 433-444	21
793	MALDI-Imaging Mass Spectrometry of Brain Lipids. <b>2017</b> , 45-59	2
792	Ion-Mobility Mass Spectrometry for Lipidomics Applications. <b>2017</b> , 61-79	5
791	Lipidome determinants of maximal lifespan in mammals. <b>2017</b> , 7, 5	37
790	Ambient Lipidomic Analysis of Brain Tissue Using Desorption Electrospray Ionization (DESI) Mass Spectrometry. <b>2017</b> , 187-210	3
789	The lipidome in major depressive disorder: Shared genetic influence for ether-phosphatidylcholines, a plasma-based phenotype related to inflammation, and disease risk. <b>2017</b> , 43, 44-50	20
788	Lipidomics by ultrahigh performance liquid chromatography-high resolution mass spectrometry and its application to complex biological samples. <b>2017</b> , 1053, 72-80	70
787	Simultaneous Profiling of Lysoglycerophospholipids in Rice ( <i>Oryza sativa</i> L.) Using Direct Infusion-Tandem Mass Spectrometry with Multiple Reaction Monitoring. <b>2017</b> , 65, 2628-2634	18
786	In silico analysis of human metabolism: Reconstruction, contextualization and application of genome-scale models. <b>2017</b> , 2, 29-38	15
785	Metabolomics and lipidomics using traveling-wave ion mobility mass spectrometry. <b>2017</b> , 12, 797-813	155

784	Impaired liver regeneration in aged mice can be rescued by silencing Hippo core kinases MST1 and MST2. <b>2017</b> , 9, 46-60		61
783	Lipid Metabolism, Lipid Signalling and Longevity. <b>2017</b> , 307-329		1
782	Comparing identified and statistically significant lipids and polar metabolites in 15-year old serum and dried blood spot samples for longitudinal studies. <b>2017</b> , 31, 447-456		26
781	Seaweed Lipidomics in the Era of Omics Biology: A Contemporary Perspective. <b>2017</b> , 49-97		1
780	Spontaneous charged lipid transfer between lipid vesicles. <b>2017</b> , 7, 12606		13
779	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950-Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , <b>2017</b> , 58, 2275-2288	6.3	220
778	Bioinformatics Tools for the Interpretation of Metabolomics Data. <b>2017</b> , 3, 374-383		28
777	Lipidomic analysis of biological samples: Comparison of liquid chromatography, supercritical fluid chromatography and direct infusion mass spectrometry methods. <b>2017</b> , 1525, 96-108		73
776	Lipids in Fruits and Vegetables. <b>2017</b> , 423-450		3
775	The Role of Lipids Interacting with Synuclein in the Pathogenesis of Parkinson's Disease. <b>2017</b> , 7, 433-450		117
774	Holistic Lipidomics of the Human Gut Phenotype Using Validated Ultra-High-Performance Liquid Chromatography Coupled to Hybrid Orbitrap Mass Spectrometry. <b>2017</b> , 89, 12502-12510		33
773	A preliminary study of bipolar disorder type I by mass spectrometry-based serum lipidomics. <b>2017</b> , 258, 268-273		18
772	Plant Metabolomics: Maximizing Metabolome Coverage by Optimizing Mobile Phase Additives for Nontargeted Mass Spectrometry in Positive and Negative Electrospray Ionization Mode. <b>2017</b> , 89, 10474-10486		34
771	Exploring potential biomarkers and determining the metabolic mechanism of type 2 diabetes mellitus using liquid chromatography coupled to high-resolution mass spectrometry. <b>2017</b> , 7, 44186-44198		18
770	Establishing multiple omics baselines for three Southeast Asian populations in the Singapore Integrative Omics Study. <b>2017</b> , 8, 653		26
769	Lipidomic Signatures of Nonhuman Primates with Radiation-Induced Hematopoietic Syndrome. <b>2017</b> , 7, 9777		24
768	Rapid determination of medulloblastoma subgroup affiliation with mass spectrometry using a handheld picosecond infrared laser desorption probe. <b>2017</b> , 8, 6508-6519		27
767	Optimization of normal phase chromatographic conditions for lipid analysis and comparison of associated detection techniques. <b>2017</b> , 1514, 54-71		30

766	Understanding the role of tyrosine in glycogenin. <b>2017</b> , 13, 1709-1712	3
765	Lipidomics Insights in Health and Nutritional Intervention Studies. <b>2017</b> , 65, 7827-7842	24
764	Comparative metabolic profiling of four transgenic maize lines and two non-transgenic maize lines using high-performance liquid chromatography mass spectrometry. <b>2017</b> , 39, 1	4
763	Applications of sharpless asymmetric dihydroxylation in the total synthesis of natural products. <b>2017</b> , 28, 987-1043	43
762	Multiplexed silicon photonic sensor arrays enable facile characterization of coagulation protein binding to nanodiscs with variable lipid content. <b>2017</b> , 292, 16249-16256	4
761	Separation of lipids. <b>2017</b> , 201-243	2
760	The Role of Lipid Metabolism for Neural Stem Cell Regulation. <b>2017</b> , 3, 61-71	32
759	Mild heat induces a distinct "eustress" response in Chinese Hamster Ovary cells but does not induce heat shock protein synthesis. <b>2017</b> , 7, 15643	8
758	Comprehensive Analysis of Short-, Medium-, and Long-Chain Acyl-Coenzyme A by Online Two-Dimensional Liquid Chromatography/Mass Spectrometry. <b>2017</b> , 89, 12902-12908	16
757	Glycerolipid Profiling of Yellow Sarson Seeds Using Ultra High Performance Liquid Chromatography Coupled to Triple Time-of-Flight Mass Spectrometry. <b>2017</b> , 3, 141-150	2
756	Changes in Lipidome Composition during Brain Development in Humans, Chimpanzees, and Macaque Monkeys. <b>2017</b> , 34, 1155-1166	20
755	Global Monitoring of the Mammalian Lipidome by Quantitative Shotgun Lipidomics. <b>2017</b> , 1609, 123-139	6
754	Detailed Structural Characterization of Sphingolipids via 193 nm Ultraviolet Photodissociation and Ultra High Resolution Tandem Mass Spectrometry. <b>2017</b> , 28, 1406-1419	79
753	Biofluid lipidome: a source for potential diagnostic biomarkers. <b>2017</b> , 6, 22	21
752	A Robust Lipidomics Workflow for Mammalian Cells, Plasma, and Tissue Using Liquid-Chromatography High-Resolution Tandem Mass Spectrometry. <b>2017</b> , 1609, 91-106	22
751	Combined Use of MALDI-TOF Mass Spectrometry and P NMR Spectroscopy for Analysis of Phospholipids. <b>2017</b> , 1609, 107-122	5
750	The application of lipidomics to biomarker research and pathomechanisms in Alzheimer's disease. <b>2017</b> , 30, 136-144	21
749	Lipid Identification by Untargeted Tandem Mass Spectrometry Coupled with Ultra-High-Pressure Liquid Chromatography. <b>2017</b> , 1609, 65-82	4



748	MALDI mass spectrometry in medical research and diagnostic routine laboratories. <b>2017</b> , 416, 96-109	6
747	Supercritical fluid chromatography for lipid analysis in foodstuffs. <b>2017</b> , 40, 361-382	24
746	Using lipidomics analysis to determine signalling and metabolic changes in cells. <b>2017</b> , 43, 96-103	39
745	Transport and transcriptional regulation of oil production in plants. <b>2017</b> , 37, 641-655	33
744	Avocado fruit maturation and ripening: dynamics of aliphatic acetogenins and lipidomic profiles from mesocarp, idioblasts and seed. <b>2017</b> , 17, 159	21
743	Foodomics: LC and LC-MS-based omics strategies in food science and nutrition. <b>2017</b> , 267-299	5
742	Defining the Baseline and Oxidant Perturbed Lipidomic Profiles of <i>Daphnia magna</i> . <b>2017</b> , 7,	7
741	Mass Spectrometry in the Analysis of Fatty Acids and Derivatives. <b>2017</b> , 529-540	
740	Budding Yeast: An Ideal Backdrop for Lipid Biochemistry. <b>2016</b> , 4, 156	10
739	Metabolomic and Metagenomic Analysis of Two Crude Oil Production Pipelines Experiencing Differential Rates of Corrosion. <b>2017</b> , 8, 99	28
738	Untargeted Metabolomics Approach in Halophiles: Understanding the Biodeterioration Process of Building Materials. <b>2017</b> , 8, 2448	16
737	Neuronal Cholesterol Accumulation Induced by Cyp46a1 Down-Regulation in Mouse Hippocampus Disrupts Brain Lipid Homeostasis. <b>2017</b> , 10, 211	21
736	The ESRP1-GPR137 axis contributes to intestinal pathogenesis. <b>2017</b> , 6,	14
735	YMDB 2.0: a significantly expanded version of the yeast metabolome database. <b>2017</b> , 45, D440-D445	83
734	Lipid bilayer stress in obesity-linked inflammatory and metabolic disorders. <b>2018</b> , 153, 168-183	25
733	Modeling the effects of Irgarol 1051 on coral using lipidomic methodology for environmental monitoring and assessment. <b>2018</b> , 627, 571-578	2
732	UC2 search: using unique connectivity of uncharged compounds for metabolite annotation by database searching in mass spectrometry-based metabolomics. <b>2018</b> , 34, 698-700	8
731	Impact of hydroxyurea therapy on serum fatty acids of $\beta$ -thalassemia patients. <b>2018</b> , 14, 27	3

730	Systematic Analysis of Fatty Acids in Human Cells with a Multiplexed Isobaric Tag (TMT)-Based Method. <b>2018</b> , 17, 1606-1614	12
729	Paradigm shift - Metabolic transformation of docosahexaenoic and eicosapentaenoic acids to bioactives exemplify the promise of fatty acid drug discovery. <b>2018</b> , 36, 935-953	20
728	Lipid Cell Biology: A Focus on Lipids in Cell Division. <b>2018</b> , 87, 839-869	36
727	Discovery of Lipidome Alterations Following Traumatic Brain Injury via High-Resolution Metabolomics. <b>2018</b> , 17, 2131-2143	24
726	Percutaneous Closure of Left Atrial Appendage significantly affects Lipidome Metabolism. <b>2018</b> , 8, 5894	4
725	Lipidomics for translational skin research: A primer for the uninitiated. <b>2018</b> , 27, 721-728	16
724	LipidPedia: a comprehensive lipid knowledgebase. <b>2018</b> , 34, 2982-2987	16
723	Sequence-Based Analysis of Lipid-Related Metabolites in a Multiethnic Study. <b>2018</b> , 209, 607-616	4
722	Simultaneous non-polar and polar lipid analysis by on-line combination of HILIC, RP and high resolution MS. <b>2018</b> , 143, 1250-1258	26
721	Untargeted Metabolomics Reveal Lipid Alterations upon 2-Deoxyglucose Treatment in Human HaCaT Keratinocytes. <b>2018</b> , 17, 1146-1157	4
720	WikiPathways: a multifaceted pathway database bridging metabolomics to other omics research. <b>2018</b> , 46, D661-D667	421
719	Quantitative -omic data empowers bottom-up systems biology. <b>2018</b> , 51, 130-136	18
718	Lipid-mediated signals that regulate mitochondrial biology. <b>2018</b> , 293, 7517-7521	16
717	UV Lamp as a Facile Ozone Source for Structural Analysis of Unsaturated Lipids Via Electrospray Ionization-Mass Spectrometry. <b>2018</b> , 29, 481-489	12
716	Fluorescence activated cell-sorting principles and applications in microalgal biotechnology. <b>2018</b> , 30, 113-120	32
715	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. <b>2018</b> , 35, 900-910	24
714	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 283-297	6.3 20
713	High-Throughput Measurement of Lipid Turnover Rates Using Partial Metabolic Heavy Water Labeling. <b>2018</b> , 90, 6509-6518	6

7 <sup>12</sup>	Sphingolipidomics analysis of large clinical cohorts. Part 1: Technical notes and practical considerations. <b>2018</b> , 504, 596-601	7
7 <sup>11</sup>	Synthesis of multi-omic data and community metabolic models reveals insights into the role of hydrogen sulfide in colon cancer. <b>2018</b> , 149, 59-68	35
7 <sup>10</sup>	A Novel Lipidomics Workflow for Improved Human Plasma Identification and Quantification Using RPLC-MSn Methods and Isotope Dilution Strategies. <b>2018</b> , 90, 6494-6501	52
7 <sup>09</sup>	Expanding lipidome coverage using MS/MS-aided untargeted data-independent RP-UPLC-TOF-MS acquisition. <b>2018</b> , 10, 307-319	3
7 <sup>08</sup>	Exosomal lipids for classifying early and late stage non-small cell lung cancer. <b>2018</b> , 1037, 256-264	45
7 <sup>07</sup>	Systematic identification method for data analysis and phase equilibria modelling for lipids systems. <b>2018</b> , 121, 153-169	9
7 <sup>06</sup>	Mycotoxigenic potential of <i>Alternaria alternata</i> isolated from dragon fruit ( <i>Hylocereus undatus</i> Haw.) using UHPLC-Qtof-MS. <b>2018</b> , 141, 71-76	6
7 <sup>05</sup>	Plasma phospholipid profiling of a mouse model of anxiety disorder by hydrophilic interaction liquid chromatography coupled to high-resolution mass spectrometry. <b>2018</b> , 32, e4202	2
7 <sup>04</sup>	Reactive Oxygen Species and Mitochondrial Homeostasis as Regulators of Stem Cell Fate and Function. <b>2018</b> , 29, 149-168	58
7 <sup>03</sup>	Mass-spectrometry-based lipidomics. <b>2018</b> , 41, 351-372	71
7 <sup>02</sup>	Polymer Families and Their Extended Activities. <b>2018</b> , 89-137	
7 <sup>01</sup>	Analytical Challenges and Recent Advances in Mass Spectrometry Based Lipidomics. <b>2018</b> , 90, 374-397	159
7 <sup>00</sup>	The <i>Schistosoma mansoni</i> lipidome: Leads for immunomodulation. <b>2018</b> , 1037, 107-118	31
6 <sup>99</sup>	Absolute quantitative lipidomics reveals lipidome-wide alterations in aging brain. <b>2017</b> , 14, 5	38
6 <sup>98</sup>	Homospermidine Lipids: A Compound Class Specifically Formed during Fruiting Body Formation of <i>Myxococcus xanthus</i> DK1622. <b>2018</b> , 13, 273-280	7
6 <sup>97</sup>	Impact of consumption and cooking manners of vegetable oils on cardiovascular diseases- A critical review. <b>2018</b> , 71, 132-154	46
6 <sup>96</sup>	Comprehensive phospholipid and sphingomyelin profiling of different brain regions in mouse model of anxiety disorder using online two-dimensional (HILIC/RP)-LC/MS method. <b>2018</b> , 149, 308-317	21
6 <sup>95</sup>	Stable Isotope-Labeled Lipidomics to Unravel the Heterogeneous Development Lipotoxicity. <b>2018</b> , 23,	7

694	Modulating ROS to overcome multidrug resistance in cancer. <b>2018</b> , 41, 1-25	238
693	Tumor suppressor RARRES1- A novel regulator of fatty acid metabolism in epithelial cells. <b>2018</b> , 13, e0208756	11
692	Class I Phosphoinositide 3-Kinase /p110 $\alpha$ and /p110 $\beta$ Isoforms in Endometrial Cancer. <b>2018</b> , 19,	10
691	Role of dyslipidemia in preeclampsia-A review of lipidomic analysis of blood, placenta, syncytiotrophoblast microvesicles and umbilical cord artery from women with preeclampsia. <b>2018</b> , 139, 19-23	21
690	Chemistry of Human Breast Milk-A Comprehensive Review of the Composition and Role of Milk Metabolites in Child Development. <b>2018</b> , 66, 11881-11896	54
689	Glycerophospholipids and sphingolipids correlate with poor prognostic genotypes of human papillomavirus in cervical cancer: global lipidomics analysis. <b>2018</b> , 10, 4970-4977	6
688	Opportunities for Lipid-Based Probes in the Field of Immunology. <b>2019</b> , 420, 283-319	1
687	Towards measuring growth rates of pathogens during infections by D O-labeling lipidomics. <b>2018</b> , 32, 2129-2140	7
686	Comprehensive and Reproducible Untargeted Lipidomic Workflow Using LC-QTOF Validated for Human Plasma Analysis. <b>2018</b> , 17, 3657-3670	13
685	A Cybernetic Approach to Modeling Lipid Metabolism in Mammalian Cells. <b>2018</b> , 6, 126	3
684	Modeling Meets Metabolomics-The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism. <b>2018</b> , 5, 96	23
683	Solid lipid nanoparticles and nanostructured lipid carriers: A review emphasizing on particle structure and drug release. <b>2018</b> , 133, 285-308	195
682	Free fatty acid profiling in marine algae extract by LC-MS/MS and isolation as well as quantification of the $\Omega$ fatty acid hexadeca-4,7,10,13-tetraenoic acid. <b>2018</b> , 41, 4286-4295	10
681	Lipidomic Profiles of the Heart and Circulation in Response to Exercise versus Cardiac Pathology: A Resource of Potential Biomarkers and Drug Targets. <b>2018</b> , 24, 2757-2772	28
680	Serum Lipidomics Profiling to Identify Biomarkers for Non-Small Cell Lung Cancer. <b>2018</b> , 2018, 5276240	20
679	Lysophospholipid Signaling in the Epithelial Ovarian Cancer Tumor Microenvironment. <b>2018</b> , 10,	29
678	Lipidomic differentiation of Graves' ophthalmopathy in plasma and urine from Graves' disease patients. <b>2018</b> , 410, 7121-7133	6
677	The State of Data in Healthcare: Path Towards Standardization.. <b>2018</b> , 2, 248-271	9

676	Exploring Molecular-Biomembrane Interactions with Surface Plasmon Resonance and Dual Polarization Interferometry Technology: Expanding the Spotlight onto Biomembrane Structure. <b>2018</b> , 118, 5392-5487	40
675	Semi-targeted Lipidomics of Plant Acyl Lipids Using UPLC-HR-MS in Combination with a Data-Independent Acquisition Mode. <b>2018</b> , 1778, 137-155	4
674	Extraction of Plant Lipids for LC-MS-Based Untargeted Plant Lipidomics. <b>2018</b> , 1778, 125-135	7
673	Preface and Ganglioside Nomenclature. <b>2018</b> , 156, xvii-xxi	0
672	Proteomics and lipidomics in the human brain. <b>2018</b> , 150, 285-302	5
671	<i>Karenia brevis</i> allelopathy compromises the lipidome, membrane integrity, and photosynthesis of competitors. <b>2018</b> , 8, 9572	24
670	A metabolomics research based on UHPLC-ESI-Q-TOF-MS coupled with metabolic pathway analysis: Treatment effects of stir-frying <i>Xanthii Fructus</i> on allergic rhinitis in mice model. <b>2018</b> , 32, e4352	4
669	Integration of Metabolomic Data From Multiple Analytical Platforms: Towards Extensive Coverage of the Metabolome. <b>2018</b> , 477-504	
668	Optic Nerve Regeneration After Crush Remodels the Injury Site: Molecular Insights From Imaging Mass Spectrometry. <b>2018</b> , 59, 212-222	11
667	Dual Emitter Nano-Electrospray Ionization Coupled to Differential Ion Mobility Spectrometry-Mass Spectrometry for Shotgun Lipidomics. <b>2018</b> , 90, 9117-9124	9
666	Synthetic Strategies for Modified Glycosphingolipids and Their Design as Probes. <b>2018</b> , 118, 8188-8241	20
665	An untargeted lipidomic strategy combining comprehensive two-dimensional liquid chromatography and chemometric analysis. <b>2018</b> , 1568, 80-90	25
664	Importance of Hydrophilic Groups on Modulating the Structural, Mechanical, and Interfacial Properties of Bilayers: A Comparative Molecular Dynamics Study of Phosphatidylcholine and Ion Pair Amphiphile Membranes. <b>2018</b> , 19,	2
663	Study of the Serum Metabolomic Profile in Nonalcoholic Fatty Liver Disease: Research and Clinical Perspectives. <b>2018</b> , 8,	23
662	Lipids in Ginseng ( <i>Panax ginseng</i> ) and Their Analysis. <b>2018</b> , 24, 1	3
661	Unbiased Lipidomic Profiling of Triple-Negative Breast Cancer Tissues Reveals the Association of Sphingomyelin Levels with Patient Disease-Free Survival. <b>2018</b> , 8,	17
660	An LC-MS-based lipidomics pre-processing framework underpins rapid hypothesis generation towards CHO systems biotechnology. <b>2018</b> , 14, 98	5
659	Separation and identification of phospholipids by hydrophilic interaction liquid chromatography coupled to tandem high resolution mass spectrometry with focus on isomeric phosphatidylglycerol and bis(monoacylglycerol)phosphate. <b>2018</b> , 1565, 105-113	18

658	Identification of novel lipid modifications and intermembrane dynamics in using high-resolution mass spectrometry. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 1190-1204	6.3	17
657	Lipidomics unveils the complexity of the lipidome in metabolic diseases. <b>2018</b> , 7, 4		76
656	Lipidome Evolution in Mammalian Tissues. <b>2018</b> , 35, 1947-1957		9
655	A novel sample preparation strategy for shotgun lipidomics of phospholipids employing multilamellar vesicles. <b>2018</b> , 410, 4253-4258		7
654	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 2001-2017	6.3	146
653	Targeting lipid mediators in cancer biology. <b>2018</b> , 37, 557-572		35
652	Characterization and annotation of oxidized glycerophosphocholines for non-targeted metabolomics with LC-QTOF-MS data. <b>2018</b> , 1037, 358-368		11
651	Lipid metabolism in inflammation-related diseases. <b>2018</b> , 143, 4526-4536		61
650	Terminology of bioanalytical methods (IUPAC Recommendations 2018). <b>2018</b> , 90, 1121-1198		11
649	Effects of atopic dermatitis and gender on sebum lipid mediator and fatty acid profiles. <b>2018</b> , 134, 7-16		9
648	Metabolomics and Lipidomics of Ischemic Stroke. <b>2018</b> , 85, 31-69		39
647	Dynamic remodeling of lipids coincides with dengue virus replication in the midgut of <i>Aedes aegypti</i> mosquitoes. <b>2018</b> , 14, e1006853		59
646	Discrimination of isobaric and isomeric lipids in complex mixtures by combining ultra-high pressure liquid chromatography with collision and ozone-induced dissociation. <b>2018</b> , 431, 27-36		11
645	Computational Lipidomics. <b>2019</b> , 894-899		
644	Metabolic Profiling. <b>2019</b> , 426-437		
643	Lipid and Lipid Raft Alteration in Aging and Neurodegenerative Diseases: A Window for the Development of New Biomarkers. <b>2019</b> , 20,		58
642	The role of pro-inflammatory cytokines in lipid metabolism of metabolic diseases. <b>2019</b> , 38, 249-266		10
641	Deep Lipidomics and Molecular Imaging of Unsaturated Lipid Isomers: A Universal Strategy Initiated by mCPBA Epoxidation. <b>2019</b> , 91, 11905-11915		45

640	Massenspektrometrische Analyse von Phospholipiden aus Liposomen. <b>2019</b> , 25, 167-169	
639	Cholesterol Acceptors Regulate the Lipidome of Macrophage Foam Cells. <b>2019</b> , 20,	9
638	Targeting Cellular Metabolism Modulates Head and Neck Oncogenesis. <b>2019</b> , 20,	14
637	Polar Lipids in Starch-Rich Commodities to be Analyzed with LC-MS-Based Metabolomics-Optimization of Ionization Parameters and High-Throughput Extraction Protocols. <b>2019</b> , 9,	3
636	Lipid Coverage in Nanospray Desorption Electrospray Ionization Mass Spectrometry Imaging of Mouse Lung Tissues. <b>2019</b> , 91, 11629-11635	27
635	Transethosomes and Nanoethosomes: Recent Approach on Transdermal Drug Delivery System. <b>2019</b> ,	3
634	Stoichiometric gene-to-reaction associations enhance model-driven analysis performance: Metabolic response to chronic exposure to Aldrin in prostate cancer. <b>2019</b> , 20, 652	6
633	Transcriptome sequencing of a toxic dinoflagellate, <i>Karenia mikimotoi</i> subjected to stress from solar ultraviolet radiation. <b>2019</b> , 88, 101640	6
632	Oxysterols: An expanding family of structurally diversified bioactive steroids. <b>2019</b> , 194, 105443	3
631	Instrument response of phosphatidylglycerol lipids with varying fatty acyl chain length in nano-ESI shotgun experiments. <b>2019</b> , 223, 104782	4
630	Application of Ion Mobility Mass Spectrometry in Lipidomics. <b>2019</b> , 1140, 317-326	5
629	Lipid remodeling regulator 1 (LRL1) is differently involved in the phosphorus-depletion response from PSR1 in <i>Chlamydomonas reinhardtii</i> . <b>2019</b> , 100, 610-626	15
628	Lipid Metabolism in Plants Under High Temperature. <b>2019</b> , 311-389	
627	The use of dimethyl ether as an organic extraction solvent for biomass applications in future biorefineries: A user-oriented review. <b>2019</b> , 254, 115703	22
626	High-Performance Molecular Imaging with MALDI Trapped Ion-Mobility Time-of-Flight (timsTOF) Mass Spectrometry. <b>2019</b> , 91, 14552-14560	67
625	Lipidomics: Current state of the art in a fast moving field. <b>2020</b> , 12, e1466	35
624	LXR $\alpha$ controls glioblastoma cell growth, lipid balance, and immune modulation independently of ABCA1. <b>2019</b> , 9, 15458	11
623	APOE Genotype Differentially Modulates Plasma Lipids in Healthy Older Individuals, with Relevance to Brain Health. <b>2019</b> , 72, 703-716	8

- 622 Analytical challenges of shotgun lipidomics at different resolution of measurements. **2019**, 121, 115697-115697
- 621 Human Blood Plasma Lipidome: Opportunities and Prospects of Its Analysis in Medical Chemistry. **2019**, 45, 335-346 4
- 620 Foodomics assessed by Fourier transform mass spectrometry. **2019**, 651-677 4
- 619 Evaluation of Direct from Sample Metabolomics of Human Feces Using Rapid Evaporative Ionization Mass Spectrometry. **2019**, 91, 13448-13457 14
- 618 Mass-spectrometric multi-omics linked to function [State-of-the-art investigations of mitochondria in systems medicine. **2019**, 119, 115635 6
- 617 Multi-functional Lipid-Based Polymer Composites for In Vivo Imaging, Tissue Healing, Cell Rejuvenation and Theranostic Applications. **2019**, 85-109 1
- 616 The Effect of Anticoagulants, Temperature, and Time on the Human Plasma Metabolome and Lipidome from Healthy Donors as Determined by Liquid Chromatography-Mass Spectrometry. **2019**, 9, 20
- 615 Fat, fight, and beyond: The multiple roles of lipid droplets in infections and inflammation. **2019**, 106, 563-580 27
- 614 Evaluation of air oxidized PAPC: A multi laboratory study by LC-MS/MS. **2019**, 144, 156-166 12
- 613 Metabolome signature of autism in the human prefrontal cortex. **2019**, 2, 234 26
- 612 Improved quantitation of lipid classes using supercritical fluid chromatography with a charged aerosol detector. *Journal of Lipid Research*, **2019**, 60, 1465-1474 6.3 10
- 611 LION/web: a web-based ontology enrichment tool for lipidomic data analysis. **2019**, 8, 51
- 610 Applications of Innovative Lipidomic Methods for Blood Lipid Biomarkers. **2019**, 68, 503-510 5
- 609 Characterization of Bulk Phosphatidylcholine Compositions in Human Plasma Using Side-Chain Resolving Lipidomics. **2019**, 9, 8
- 608 LC-MS/MS-Based Metabolomics for Cell Cultures. **2019**, 1994, 119-130 6
- 607 A Comprehensive UHPLC Ion Mobility Quadrupole Time-of-Flight Method for Profiling and Quantification of Eicosanoids, Other Oxylipins, and Fatty Acids. **2019**, 91, 8025-8035 22
- 606 A comparative analysis of egg provisioning using mass spectrometry during rapid life history evolution in sea urchins. **2019**, 21, 188-204 13
- 605 Deciphering the evolutionary history of microbial cyclic triterpenoids. **2019**, 140, 270-278 4



604	Reconstructed Skin Models Revealed Unexpected Differences in Epidermal African and Caucasian Skin. <b>2019</b> , 9, 7456	10
603	CFM-ID 3.0: Significantly Improved ESI-MS/MS Prediction and Compound Identification. <b>2019</b> , 9,	126
602	Metabolomics-Based Approach for the Discrimination of Potato Varieties ( <i>Solanum tuberosum</i> ) using UPLC-IMS-QToF. <b>2019</b> , 67, 5700-5709	14
601	Computational solutions in redox lipidomics - Current strategies and future perspectives. <b>2019</b> , 144, 110-123	20
600	Oncolipidomics: Mass spectrometric quantitation of lipids in cancer research. <b>2019</b> , 120, 115480	26
599	Optic Nerve Lipidomics Reveal Impaired Glucosylsphingosine Lipids Pathway in Glaucoma. <b>2019</b> , 60, 1789-1798 <sub>14</sub>	
598	Plasma lipidome variation during the second half of the human lifespan is associated with age and sex but minimally with BMI. <b>2019</b> , 14, e0214141	22
597	The emerging role of ion mobility-mass spectrometry in lipidomics to facilitate lipid separation and identification. <b>2019</b> , 116, 332-339	31
596	Detection and Structural Characterization of Ether Glycerophosphoethanolamine From Cortical Lysosomes Following Traumatic Brain Injury Using UPLC-HDMS. <b>2019</b> , 19, e1800297	6
595	Comparative label-free lipidomic analysis of <i>Mycobacterium tuberculosis</i> during dormancy and reactivation. <b>2019</b> , 9, 3660	16
594	Expanding lipidomics coverage: effective ultra performance liquid chromatography-high resolution mass spectrometer methods for detection and quantitation of cardiolipin, phosphatidylglycerol, and lysyl-phosphatidylglycerol. <b>2019</b> , 15, 53	10
593	Metabolomic Insights into Human Arboviral Infections: Dengue, Chikungunya, and Zika Viruses. <b>2019</b> , 11,	23
592	Validated comprehensive metabolomics and lipidomics analysis of colon tissue and cell lines. <b>2019</b> , 1066, 79-92	17
591	Utilisation of Ambient Laser Desorption Ionisation Mass Spectrometry (ALDI-MS) Improves Lipid-Based Microbial Species Level Identification. <b>2019</b> , 9, 3006	12
590	Polyphosphoinositides in the nucleus: Roadmap of their effectors and mechanisms of interaction. <b>2019</b> , 72, 7-21	14
589	Metabolic signature of extracellular vesicles depends on the cell culture conditions. <b>2019</b> , 8, 1596669	60
588	Metabolomics in early detection and prognosis of acute coronary syndrome. <b>2019</b> , 495, 43-53	20
587	Repeated administration of the NSAID meloxicam alters the plasma and urine lipidome. <b>2019</b> , 9, 4303	5

586	An update on lipid oxidation and inflammation in cardiovascular diseases. <b>2019</b> , 144, 266-278	96
585	Mass spectrometry-A versatile tool for characterising the lipid environment of membrane protein assemblies. <b>2019</b> , 221, 145-157	16
584	Metabolic In Silico Network Expansions to Predict and Exploit Enzyme Promiscuity. <b>2019</b> , 1927, 11-21	1
583	Lipidomic Analysis of Cancer Cell and Tumor Tissues. <b>2019</b> , 1928, 175-204	10
582	Lipophilic Allergens, Different Modes of Allergen-Lipid Interaction and Their Impact on Asthma and Allergy. <b>2019</b> , 10, 122	21
581	Discovery of trehalose phospholipids reveals functional convergence with mycobacteria. <b>2019</b> , 216, 757-771	9
580	Identification of bioactive metabolites using activity metabolomics. <b>2019</b> , 20, 353-367	258
579	Ion mobility conformational lipid atlas for high confidence lipidomics. <b>2019</b> , 10, 985	76
578	Emerging Diversity in Lipid-Protein Interactions. <b>2019</b> , 119, 5775-5848	163
577	The Effects of Meldonium on the Renal Acute Ischemia/Reperfusion Injury in Rats. <b>2019</b> , 20,	7
576	Shaping of Innate Immune Response by Fatty Acid Metabolite Palmitate. <b>2019</b> , 8,	12
575	Enzyme annotation in UniProtKB using Rhea. <b>2020</b> , 36, 1896-1901	32
574	Analytical Strategies in Lipidomics for Discovery of Functional Biomarkers from Human Saliva. <b>2019</b> , 2019, 6741518	11
573	The Fusion of Lipid and DNA Nanotechnology. <b>2019</b> , 10,	5
572	The Influence of Dietary Fatty Acids on Immune Responses. <b>2019</b> , 11,	81
571	High-throughput untargeted metabolomics and chemometrics reveals pharmacological action and molecular mechanism of chuanxiong by ultra performance liquid chromatography combined with quadrupole-time-of-flight-mass spectrometry.. <b>2019</b> , 9, 39025-39036	2
570	Using lipidomic methodology to characterize coral response to herbicide contamination and develop an early biomonitoring model. <b>2019</b> , 648, 1275-1283	12
569	Comprehensive MS/MS profiling by UHPLC-ESI-QTOF-MS/MS using SWATH data-independent acquisition for the study of platelet lipidomes in coronary artery disease. <b>2019</b> , 1046, 1-15	30

568	Lipidomic profiling reveals early-stage metabolic dysfunction in overweight or obese humans. <b>2019</b> , 1864, 335-343	19
567	Inhibition of early response genes prevents changes in global joint metabolomic profiles in mouse post-traumatic osteoarthritis. <b>2019</b> , 27, 504-512	9
566	High-Throughput Plasma Lipidomics: Detailed Mapping of the Associations with Cardiometabolic Risk Factors. <b>2019</b> , 26, 71-84.e4	108
565	Multidimensional liquid chromatography-mass spectrometry for metabolomic and lipidomic analyses. <b>2019</b> , 120, 115302	33
564	Advances of supercritical fluid chromatography in lipid profiling. <b>2019</b> , 9, 1-8	23
563	Liquid Chromatography Techniques in Lipidomics Research. <b>2019</b> , 82, 77-100	22
562	Directed Non-targeted Mass Spectrometry and Chemical Networking for Discovery of Eicosanoids and Related Oxylipins. <b>2019</b> , 26, 433-442.e4	35
561	In-depth structural characterization of phospholipids by pairing solution photochemical reaction with charge inversion ion/ion chemistry. <b>2019</b> , 411, 4739-4749	18
560	LIPID MAPS: Serving the next generation of lipid researchers with tools, resources, data, and training. <b>2019</b> , 12,	45
559	Yeast and human P4-ATPases transport glycosphingolipids using conserved structural motifs. <b>2019</b> , 294, 1794-1806	38
558	The Role of Lipids in Parkinson's Disease. <b>2019</b> , 8,	80
557	Analytical challenges in human plasma lipidomics: A winding path towards the truth. <b>2019</b> , 120, 115277	11
556	Does lipidomic serum analysis support the assessment of digestive efficiency in chickens?. <b>2019</b> , 98, 1425-14314	
555	Intricate role of mitochondrial lipid in mitophagy and mitochondrial apoptosis: its implication in cancer therapeutics. <b>2019</b> , 76, 1641-1652	46
554	LipidMS: An R Package for Lipid Annotation in Untargeted Liquid Chromatography-Data Independent Acquisition-Mass Spectrometry Lipidomics. <b>2019</b> , 91, 836-845	19
553	Updates in Rhea: SPARQLing biochemical reaction data. <b>2019</b> , 47, D596-D600	32
552	Impact of consumption of repeatedly heated cooking oils on the incidence of various cancers- A critical review. <b>2019</b> , 59, 488-505	22
551	The integration of LC-MS and NMR for the analysis of low molecular weight trace analytes in complex matrices. <b>2020</b> , 39, 35-54	31

550	Effects of high fat diet on lipid accumulation, oxidative stress and autophagy in the liver of Chinese softshell turtle ( <i>Pelodiscus sinensis</i> ). <b>2020</b> , 240, 110331	9
549	Assessment of gut microbiota fecal metabolites by chromatographic targeted approaches. <b>2020</b> , 177, 112867	12
548	Parallel enrichment of polyphenols and phytosterols from Pinot noir grape seeds with molecularly imprinted polymers and analysis by capillary high-performance liquid chromatography electrospray ionisation tandem mass spectrometry. <b>2020</b> , 208, 120397	11
547	Ultrahigh-Performance capillary liquid chromatography-mass spectrometry at 35 kpsi for separation of lipids. <b>2020</b> , 1611, 460575	12
546	Could squalene be an added value to use olive by-products?. <b>2020</b> , 100, 915-925	12
545	Anabolic androgenic steroids exert a selective remodeling of the plasma lipidome that mirrors the decrease of the de novo lipogenesis in the liver. <b>2020</b> , 16, 12	6
544	Styrene maleic-acid lipid particles (SMALPs) into detergent or amphipols: An exchange protocol for membrane protein characterisation. <b>2020</b> , 1862, 183192	10
543	Carotenoids and fatty liver disease: Current knowledge and research gaps. <b>2020</b> , 1865, 158597	14
542	Demyelinating polyneuropathy in goats lacking prion protein. <b>2020</b> , 34, 2359-2375	15
541	Determination of Optimal Electrospray Parameters for Lipidomics in Infrared-Matrix-Assisted Laser Desorption Electrospray Ionization Mass Spectrometry Imaging. <b>2020</b> , 31, 319-325	8
540	A novel online two-dimensional supercritical fluid chromatography/reversed phase liquid chromatography-mass spectrometry method for lipid profiling. <b>2020</b> , 412, 2225-2235	19
539	Development of a combined strategy for accurate lipid structural identification and quantification in ion-mobility mass spectrometry based untargeted lipidomics. <b>2020</b> , 1136, 115-124	14
538	Integrating metabolomics and targeted gene expression to uncover potential biomarkers of fungal/oomycetes-associated disease susceptibility in grapevine. <b>2020</b> , 10, 15688	15
537	Shedding light on isomeric FAHFA lipid structures using 213 nm ultraviolet photodissociation mass spectrometry. <b>2020</b> , 26, 311-323	7
536	High-coverage plasma lipidomics reveals novel sex-specific lipidomic fingerprints of age and BMI: Evidence from two large population cohort studies. <b>2020</b> , 18, e3000870	24
535	Comparing Extraction Methods for Biomarker Steroid Characterisation from Soil and Slurry. <b>2020</b> , 231, 524	3
534	Comprehensive Survey on Nanobiomaterials for Bone Tissue Engineering Applications. <b>2020</b> , 10,	17
533	Reliability of LipidSearch software identification and its application to assess the effect of dry salting on the long-chain free fatty acid profile of tilapia muscles. <b>2020</b> , 138, 109791	5

532	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 1539-1555	6.3	119
531	Enhancing detection and characterization of lipids using charge manipulation in electrospray ionization-tandem mass spectrometry. <b>2020</b> , 232, 104970		3
530	High day and night temperatures distinctively disrupt fatty acid and jasmonic acid metabolism, inducing male sterility in cotton. <b>2020</b> , 71, 6128-6141		5
529	The Biosynthesis of Enzymatically Oxidized Lipids. <b>2020</b> , 11, 591819		25
528	RefMet: a reference nomenclature for metabolomics. <b>2020</b> , 17, 1173-1174		14
527	Single-Step Extraction Coupled with Targeted HILIC-MS/MS Approach for Comprehensive Analysis of Human Plasma Lipidome and Polar Metabolome. <b>2020</b> , 10,		9
526	Cybernetic modeling of biological processes in mammalian systems. <b>2020</b> , 30, 120-127		2
525	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. <b>2020</b> , 11, 5698		23
524	Not So Slim Anymore-Evidence for the Role of SUMO in the Regulation of Lipid Metabolism. <b>2020</b> , 10,		5
523	Intracellular Parasites and , Unveiled in Single Host Cells Using AP-SMALDI MS Imaging. <b>2020</b> , 31, 1815-1824		4
522	Lipids and cancer: Emerging roles in pathogenesis, diagnosis and therapeutic intervention. <b>2020</b> , 159, 245-293		96
521	Temporal transcriptome analysis in female scallop <i>Chlamys farreri</i> : First molecular insights into the disturbing mechanism on lipid metabolism of reproductive-stage dependence under benzo[a]pyrene exposure. <b>2020</b> , 746, 142032		3
520	The Function and Mechanism of Lipid Molecules and Their Roles in The Diagnosis and Prognosis of Breast Cancer. <b>2020</b> , 25,		10
519	Laser-assisted rapid evaporative ionisation mass spectrometry (LA-REIMS) as a metabolomics platform in cervical cancer screening. <b>2020</b> , 60, 103017		10
518	Characteristics and origin of intact polar lipids in soil organic matter. <b>2020</b> , 151, 108045		6
517	Structural-based connectivity and omic phenotype evaluations (SCOPE): a cheminformatics toolbox for investigating lipidomic changes in complex systems. <b>2020</b> , 145, 7197-7209		3
516	Development of a NanoLC-MS workflow for high-sensitivity global lipidomic analysis. <b>2020</b> , 1139, 88-99		6
515	LiPydomics: A Python Package for Comprehensive Prediction of Lipid Collision Cross Sections and Retention Times and Analysis of Ion Mobility-Mass Spectrometry-Based Lipidomics Data. <b>2020</b> , 92, 14967-14975 <sup>11</sup>		11

514	A large-scale genome-lipid association map guides lipid identification. <b>2020</b> , 2, 1149-1162	14
513	Cell-Type- and Brain-Region-Resolved Mouse Brain Lipidome. <b>2020</b> , 32, 108132	42
512	Plant-Derived Nutraceuticals and Immune System Modulation: An Evidence-Based Overview. <b>2020</b> , 8,	17
511	Metabolic Alterations in Premutation Carriers. <b>2020</b> , 7, 571092	2
510	Explorative Combined Lipid and Transcriptomic Profiling of Substantia Nigra and Putamen in Parkinson's Disease. <b>2020</b> , 9,	9
509	Ion mobility collision cross-section atlas for known and unknown metabolite annotation in untargeted metabolomics. <b>2020</b> , 11, 4334	68
508	Differentiation and Quantification of Diastereomeric Pairs of Glycosphingolipids Using Gas-Phase Ion Chemistry. <b>2020</b> , 92, 13387-13395	9
507	Introduction: Druggable Lipid Signaling Pathways. <b>2020</b> , 1274, 1-4	0
506	Varying Levels of Medium-Chain Fatty Acids Affect Triacylglycerol Composition and Crystallization Behavior of African Elephant Milk Fat. <b>2020</b> , 122, 2000119	2
505	Resolving the Complexity of Spatial Lipidomics Using MALDI TIMS Imaging Mass Spectrometry. <b>2020</b> , 92, 13290-13297	21
504	Maturation of Monocyte-Derived DCs Leads to Increased Cellular Stiffness, Higher Membrane Fluidity, and Changed Lipid Composition. <b>2020</b> , 11, 590121	7
503	Steps Toward Minimal Reporting Standards for Lipidomics Mass Spectrometry in Biomedical Research Publications. <b>2020</b> , 13, e003019	4
502	Cross-talk between lipid homeostasis and endoplasmic reticulum stress in neurodegeneration: Insights for HIV-1 associated neurocognitive disorders (HAND). <b>2020</b> , 141, 104880	0
501	Nuclear Hormone Receptors and Their Ligands: Metabolites in Control of Transcription. <b>2020</b> , 9,	6
500	Lipidomic Profiling for Serum Biomarkers in Mice Exposed to Ionizing Radiation. <b>2020</b> , 18, 1559325820914209	2
499	Investigation of Early Death-Induced Changes in Rat Brain by Solid Phase Microextraction via Untargeted High Resolution Mass Spectrometry: versus Postmortem Comparative Study. <b>2020</b> , 11, 1827-1840	9
498	βOxidation and autophagy are critical energy providers during acute glucose depletion in S. <b>2020</b> , 117, 12239-12248	11
497	HILIC-ESI-FTMS with All Ion Fragmentation (AIF) Scans as a Tool for Fast Lipidome Investigations. <b>2020</b> , 25,	12

496	Functional diversity in a lipidome. <b>2020</b> , 117, 11191-11193	5
495	Role of lipid mediators in diabetic wound healing. <b>2020</b> , 181-195	0
494	Oxidized lipids in the metabolic profiling of neuroendocrine tumors - Analytical challenges and biological implications. <b>2020</b> , 1625, 461233	4
493	Short-term inhibition of autophagy benefits pancreatic $\beta$ cells by augmenting ether lipids and peroxisomal function, and by countering depletion of n-3 polyunsaturated fatty acids after fat-feeding. <b>2020</b> , 40, 101023	7
492	Comprehensive analysis of metabolic alterations in Schizochytrium sp. strains with different DHA content. <b>2020</b> , 1160, 122193	4
491	Global Plasma Metabolomics to Identify Potential Biomarkers of Blood Pressure Progression. <b>2020</b> , 40, e227-e237	11
490	"Lipidomics": Mass spectrometric and chemometric analyses of lipids. <b>2020</b> , 159, 294-307	18
489	A lipidome atlas in MS-DIAL 4. <b>2020</b> , 38, 1159-1163	141
488	Lipidomics: An omics discipline with a key role in nutrition. <b>2020</b> , 219, 121197	7
487	Exploring the Lipidome: Current Lipid Extraction Techniques for Mass Spectrometry Analysis. <b>2020</b> , 10,	17
486	Toll-Like Receptors Induce Signal-Specific Reprogramming of the Macrophage Lipidome. <b>2020</b> , 32, 128-143.e5	30
485	Interplay Between Lipid Metabolism and Autophagy. <b>2020</b> , 8, 431	45
484	The Influence of Different Forms of Silver on Selected Pathogenic Bacteria. <b>2020</b> , 13,	2
483	Strategies to reduce lipid consumption. <b>2020</b> , 91-102	
482	Metabolome Analysis Identified Okaramines in the Soybean Rhizosphere as a Legacy of Hairy Vetch. <b>2020</b> , 11, 114	2
481	Recent applications of mass spectrometry in bacterial lipidomics. <b>2020</b> , 412, 5935-5943	10
480	Crosstalk Between the Gut Microbiome and Bioactive Lipids: Therapeutic Targets in Cognitive Frailty. <b>2020</b> , 7, 17	12
479	Lipid Diversity in Cells and Tissue Using Imaging SIMS. <b>2020</b> , 13, 249-271	16

478	Injectable Lipid-Based Depot Formulations: Where Do We Stand?. <b>2020</b> , 12,	18
477	The impact of antibacterial peptides on bacterial lipid membranes depends on stage of growth. <b>2021</b> ,	4
476	Characterization and comparison of lipids in bovine colostrum and mature milk based on UHPLC-QTOF-MS lipidomics. <b>2020</b> , 136, 109490	16
475	The hepatic lipidome: From basic science to clinical translation. <b>2020</b> , 159, 180-197	15
474	Differential annotation of converted metabolites (DAC-Met): Exploration of Maoto (Ma-huang-tang)-derived metabolites in plasma using high-resolution mass spectrometry. <b>2020</b> , 16, 63	4
473	Cardiolipin is required for membrane docking of mitochondrial ribosomes and protein synthesis. <b>2020</b> , 133,	12
472	Blood Plasma Lipidome: Opportunities in the Early Diagnostics of Preeclampsia. <b>2020</b> , 46, 280-286	1
471	Goslin: A Grammar of Succinct Lipid Nomenclature. <b>2020</b> , 92, 10957-10960	6
470	Recent progresses of derivatization approaches in the targeted lipidomics analysis by mass spectrometry. <b>2020</b> , 43, 1838-1846	28
469	Energy-stress-mediated AMPK activation inhibits ferroptosis. <b>2020</b> , 22, 225-234	195
468	Metabolic alterations in the erythrocyte during blood-stage development of the malaria parasite. <b>2020</b> , 19, 94	12
467	Perspectives on important considerations in designing nanoparticles for oral delivery applications in food. <b>2020</b> , 2, 100031	15
466	Untargeted lipidomic analysis of human hippocampus for temporal lobe epilepsy with hippocampal sclerosis. <b>2020</b> , 161, 106299	4
465	redLips: a comprehensive mechanistic model of the lipid metabolic network of yeast. <b>2020</b> , 20,	4
464	Diversified bet-hedging explains the batch effect in New Zealand snapper <i>Chrysophrys auratus</i> . <b>2020</b> , 522, 735135	
463	Comprehensive Evaluation of a Quantitative Shotgun Lipidomics Platform for Mammalian Sample Analysis on a High-Resolution Mass Spectrometer. <b>2020</b> , 31, 894-907	4
462	Evaluation of ultraviolet photodissociation tandem mass spectrometry for the structural assignment of unsaturated fatty acid double bond positional isomers. <b>2020</b> , 412, 2339-2351	18
461	Lipidomic characterization of exosomes isolated from human plasma using various mass spectrometry techniques. <b>2020</b> , 1865, 158634	16



460	Fatty acid metabolism in the progression and resolution of CNS disorders. <b>2020</b> , 159, 198-213	30
459	Shared reference materials harmonize lipidomics across MS-based detection platforms and laboratories. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 105-115	6.3 33
458	Methods of the Analysis of Oxylipins in Biological Samples. <b>2020</b> , 25,	11
457	Improving lipid mapping in Genome Scale Metabolic Networks using ontologies. <b>2020</b> , 16, 44	11
456	Omega-3 fatty acids and mental health. <b>2020</b> , 4, 18-30	30
455	In memory of Michael J. O. Wakelam (1955-2020): a pioneer in lipid signalling and lipidomics. <b>2020</b> , 16, 1	1
454	Annexin A1 Regulates NLRP3 Inflammasome Activation and Modifies Lipid Release Profile in Isolated Peritoneal Macrophages. <b>2020</b> , 9,	13
453	Lipids in the Treatment of Neurodegenerative Diseases. <b>2020</b> , 1-17	2
452	Lipidomics reveals associations between rice quality traits. <b>2020</b> , 16, 54	9
451	Fats Love Plate Relationships: A Molecular Dynamics Simulation and Hands-On Experiment Outreach Activity to Introduce the Amphiphilic Nature and Biological Functions of Lipids to Young Students and the General Public. <b>2020</b> , 97, 1360-1367	2
450	Lipidomic study of cell lines reveals differences between breast cancer subtypes. <b>2020</b> , 15, e0231289	13
449	Mutation Leads the Misregulation of Anther Cuticle Formation by Disrupting Lipid Metabolism in Maize. <b>2020</b> , 21,	2
448	Use of Lipidomics for Food Quality Assurance and Authentication. <b>2021</b> , 44-61	0
447	Information-rich high-throughput cellular assays using acoustic mist ionisation mass spectrometry. <b>2021</b> , 146, 315-321	5
446	Microglia and lipids: how metabolism controls brain innate immunity. <b>2021</b> , 112, 137-144	19
445	Investigation on green tea lipids and their metabolic variations during manufacturing by nontargeted lipidomics. <b>2021</b> , 339, 128114	19
444	Lipidome Alterations Induced by Cystic Fibrosis, CFTR Mutation, and Lung Function. <b>2021</b> , 20, 549-564	6
443	ALDH4A1 is an atherosclerosis auto-antigen targeted by protective antibodies. <b>2021</b> , 589, 287-292	24

442	Systems biology approaches to study lipidomes in health and disease. <b>2021</b> , 1866, 158857	13
441	High-coverage lipidomics for functional lipid and pathway analyses. <b>2021</b> , 1147, 199-210	16
440	Mini review: Lipids in Peripheral Nerve Disorders. <b>2021</b> , 740, 135455	3
439	Metabolomic Changes after Coffee Consumption: New Paths on the Block. <b>2021</b> , 65, e2000875	10
438	An international classification of inherited metabolic disorders (ICIMD). <b>2021</b> , 44, 164-177	32
437	Lipid alterations in human frontal cortex in ALS-FTLD-TDP43 proteinopathy spectrum are partly related to peroxisome impairment. <b>2021</b> , 47, 544-563	7
436	Gut-Brain axis in Parkinson's disease etiology: The role of lipopolysaccharide. <b>2021</b> , 235, 105029	10
435	Next-generation derivatization reagents optimized for enhanced product ion formation in photodissociation-mass spectrometry of fatty acids. <b>2021</b> , 146, 156-169	10
434	Dual-polarity SALDI FT-ICR MS imaging and Kendrick mass defect data filtering for lipid analysis. <b>2021</b> , 413, 2821-2830	4
433	Chemically synthesized Gb glycosphingolipids: tools to access their function in lipid membranes. <b>2021</b> , 50, 109-126	3
432	An apoplastic fluid extraction method for the characterization of grapevine leaves proteome and metabolome from a single sample. <b>2021</b> , 171, 343-357	5
431	Direct liquid extraction surface analysis mass spectrometry of cell wall lipids from mycobacteria: Salt additives for decreased spectral complexity. <b>2019</b> , 35, e8523	4
430	Enzymes Involved in Lipid Digestion. <b>2021</b> , 3-28	1
429	Lipid production by oleaginous yeasts. <b>2021</b> , 116, 1-98	3
428	Circulating 27-hydroxycholesterol and Risk of Colorectal Adenomas and Serrated Polyps. <b>2021</b> , 14, 479-488	2
427	Chemical Derivatization-Aided High Resolution Mass Spectrometry for Shotgun Lipidome Analysis. <b>2021</b> , 2306, 61-75	0
426	Advances in decomposing complex metabolite mixtures using substructure- and network-based computational metabolomics approaches. <b>2021</b> , 38, 1967-1993	11
425	Methods of lipid analysis. <b>2021</b> , 53-83	

424	Confocal Imaging Analysis of Mitochondrial Trafficking of Individual Lipid Species in Live Cells.	
423	Lipid Metabolism in Tumor-Associated Natural Killer Cells. <b>2021</b> , 1316, 71-85	1
422	Lipid droplets and lipid mediators in viral infection and immunity. <b>2021</b> , 45,	15
421	MYC regulates ribosome biogenesis and mitochondrial gene expression programs through its interaction with host cell factor-1. <b>2021</b> , 10,	8
420	Spatially resolved 3D metabolomic profiling in tissues. <b>2021</b> , 7,	5
419	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <b>2021</b> , 10, 4	14
418	The diversity and breadth of cancer cell fatty acid metabolism. <b>2021</b> , 9, 2	38
417	Sphingolipidomics in Translational Sepsis Research-Biomedical Considerations and Perspectives. <b>2020</b> , 7, 616578	1
416	Avenues in Supercritical Carbon Dioxide Extraction and Fractionation of Lipids. <b>2021</b> , 584-596	1
415	Mass Spectrometry-Based Shotgun Lipidomics for Cancer Research. <b>2021</b> , 1280, 39-55	0
414	Fatty acid intake during perinatal periods. <b>2021</b> , 135-154	
413	Metabolomics: small molecules that matter more. <b>2021</b> , 17, 210-229	11
412	Tissue Lipidomic Alterations Induced by Prolonged Dexamethasone Treatment. <b>2021</b> , 20, 1558-1570	4
411	Obesity-Related Changes in Human Plasma Lipidome Determined by the Lipidyzer Platform. <b>2021</b> , 11,	8
410	Bioactive Lipids in MSCs Biology: State of the Art and Role in Inflammation. <b>2021</b> , 22,	3
409	Deep Learning-Based Annotation Transfer between Molecular Imaging Modalities: An Automated Workflow for Multimodal Data Integration. <b>2021</b> , 93, 3061-3071	10
408	Lipid molecular timeline profiling reveals diurnal crosstalk between the liver and circulation. <b>2021</b> , 34, 108710	7
407	Apocryphal FADS2 activity promotes fatty acid diversification in cancer. <b>2021</b> , 34, 108738	28

406	Ion mobility mass spectrometry in the omics era: Challenges and opportunities for metabolomics and lipidomics. <b>2021</b> ,	23
405	New perspective toward nutritional support for malnourished cancer patients: Role of lipids. <b>2021</b> , 20, 1381-1421	3
404	Lipidomic and in-gel analysis of maleic acid co-polymer nanodiscs reveals differences in composition of solubilized membranes. <b>2021</b> , 4, 218	9
403	Shotgun lipidomics and mass spectrometry imaging unveil diversity and dynamics in lipid composition. <b>2021</b> , 24, 102115	3
402	Integrated Microbiome and Metabolome Analysis Reveals a Positive Change in the Intestinal Environment of Edited Large White Pigs. <b>2021</b> , 12, 628685	6
401	Targeted Profiling of Short-, Medium-, and Long-Chain Fatty Acyl-Coenzyme As in Biological Samples by Phosphate Methylation Coupled to Liquid Chromatography-Tandem Mass Spectrometry. <b>2021</b> , 93, 4342-4350	3
400	Diet and Life Stage-Associated Lipidome Remodeling in Atlantic Salmon. <b>2021</b> , 69, 3787-3796	1
399	NMR Methods for Determining Lipid Turnover via Stable Isotope Resolved Metabolomics. <b>2021</b> , 11,	2
398	Validation of Ultrasonic Harmonic Scalpel for Real-Time Tissue Identification Using Rapid Evaporative Ionization Mass Spectrometry. <b>2021</b> , 93, 5906-5916	6
397	A Review on Expedient Assets of Polymers Employed in Novel Topical Formulation for Successful Treatment of Arthritis. <b>2021</b> , 4, 15-30	
396	Inherited disorders of complex lipid metabolism: A clinical review. <b>2021</b> , 44, 809-825	6
395	Spatially Resolved Mass Spectrometry at the Single Cell: Recent Innovations in Proteomics and Metabolomics. <b>2021</b> , 32, 872-894	33
394	Shared genetic etiology between Parkinson's disease and blood levels of specific lipids. <b>2021</b> , 7, 23	3
393	LIMONADA: A database dedicated to the simulation of biological membranes. <b>2021</b> , 42, 1028-1033	
392	Screening of lipid metabolism biomarkers in patients with coronary heart disease via ultra-performance liquid chromatography-high resolution mass spectrometry. <b>2021</b> , 1169, 122603	4
391	Predictive Value of Serum Lipid for Intravenous Immunoglobulin Resistance and Coronary Artery Lesion in Kawasaki Disease. <b>2021</b> , 106, e4210-e4220	1
390	A resource of lipidomics and metabolomics data from individuals with undiagnosed diseases. <b>2021</b> , 8, 114	4
389	Application of omics technologies in dermatological research and skin management. <b>2021</b> ,	2

388	Metabolic View on Human Healthspan: A Lipidome-Wide Association Study. <b>2021</b> , 11,	3
387	Endosome mediated delivery of ceramide phosphoethanolamine (CPE) with unique acyl chain anchors to the cleavage furrow is essential for male meiosis cytokinesis.	0
386	Brain lipidomics as a rising field in neurodegenerative contexts: Perspectives with Machine Learning approaches. <b>2021</b> , 61, 100899	8
385	Characterization of Extracellular Vesicles Secreted in Lentiviral Producing HEK293SF Cell Cultures. <b>2021</b> , 13,	2
384	A method of wet algal lipid recovery for biofuel production. <b>2021</b> , 55, 102237	6
383	Untargeted Lipidomic Profiling of Dry Blood Spots Using SFC-HRMS. <b>2021</b> , 11,	3
382	Membrane lipids and transporter function. <b>2021</b> , 1867, 166079	7
381	Comprehensive Plasma Metabolomic Profile of Patients with Advanced Neuroendocrine Tumors (NETs). Diagnostic and Biological Relevance. <b>2021</b> , 13,	0
380	Pathway-based integration of multi-omics data reveals lipidomics alterations validated in an Alzheimer's Disease mouse model and risk loci carriers.	1
379	Nuclear lipidome is altered in amyotrophic lateral sclerosis: A pilot study. <b>2021</b> , 158, 482-499	2
378	A reference map of sphingolipids in murine tissues. <b>2021</b> , 35, 109250	3
377	Hepatic lipid signatures of little brown bats ( <i>Myotis lucifugus</i> ) and big brown bats ( <i>Eptesicus fuscus</i> ) at early stages of white-nose syndrome. <b>2021</b> , 11, 11581	1
376	Oleic Acid Protects Mothers From Mating-Induced Death and the Cost of Reproduction. <b>2021</b> , 9, 690373	1
375	Lipidomics and transcriptomics analyses of altered lipid species and pathways in oxaliplatin-treated colorectal cancer cells. <b>2021</b> , 200, 114077	2
374	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. <b>2021</b> , 17, 55	0
373	Lipid profile of bovine grade-1 blastocysts produced either in vivo or in vitro before and after slow freezing process. <b>2021</b> , 11, 11618	3
372	Shared Biological Pathways between Antipsychotics and Omega-3 Fatty Acids: A Key Feature for Schizophrenia Preventive Treatment?. <b>2021</b> , 22,	1
371	Isomer Selective Comprehensive Lipidomics Analysis of Phosphoinositides in Biological Samples by Liquid Chromatography with Data Independent Acquisition Tandem Mass Spectrometry. <b>2021</b> , 93, 9583-9592	7

370	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <b>2021</b> , 10, 4	8
369	Lipid profiling of symbiosomes in scleractinian coral in response to herbicide-induced photoinhibition. <b>2021</b> , 186, 104433	1
368	Metabolomic and Lipidomic Approaches to Evaluate the Effects of Leaves on Milk Quality and Biochemical Properties. <b>2021</b> , 8, 644967	1
367	Deepening of lipidome annotation by associating cross-metathesis reaction with mass spectrometry: application to an in vitro model of corneal toxicity. <b>2021</b> , 413, 4825-4836	1
366	Plasma metabolomic profiles as affected by diet and stress in Spanish goats. <b>2021</b> , 11, 12607	0
365	Capturing Membrane Phase Separation by Dual Resolution Molecular Dynamics Simulations. <b>2021</b> , 17, 5876-5884	2
364	Cu(I)-Catalyzed Click Chemistry in Glycoscience and Their Diverse Applications. <b>2021</b> , 121, 7638-7956	49
363	A Skin Lipidomics Study Reveals the Therapeutic Effects of Tanshinones in a Rat Model of Acne. <b>2021</b> , 12, 675659	2
362	A new trick for an old dog? Myocardial-specific roles for prostaglandins as mediators of ischemic injury and repair. <b>2021</b> , 320, H2169-H2184	1
361	An overview of lipidomics utilizing cadaver derived biological samples. <b>2021</b> , 18, 453-461	1
360	Comprehensive Serum Lipidomics for Detecting Incipient Dementia in Parkinson's Disease. <b>2021</b> , 20, 4053-4067	4
359	Characterization of Glucuronosyl-diacyl/monoacylglycerols and Discovery of Their Acylated Derivatives in Tomato Lipid Extracts by Reversed-Phase Liquid Chromatography with Electrospray Ionization and Tandem Mass Spectrometry. <b>2021</b> , 32, 2227-2240	2
358	Imaging lipids in biological samples with surface-assisted laser desorption/ionization mass spectrometry: A concise review of the last decade. <b>2021</b> , 83, 101114	5
357	Inoculation of barley with <i>Trichoderma harzianum</i> T-22 modifies lipids and metabolites to improve salt tolerance. <b>2021</b> , 72, 7229-7246	1
356	Phospholipids: Identification and Implication in Muscle Pathophysiology. <b>2021</b> , 22,	3
355	Screening and Identification of Epoxy/Dihydroxy-Oxylipins by Chemical Labeling-Assisted Ultrahigh-Performance Liquid Chromatography Coupled with High-Resolution Mass Spectrometry. <b>2021</b> , 93, 9904-9911	1
354	Biomarkers for the Clinical Diagnosis of Alzheimer's Disease: Metabolomics Analysis of Brain Tissue and Blood. <b>2021</b> , 12, 700587	0
353	Effect of Polystyrene Microplastics on Rice Seed Germination and Antioxidant Enzyme Activity. <b>2021</b> , 9,	8

352	Metabolomic Studies for the Evaluation of Toxicity Induced by Environmental Toxicants on Model Organisms. <b>2021</b> , 11,	3
351	Lipidomic Profiling of Colorectal Lesions for Real-Time Tissue Recognition and Risk-Stratification using Rapid Evaporative Ionisation Mass Spectrometry. <b>2021</b> ,	1
350	LipiDisease: associate lipids to diseases using literature mining. <b>2021</b> ,	2
349	Shear-Mediated Platelet Activation is Accompanied by Unique Alterations in Platelet Release of Lipids.. <b>2021</b> , 14, 597-612	0
348	ST-2191, an Anellated Bismorpholino Derivative of Oxy-Fingolimod, Shows Selective S1P Agonist and Functional Antagonist Potency In Vitro and In Vivo. <b>2021</b> , 26,	2
347	Silencing of ceramide synthase 2 in hepatocytes modulates plasma ceramide biomarkers predictive of cardiovascular death. <b>2021</b> ,	1
346	Identification and Differentiation of Wide Edible Mushrooms Based on Lipidomics Profiling Combined with Principal Component Analysis. <b>2021</b> , 69, 9991-10001	3
345	Immunometabolism in systemic lupus erythematosus: Relevant pathogenetic mechanisms and potential clinical applications. <b>2021</b> , 120, 1667-1675	2
344	Systematic Review of Recent Lipidomics Approaches Toward Inflammatory Bowel Disease. <b>2021</b> , 29, 582-595	0
343	Discovery of lipid profiles of type 2 diabetes associated with hyperlipidemia using untargeted UPLC Q-TOF/MS-based lipidomics approach. <b>2021</b> , 520, 53-62	3
342	Insights Into Walnut Lipid Metabolism From Metabolome and Transcriptome Analysis. <b>2021</b> , 12, 715731	3
341	Non-coding RNAs and lipids mediate the function of extracellular vesicles in cancer cross-talk. <b>2021</b> , 74, 121-133	7
340	Image-guided MALDI mass spectrometry for high-throughput single-organelle characterization. <b>2021</b> , 18, 1233-1238	8
339	The Updates of Podocyte Lipid Metabolism in Proteinuric Kidney Disease.. <b>2021</b> , 7, 438-451	2
338	Sphingolipid metabolism during Toll-like receptor 4 (TLR4)-mediated macrophage activation. <b>2021</b> , 178, 4575-4587	3
337	Thin-Layer Chromatography and Coomassie Staining of Phospholipids for Fast and Simple Lipidomics Sample Preparation. <b>2021</b> , 1, 171	
336	The role of hepatic lipid composition in obesity-related metabolic disease. <b>2021</b> ,	7
335	LipidQuant 1.0: automated data processing in lipid class separation-mass spectrometry quantitative workflows. <b>2021</b> ,	4

- 334 Four layer multi-omics reveals molecular responses to aneuploidy in Leishmania. 1
- 333 Protocol for multimodal analysis of human kidney tissue by imaging mass spectrometry and CODEX multiplexed immunofluorescence. **2021**, 2, 100747 2
- 332 Comprehensive lipid profiling of *Microchloropsis gaditana* by liquid chromatography - (tandem) mass spectrometry: Bead milling and extraction solvent effects. **2021**, 58, 102388
- 331 Fatty acids and beyond: Age and Alzheimer's disease related changes in lipids reveal the neuro-nutraceutical potential of lipids in cognition. **2021**, 149, 105143 4
- 330 Structure-specific, accurate quantitation of plasmalogen glycerophosphoethanolamine. **2021**, 1186, 339088 2
- 329 Comparison of one-phase and two-phase extraction methods for porcine tissue lipidomics applying a fast and reliable tentative annotation workflow. **2022**, 236, 122849 1
- 328 Nephrogenesis in malnutrition. **2022**, 33-52
- 327 An integrated metabolomics and proteogenomics approach reveals molecular alterations following carbamazepine exposure in the male mussel *Mytilus galloprovincialis*. **2022**, 286, 131793 2
- 326 Shear-Mediated Platelet Activation is Accompanied by Unique Alterations of Platelet Lipid Profile.
- 325 Maternal Myometrium Metabolomic Profiles in Labor: Preliminary Results. **2021**, 86, 88-93 1
- 324 Metabolomics and complementary techniques to investigate the plant phytochemical cosmos. **2021**, 38, 1729-1759 7
- 323 Lipid Structure, Function, and Lipidomic Applications. **2021**, 441-457
- 322 High Throughput Semiquantitative UHPSFC-MS/MS Lipid Profiling and Lipid Class Determination. **2021**, 59, 670-680 6
- 321 The Effect of Antioxidant and Anti-Inflammatory Capacity of Diet on Psoriasis and Psoriatic Arthritis Phenotype: Nutrition as Therapeutic Tool?. **2021**, 10, 8
- 320 Lipid Metabolism in Tumor-Associated Fibroblasts. **2021**, 1316, 117-131 1
- 319 Investigating lipid headgroup composition within epithelial membranes: a systematic review. **2021**, 17, 6773-6786 1
- 318 Lipidomic profiling of human serum enables detection of pancreatic cancer. 2
- 317 Integrating lipidomics and genomics: emerging tools to understand cardiovascular diseases. **2021**, 78, 2565-2584 8



316	Cerebrospinal fluid lipidomics for biomarkers of Alzheimer's disease. <b>2021</b> , 17, 454-463	6
315	Tracking Hepatitis C Virus Interactions with the Hepatic Lipid Metabolism. <b>2020</b> , 889-905	1
314	Lipidomics by HILIC-Ion Mobility-Mass Spectrometry. <b>2020</b> , 2084, 119-132	6
313	What Can MS, NMR, and TLC Tell Us About the Composition of Lipid Membranes?. <b>2020</b> , 59-82	1
312	Assay Tools for Metabolomics. <b>2012</b> , 13-38	6
311	Targeted Lipidomic Analysis of Myoblasts by GC-MS and LC-MS/MS. <b>2017</b> , 1668, 39-60	10
310	Unbiased Lipidomics and Metabolomics of Human Brain Samples. <b>2018</b> , 1750, 255-269	11
309	Quantitative analysis of cellular lipids by nano-electrospray ionization mass spectrometry. <b>2013</b> , 1033, 3-20	44
308	Secondary Metabolites from Plant Sources. <b>2021</b> , 329-377	7
307	Molecular Mechanisms in Yeast Carbon Metabolism: Lipid Metabolism and Lipidomics. <b>2014</b> , 169-215	2
306	Molecular Mechanisms in Yeast Carbon Metabolism: Lipid Metabolism and Lipidomics. <b>2014</b> , 169-215	5
305	Encyclopedia of Lipidomics. <b>2015</b> , 1-4	1
304	Spontaneous Lipid Flip-Flop in Membranes: A Still Unsettled Picture from Experiments and Simulations. <b>2017</b> , 29-60	5
303	Investigating the Role of Mitochondria in Type 2 Diabetes - Lessons from Lipidomics and Proteomics Studies of Skeletal Muscle and Liver. <b>2019</b> , 1158, 143-182	2
302	Tutorial on lipidomics. <b>2019</b> , 1061, 28-41	56
301	Recent advances in the mass spectrometric analysis of glycosphingolipidome - A review. <b>2020</b> , 1132, 134-155	11
300	Hepatic lipid droplet homeostasis and fatty liver disease. <b>2020</b> , 108, 72-81	26
299	Lipidomics reveals dramatic lipid compositional changes in the maturing postnatal lung. <b>2017</b> , 7, 40555	49

298	MetaNetX/MNXref: unified namespace for metabolites and biochemical reactions in the context of metabolic models. <b>2021</b> , 49, D570-D574	26
297	Consensus rank orderings of molecular fingerprints illustrate the most genuine similarities between marketed drugs and small endogenous human metabolites, but highlight exogenous natural products as the most important natural drug transporter substrates.	1
296	MS-DIAL 4: accelerating lipidomics using an MS/MS, CCS, and retention time atlas.	8
295	Piezo1 Induces Local Curvature in a Mammalian Membrane and Forms Specific Protein-Lipid Interactions.	3
294	Mycobacterial Lipidomics. 341-360	2
293	LipidFinder: A computational workflow for discovery of lipids identifies eicosanoid-phosphoinositides in platelets. <b>2017</b> , 2, e91634	25
292	Optimization of cultivation conditions for <i>Microcystis aeruginosa</i> for biodiesel production using response surface methodology. <b>2020</b> , 44,	2
291	2 Chemistry and Properties of Lipids and Phospholipids. <b>2017</b> , 37-72	1
290	Analysis of lipid experiments (ALEX): a software framework for analysis of high-resolution shotgun lipidomics data. <b>2013</b> , 8, e79736	115
289	Temperament type specific metabolite profiles of the prefrontal cortex and serum in cattle. <b>2015</b> , 10, e0125044	13
288	Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. <b>2016</b> , 11, e0153009	25
287	Phospholipid Species in Newborn and 4 Month Old Infants after Consumption of Different Formulas or Breast Milk. <b>2016</b> , 11, e0162040	21
286	Metabolic crosstalk between membrane and storage lipids facilitates heat stress management in <i>Schizosaccharomyces pombe</i> . <b>2017</b> , 12, e0173739	22
285	Proposal for a common nomenclature for fragment ions in mass spectra of lipids. <b>2017</b> , 12, e0188394	57
284	The role of endothelial lipase in lipid metabolism, inflammation, and cancer. <b>2018</b> , 33, 1-10	27
283	Lipid and Carbohydrate Metabolism in. <b>2017</b> , 207, 413-446	99
282	Fatty acids - from energy substrates to key regulators of cell survival, proliferation and effector function. <b>2019</b> , 4, 9-23	16
281	Preimplantation factor (PIF) therapy provides comprehensive protection against radiation induced pathologies. <b>2016</b> , 7, 58975-58994	16

280	PIF* promotes brain re-myelination locally while regulating systemic inflammation- clinically relevant multiple sclerosis M.smegmatis model. <b>2017</b> , 8, 21834-21851	16
279	Plasma lipidomics profiling identified lipid biomarkers in distinguishing early-stage breast cancer from benign lesions. <b>2016</b> , 7, 36622-36631	68
278	Linseed Essential Oil - Source of Lipids as Active Ingredients for Pharmaceuticals and Nutraceuticals. <b>2019</b> , 26, 4537-4558	30
277	The Hepatic Lipidome: A Gateway to Understanding the Pathogenesis of Alcohol-Induced Fatty Liver. <b>2017</b> , 10, 195-206	11
276	Accumulation of Cerebrospinal Fluid Glycerophospholipids and Sphingolipids in Cognitively Healthy Participants With Alzheimer's Biomarkers Precedes Lipolysis in the Dementia Stage. <b>2020</b> , 14, 611393	4
275	Toward a Standardized Strategy of Clinical Metabolomics for the Advancement of Precision Medicine. <b>2020</b> , 10,	25
274	Potential Roles of Fatty Acids and Lipids in Postharvest Needle Abscission Physiology. <b>2019</b> , 10, 1069-1089	5
273	Paving the High-Way to Sustainable, Value Adding Open-Innovation Integrating Bigger-Data Challenges: Three Examples from Bio-Ingredients to Robust Durable Applications of Electrochemical Impacts. <b>2018</b> , 09, 117-188	2
272	Glycerophospholipids pathways and chromosomal instability in gastric cancer: Global lipidomics analysis. <b>2019</b> , 11, 181-194	4
271	Differential Lipid Profiles in Experimental Steatohepatitis: Role for Imaging Mass Spectrometry as a Diagnostic Aid. <b>2015</b> , 4, 1-11	4
270	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins. <b>2020</b> , 9,	3
269	Histone Deacetylase Inhibition Regulates Lipid Homeostasis in a Mouse Model of Amyotrophic Lateral Sclerosis. <b>2021</b> , 22,	3
268	Serum lipids are associated with nonalcoholic fatty liver disease: a pilot case-control study in Mexico. <b>2021</b> , 20, 136	2
267	The Hitchhiker's Guide to Untargeted Lipidomics Analysis: Practical Guidelines. <b>2021</b> , 11,	1
266	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. <b>2021</b> , 84, 2795-2807	21
265	Modulators or facilitators? Roles of lipids in plant root-microbe interactions. <b>2021</b> ,	1
264	Development and Application of Multidimensional Lipid Libraries to Investigate Lipidomic Dysregulation Related to Smoke Inhalation Injury Severity.	1
263	Searching for Linear Dependencies between Heart Magnetic Resonance Images and Lipid Profiles. <b>2010</b> , 232-243	

- 262 Temporal variations in abundance and composition of intact polar lipids in North Sea coastal marine water.
- 261 PTU induction provide quick screening of hypo and hyperlipidemia. **2011**, 14, 1132-3
- 260 Chemical Composition of Fat and Oil Products. **2015**, 1-31
- 259 Targeted metabolomics applied to the study of intracellular eukaryotic pathogen metabolism. **2015**, 126-139
- 258 Encyclopedia of Lipidomics. **2016**, 1-1
- 257 Lipids: Functional Effects and Clinical Application in Parenteral Nutrition. **2016**, 7, 1-6
- 256 Encyclopedia of Lipidomics. **2017**, 1-4
- 255 CHAPTER 11: Capillary Electrophoresis Mass Spectrometry for Lipid Analysis. **2018**, 225-254 1
- 254 Encyclopedia of Lipidomics. **2018**, 1-4
- 253 Urinary Lipidomics. **2018**, 97-111
- 252 Inhibition of Early Response Genes Prevents Changes in Global Joint Metabolomic Profiles in Mouse Post-Traumatic Osteoarthritis.
- 251 Identification and characterization of yeast and human glycosphingolipid flippases.
- 250 LION/web: a web-based ontology enrichment tool for lipidomic data analysis.
- 249 Lipidomics of Adipogenic Differentiation of Mesenchymal Stem Cells. **2019**, 123-140 1
- 248 Food Metabolome Repository: a New Database for Identification of Unknown Compounds in Food Metabolome Analyses. **2019**, 19, 59-65
- 247 Encyclopedia of Biophysics. **2019**, 1-8
- 246 Characterization of bulk phosphatidylcholine compositions in human plasma using side-chain resolving lipidomics.
- 245 The effect of acyl-CoA synthetase long-chain family member 5 on triglyceride synthesis in bovine preadipocytes. **2019**, 62, 257-264 1

244	Enzyme annotation in UniProtKB using Rhea.	4
243	Lipid digestion and autophagy are critical energy providers during acute glucose depletion in <i>Saccharomyces cerevisiae</i> .	
242	A generalizable method for false-discovery rate estimation in mass spectrometry-based lipidomics.	
241	Genetic and environmental determinants of variation in the plasma lipidome of older Australian twins.	
240	Combining two large clinical cohorts (AIBL and ADNI) to identify multiple lipid metabolic pathways in prevalent and incident Alzheimer's disease.	
239	Metabolic plasticity in cancer activates apocryphal pathways for lipid desaturation.	
238	MYC regulates ribosome biogenesis and mitochondrial gene expression programs through interaction with Host Cell Factor-1.	
237	Distinct photooxidation-induced cell death pathways lead to selective killing of human breast cancer cells.	
236	Combining Micropunch Histology and Multidimensional Lipidomic Measurements for In-Depth Tissue Mapping.	2
235	Effects of the donor factors and freezing protocols on the bovine embryonic lipid profile. <b>2021</b> ,	0
234	Automated data-driven mass spectrometry for improved analysis of lipids with dual dissociation techniques.. <b>2021</b> , 22, 43-49	1
233	Genomics and Molecular Markers for Rice Grain Quality: A Review. <b>2020</b> , 425-444	
232	Shotgun lipidomics and mass spectrometry imaging unveil diversity and dynamics in lipid composition in <i>Gammarus fossarum</i> .	
231	A concise review on lipidomics analysis in biological samples.. <b>2021</b> , 9, 1-22	0
230	Marine-Derived Biologically Active Compounds for the Potential Treatment of Rheumatoid Arthritis. <b>2020</b> , 19,	1
229	From Prevention to Disease Perturbations: A Multi-Omic Assessment of Exercise and Myocardial Infarctions. <b>2020</b> , 11,	0
228	Ferroptosis. <b>2022</b> , 261-277	
227	Extracting Biological Insight from Untargeted Lipidomics Data. <b>2020</b> , 2104, 121-137	1

226	Overview of Tandem Mass Spectral and Metabolite Databases for Metabolite Identification in Metabolomics. <b>2020</b> , 2104, 139-148	2
225	Structured lipids: Synthesis, health effects, and nutraceutical applications. <b>2020</b> , 289-327	0
224	Lignocellulosic Biomass. <b>2020</b> , 499-535	
223	Comparison Between Measuring of Lipid Profile in Fasting and Non-Fasting States: A Cross-Sectional Study from Iraq. <b>2020</b> , 21,	
222	Goslin - A Grammar of Succinct Lipid Nomenclature.	
221	Paediatric obesity: a systematic review and pathway mapping of metabolic alterations underlying early disease processes. <b>2021</b> , 27, 145	2
220	Lipids as early and minimally invasive biomarkers for Alzheimer disease. <b>2021</b> ,	0
219	High light induces species specific changes in the membrane lipid composition of Chlorella. <b>2020</b> , 477, 2543-2559	1
218	De Novo Lipid Labeling for Comprehensive Analysis of Subcellular Distribution and Trafficking in Live Cells.	
217	Oleic acid protectsCaenorhabditismothers from mating-induced death.	
216	Investigation of biochemical changes in barley inoculated with Trichoderma harzianum T-22 under salt stress.	
215	MetaNetX/MNXref - unified namespace for metabolites and biochemical reactions in the context of metabolic models.	
214	NMR based metabonomics study on celiac disease in the blood serum. <b>2013</b> , 6, 190-4	10
213	Recent advances in microscale separation techniques for lipidome analysis. <b>2021</b> , 146, 7418-7430	2
212	Axonal plasma membrane-mediated toxicity of cholesterol in Alzheimer's disease: A microsecond molecular dynamics study. <b>2021</b> , 281, 106718	0
211	Lipidomic and metabolomic analysis reveals changes in biochemical pathways for non-small cell lung cancer tissues. <b>2021</b> , 1867, 159082	0
210	Lysophosphatidic acid shifts metabolic and transcriptional landscapes to induce a distinct cellular state in human pluripotent stem cells. <b>2021</b> , 37, 110063	0
209	Bioinformatics in Lipidomics: Automating Large-Scale LC-MS-Based Untargeted Lipidomics Profiling with SimLipid Software. <b>2022</b> , 2396, 197-214	0

208	Chronic exposure to ammonia induces oxidative stress and enhanced glycolysis in lung of piglets. <b>2021,</b>	0
207	The Many Faces of Lipids in Genome Stability (and How to Unmask Them). <b>2021, 22,</b>	0
206	Identification of Lipid Heterogeneity and Diversity in the Developing Human Brain.. <b>2021, 1, 2261-2270</b>	3
205	MCF-7 Drug Resistant Cell Lines Switch Their Lipid Metabolism to Triple Negative Breast Cancer Signature. <b>2021, 13,</b>	0
204	Comparative lipid profiling of murine and human atherosclerotic plaques using high-resolution MALDI MSI. <b>2021, 1</b>	1
203	A Novel Approach to Characterize the Lipidome of Marine Archaeon by Ion Mobility Mass Spectrometry.. <b>2021, 12, 735878</b>	
202	Membrane composition and organization of Bacillus subtilis 168 and its genome-reduced derivative miniBacillus PG10. <b>2021,</b>	0
201	Lipid Droplet-Associated Proteins in Cardiomyopathy. <b>2021, 1-13</b>	1
200	De Novo Labeling and Trafficking of Individual Lipid Species in Live Cells.	
199	Liposomes and Their Application in the Delivery of Herbal Active Ingredients. <b>2021, 153-173</b>	
198	Effects of Formyl Peptide Receptor Agonists Ac and WKYMV in In Vivo and In Vitro Acute Inflammatory Experimental Models.. <b>2022, 11,</b>	
197	Analytical Strategies and Applications in Lipidomics. <b>2022, 1-26</b>	
196	Lipidomic profiling of human serum enables detection of pancreatic cancer.. <b>2022, 13, 124</b>	11
195	Lipid analysis by ion mobility spectrometry combined with mass spectrometry: A brief update with a perspective on applications in the clinical laboratory.. <b>2022, 23, 7-13</b>	2
194	Lipidomics in Biomarker Research. <b>2021,</b>	1
193	Microsecond molecular dynamics studies of cholesterol-mediated myelin sheath degeneration in early Alzheimer's disease. <b>2021,</b>	0
192	Lipidomics Analysis of Outer Membrane Vesicles and Elucidation of the Inositol Phosphoceramide Biosynthetic Pathway in Bacteroides thetaiotaomicron.. <b>2022, e0063421</b>	4
191	Aeroterrestrial and Extremophilic Microalgae as Promising Sources for Lipids and Lipid Nanoparticles in Dermal Cosmetics. <b>2022, 9, 11</b>	0

190	Molecular Probes, Chemosensors, and Nanosensors for Optical Detection of Biorelevant Molecules and Ions in Aqueous Media and Biofluids.. <b>2022,</b>	17
189	Structural characterization of phospholipids and sphingolipids by in-source fragmentation MALDI/TOF mass spectrometry.. <b>2022,</b> 414, 2089	1
188	Lipid profiling of coral symbiosomes in response to copper-induced carbon limitation: A metabolic effect of algal symbionts on the host immune status.. <b>2022,</b> 293, 133673	1
187	Metabolic Snapshot of Plasma Samples Reveals New Pathways Implicated in SARS-CoV-2 Pathogenesis.. <b>2022,</b>	1
186	Cryogenic infrared spectroscopy provides mechanistic insight into the fragmentation of phospholipid silver adducts.. <b>2022,</b> 1	0
185	Lipidome Alterations following Mild Traumatic Brain Injury in the Rat.. <b>2022,</b> 12,	0
184	Deleterious variants in CRLS1 lead to cardiolipin deficiency and cause an autosomal recessive multi-system mitochondrial disease.. <b>2022,</b>	2
183	Lipids and Trehalose Actively Cooperate in Heat Stress Management of .. <b>2021,</b> 22,	2
182	Lipid Metabolism in Plants Under Low-Temperature Stress: A Review. <b>2022,</b> 409-516	0
181	WikiPathways: Integrating Pathway Knowledge with Clinical Data. <b>2022,</b> 1457-1466	
180	Dietary oxidized lipids. <b>2022,</b> 349-380	
179	Characterization and Role of Sterols in <i>Saccharomyces cerevisiae</i> during White Wine Alcoholic Fermentation. <b>2022,</b> 8, 90	1
178	Integrated Metabolomics and Lipidomics Reveal High Accumulation of Glycerophospholipids in Human Astrocytes under the Lipotoxic Effect of Palmitic Acid and Tibolone Protection.. <b>2022,</b> 23,	0
177	Adaptation of Lipid Profiling in Depression Disease and Treatment: A Critical Review.. <b>2022,</b> 23,	2
176	LPS-induced lipid alterations in microglia revealed by MALDI mass spectrometry-based cell fingerprinting in neuroinflammation studies.. <b>2022,</b> 12, 2908	0
175	Lipid Metabolism Interplay in CRC-An Update.. <b>2022,</b> 12,	0
174	Shifting a Cellular Metabolic Landscape Identifies a Refractory Environment for Flavivirus Replication.	
173	Providing Adverse Outcome Pathways from the AOP-Wiki in a Semantic Web Format to Increase Usability and Accessibility of the Content.. <b>2022,</b> 8, 2-13	1



172	The Potential of Salivary Lipid-Based Cannabis-Responsive Biomarkers to Evaluate Medical Cannabis Treatment in Children with Autism Spectrum Disorder.. <b>2022,</b>	1
171	Identification of Metabolism-Associated Biomarkers for Early and Precise Diagnosis of Oral Squamous Cell Carcinoma.. <b>2022, 12,</b>	0
170	Small Molecule Signatures of Mice Lacking T-cell p38 Alternate Activation, a Model for Immunosuppression Conditions, after Total-Body Irradiation.. <b>2022,</b>	
169	Endosomes deliver ceramide phosphoethanolamine with unique acyl chain anchors to the cleavage furrow during male meiotic cytokinesis.	
168	Implications of Sphingolipids on Aging and Age-Related Diseases. <b>2022, 2,</b>	2
167	A Multimodal Omics Exploration of the Motor and Non-Motor Symptoms of Parkinson Disease. <b>2022, 2, 97-112</b>	0
166	Conception and early pregnancy in the mare: lipidomics the unexplored frontier.. <b>2022, 3, R1-R18</b>	0
165	The vesicular transporter STX11 governs ATGL-mediated hepatic lipolysis and lipophagy.. <b>2022, 25, 104085</b>	0
164	Effects of polystyrene nanoplastics with different functional groups on rice ( <i>Oryza sativa</i> L.) seedlings: Combined transcriptome, enzymology, and physiology.. <b>2022, 155092</b>	0
163	Untargeted Metabolomics Yields Insights Into the Lipidome of <i>Botrylloides niger</i> Herdman, 1886, An Ascidian Invading the Mediterranean Sea. <b>2022, 9,</b>	2
162	Integrated lipidomic and transcriptomic analysis reveals triacylglycerol accumulation in castor bean seedlings under heat stress. <b>2022, 180, 114702</b>	0
161	Highly repeatable and selective ultrahigh-performance supercritical fluid chromatography [Mass spectrometry interclass separation in lipidomic studies. <b>2022, 178, 107376</b>	1
160	Exploiting the formation of adducts in mobile phases with ammonium fluoride for the enhancement of annotation in liquid chromatography-high resolution mass spectrometry based lipidomics. <b>2021, 1, 100018</b>	1
159	Metabolically-Incorporated Deuterium in Myelin Localized by Neutron Diffraction and Identified by Mass Spectrometry.	
158	Long-lived humans have a unique plasma sphingolipidome. <b>2021,</b>	2
157	Novel lipidomic signature associated with metabolic risk in women with and without polycystic ovary syndrome.. <b>2021,</b>	0
156	Ceramide Transfer Protein (CERT): An Overlooked Molecular Player in Cancer.. <b>2021, 22,</b>	0
155	Novel Extraction Method for Combined Lipid and Metal Speciation From With Focus on Iron Redox Status and Lipid Profiling.. <b>2021, 9, 788094</b>	2

154	Lipidomics analysis unravels changes from flavor precursors in different processing treatments of purple-leaf tea.. <b>2021</b> ,	1
153	Lipidanalytik. <b>2022</b> , 689-722	
152	Advances in Lipid Extraction Methods-A Review.. <b>2021</b> , 22,	10
151	Development and Application of Multidimensional Lipid Libraries to Investigate Lipidomic Dysregulation Related to Smoke Inhalation Injury Severity. <b>2021</b> ,	5
150	Advances in Analyzing the Breast Cancer Lipidome and Its Relevance to Disease Progression and Treatment.. <b>2021</b> , 26, 399	0
149	LipidOne: user-friendly lipidomic data analysis tool for a deeper interpretation in a systems biology scenario.. <b>2021</b> ,	2
148	Lipidomics. <b>2022</b> ,	
147	Lipidomic analysis identifies age-disease-related changes and potential new biomarkers in brain-derived extracellular vesicles from metachromatic leukodystrophy mice.. <b>2022</b> , 21, 32	0
146	Effects of Time and Temperature on Stability of Bioactive Molecules, Color and Volatile Compounds during Storage of Grape Pomace Flour. <b>2022</b> , 12, 3956	2
145	The Potential Antipyretic Mechanism of Ellagic Acid with Brain Metabolomics Using Rats with Yeast-Induced Fever.. <b>2022</b> , 27,	
144	Head and Neck Cancer Susceptibility and Metabolism in Fanconi Anemia.. <b>2022</b> , 14,	
143	The Role of Lipids in Allergic Sensitization: A Systematic Review.. <b>2022</b> , 9, 832330	1
142	Lipid profiling differentiates the effect of ambient microenriched copper on a coral as an advanced tool for biomonitoring.. <b>2022</b> , 178, 113650	
141	DataSheet_1.pdf. <b>2020</b> ,	
140	Table_1.xlsx. <b>2020</b> ,	
139	Table_2.xlsx. <b>2020</b> ,	
138	Table_3.xlsx. <b>2020</b> ,	
137	DataSheet_1.csv. <b>2020</b> ,	

136	DataSheet_2.csv. <b>2020,</b>		
135	Table_1.xlsx. <b>2018,</b>		
134	Effects of a 0.3% cholesterol diet and a 20% fat diet on plasma lipids and lipoproteins in Quaker parrots ( <i>Myiopsitta monachus</i> ).. <b>2022,</b>		0
133	A comparative lipidomic study of the human placenta from women with or without gestational diabetes mellitus.. <b>2022,</b>		
132	Validation of a multiplexed and targeted lipidomics assay for accurate quantification of lipidomes.. <i>Journal of Lipid Research</i> , <b>2022,</b> 100218	6.3	0
131	Bio-Refinery of Oilseeds: Oil Extraction, Secondary Metabolites Separation towards Protein Meal Valorisation. <i>Review</i> . <b>2022,</b> 10, 841		2
130	Plasmalogens and Photooxidative Stress Signaling in Myxobacteria, and How it Unmasked CarF/TMEM189 as the $\Delta^7$ -Desaturase PEDS1 for Human Plasmalogen Biosynthesis. <b>2022,</b> 10,		2
129	Rapid assessment of fatty acyls chains of phospholipids and plasmalogens by atmospheric pressure chemical ionization in positive mode and high-resolution mass spectrometry using in-source generated monoacylglycerol like fragments intensities.. <b>2022,</b> 1673, 463093		0
128	De novo labeling and trafficking of individual lipid species in live cells.. <b>2022,</b> 61, 101511		
127	Lipid Biomarkers for Breast Cancer Diagnostics. <b>2022,</b> 235-262		
126	Unsaturation in the Fatty Acids of Phospholipids Drastically Alters the Structure and Toxicity of Insulin Aggregates Grown in Their Presence.. <b>2022,</b> 4563-4569		5
125	Tracing Lipid Metabolism by Alkyne Lipids and Mass Spectrometry: The State of the Art. <b>2022,</b> 9,		1
124	Lipidomics Reveals That Rice or Flour as a Single Source of Carbohydrates Cause Adverse Health Effects in Rats. <b>2022,</b> 9,		
123	Current State of Fluid Lipid Biomarkers for Personalized Diagnostics and Therapeutics in Schizophrenia Spectrum Disorders and Related Psychoses: A Narrative Review. 13,		
122	Open Access Repository-Scale Propagated Nearest Neighbor Suspect Spectral Library for Untargeted Metabolomics.		1
121	Classification and properties of nanoparticles. <b>2022,</b> 15-54		4
120	Fatty Acids and Immunomodulation. <b>2022,</b> 439-462		
119	Amyloids on Membrane Interfaces: Implications for Neurodegeneration.		0

118	Outtakes from My Journey through the World of LIPID MAPS. <b>2022</b> , 27, 3885	
117	A Divergent Selection on Breast Meat Ultimate pH, a Key Factor for Chicken Meat Quality, is Associated With Different Circulating Lipid Profiles. 13,	1
116	Cathepsin B-responsive prodrugs for cancer-targeted therapy: Recent advances and progress for clinical translation.	1
115	PeakForest: a multi-platform digital infrastructure for interoperable metabolite spectral data and metadata management. <b>2022</b> , 18,	1
114	A Current Encyclopedia of Bioinformatics Tools, Data Formats and Resources for Mass Spectrometry Lipidomics. <b>2022</b> , 12, 584	3
113	Analytical Strategies and Applications in Lipidomics. <b>2022</b> , 141-166	0
112	Lipid chemistry and physiochemistry. <b>2022</b> , 31-50	
111	Metabolically-incorporated deuterium in myelin localized by neutron diffraction and identified by mass spectrometry. <b>2022</b> ,	
110	Mixotrophy in a Local Strain of <i>Nannochloropsis granulata</i> for Renewable High-Value Biomass Production on the West Coast of Sweden. <b>2022</b> , 20, 424	
109	Elevated 18:0 lysophosphatidylcholine contributes to the development of pain in tissue injury. <b>2022</b> , Publish Ahead of Print,	
108	Insights into Polyphenol-Lipid Interactions: Chemical Methods, Molecular Aspects and Their Effects on Membrane Structures. <b>2022</b> , 11, 1809	0
107	Circulating Exosome Cargoes Contain Functionally Diverse Cancer Biomarkers: From Biogenesis and Function to Purification and Potential Translational Utility. <b>2022</b> , 14, 3350	1
106	Metabolic Rewiring in Glioblastoma Cancer: EGFR, IDH and Beyond. 12,	1
105	Prioritize biologically relevant ions for data-independent acquisition (BRI-DIA) in LCMS/MS-based lipidomics analysis. <b>2022</b> , 18,	0
104	Amyloid aggregates exert cell toxicity causing irreversible damages in the endoplasmic reticulum. <b>2022</b> , 1868, 166485	3
103	Early Life to Adult Brain Lipidome Dynamic: A Temporospatial Study Investigating Dietary Polar Lipid Supplementation Efficacy. 9,	
102	Reprogrammed Lipid Metabolism and the Lipid-Associated Hallmarks of Colorectal Cancer. <b>2022</b> , 14, 3714	0
101	Enhancing the Signal-to-Noise of Diagnostic Fragment Ions of Unsaturated Glycerophospholipids via Precursor Exclusion Ultraviolet Photodissociation Mass Spectrometry (PEx-UVPD-MS). <b>2022</b> , 94, 11352-11359	0

100	Lipids and the cancer stemness regulatory system in acute myeloid leukemia.	1
99	A guidance into the fungal metabolomic abyss: Network analysis for revealing relationships between exogenous compounds and their outputs.	1
98	Growth Substrate and Prophage Induction Collectively Influence Metabolite and Lipid Profiles in a Marine Bacterium.	0
97	Current advancements and future perspectives of long noncoding RNAs in lipid metabolism and signaling. <b>2022,</b>	
96	Simultaneous multiplexed quantification and C=C localization of fatty acids with LC-MS/MS using isobaric multiplex reagents for carbonyl-containing compound (SUGAR) tags and C=C epoxidation. <b>2022, 1225, 340215</b>	0
95	Engineering microbial biofactories for a sustainable future. <b>2023, 25-58</b>	0
94	Oils as a source of bioactive lipids (olive oil, palm oil, fish oil). <b>2023, 231-268</b>	0
93	Glycolipids. <b>2022,</b>	0
92	Kefir fermented fruit by-products: anti-Alicyclobacillus spp. activity, and antioxidant activity. 42,	0
91	Associations of the Lipidome with Ageing, Cognitive Decline and Exercise Behaviours. <b>2022, 12, 822</b>	0
90	Traditional processing increases biological activities of <i>Dendrobium officinale</i> Kimura et. Migo in Southeast Yunnan, China. <b>2022, 12,</b>	0
89	Eicosanoids in inflammation in the blood and the vessel. 13,	2
88	Anandamide and other N-acylethanolamines: A class of signaling lipids with therapeutic opportunities. <b>2022, 101194</b>	4
87	An initial investigation of accuracy required for the identification of small molecules in complex samples using quantum chemical calculated NMR chemical shifts. <b>2022, 14,</b>	0
86	Antiretroviral Therapy Does Not Restore Brain Lipids During SIV Infection: Regional Analysis of Metabolic Homeostasis and Depletion.	0
85	Imaging Mass Spectrometry Reveals Complex Lipid Distributions Across <i>Staphylococcus aureus</i> Biofilm Layers. <b>2022,</b>	1
84	Four layer multi-omics reveals molecular responses to aneuploidy in <i>Leishmania</i> . <b>2022, 18, e1010848</b>	0
83	A high-throughput lipidomics and transcriptomic approach reveals novel compounds from sugarcane linked with promising therapeutic potential against COVID-19. 9,	0

82	Charge of Phospholipids Determines the Rate of Lysozyme Aggregation but Not the Structure and Toxicity of Amyloid Aggregates. <b>2022</b> , 13, 8833-8839	1
81	Paper Spray Ionization Ion Mobility Mass Spectrometry of Sebum Classifies Biomarker Classes for the Diagnosis of Parkinson's Disease. <b>2022</b> , 2, 2013-2022	1
80	LIPID AS AN EXCIPIENT FOR DESIGN AND DEVELOPMENT OF FORMULATIONS. <b>2022</b> , 59, 7-20	0
79	Recent advances in liposome development for studying protein-lipid interactions. 1-14	1
78	Early-life stress and dietary fatty acids impact the brain lipid/oxylin profile into adulthood, basally and in response to LPS. 13,	0
77	Multi-modal mass spectrometry imaging reveals single-cell metabolic states in mammalian liver.	0
76	Ethyl Acetate Extract of <i>Caesalpinia sappan</i> L. for the Treatment of Atherosclerosis in ApoE <sup>-/-</sup> Mice and Its Mechanism.	0
75	Detecting Lipids on Planetary Surfaces with Laser Desorption Ionization Mass Spectrometry. <b>2022</b> , 3, 241	1
74	Machine Learning and Hybrid Methods for Metabolic Pathway Modeling. <b>2023</b> , 417-439	2
73	Combined analysis of lipidomics and transcriptomics revealed the key pathways and genes of lipids in light-sensitive albino tea plant ( <i>Camellia sinensis</i> cv. Baijiguan). 13,	0
72	Optimization of Zebrafish Larvae Sectioning for Mass Spectrometry Imaging. <b>2022</b> , 15, 1230	1
71	CDK8 attenuates lipogenesis by inhibiting SREBP-dependent transcription in <i>Drosophila</i> .	0
70	How do Vampires Suck Blood?.	0
69	A Mass Spectrometry Imaging and Lipidomic Investigation Reveals Aberrant Lipid Metabolism in the Orthotopic Mouse Glioma. <b>2022</b> , 100304	0
68	Integrated Metabolomics and Lipidomics Approach for the Study of Metabolic Network and Early Diagnosis in Cerebral Infarction.	0
67	LRRK2 and Lipid Pathways: Implications for Parkinson's Disease. <b>2022</b> , 12, 1597	1
66	Effects of a 12-week whole-grain or refined wheat intervention on plasma acylcarnitines, bile acids and signaling lipids, and association with liver fat: A post-hoc metabolomics study of a randomized controlled trial. 9,	0
65	Pathway-based integration of multi-omics data reveals lipidomics alterations validated in an Alzheimer's Disease mouse model and risk loci carriers.	0

64	The impact of lipids on the cancer-immunity cycle and strategies for modulating lipid metabolism to improve cancer immunotherapy. <b>2022</b> ,	0
63	Lipids uniquely alter rates of insulin aggregation and lower toxicity of amyloid aggregates. <b>2023</b> , 1868, 159247	1
62	Changes of mitochondrial lipid molecules, structure, cytochrome c and ROS of beef Longissimus lumborum and Psoas major during postmortem storage and their potential associations with beef quality. <b>2023</b> , 195, 109013	0
61	Lipid metabolic characteristics and marker compounds of ripened Pu-erh tea during pile fermentation revealed by LC-MS-based lipidomics. <b>2023</b> , 404, 134665	0
60	Differential Kendrick Plots as an Innovative Tool for Lipidomics in Complex Samples: Comparison of Liquid Chromatography and Infusion-Based Methods to Sample Differential Study.	0
59	RaMP-DB 2.0: a renovated knowledgebase for deriving biological and chemical insight from genes, proteins, and metabolites.	1
58	Mitochondrial Fatty Acid $\beta$ Oxidation Disorders: From Disease to Lipidomic Studies A Critical Review. <b>2022</b> , 23, 13933	0
57	Microalgae as sources of green bioactives for health-enhancing food supplements and nutraceuticals: A review of literature. 2, 10	0
56	The lipidome of an omnivorous insect responds to diet composition and social environment. <b>2022</b> , 12,	0
55	Curcumin delivery and co-delivery based on nanomaterials as an effective approach for cancer therapy. <b>2022</b> , 78, 103982	2
54	A biochemical and lipidomic approach to perceive Halimione portulacoides (L.) response to mercury: An environmental perspective. <b>2023</b> , 186, 114393	1
53	Recent advances in gas-phase ion/ion chemistry for lipid analysis. <b>2023</b> , 158, 116852	0
52	Egg yolk phospholipids as an ideal precursor of fatty note odorants for chicken meat and fried foods: A review. <b>2023</b> , 407, 135177	0
51	Cell Type Variability in the Incorporation of Lipids in the Dengue Virus Virion. <b>2022</b> , 14, 2566	0
50	The Thing Metabolome Repository Family (XMRs): comparable untargeted metabolome databases for analyzing sample-specific unknown metabolites.	0
49	Advances in Lipid-Based Codelivery Systems for Cancer and Inflammatory Diseases. 2202400	0
48	Guiding the choice of informatics software and tools for lipidomics research applications.	1
47	Lipid Analysis by Mass Spectrometry coupled with Laser Light.	0

46	Sphingolipids and acylcarnitines are altered in placentas from women with gestational diabetes mellitus. 1-33	1
45	Data-dependent and -independent acquisition lipidomics analysis reveals the tissue-dependent effect of metformin on lipid metabolism.	0
44	Applications of spatially resolved omics in the field of endocrine tumors. 13,	0
43	Targeting fatty acid metabolism in glioblastoma. <b>2023</b> , 133,	1
42	Lipid Adaptations against Oxidative Challenge in the Healthy Adult Human Brain. <b>2023</b> , 12, 177	0
41	Eicosanoid and Eicosanoid-Related Inflammatory Mediators and Exercise Intolerance in Heart Failure with Preserved Ejection Fraction.	0
40	Quantification of phospholipids and glycerides in human milk using ultra-performance liquid chromatography with quadrupole-time-of-flight mass spectrometry. 10,	0
39	Lipidomic and Metallomic Alteration of <i>Caenorhabditis elegans</i> after Acute and Chronic Manganese, Iron, and Zinc Exposure with a Link to Neurodegenerative Disorders.	0
38	Software and Computational Tools for LC-MS-Based Epilipidomics: Challenges and Solutions. <b>2023</b> , 95, 287-303	2
37	Data for Oxidative stress is inhibited by plant-based supplements: a quantitative lipidomic analysis of antioxidant activity and lipid compositional change <b>2023</b> , 46, 108879	0
36	The Low expression of PAI-1 increasing MC3T3-E1 cell proliferation by promoting glucose metabolism and activating BMP/TGF- $\beta$ Smad and Wnt/ $\beta$ catenin pathways: a downstream regulatory role of PAI-1 in osteoblasts.	0
35	FABP5 Deficiency Impaired Macrophage Inflammation by Regulating AMPK/NF- $\kappa$ B Signaling Pathway. <b>2022</b> , 209, 2181-2191	0
34	MALDI Imaging Mass Spectrometry of High-Grade Gliomas: A Review of Recent Progress and Future Perspective. <b>2023</b> , 45, 838-851	0
33	Metabolite Profiling and Bioactivities of Leaves, Stems, and Flowers of <i>Rumex usambarensis</i> (Dammer) Dammer, a Traditional African Medicinal Plant. <b>2023</b> , 12, 482	0
32	Replacement Flame-Retardant 2-Ethylhexyldiphenyl Phosphate (EHDPP) Disrupts Hepatic Lipidome: Evidence from Human 3D Hepatospheroid Cell Culture. <b>2023</b> , 57, 2006-2018	0
31	Biosignatures—The prime targets in the search for life beyond Earth. <b>2023</b> , 167-200	0
30	Bioanalytical Chemistry,. <b>2023</b> , 512-568	0
29	Development of a Laser Microdissection-Coupled Quantitative Shotgun Lipidomic Method to Uncover Spatial Heterogeneity. <b>2023</b> , 12, 428	0



- 28 Lipidomic and transcriptomic profiles of glycerophospholipid metabolism during *Hemerocallis citrina* Baroni flowering. **2023**, 23,
- 27 Nutritional lipidomics for the characterization of lipids in food. **2023**,
- 26 Recent advances on bioactive compounds, biosynthesis mechanism, and physiological functions of *Nelumbo nucifera*. **2023**, 412, 135581
- 25 An immune cell lipid atlas reveals the basis of susceptibility to ferroptosis.
- 24 Nutrition in Alzheimer's disease: a review of an underappreciated pathophysiological mechanism.
- 23 Deciphering the role of lipoproteins and lipid metabolic alterations in ageing and ageing-associated renal fibrosis. **2023**, 85, 101861
- 22 Artificial Intelligence-Assisted Production of Biomolecules. **2023**, 123-140
- 21 Effects of Bee Pollen Derived from *Acer mono Maxim.* or *Phellodendron amurense Rupr.* on the Lipid Composition of Royal Jelly Secreted by Honeybees. **2023**, 12, 625
- 20 Polystyrene micro and nanoplastics attenuated the bioavailability and toxic effects of Perfluorooctane sulfonate (PFOS) on soybean (*Glycine max*) sprouts. **2023**, 448, 130911
- 19 Comprehensive classification of proteins based on structures that engage lipids by COMPOSEL. **2023**, 295, 106971
- 18 Mass Spectrometry, Protein Interaction and Amalgamation of Bioinformatics. **2023**, 77-93
- 17 Recent methodological developments in data-dependent analysis and data-independent analysis workflows for exhaustive lipidome coverage. 3,
- 16 The Superoncogene Myc at the Crossroad between Metabolism and Gene Expression in Glioblastoma Multiforme. **2023**, 24, 4217
- 15 Solvent effects of N,N-dimethylformamide and methanol on mass spectrometry imaging by tapping-mode scanning probe electrospray ionization. **2023**, 148, 1275-1284
- 14 Spatial Lipidomic Profiling of Mouse Joint Tissue Demonstrates the Essential Role of PHOSPHO1 in Growth Plate Homeostasis.
- 13 Mass spectrometry imaging in Alzheimer's disease.
- 12 Mathematical Modeling of Eicosanoid Metabolism in Macrophage Cells: Cybernetic Framework Combined with Novel Information-Theoretic Approaches. **2023**, 11, 874
- 11 Integrating the potential of ion mobility spectrometry-mass spectrometry in the separation and structural characterisation of lipid isomers. 10,

- 10 Elucidation of the Effect of Phospholipid Charge on the Rate of Insulin Aggregation and Structure and Toxicity of Amyloid Fibrils. **2023**, 8, 12379-12386
- 9 Murine Norovirus Interaction with Enterobacter cloacae Leads to Changes in Membrane Stability and Packaging of Lipid and Metabolite Vesicle Content. **2023**, 11,
- 8 Membrane lipids from gut microbiome-associated bacteria as structural and signalling molecules. **2023**, 169,
- 7 Triglyceride cycling enables modification of stored fatty acids.
- 6 Oxidative stress: The nexus of obesity and cognitive dysfunction in diabetes. 14,
- 5 The impact of culture systems on the gut microbiota and gut metabolome of bighead carp (*Hypophthalmichthys nobilis*). **2023**, 5,
- 4 MALDI IMS-Derived Molecular Contour Maps: Augmenting Histology Whole-Slide Images.
- 3 Interactions between the lipidome and genetic and environmental factors in autism. **2023**, 29, 936-949
- 2 Role of untargeted omics biomarkers of exposure and effect for tobacco research. **2023**, 7, 100098
- 1 Effects of phosphatidylcholine and tocopherol during larval cryopreservation of Pacific oysters (*Magallana gigas*). **2023**, 574, 739650