MetaboAnalyst 3.0â€”making metabolomics more mean

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Citation Report

#	Article	IF	Citations
9	An Untargeted Metabolomics Analysis of Antipsychotic Use in Bipolar Disorder. Clinical and Translational Science, 2015, 8, 432-440.	1.5	25
10	Genomic, Proteomic, and Metabolomic Data Integration Strategies. Biomarker Insights, 2015, 10s4, BMI.S29511.	1.0	74
11	Innate immunity and carbohydrate metabolism alterations precede occurrence of subclinical mastitis in transition dairy cows. Journal of Animal Science and Technology, 2015, 57, 46.	0.8	27
12	CHANGES IN WHOLE-PLANT METABOLISM DURING GRAIN-FILLING STAGE IN SORGHUM BICOLOR L. (MOENCH) GROWN UNDER ELEVATED CO2 AND DROUGHT. Plant Physiology, 2015, 169, pp.01054.2015.	2.3	45
13	Tissue- Specific Expression Analysis of Anthocyanin Biosynthetic Genes in White- and Red-Fleshed Grape Cultivars. Molecules, 2015, 20, 22767-22780.	1.7	40
14	Collagen Induced Arthritis in DBA/1J Mice Associates with Oxylipin Changes in Plasma. Mediators of Inflammation, 2015, 2015, 1-11.	1.4	14
15	Metabolomics, Standards, and Metabolic Modeling for Synthetic Biology in Plants. Frontiers in Bioengineering and Biotechnology, 2015, 3, 167.	2.0	15
16	Attenuated UV Radiation Alters Volatile Profile in Cabernet Sauvignon Grapes under Field Conditions. Molecules, 2015, 20, 16946-16969.	1.7	17
17	A fragrant neighborhood: volatile mediated bacterial interactions in soil. Frontiers in Microbiology, 2015, 6, 1212.	1.5	77
18	Assessment of Culturable Tea Rhizobacteria Isolated from Tea Estates of Assam, India for Growth Promotion in Commercial Tea Cultivars. Frontiers in Microbiology, 2015, 6, 1252.	1.5	52
19	Volatiles in Inter-Specific Bacterial Interactions. Frontiers in Microbiology, 2015, 6, 1412.	1.5	84
20	Effect of Three Training Systems on Grapes in a Wet Region of China: Yield, Incidence of Disease and Anthocyanin Compositions of Vitis vinifera cv. Cabernet Sauvignon. Molecules, 2015, 20, 18967-18987.	1.7	9
21	Deconstructing the pig sex metabolome: Targeted metabolomics in heavy pigs revealed sexual dimorphisms in plasma biomarkers and metabolic pathways1. Journal of Animal Science, 2015, 93, 5681-5693.	0.2	17
22	Levan Enhances Associated Growth of Bacteroides, Escherichia, Streptococcus and Faecalibacterium in Fecal Microbiota. PLoS ONE, 2015, 10, e0144042.	1.1	51
23	NMR Metabolomics Show Evidence for Mitochondrial Oxidative Stress in a Mouse Model of Polycystic Ovary Syndrome. Journal of Proteome Research, 2015, 14, 3284-3291.	1.8	22
24	Nontargeted Analysis Using Ultraperformance Liquid Chromatographyâ€“Quadrupole Time-of-Flight Mass Spectrometry Uncovers the Effects of Harvest Season on the Metabolites and Taste Quality of Tea (Camellia sinensis L.). Journal of Agricultural and Food Chemistry, 2015, 63, 9869-9878.	2.4	190
25	Annotation of the Staphylococcus aureus Metabolome Using Liquid Chromatography Coupled to High-Resolution Mass Spectrometry and Application to the Study of Methicillin Resistance. Journal of Proteome Research, 2015, 14, 4863-4875.	1.8	24
26	Potential for Dietary Ï‰-3 Fatty Acids to Prevent Nonalcoholic Fatty Liver Disease and Reduce the Risk of Primary Liver Cancer. Advances in Nutrition, 2015, 6, 694-702.	2.9	64

#	Article	IF	Citations
27	Metabolic Responses of Poplar to Apripona germari (Hope) as Revealed by Metabolite Profiling. International Journal of Molecular Sciences, 2016, 17, 923.	1.8	13
28	Metabolic Response to XD14 Treatment in Human Breast Cancer Cell Line MCF-7. International Journal of Molecular Sciences, 2016, 17, 1772.	1.8	9
29	Agronomic and Kernel Compositional Traits of Blue Maize Landraces from the Southwestern United States. Crop Science, 2016, 56, 2663-2674.	0.8	20
30	Non-invasive diagnosis of papillary thyroid microcarcinoma: a NMR-based metabolomics approach. Oncotarget, 2016, 7, 81768-81777.	0.8	37
31	The Effect of Aqueous Extract of Cinnamon on the Metabolome ofPlasmodium falciparumUsing¹HNMR Spectroscopy. Journal of Tropical Medicine, 2016, 2016, 1-5.	0.6	18
32	Processing and Visualization of Metabolomics Data Using R. , 0, , .		11
33	Phenolic and Chromatic Properties of Beibinghong Red Ice Wine during and after Vinification. Molecules, 2016, 21, 431.	1.7	12
34	Rapamycin transiently induces mitochondrial remodeling to reprogram energy metabolism in old hearts. Aging, 2016, 8, 314-327.	1.4	104
35	Phenotypic Modifications in Staphylococcus aureus Cells Exposed to High Concentrations of Vancomycin and Teicoplanin. Frontiers in Microbiology, 2016, 7, 13.	1.5	51
36	1H-NMR-Based Endometabolome Profiles of Burkholderia cenocepacia Clonal Variants Retrieved from a Cystic Fibrosis Patient during Chronic Infection. Frontiers in Microbiology, 2016, 7, 2024.	1.5	3
37	Plasma Biomarkers for Monitoring Brain Pathophysiology in FMR1 Premutation Carriers. Frontiers in Molecular Neuroscience, 2016, 9, 71.	1.4	24
38	Advantages and Pitfalls of Mass Spectrometry Based Metabolome Profiling in Systems Biology. International Journal of Molecular Sciences, 2016, 17, 632.	1.8	129
39	Clinical Metabolomics: The New Metabolic Window for Inborn Errors of Metabolism Investigations in the Post-Genomic Era. International Journal of Molecular Sciences, 2016, 17, 1167.	1.8	92
40	Urinary Metabolic Phenotyping Reveals Differences in the Metabolic Status of Healthy and Inflammatory Bowel Disease (IBD) Children in Relation to Growth and Disease Activity. International Journal of Molecular Sciences, 2016, 17, 1310.	1.8	24
41	The Impact of Soy Isoflavones on MCF-7 and MDA-MB-231 Breast Cancer Cells Using a Global Metabolomic Approach. International Journal of Molecular Sciences, 2016, 17, 1443.	1.8	53
42	Leaf Volatile Compounds and Associated Gene Expression during Short-Term Nitrogen Deficient Treatments in Cucumis Seedlings. International Journal of Molecular Sciences, 2016, 17, 1713.	1.8	6
43	Metabolomic Approaches to Explore Chemical Diversity of Human Breast-Milk, Formula Milk and Bovine Milk. International Journal of Molecular Sciences, 2016, 17, 2128.	1.8	39
44	Time Dependency of Chemodiversity and Biosynthetic Pathways: An LC-MS Metabolomic Study of Marine-Sourced Penicillium. Marine Drugs, 2016, 14, 103.	2.2	26

#	Article	IF	Citations
45	Cancer Metabolomics and the Human Metabolome Database. Metabolites, 2016, 6, 10.	1.3	116
46	Metabolomics: Bridging the Gap between Pharmaceutical Development and Population Health. Metabolites, 2016, 6, 20.	1.3	38
47	Vinegar Metabolomics: An Explorative Study of Commercial Balsamic Vinegars Using Gas Chromatography-Mass Spectrometry. Metabolites, 2016, 6, 22.	1.3	30
48	Effect of Raw Material, Pressing and Glycosidase on the Volatile Compound Composition of Wine Made From Goji Berries. Molecules, 2016, 21, 1324.	1.7	20
49	Is Western Diet-Induced Nonalcoholic Steatohepatitis in Ldlr-/- Mice Reversible?. PLoS ONE, 2016, 11, e0146942.	1.1	35
50	Discrimination of Basal Cell Carcinoma from Normal Skin Tissue Using High-Resolution Magic Angle Spinning 1H NMR Spectroscopy. PLoS ONE, 2016, 11, e0150328.	1.1	23
51	Metabolomics Revealed an Association of Metabolite Changes and Defective Growth in Methylobacterium extorquens AM1 Overexpressing ecm during Growth on Methanol. PLoS ONE, 2016, 11, e0154043.	1.1	25
52	Noninvasive Recognition and Biomarkers of Early Allergic Asthma in Cats Using Multivariate Statistical Analysis of NMR Spectra of Exhaled Breath Condensate. PLoS ONE, 2016, 11, e0164394.	1.1	7
53	Investigating the Influence of MoS2 Nanosheets on E. coli from Metabolomics Level. PLoS ONE, 2016, 11, e0167245.	1.1	42
54	Untargeted Metabolomics Reveals Dose-Response Characteristics for Effect of Rhubarb in a Rat Model of Cholestasis. Frontiers in Pharmacology, 2016, 7, 85.	1.6	33
55	Non-targeted Metabolite Profiling and Scavenging Activity Unveil the Nutraceutical Potential of Psyllium (Plantago ovata Forsk). Frontiers in Plant Science, 2016, 7, 431.	1.7	48
56	Nitric Oxide Overproduction in Tomato shr Mutant Shifts Metabolic Profiles and Suppresses Fruit Growth and Ripening. Frontiers in Plant Science, 2016, 7, 1714.	1.7	57
57	Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of Brachypodium distachyon. Frontiers in Plant Science, 2016, 7, 1751.	1.7	53
58	Potential Anticancer Effects of Polyphenols from Chestnut Shell Extracts: Modulation of Cell Growth, and Cytokinomic and Metabolomic Profiles. Molecules, 2016, 21, 1411.	1.7	57
59	Metabolomics in nutrition researchâ€“a powerful window into nutritional metabolism. Essays in Biochemistry, 2016, 60, 451-458.	2.1	22
60	Combining systems pharmacology, transcriptomics, proteomics, and metabolomics to dissect the therapeutic mechanism of Chinese herbal Bufei Jianpi formula for application to COPD. International Journal of COPD, 2016, 11, 553.	0.9	7
61	Untargeted Metabolomics of Tomato Plants after Root-Knot Nematode Infestation. Journal of Agricultural and Food Chemistry, 2016, 64, 5963-5968.	2.4	44
62	Drought effects on C, N, and P nutrition and the antioxidative system of beech seedlings depend on geographic origin. Journal of Plant Nutrition and Soil Science, 2016, 179, 135-150.	1.1	26

#	Article	IF	Citations
63	The effect of linoleic acid on the Sauvignon blanc fermentation by different wine yeast strains. FEMS Yeast Research, 2016, 16, fow050.	1.1	27
64	Shifting Nicotiana attenuata's diurnal rhythm does not alter its resistance to the specialist herbivore Manduca sexta. Journal of Integrative Plant Biology, 2016, 58, 656-668.	4.1	13
65	Quantitative and qualitative evaluation of kernel anthocyanins from southwestern United States blue corn. Journal of the Science of Food and Agriculture, 2016, 96, 4542-4552.	1.7	46
66	Ocular Fluid Analysis in Children Reveals Interleukinâ€29/Interferonâ€Î»1 as a Biomarker for Juvenile Idiopathic Arthritisâ€“Associated Uveitis. Arthritis and Rheumatology, 2016, 68, 1769-1779.	2.9	33
67	Pharmacometabonomic Prediction of Busulfan Clearance in Hematopoietic Cell Transplant Recipients. Journal of Proteome Research, 2016, 15, 2802-2811.	1.8	23
68	The alpha-1A adrenergic receptor agonist A61603 reduces cardiac polyunsaturated fatty acid and endocannabinoid metabolites associated with inflammation in vivo. Metabolomics, 2016, 12, 1.	1.4	8
69	HORSE SPECIES SYMPOSIUM: Canine intestinal microbiology and metagenomics: From phylogeny to function1. Journal of Animal Science, 2016, 94, 2247-2261.	0.2	24
70	Impact of different types of stoppers on sensorial and phenolic characteristics evolution during a bottle storage time of a white wine from Chardonnay grape variety. Journal of Food Science and Technology, 2016, 53, 4043-4055.	1.4	7
71	Application of metabolomics to assess the impact of Cu(OH)2 nanopesticide on the nutritional value of lettuce (Lactuca sativa): Enhanced Cu intake and reduced antioxidants. NanoImpact, 2016, 3-4, 58-66.	2.4	47
72	Metabolomic profiling predicts outcome of rituximab therapy in rheumatoid arthritis. RMD Open, 2016, 2, e000289.	1.8	31
73	Perturbational Profiling of Metabolites in Patient Fibroblasts Implicates Î±-Aminoadipate as a Potential Biomarker for Bipolar Disorder. Molecular Neuropsychiatry, 2016, 2, 97-106.	3.0	10
74	Stool-based biomarkers of interstitial cystitis/bladder pain syndrome. Scientific Reports, 2016, 6, 26083.	1.6	53
75	Serum phosphatidylethanolamine levels distinguish benign from malignant solitary pulmonary nodules and represent a potential diagnostic biomarker for lung cancer. Cancer Biomarkers, 2016, 16, 609-617.	0.8	42
76	Metabolic Profiling and Metabolomic Procedures for Investigating the Biodegradation of Hydrocarbons. Springer Protocols, 2016, , 111-161.	0.1	3
77	Life span extension by targeting a link between metabolism and histone acetylation in Drosophila. EMBO Reports, 2016, 17, 455-469.	2.0	116
78	Equipping Physiologists with an Informatics Tool Chest: Toward an Integerated Mitochondrial Phenome. Handbook of Experimental Pharmacology, 2016, 240, 377-401.	0.9	2
79	Cardiovascular proteomics in the era of big data: experimental and computational advances. Clinical Proteomics, 2016, 13, 23.	1.1	9
80	Quantitative extracellular matrix proteomics to study mammary and liver tissue microenvironments. International Journal of Biochemistry and Cell Biology, 2016, 81, 223-232.	1.2	89

#	Article	IF	Citations
81	Performance Evaluation and Online Realization of Data-driven Normalization Methods Used in LC/MS based Untargeted Metabolomics Analysis. Scientific Reports, 2016, 6, 38881.	1.6	117
82	Leucine-rich diet alters the 1H-NMR based metabolomic profile without changing the Walker-256 tumour mass in rats. BMC Cancer, 2016, 16, 764.	1.1	28
83	Distinctive Pattern of Serum Elements During the Progression of Alzheimerâ€™s Disease. Scientific Reports, 2016, 6, 22769.	1.6	67
84	Updates in metabolomics tools and resources: 2014â€“2015. Electrophoresis, 2016, 37, 86-110.	1.3	110
86	Targeted Metabolomics: The Next Generation of Clinical Chemistry!. Translational Bioinformatics, 2016, , 175-211.	0.0	2
87	Novel Metabolite Biomarkers of Huntingtonâ€™s Disease As Detected by High-Resolution Mass Spectrometry. Journal of Proteome Research, 2016, 15, 1592-1601.	1.8	31
88	Bioinformatics for the synthetic biology of natural products: integrating across the Designâ€“Buildâ€“Test cycle. Natural Product Reports, 2016, 33, 925-932.	5.2	58
89	Stress transgenerationally programs metabolic pathways linked to altered mental health. Cellular and Molecular Life Sciences, 2016, 73, 4547-4557.	2.4	47
90	Heatmapper: web-enabled heat mapping for all. Nucleic Acids Research, 2016, 44, W147-W153.	6.5	1,766
91	Ultrahigh-Performance Liquid Chromatographyâ€“High-Resolution Quadrupole Time-of-Flight Mass Spectrometry Based Metabolomics Reveals Key Differences between Brachiaria decumbens and B. brizantha, Two Similar Pastures with Different Toxicities. Journal of Agricultural and Food Chemistry, 2016, 64, 4686-4694.	2.4	6
92	Evolution of volatile compounds, aroma attributes, and sensory perception in bottle-aged red wines and their correlation. European Food Research and Technology, 2016, 242, 1937-1948.	1.6	25
93	Computational approaches in target identification and drug discovery. Computational and Structural Biotechnology Journal, 2016, 14, 177-184.	1.9	270
94	Metabolomic Analyses Reveal Distinct Change of Metabolites and Quality of Green Tea during the Short Duration of a Single Spring Season. Journal of Agricultural and Food Chemistry, 2016, 64, 3302-3309.	2.4	94
95	Metabolic and transcriptomic changes induced in host during hypersensitive response mediated resistance in rice against the Asian rice gall midge. Rice, 2016, 9, 5.	1.7	22
96	Hazardous and essential trace elements profile in the different soft tissues of Lithophaga lithophaga (Linnaeus, 1758) from Southern Adriatic Sea (Italy). Toxicological and Environmental Chemistry, 2016, 98, 877-885.	0.6	9
97	Quantitative and qualitative shifts in defensive metabolites define chemical defense investment during leaf development in <scp>I</scp>nga, a genus of tropical trees. Ecology and Evolution, 2016, 6, 478-492.	0.8	70
98	Analysis of metabolomic data: tools, current strategies and future challenges for omics data integration. Briefings in Bioinformatics, 2017, 18, bbw031.	3.2	121
99	Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth. Diabetes, 2016, 65, 2039-2050.	0.3	49

#	Article	IF	Citations
100	UHPLCâ€“MS-based metabolomics analysis on mice bearing neoplasm (H22) for hispidulin. Journal of Pharmaceutical and Biomedical Analysis, 2016, 125, 310-318.	1.4	9
101	Urinary UPLC-MS metabolomics dissecting the underlying mechanisms of Huaxian capsule protects against sepsis. RSC Advances, 2016, 6, 40436-40441.	1.7	27
102	Metabolic and transcriptomic profiling of Streptococcus intermedius during aerobic and anaerobic growth. Metabolomics, 2016, 12, 1.	1.4	17
103	Digestive-resistant carbohydrates affect lipid metabolism in rats. Metabolomics, 2016, 12, 1.	1.4	6
104	Non-destructive characterisation of mesenchymal stem cell differentiation using LC-MS-based metabolite footprinting. Analyst, The, 2016, 141, 3776-3787.	1.7	23
105	Impact of chlorogenic acids from coffee on urine metabolome in healthy human subjects. Food Research International, 2016, 89, 1064-1070.	2.9	26
106	Serum metabolomic markers for traumatic brain injury: a mouse model. Metabolomics, 2016, 12, 1.	1.4	22
107	Diagnostic value of glutamate with 2-hydroxyglutarate in magnetic resonance spectroscopy forIDH1mutant glioma. Neuro-Oncology, 2016, 18, now090.	0.6	56
108	Effects of n-6 and n-3 polyunsaturated acid-rich soybean phosphatidylcholine on membrane lipid profile and cryotolerance of human sperm. Fertility and Sterility, 2016, 106, 273-283.e6.	0.5	21
109	Metabolomic analysis reveals metabolic disturbances in the prefrontal cortex of the lipopolysaccharide-induced mouse model of depression. Behavioural Brain Research, 2016, 308, 115-127.	1.2	43
110	Occurrence of retained placenta is preceded by an inflammatory state and alterations of energy metabolism in transition dairy cows. Journal of Animal Science and Biotechnology, 2016, 7, 26.	2.1	35
111	Challenges in biomarker discovery with MALDI-TOF MS. Clinica Chimica Acta, 2016, 458, 84-98.	0.5	46
112	Posttranslational modulation of FoxO1 contributes to cardiac remodeling in post-ischemic heart failure. Atherosclerosis, 2016, 249, 148-156.	0.4	20
113	Metabolic profiling of antioxidant supplement with phytochemicals using plasma 1H NMR-based metabolomics in humans. Journal of Functional Foods, 2016, 24, 112-121.	1.6	6
114	A Workflow for Studying Specialized Metabolism in Nonmodel Eukaryotic Organisms. Methods in Enzymology, 2016, 576, 69-97.	0.4	18
115	Power Analysis and Sample Size Determination in Metabolic Phenotyping. Analytical Chemistry, 2016, 88, 5179-5188.	3.2	95
116	Urinary metabolomic profiling in mice with diet-induced obesity and type 2 diabetes mellitus after treatment with metformin, vildagliptin and their combination. Molecular and Cellular Endocrinology, 2016, 431, 88-100.	1.6	34
117	LCâ€“MS-based metabolome analysis on steroid metabolites from the starfish Patiria (=Asterina) pectinifera in conditions of active feeding and stresses. Metabolomics, 2016, 12, 1.	1.4	8

#	Article	IF	Citations
118	The total and mitochondrial lipidome of Artemia franciscana encysted embryos. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1727-1735.	1.2	3
119	Mutations in mitochondrial enzyme GPT2 cause metabolic dysfunction and neurological disease with developmental and progressive features. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5598-607.	3.3	51
120	Using MetaboAnalyst 3.0 for Comprehensive Metabolomics Data Analysis. Current Protocols in Bioinformatics, 2016, 55, 14.10.1-14.10.91.	25.8	1,293
121	Integration of targeted metabolomics and transcriptomics identifies deregulation of phosphatidylcholine metabolism in Huntingtonâ€™s disease peripheral blood samples. Metabolomics, 2016, 12, 137.	1.4	43
122	A novel method for serum lipoprotein profiling using high performance capillary isotachophoresis. Analytica Chimica Acta, 2016, 944, 57-69.	2.6	5
123	Addiction to Coupling of the Warburg Effect with Glutamine Catabolism in Cancer Cells. Cell Reports, 2016, 17, 821-836.	2.9	132
124	Changes in the rumen microbiome and metabolites reveal the effect of host genetics on hybrid crosses. Environmental Microbiology Reports, 2016, 8, 1016-1023.	1.0	40
125	Metabolic analysis of two contrasting wild barley genotypes grown hydroponically reveals adaptive strategies in response to low nitrogen stress. Journal of Plant Physiology, 2016, 206, 59-67.	1.6	38
126	A metabolomics approach to characterize phenotypes of metabolic transition from late pregnancy to early lactation in dairy cows. Metabolomics, 2016, 12, 1.	1.4	52
127	Biomarkers defining the metabolic age of red blood cells during cold storage. Blood, 2016, 128, e43-e50.	0.6	115
128	Novel volatiles of skin-borne bacteria inhibit the growth of Gram-positive bacteria and affect quorum-sensing controlled phenotypes of Gram-negative bacteria. Systematic and Applied Microbiology, 2016, 39, 503-515.	1.2	35
129	Nat1 Deficiency Is Associated with Mitochondrial Dysfunction and Exercise Intolerance in Mice. Cell Reports, 2016, 17, 527-540.	2.9	35
130	NAMPT-Mediated NAD+ Biosynthesis Is Essential for Vision In Mice. Cell Reports, 2016, 17, 69-85.	2.9	150
131	Can a metabolomics-based approach be used as alternative to analyse fatty acid methyl esters from soil microbial communities?. Soil Biology and Biochemistry, 2016, 103, 417-428.	4.2	14
132	Synergizing Proteomic and Metabolomic Data to Study Cardiovascular Systems. , 2016, , 365-388.		0
133	Tracking biochemical changes correlated with ultra-weak photon emission using metabolomics. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 237-245.	1.7	16
134	Multivariate data validation for investigating primary HCMV infection in pregnancy. Data in Brief, 2016, 9, 220-230.	0.5	22
135	Metabolomics to Detect Response of Lettuce (Lactuca sativa) to Cu(OH)₂ Nanopesticides: Oxidative Stress Response and Detoxification Mechanisms. Environmental Science & Technology, 2016, 50, 9697-9707.	4.6	170

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136	Stable Isotope Resolved Metabolomics Reveals the Role of Anabolic and Catabolic Processes in Glyphosate-Induced Amino Acid Accumulation in Amaranthus palmeri Biotypes. Journal of Agricultural and Food Chemistry, 2016, 64, 7040-7048.	2.4	43
137	A Transcript-Specific eIF3 Complex Mediates Global Translational Control of Energy Metabolism. Cell Reports, 2016, 16, 1891-1902.	2.9	52
138	1â€²-Acetoxychavicol acetate ameliorates age-related spatial memory deterioration by increasing serum ketone body production as a complementary energy source for neuronal cells. Chemico-Biological Interactions, 2016, 257, 101-109.	1.7	7
139	Jasmonateâ€mediated stomatal closure under elevated <scp>CO</scp>₂ revealed by timeâ€resolved metabolomics. Plant Journal, 2016, 88, 947-962.	2.8	87
140	Lung injury-induced skeletal muscle wasting in aged mice is linked to alterations in long chain fatty acid metabolism. Metabolomics, 2016, 12, 1.	1.4	8
141	Metabolic analysis of liquid formulations of organic manures and its influence on growth and yield of Solanum lycopersicum L. (tomato) crop in field. Biocatalysis and Agricultural Biotechnology, 2016, 8, 50-54.	1.5	10
142	1H NMR-Linked Metabolomics Analysis of Liver from a Mouse Model of NP-C1 Disease. Journal of Proteome Research, 2016, 15, 3511-3527.	1.8	13
143	Steroid Metabolomic Disease Signature of Nonsyndromic Childhood Obesity. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4329-4337.	1.8	30
144	Coupling of gel-based 2-DE and 1-DE shotgun proteomics approaches to dig deep into the leaf senescence proteome of Glycine max. Journal of Proteomics, 2016, 148, 65-74.	1.2	30
145	Exosomal Proteins as Diagnostic Biomarkers inÂLungÂCancer. Journal of Thoracic Oncology, 2016, 11, 1701-1710.	0.5	213
146	Utility of Novel Plasma Metabolic Markers in the Diagnosis of Pediatric Tuberculosis: A Classification and Regression Tree Analysis Approach. Journal of Proteome Research, 2016, 15, 3118-3125.	1.8	20
147	Untargeted mass spectrometric approach in metabolic healthy offspring of patients with type 2 diabetes reveals medium-chain acylcarnitine as potential biomarker for lipid induced glucose intolerance (LGIT). Archives of Physiology and Biochemistry, 2016, 122, 266-280.	1.0	2
148	Primary metabolic profiling of Egyptian broomrape (Phelipanche aegyptiaca) compared to its host tomato roots. Journal of Plant Physiology, 2016, 205, 11-19.	1.6	18
149	Smartphone Analytics: Mobilizing the Lab into the Cloud for Omic-Scale Analyses. Analytical Chemistry, 2016, 88, 9753-9758.	3.2	14
150	Omic Biological Markers. , 2016, , 63-80.		0
151	Hypertensive patients exhibit an altered metabolism. A specific metabolite signature in urine is able to predict albuminuria progression. Translational Research, 2016, 178, 25-37.e7.	2.2	28
152	Chemical profiling of cerebrospinal fluid by multiple reaction monitoring mass spectrometry. Analyst, The, 2016, 141, 5252-5255.	1.7	29
153	Metabolic features of chronic fatigue syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5472-80.	3.3	277

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154	An Organic Anion Transporter 1 (OAT1)-centered Metabolic Network. Journal of Biological Chemistry, 2016, 291, 19474-19486.	1.6	39
155	GC-TOF-MS based metabolomics and ICP-MS based metallomics of cucumber (Cucumis sativus) fruits reveal alteration of metabolites profile and biological pathway disruption induced by nano copper. Environmental Science: Nano, 2016, 3, 1114-1123.	2.2	58
156	GC-TOF/MS-based metabolomic strategy for combined toxicity effects of deoxynivalenol and zearalenone on murine macrophage ANA-1 cells. Toxicon, 2016, 120, 175-184.	0.8	17
157	Investigating the metabolic fingerprint of term infants with normal and increased fetal growth. RSC Advances, 2016, 6, 79325-79334.	1.7	11
158	1H NMR-based metabolic study reveals the improvements of bitter melon (Momordica charantia) on energy metabolism in diet-induced obese mouse. Pharmaceutical Biology, 2016, 54, 3103-3112.	1.3	6
159	Metabolomic profiling highlights oxidative damages in platelet concentrates treated for pathogen inactivation and shows protective role of urate. Metabolomics, 2016, 12, 1.	1.4	18
160	NKD Transcription Factors Are Central Regulators of Maize Endosperm Development. Plant Cell, 2016, 28, 2916-2936.	3.1	56
161	Glutaminolysis and Fumarate Accumulation Integrate Immunometabolic and Epigenetic Programs in Trained Immunity. Cell Metabolism, 2016, 24, 807-819.	7.2	584
162	System biology analysis of long-term effect and mechanism of Bufei Yishen on COPD revealed by system pharmacology and 3-omics profiling. Scientific Reports, 2016, 6, 25492.	1.6	23
163	Identification of inhibitors that dually target the new permeability pathway and dihydroorotate dehydrogenase in the blood stage of Plasmodium falciparum. Scientific Reports, 2016, 6, 37502.	1.6	38
164	Untargeted plasma and tissue metabolomics in rats with chronic kidney disease given AST-120. Scientific Reports, 2016, 6, 22526.	1.6	56
165	Manual of Cardiovascular Proteomics. , 2016, , .		4
166	Untargeted Metabolomics Strategiesâ€"Challenges and Emerging Directions. Journal of the American Society for Mass Spectrometry, 2016, 27, 1897-1905.	1.2	789
167	Multiplatform serum metabolic phenotyping combined with pathway mapping to identify biochemical differences in smokers. Bioanalysis, 2016, 8, 2023-2043.	0.6	22
168	¹H NMR To Explore the Metabolome of Exhaled Breath Condensate in Î±₁-Antitrypsin Deficient Patients: A Pilot Study. Journal of Proteome Research, 2016, 15, 4569-4578.	1.8	33
169	Entropy-Based Network Representation of the Individual Metabolic Phenotype. Journal of Proteome Research, 2016, 15, 3298-3307.	1.8	23
170	Qualitative Alterations of Bacterial Metabolome after Exposure to Metal Nanoparticles with Bactericidal Properties: A Comprehensive Workflow Based on ¹H NMR, UHPLC-HRMS, and Metabolic Databases. Journal of Proteome Research, 2016, 15, 3322-3330.	1.8	50
171	Training in metabolomics research. II. Processing and statistical analysis of metabolomics data, metabolite identification, pathway analysis, applications of metabolomics and its future. Journal of Mass Spectrometry, 2016, 51, 535-548.	0.7	49

#	Article	IF	Citations
172	Yap reprograms glutamine metabolism to increase nucleotide biosynthesis and enable liver growth. Nature Cell Biology, 2016, 18, 886-896.	4.6	168
173	Metabolic Effects of Cobalt Ferrite Nanoparticles on Cervical Carcinoma Cells and Nontumorigenic Keratinocytes. Journal of Proteome Research, 2016, 15, 4337-4348.	1.8	20
174	Discovery of novel xylosides in co-culture of basidiomycetes Trametes versicolor and Ganoderma applanatum by integrated metabolomics and bioinformatics. Scientific Reports, 2016, 6, 33237.	1.6	46
175	Comprehensive Plasma Metabolomic Analyses of Atherosclerotic Progression Reveal Alterations in Glycerophospholipid and Sphingolipid Metabolism in Apolipoprotein E-deficient Mice. Scientific Reports, 2016, 6, 35037.	1.6	68
176	Rapid Evaporative Ionisation Mass Spectrometry (REIMS) Provides Accurate Direct from Culture Species Identification within the Genus Candida. Scientific Reports, 2016, 6, 36788.	1.6	48
177	Serum metabolomics analysis of patients with chikungunya and dengue mono/co-infections reveals distinct metabolite signatures in the three disease conditions. Scientific Reports, 2016, 6, 36833.	1.6	34
178	A High-Fat High-Sucrose Diet Rapidly Alters Muscle Integrity, Inflammation and Gut Microbiota in Male Rats. Scientific Reports, 2016, 6, 37278.	1.6	85
179	Identification of sex-specific urinary biomarkers for major depressive disorder by combined application of NMR- and GCâ€“MS-based metabonomics. Translational Psychiatry, 2016, 6, e955-e955.	2.4	53
180	Metabolic characterization of the natural progression of chronic hepatitis B. Genome Medicine, 2016, 8, 64.	3.6	67
181	Concurrent profiling of polar metabolites and lipids in human plasma using HILIC-FTMS. Scientific Reports, 2016, 6, 36490.	1.6	26
182	Metabolomic Profiling of Mice Serum during Toxoplasmosis Progression Using Liquid Chromatography-Mass Spectrometry. Scientific Reports, 2016, 6, 19557.	1.6	78
183	Cold tolerance is unaffected by oxygen availability despite changes in anaerobic metabolism. Scientific Reports, 2016, 6, 32856.	1.6	20
184	Discovery, screening and evaluation of a plasma biomarker panel for subjects with psychological suboptimal health state using 1H-NMR-based metabolomics profiles. Scientific Reports, 2016, 6, 33820.	1.6	30
185	Sucrose Nonfermenting-Related Kinase Enzymeâ€“Mediated Rho-Associated Kinase Signaling is Responsible for Cardiac Function. Circulation: Cardiovascular Genetics, 2016, 9, 474-486.	5.1	13
186	Red raspberry decreases heart biomarkers of cardiac remodeling associated with oxidative and inflammatory stress in obese diabetic db/db mice. Food and Function, 2016, 7, 4944-4955.	2.1	38
187	Almond Consumption during Energy Restriction Lowers Truncal Fat and Blood Pressure in Compliant Overweight or Obese Adults. Journal of Nutrition, 2016, 146, 2513-2519.	1.3	52
188	Merging Metabolomics, Genetics, and Genomics in Livestock to Dissect Complex Production Traits. , 2016, , 43-62.		4
189	Chilling slows anaerobic metabolism to improve anoxia tolerance of insects. Metabolomics, 2016, 12, 1.	1.4	11

#	Article	IF	Citations
190	Validation of highly sensitive simultaneous targeted and untargeted analysis of keto-steroids by Girard P derivatization and stable isotope dilution-liquid chromatography-high resolution mass spectrometry. Steroids, 2016, 116, 60-66.	0.8	26
191	The Poly (ADP-Ribose) Polymerase Inhibitor Veliparib and Radiation Cause Significant Cell Line Dependent Metabolic Changes in Breast Cancer Cells. Scientific Reports, 2016, 6, 36061.	1.6	25
192	Early matrix metalloproteinase-9 inhibition post-myocardial infarction worsens cardiac dysfunction by delaying inflammation resolution. Journal of Molecular and Cellular Cardiology, 2016, 100, 109-117.	0.9	52
193	Enrichment of the lung microbiome with oral taxa is associated with lung inflammation of a Th17 phenotype. Nature Microbiology, 2016, 1, 16031.	5.9	436
194	Metabolomics approach reveals metabolic disorders and potential biomarkers associated with the developmental toxicity of tetrabromobisphenol A and tetrachlorobisphenol A. Scientific Reports, 2016, 6, 35257.	1.6	18
195	Characterization of factors underlying the metabolic shifts in developing kernels of colored maize. Scientific Reports, 2016, 6, 35479.	1.6	22
196	Systems Biology in Animal Production and Health, Vol. 1. , 2016, , .		0
197	Siderophore biosynthesis coordinately modulated the virulence-associated interactive metabolome of uropathogenic Escherichia coli and human urine. Scientific Reports, 2016, 6, 24099.	1.6	22
198	Rapid Detection of Necrosis in Breast Cancer with Desorption Electrospray Ionization Mass Spectrometry. Scientific Reports, 2016, 6, 35374.	1.6	57
199	TPhP exposure disturbs carbohydrate metabolism, lipid metabolism, and the DNA damage repair system in zebrafish liver. Scientific Reports, 2016, 6, 21827.	1.6	92
200	Biomarker and pathway analyses of urine metabolomics in dairy cows when corn stover replaces alfalfa hay. Journal of Animal Science and Biotechnology, 2016, 7, 49.	2.1	40
201	Informatics for Metabolomics. Advances in Experimental Medicine and Biology, 2016, 939, 91-115.	0.8	28
202	Technical Challenges in Mass Spectrometry-Based Metabolomics. Mass Spectrometry, 2016, 5, S0052-S0052.	0.2	38
203	Subpathway-CorSP: Identification of metabolic subpathways via integrating expression correlations and topological features between metabolites and genes of interest within pathways. Scientific Reports, 2016, 6, 33262.	1.6	29
204	Metabolic adaptations in a rangeâ€expanding arthropod. Ecology and Evolution, 2016, 6, 6556-6564.	0.8	8
205	Metabolomics in transfusion medicine. Transfusion, 2016, 56, 980-993.	0.8	104
206	Metabolic and biochemical changes in streptozotocin induced obese-diabetic rats treated with Phyllanthus niruri extract. Journal of Pharmaceutical and Biomedical Analysis, 2016, 128, 302-312.	1.4	41
207	Human amylin proteotoxicity impairs protein biosynthesis, and alters major cellular signaling pathways in the heart, brain and liver of humanized diabetic rat model in vivo. Metabolomics, 2016, 12, 1.	1.4	16

#	Article	IF	Citations
208	Development of chemical isotope labeling liquid chromatography mass spectrometry for silkworm hemolymph metabolomics. Analytica Chimica Acta, 2016, 942, 1-11.	2.6	9
209	Transcriptomics, proteomics and metabolomics driven biomarker discovery in COPD: an update. Expert Review of Molecular Diagnostics, 2016, 16, 897-913.	1.5	23
210	Effect of atmospheric carbon dioxide levels and nitrate fertilization on glucosinolate biosynthesis in mechanically damaged Arabidopsis plants. BMC Plant Biology, 2016, 16, 68.	1.6	16
211	miRNet - dissecting miRNA-target interactions and functional associations through network-based visual analysis. Nucleic Acids Research, 2016, 44, W135-W141.	6.5	371
212	Approaches to Sample Size Determination for Multivariate Data: Applications to PCA and PLS-DA of Omics Data. Journal of Proteome Research, 2016, 15, 2379-2393.	1.8	68
213	Impairment of lysophospholipid metabolism in obesity: altered plasma profile and desensitization to the modulatory properties of nâ€“3 polyunsaturated fatty acids in a randomized controlled trial. American Journal of Clinical Nutrition, 2016, 104, 266-279.	2.2	60
214	Probing Cancer Cell Metabolism Using NMR Spectroscopy. Advances in Experimental Medicine and Biology, 2016, 899, 89-111.	0.8	10
215	Tumor Microenvironment. Advances in Experimental Medicine and Biology, 2016, , .	0.8	3
216	Metabolic signatures of Huntington's disease (HD): 1 H NMR analysis of the polar metabolome in post-mortem human brain. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1675-1684.	1.8	44
217	Dairy cows affected by ketosis show alterations in innate immunity and lipid and carbohydrate metabolism during the dry off period and postpartum. Research in Veterinary Science, 2016, 107, 246-256.	0.9	57
218	Salivary Metabolite Fingerprint of Type 1 Diabetes in Young Children. Journal of Proteome Research, 2016, 15, 2491-2499.	1.8	38
219	SMART: Statistical Metabolomics Analysisâ€”An R Tool. Analytical Chemistry, 2016, 88, 6334-6341.	3.2	24
220	Oral intake of genetically engineered high-carotenoid corn ameliorates hepatomegaly and hepatic steatosis in PTEN haploinsufficient mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 526-535.	1.8	6
221	Global Rebalancing of Cellular Resources by Pleiotropic Point Mutations Illustrates a Multi-scale Mechanism of Adaptive Evolution. Cell Systems, 2016, 2, 260-271.	2.9	107
222	Characterisation of the metabolome of ocular tissues and post-mortem changes in the rat retina. Experimental Eye Research, 2016, 149, 8-15.	1.2	14
223	Comprehensive molecular characterization of Methylobacterium extorquens AM1 adapted for 1-butanol tolerance. Biotechnology for Biofuels, 2016, 9, 84.	6.2	42
224	Amino acids in a targeted versus a non-targeted metabolomics LC-MS/MS assay. Are the results consistent?. Clinical Biochemistry, 2016, 49, 955-961.	0.8	32
225	Metabolomics as a Challenging Approach for Medicinal Chemistry and Personalized Medicine. Journal of Medicinal Chemistry, 2016, 59, 8649-8666.	2.9	46

#	Article	IF	Citations
226	Primary HCMV infection in pregnancy from classic data towards metabolomics: An exploratory analysis. Clinica Chimica Acta, 2016, 460, 23-32.	0.5	23
227	A Comprehensive Investigation toward the Indicative Proteins of Bladder Cancer in Urine: From Surveying Cell Secretomes to Verifying Urine Proteins. Journal of Proteome Research, 2016, 15, 2164-2177.	1.8	19
228	Introduction to Cheminformatics. Current Protocols in Bioinformatics, 2016, 53, 14.1.1-14.1.21.	25.8	15
229	Altered metabolite accumulation in tomato fruits by coexpressing a feedbackâ€insensitive AroG and the Ph ODO 1 MYB â€type transcription factor. Plant Biotechnology Journal, 2016, 14, 2300-2309.	4.1	22
230	Novel personalized pathway-based metabolomics models reveal key metabolic pathways for breast cancer diagnosis. Genome Medicine, 2016, 8, 34.	3.6	122
231	Mechanistic underpinnings of dehydration stress in the American dog tick revealed through RNA-Seq and metabolomics. Journal of Experimental Biology, 2016, 219, 1808-1819.	0.8	41
232	Effects of synthetic large-scale genome reduction on metabolism and metabolic preferences in a nutritionally complex environment. Metabolomics, 2016, 12, 1.	1.4	18
233	Metabolomics in multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 451-460.	1.4	49
234	Fatty Acid Binding Protein 5 Modulates Docosahexaenoic Acid-Induced Recovery in Rats Undergoing Spinal Cord Injury. Journal of Neurotrauma, 2016, 33, 1436-1449.	1.7	21
235	Evaluation of Firefighter Exposure to Wood Smoke during Training Exercises at Burn Houses. Environmental Science & Technology, 2016, 50, 1536-1543.	4.6	64
236	Lipidomics and H218O labeling techniques reveal increased remodeling of DHA-containing membrane phospholipids associated with abnormal locomotor responses in Î±-tocopherol deficient zebrafish (danio rerio) embryos. Redox Biology, 2016, 8, 165-174.	3.9	25
237	A roadmap for the XCMS family of software solutions in metabolomics. Current Opinion in Chemical Biology, 2016, 30, 87-93.	2.8	115
238	Blood transcriptomics and metabolomics for personalized medicine. Computational and Structural Biotechnology Journal, 2016, 14, 1-7.	1.9	73
239	A hydrophilic interaction liquid chromatographyâ€“mass spectrometry (HILICâ€“MS) based metabolomics study on colour stability of ovine meat. Meat Science, 2016, 117, 163-172.	2.7	58
240	Improved batch correction in untargeted MS-based metabolomics. Metabolomics, 2016, 12, 88.	1.4	167
241	Xanthohumol improves dysfunctional glucose and lipid metabolism in diet-induced obese C57BL/6J mice. Archives of Biochemistry and Biophysics, 2016, 599, 22-30.	1.4	69
242	Optimization of metabolomics of defined in vitro gut microbial ecosystems. International Journal of Medical Microbiology, 2016, 306, 280-289.	1.5	28
243	Evolution of tryptophan and its foremost metabolitesâ€™ concentrations in milk and fermented dairy products. PharmaNutrition, 2016, 4, 62-67.	0.8	17

#	Article	IF	Citations
244	Single-cell mass spectrometry with multi-solvent extraction identifies metabolic differences between left and right blastomeres in the 8-cell frog (Xenopus) embryo. Analyst, The, 2016, 141, 3648-3656.	1.7	76
245	Application of Market Basket Analysis for the Visualization of Transaction Data Based on Human Lifestyle and Spectroscopic Measurements. Analytical Chemistry, 2016, 88, 2714-2719.	3.2	28
246	Development and Evaluation of a Parallel Reaction Monitoring Strategy for Large-Scale Targeted Metabolomics Quantification. Analytical Chemistry, 2016, 88, 4478-4486.	3.2	91
247	Trace elements in sheep and goat milk samples from Apulia and Basilicata regions (Italy): Valuation by multivariate data analysis. Small Ruminant Research, 2016, 135, 60-65.	0.6	19
248	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. Analyst, The, 2016, 141, 2155-2164.	1.7	106
249	Identification of candidate biomarkers of brain damage in a mouse model of closed head injury: a metabolomic pilot study. Metabolomics, 2016, 12, 1.	1.4	15
250	Global Urine Metabolomics in Patients Treated with First-Line Tuberculosis Drugs and Identification of a Novel Metabolite of Ethambutol. Antimicrobial Agents and Chemotherapy, 2016, 60, 2257-2264.	1.4	21
251	Quantitative determination of ultra-trace carbazoles in sediments in the coastal environment. Chemosphere, 2016, 150, 586-595.	4.2	59
252	Mass Spectrometry in Plant-omics. Analytical Chemistry, 2016, 88, 3422-3434.	3.2	68
253	Time-Series Transcriptomics Reveals That AGAMOUS-LIKE22 Affects Primary Metabolism and Developmental Processes in Drought-Stressed Arabidopsis. Plant Cell, 2016, 28, 345-366.	3.1	92
254	Serum metabolomic profiling in patients with systemic lupus erythematosus by GC/MS. Modern Rheumatology, 2016, 26, 914-922.	0.9	77
255	¹H NMR-based urine metabolomics for the evaluation of kidney injury in Wistar rats by 3-MCPD. Toxicology Research, 2016, 5, 689-696.	0.9	14
256	The study on serum and urine of renal interstitial fibrosis rats induced by unilateral ureteral obstruction based on metabonomics and network analysis methods. Analytical and Bioanalytical Chemistry, 2016, 408, 2607-2619.	1.9	17
257	Siderophore Biosynthesis Governs the Virulence of Uropathogenic Escherichia coli by Coordinately Modulating the Differential Metabolism. Journal of Proteome Research, 2016, 15, 1323-1332.	1.8	24
258	Metabolic and transcriptional response of central metabolism affected by root endophytic fungus Piriformospora indica under salinity in barley. Plant Molecular Biology, 2016, 90, 699-717.	2.0	73
259	High resolution metabolomic analysis of ASD human brain uncovers novel biomarkers of disease. Metabolomics, 2016, 12, 1.	1.4	15
260	Emerging applications of metabolomics in drug discovery and precision medicine. Nature Reviews Drug Discovery, 2016, 15, 473-484.	21.5	1,029
261	Impact of the [GAR⁺] Prion on Fermentation and Bacterial Community Composition withSaccharomyces cerevisiaeUCD932. American Journal of Enology and Viticulture, 2016, 67, 296-307.	0.9	22

#	Article	IF	Citations
262	Serum and Muscle Metabolomics for the Prediction of Ultimate pH, a Key Factor for Chicken-Meat Quality. Journal of Proteome Research, 2016, 15, 1168-1178.	1.8	83
263	Unbiased Metabolomic Investigation of Alzheimerâ€™s Disease Brain Points to Dysregulation of Mitochondrial Aspartate Metabolism. Journal of Proteome Research, 2016, 15, 608-618.	1.8	107
264	p300 is not required for metabolic adaptation to endurance exercise training. FASEB Journal, 2016, 30, 1623-1633.	0.2	21
265	High-Throughput Metabolic Profiling of Soybean Leaves by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2016, 88, 1188-1194.	3.2	16
266	Cell wall proteome of sugarcane stems: comparison of a destructive and a non-destructive extraction method showed differences in glycoside hydrolases and peroxidases. BMC Plant Biology, 2016, 16, 14.	1.6	29
267	Root Glucosinolate Profiles for Screening of Radish (Raphanus sativus L.) Genetic Resources. Journal of Agricultural and Food Chemistry, 2016, 64, 61-70.	2.4	43
268	Metabolic profiling of mussel larvae: effect of handling and culture conditions. Aquaculture International, 2016, 24, 843-856.	1.1	18
269	Urinary profiling of cis-diol-containing metabolites in rats with bisphenol A exposure by liquid chromatography-mass spectrometry and isotope labeling. Analyst, The, 2016, 141, 1144-1153.	1.7	13
270	Salt-stress induced alterations in the root lipidome of two barley genotypes with contrasting responses to salinity. Functional Plant Biology, 2016, 43, 207.	1.1	48
271	Effects of Parental Temperature and Nitrate on Seed Performance are Reflected by Partly Overlapping Genetic and Metabolic Pathways. Plant and Cell Physiology, 2016, 57, 473-487.	1.5	37
272	A metabolomics strategy to explore urinary biomarkers and metabolic pathways for assessment of interaction between Danhong injection and low-dose aspirin during their synergistic treatment. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1026, 168-175.	1.2	8
273	Bioinformatics tools for the analysis of NMR metabolomics studies focused on the identification of clinically relevant biomarkers. Briefings in Bioinformatics, 2016, 17, 541-552.	3.2	29
274	Multispectral imaging (MSI): A promising method for the detection of minced beef adulteration with horsemeat. Food Control, 2017, 73, 57-63.	2.8	69
275	Metabolomic network analysis of estrogen-stimulated MCF-7 cells: a comparison of overrepresentation analysis, quantitative enrichment analysis and pathway analysis versus metabolite network analysis. Archives of Toxicology, 2017, 91, 217-230.	1.9	13
276	Transcriptomic, proteomic, and metabolomic landscape of positional memory in the caudal fin of zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E717-E726.	3.3	81
277	The Bactericidal Lectin RegIIIÎ² Prolongs Gut Colonization and Enteropathy in the Streptomycin Mouse Model for Salmonella Diarrhea. Cell Host and Microbe, 2017, 21, 195-207.	5.1	84
278	Metabolizing Data in the Cloud. Trends in Biotechnology, 2017, 35, 481-483.	4.9	29
279	Co-option of the sphingolipid metabolism for the production of nitroalkene defensive chemicals in termite soldiers. Insect Biochemistry and Molecular Biology, 2017, 82, 52-61.	1.2	6

#	Article	IF	Citations
280	Multi-omics analyses reveal metabolic alterations regulated by hepatitis B virus core protein in hepatocellular carcinoma cells. Scientific Reports, 2017, 7, 41089.	1.6	39
281	Metabolomics reveals constitutive metabolites that contribute resistance to fall webworm () Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	16
282	Cerebrospinal fluid metabolomic profiling in tuberculous and viral meningitis: Screening potential markers for differential diagnosis. Clinica Chimica Acta, 2017, 466, 38-45.	0.5	29
283	Urinary1H Nuclear Magnetic Resonance Metabolomic Fingerprinting Reveals Biomarkers of Pulse Consumption Related to Energy-Metabolism Modulation in a Subcohort from the PREDIMED study. Journal of Proteome Research, 2017, 16, 1483-1491.	1.8	15
284	Chilling Stress Upregulates Î±-Linolenic Acid-Oxidation Pathway and Induces Volatiles of C₆ and C₉ Aldehydes in Mango Fruit. Journal of Agricultural and Food Chemistry, 2017, 65, 632-638.	2.4	35
285	Global and untargeted metabolomics evidence of the protective effect of different extracts of Dipsacus asper Wall. ex C.B. Clarke on estrogen deficiency after ovariectomia in rats. Journal of Ethnopharmacology, 2017, 199, 20-29.	2.0	27
286	Wildtype motoneurons, ALSâ€Linked SOD1 mutation and glutamate profoundly modify astrocyte metabolism and lactate shuttling. Glia, 2017, 65, 592-605.	2.5	62
287	Alteration of metabolomic markers of amino-acid metabolism in piglets with in-feed antibiotics. Amino Acids, 2017, 49, 771-781.	1.2	46
288	The effects of liraglutide in mice with diet-induced obesity studied by metabolomics. Journal of Endocrinology, 2017, 233, 93-104.	1.2	23
289	Chemometrics Methods and Strategies in Metabolomics. Advances in Experimental Medicine and Biology, 2017, 965, 163-190.	0.8	23
290	Computational Strategies for Biological Interpretation of Metabolomics Data. Advances in Experimental Medicine and Biology, 2017, 965, 191-206.	0.8	8
291	Cinnamon: does it hold its promises in cows? Using non-targeted blood serum metabolomics profiling to test the effects of feeding cinnamon to dairy cows undergoing lactation-induced insulin resistance. Metabolomics, 2017, 13, 1.	1.4	4
292	Genome-wide characterization and expression profiling of the NAC genes under abiotic stresses in Cucumis sativus. Plant Physiology and Biochemistry, 2017, 113, 98-109.	2.8	24
293	Variation of the microbiota and metabolome along the canine gastrointestinal tract. Metabolomics, 2017, 13, 1.	1.4	51
294	Redox crisis underlies conditional lightâ€“dark lethality in cyanobacterial mutants that lack the circadian regulator, RpaA. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E580-E589.	3.3	53
295	Comparison of amino acid profile in the juice of six pomegranate cultivars from two cultivation regions in China. Journal of Food Processing and Preservation, 2017, 41, e13197.	0.9	4
296	Assessment of phospholipid synthesis related biomarkers for perinatal asphyxia: a piglet study. Scientific Reports, 2017, 7, 40315.	1.6	16
297	Nutrient Supply and Simulated Herbivory Differentially Alter the Metabolite Pools and the Efficacy of the Glucosinolate-Based Defense System in Brassica Species. Journal of Chemical Ecology, 2017, 43, 129-142.	0.9	9

#	Article	IF	Citations
298	Amniotic Fluid and Maternal Serum Metabolic Signatures in the Second Trimester Associated with Preterm Delivery. Journal of Proteome Research, 2017, 16, 898-910.	1.8	48
299	A metabolomic study of biomarkers of meat and fish intake ,. American Journal of Clinical Nutrition, 2017, 105, 600-608.	2.2	156
300	Gas chromatography-mass spectrometry profiles of urinary organic acids in healthy captive cheetahs () Tj ETQq0 0 0 rgBT /Overlock 10 T Sciences, 2017, 1049-1050, 8-15.	1.2	7
301	Metabolic profiling of presymptomatic Huntingtonâ€™s disease sheep reveals novel biomarkers. Scientific Reports, 2017, 7, 43030.	1.6	78
302	A Comprehensive Analysis of Metabolomics and Transcriptomics in Cervical Cancer. Scientific Reports, 2017, 7, 43353.	1.6	73
303	Determination of 16 serum angiogenic factors in stage I non-small cell lung cancer using a bead-based multiplex immunoassay. Biomedicine and Pharmacotherapy, 2017, 88, 1031-1037.	2.5	4
304	An activity-calibrated chemical standardization approach for quality evaluation of Salvia miltiorrhiza Bge.. RSC Advances, 2017, 7, 5331-5339.	1.7	12
305	1 H NMR-based metabolomics reveals neurochemical alterations in the brain of adolescent rats following acute methylphenidate administration. Neurochemistry International, 2017, 108, 109-120.	1.9	14
306	Varietal differences in phenolic compounds metabolism of type 2 red-fleshed apples. Scientia Horticulturae, 2017, 219, 1-9.	1.7	16
307	Interplay between metabolic identities in the intestinal crypt supports stem cell function. Nature, 2017, 543, 424-427.	13.7	363
308	Metabolic profiling study of shikonin's cytotoxic activity in the Huh7 human hepatoma cell line. Molecular BioSystems, 2017, 13, 841-851.	2.9	10
309	O-Acyl Sugars Protect a Wild Tobacco from Both Native Fungal Pathogens and a Specialist Herbivore. Plant Physiology, 2017, 174, 370-386.	2.3	84
310	¹H NMR-based metabolic investigation of the effect ofLentinula edodes-derived polysaccharides on aged mice. Journal of Food Biochemistry, 2017, 41, e12371.	1.2	5
311	A Fungal Nâ€Dimethylallyltryptophan Metabolite from Fusarium fujikuroi. ChemBioChem, 2017, 18, 899-904.	1.3	13
312	The heterozygous N291S mutation in the lipoprotein lipase gene impairs whole-body insulin sensitivity and affects a distinct set of plasma metabolites in humans. Journal of Clinical Lipidology, 2017, 11, 515-523.e6.	0.6	0
313	Tryptophan and purine metabolites are consistently upregulated in the urinary metabolome of patients diagnosed with gestational diabetes mellitus throughout pregnancy: A longitudinal metabolomics study of Chinese pregnant women part 2. Clinica Chimica Acta, 2017, 468, 126-139.	0.5	67
314	Linking sources to early effects by profiling urine metabolome of residents living near oil refineries and coal-fired power plants. Environment International, 2017, 102, 87-96.	4.8	61
315	Pasture feeding conventional cows removes differences between organic and conventionally produced milk. Food Chemistry, 2017, 229, 805-813.	4.2	27

#	Article	IF	Citations
316	Targeted High Performance Liquid Chromatography Tandem Mass Spectrometry-based Metabolomics differentiates metabolic syndrome from obesity. Experimental Biology and Medicine, 2017, 242, 773-780.	1.1	34
317	NMRProcFlow: a graphical and interactive tool dedicated to 1D spectra processing for NMR-based metabolomics. Metabolomics, 2017, 13, 36.	1.4	128
318	¹H NMR To Evaluate the Metabolome of Bronchoalveolar Lavage Fluid (BALf) in Bronchiolitis Obliterans Syndrome (BOS): Toward the Development of a New Approach for Biomarker Identification. Journal of Proteome Research, 2017, 16, 1669-1682.	1.8	26
319	Differential Effects of Hormones on Cellular Metabolism in Keratoconus In Vitro. Scientific Reports, 2017, 7, 42896.	1.6	27
320	Transgenic tobacco plants having a higher level of methionine are more sensitive to oxidative stress. Physiologia Plantarum, 2017, 160, 242-252.	2.6	17
321	Mixture model normalization for non-targeted gas chromatography/mass spectrometry metabolomics data. BMC Bioinformatics, 2017, 18, 84.	1.2	37
322	Î²-N-Methylamino-l-alanine (BMAA) perturbs alanine, aspartate and glutamate metabolism pathways in human neuroblastoma cells as determined by metabolic profiling. Amino Acids, 2017, 49, 905-919.	1.2	35
323	Region-specific vulnerability to lipid peroxidation and evidence of neuronal mechanisms for polyunsaturated fatty acid biosynthesis in the healthy adult human central nervous system. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 485-495.	1.2	49
324	FODMAPs alter symptoms and the metabolome of patients with IBS: a randomised controlled trial. Gut, 2017, 66, 1241-1251.	6.1	330
325	Study of early stage non-small-cell lung cancer using Orbitrap-based global serum metabolomics. Journal of Cancer Research and Clinical Oncology, 2017, 143, 649-659.	1.2	43
326	Oxidative stress, metabolomics profiling, and mechanism of local anesthetic induced cell death in yeast. Redox Biology, 2017, 12, 139-149.	3.9	47
327	Identification of biochemical features of defective Coffea arabica L. beans. Food Research International, 2017, 95, 59-67.	2.9	20
328	1 H NMR-based metabolomics study on repeat dose toxicity of fine particulate matter in rats after intratracheal instillation. Science of the Total Environment, 2017, 589, 212-221.	3.9	99
329	UPLC-QqQ/MS-Based Lipidomics Approach To Characterize Lipid Alterations in Inflammatory Macrophages. Journal of Proteome Research, 2017, 16, 1460-1469.	1.8	40
330	Metabotyping reveals distinct metabolic alterations in ketotic cows and identifies early predictive serum biomarkers for the risk of disease. Metabolomics, 2017, 13, 1.	1.4	35
331	Combined metabolic and transcriptional profiling identifies pentose phosphate pathway activation by HSP27 phosphorylation during cerebral ischemia. Neuroscience, 2017, 349, 1-16.	1.1	20
332	Unveiling elderflowers (Sambucus nigra L.) volatile terpenic and norisoprenoids profile: Effects of different postharvest conditions. Food Chemistry, 2017, 229, 276-285.	4.2	16
333	Metabolomic study on the antihypertensive effect of S -1-propenylcysteine in spontaneously hypertensive rats using liquid chromatography coupled with quadrupole-Orbitrap mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1046, 147-155.	1.2	32

#	Article	IF	Citations
334	Cuprizone Intoxication Induces Cell Intrinsic Alterations in Oligodendrocyte Metabolism Independent of Copper Chelation. Biochemistry, 2017, 56, 1518-1528.	1.2	39
335	Metabolomic profiling of lung function in Costa-Rican children with asthma. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1590-1595.	1.8	46
336	Metabolic profiling of Drosophila melanogaster metamorphosis: a new insight into the central metabolic pathways. Metabolomics, 2017, 13, 1.	1.4	18
337	metabolic profiling of Parkinson's disease and mild cognitive impairment. Movement Disorders, 2017, 32, 927-932.	2.2	58
338	Tenofovir and adefovir down-regulate mitochondrial chaperone TRAP1 and succinate dehydrogenase subunit B to metabolically reprogram glucose metabolism and induce nephrotoxicity. Scientific Reports, 2017, 7, 46344.	1.6	28
339	Proteomic analysis of sockeye salmon serum as a tool for biomarker discovery and new insight into the sublethal toxicity of diluted bitumen. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2017, 22, 157-166.	0.4	23
340	Comparing the impact of ultrafine particles from petrodiesel and biodiesel combustion to bacterial metabolism by targeted HPLC-MS/MS metabolic profiling. Ecotoxicology and Environmental Safety, 2017, 142, 164-170.	2.9	6
341	Dose-dependent effects of higher methionine levels on the transcriptome and metabolome of transgenic Arabidopsis seeds. Plant Cell Reports, 2017, 36, 719-730.	2.8	16
342	WGCNA Application to Proteomic and Metabolomic Data Analysis. Methods in Enzymology, 2017, 585, 135-158.	0.4	244
343	Ethnicity influences gut metabolites and microbiota of the tribes of Assam, India. Metabolomics, 2017, 13, 1.	1.4	7
344	Gastroparesis and lipid metabolism-associated dysbiosis in Wistar-Kyoto rats. American Journal of Physiology - Renal Physiology, 2017, 313, G62-G72.	1.6	25
345	Honeybee gut microbiota promotes host weight gain via bacterial metabolism and hormonal signaling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4775-4780.	3.3	419
346	Metabolomics Approach in the Investigation of Metabolic Changes in Obese Men after 24 Weeks of Combined Training. Journal of Proteome Research, 2017, 16, 2151-2159.	1.8	28
347	Curcumin improves alcoholic fatty liver by inhibiting fatty acid biosynthesis. Toxicology and Applied Pharmacology, 2017, 328, 1-9.	1.3	35
348	Serum Amino Acid Profiles in Normal Subjects and in Patients with or at Risk of Alzheimer Dementia. Dementia and Geriatric Cognitive Disorders Extra, 2017, 7, 143-159.	0.6	50
349	Ultra-weak photon emission as a dynamic tool for monitoring oxidative stress metabolism. Scientific Reports, 2017, 7, 1229.	1.6	30
350	Exhaled breath condensate to discriminate individuals with different smoking habits by GCâ€“TOF/MS. Scientific Reports, 2017, 7, 1421.	1.6	18
351	Tissue Proteome Analysis of Different Grades of Human Gliomas Provides Major Cues for Glioma Pathogenesis. OMICS A Journal of Integrative Biology, 2017, 21, 275-284.	1.0	23

#	Article	IF	Citations
352	Comparative metabolomic studies of Alkanivorax xenomutans showing differential power output in a three chambered microbial fuel cell. World Journal of Microbiology and Biotechnology, 2017, 33, 102.	1.7	6
353	From common to rare Zingiberaceae plants - A metabolomics study using GC-MS. Phytochemistry, 2017, 140, 141-150.	1.4	31
354	In Situ Microprobe Single-Cell Capillary Electrophoresis Mass Spectrometry: Metabolic Reorganization in Single Differentiating Cells in the Live Vertebrate (Xenopus laevis) Embryo. Analytical Chemistry, 2017, 89, 7069-7076.	3.2	110
355	Unique and Novel Urinary Metabolomic Features in Malignant versus Benign Adrenal Neoplasms. Clinical Cancer Research, 2017, 23, 5302-5310.	3.2	17
356	Synergic effects of sugar and caffeine on insulinâ€mediated metabolomic alterations after an acute consumption of soft drinks. Electrophoresis, 2017, 38, 2313-2322.	1.3	11
357	Identification of potential diagnostic biomarkers of acute pancreatitis by serum metabolomic profiles. Pancreatology, 2017, 17, 543-549.	0.5	25
358	Exploratory metabolomics of biomarker identification for the internet gaming disorder in young Korean males. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1057, 24-31.	1.2	12
359	Trace elements in raw milk of buffaloes (Bubalus bubalis) from Campania, Italy. Food Chemistry, 2017, 233, 378-384.	4.2	16
360	Addressing reproducibility in single-laboratory phenotyping experiments. Nature Methods, 2017, 14, 462-464.	9.0	53
361	Systems biology guided by XCMS Online metabolomics. Nature Methods, 2017, 14, 461-462.	9.0	168
362	Crosstalk of two-component signal transduction systems in regulating central carbohydrate and energy metabolism during autotrophic and photomixotrophic growth of Synechocystis sp. PCC 6803. Integrative Biology (United Kingdom), 2017, 9, 485-496.	0.6	10
363	Metabolomics as a tool for understanding the evolution of Tabebuia sensu lato. Metabolomics, 2017, 13, 1.	1.4	24
364	Metabolomics Approach to Investigate Estrogen Receptor-Dependent and Independent Effects of o,pâ€²-DDT in the Uterus and Brain of Immature Mice. Journal of Agricultural and Food Chemistry, 2017, 65, 3609-3616.	2.4	13
365	Metabolomic profiling and biochemical evaluation of the follicular fluid of endometriosis patients. Molecular BioSystems, 2017, 13, 1213-1222.	2.9	43
366	MicrobiomeAnalyst: a web-based tool for comprehensive statistical, visual and meta-analysis of microbiome data. Nucleic Acids Research, 2017, 45, W180-W188.	6.5	1,359
367	Homocysteine Activates B Cells via Regulating PKM2-Dependent Metabolic Reprogramming. Journal of Immunology, 2017, 198, 170-183.	0.4	55
368	Metabolomic Characterization of Hepatocellular Carcinoma in Patients with Liver Cirrhosis for Biomarker Discovery. Cancer Epidemiology Biomarkers and Prevention, 2017, 26, 675-683.	1.1	40
369	Perinatal exposure to glyphosate-based herbicide alters the thyrotrophic axis and causes thyroid hormone homeostasis imbalance in male rats. Toxicology, 2017, 377, 25-37.	2.0	71

#	Article	IF	Citations
370	Metabolomics Analysis of Effects of Commercial Soy-based Protein Products in Red Drum (Sciaenops ocellatus). Journal of Proteome Research, 2017, 16, 2481-2494.	1.8	33
371	Review of emerging metabolomic tools and resources: 2015â€“2016. Electrophoresis, 2017, 38, 2257-2274.	1.3	45
372	Urinary metabolomics reveals the therapeutic effect of HuangQi Injections in cisplatin-induced nephrotoxic rats. Scientific Reports, 2017, 7, 3619.	1.6	25
373	Combinatorial treatment with natural compounds in prostate cancer inhibits prostate tumor growth and leads to key modulations of cancer cell metabolism. Npj Precision Oncology, 2017, 1, .	2.3	52
374	Obesity aggravates toxic effect of BPA on spermatogenesis. Environment International, 2017, 105, 56-65.	4.8	38
375	Plasma and Serum Metabolite Association Networks: Comparability within and between Studies Using NMR and MS Profiling. Journal of Proteome Research, 2017, 16, 2547-2559.	1.8	43
376	6,7-dimethoxy-1,2,3,4-tetrahydro-isoquinoline-3-carboxylic acid attenuates heptatocellular carcinoma in rats with NMR-based metabolic perturbations. Future Science OA, 2017, 3, FSO202.	0.9	14
377	Workflow methodology for rat brain metabolome exploration using NMR, LCâ€“MS and GCâ€“MS analytical platforms. Journal of Pharmaceutical and Biomedical Analysis, 2017, 142, 270-278.	1.4	26
378	From chromatogram to analyte to metabolite. How to pick horses for courses from the massive web resources for mass spectral plant metabolomics. GigaScience, 2017, 6, 1-20.	3.3	59
379	Differentiation of Crataegus spp. guided by nuclear magnetic resonance spectrometry with chemometric analyses. Phytochemistry, 2017, 141, 11-19.	1.4	18
380	Associations of Nasopharyngeal Metabolome and Microbiome with Severity among Infants with Bronchiolitis. A Multiomic Analysis. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 882-891.	2.5	113
381	Metabolomics as a Driver in Advancing Precision Medicine in Sepsis. Pharmacotherapy, 2017, 37, 1023-1032.	1.2	51
382	Characterization of the concurrent metabolic changes in brain and plasma during insulin-induced moderate hypoglycemia using 1H NMR spectroscopy in juvenile rats. Neuroscience Letters, 2017, 653, 370-375.	1.0	4
383	Coupling Urinary Trihalomethanes and Metabolomic Profiles of Type II Diabetes: A Case-Control Study. Journal of Proteome Research, 2017, 16, 2743-2751.	1.8	9
384	Metabolomic profiling in a Hedgehog Interacting Protein (Hhip) murine model of chronic obstructive pulmonary disease. Scientific Reports, 2017, 7, 2504.	1.6	16
385	Molecular signatures of neutrophil extracellular traps in human visceral leishmaniasis. Parasites and Vectors, 2017, 10, 285.	1.0	19
386	Fetal Metabolic Stress Disrupts Immune Homeostasis and Induces Proinflammatory Responses in Human Immunodeficiency Virus Type 1â€“ and Combination Antiretroviral Therapyâ€“Exposed Infants. Journal of Infectious Diseases, 2017, 216, 436-446.	1.9	26
387	Characterization of rapid extraction protocols for highâ€throughput metabolomics. Rapid Communications in Mass Spectrometry, 2017, 31, 1445-1452.	0.7	11

#	Article	IF	Citations
388	Metabolomics allows the discrimination of the pathophysiological relevance of hyperinsulinism in obese prepubertal children. International Journal of Obesity, 2017, 41, 1473-1480.	1.6	25
389	Metabolic comparison of dorsal versus ventral cells directly in the live 8-cell frog embryo by microprobe single-cell CE-ESI-MS. Analytical Methods, 2017, 9, 4964-4970.	1.3	38
390	Urinary metabolomics study on the protective role of Orthosiphon stamineus in Streptozotocin induced diabetes mellitus in rats via 1H NMR spectroscopy. BMC Complementary and Alternative Medicine, 2017, 17, 278.	3.7	21
391	Plant metabolism as studied by NMR spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 102-103, 61-97.	3.9	85
392	Microproteome of dentoalveolar tissues. Bone, 2017, 101, 219-229.	1.4	26
393	Potential link between fruit yield, quality parameters and phytohormonal changes in preharvest UV-C treated strawberry. Plant Physiology and Biochemistry, 2017, 116, 80-90.	2.8	44
394	PIXiE: an algorithm for automated ion mobility arrival time extraction and collision cross section calculation using global data association. Bioinformatics, 2017, 33, 2715-2722.	1.8	10
395	Metabolomics insights into diabetes nephropathy and protective effects of Radix Scutellariae on rats using ultra-high performance liquid chromatography coupled with quadrupole time-of-flight mass spectrometry. RSC Advances, 2017, 7, 16494-16504.	1.7	11
396	NOREVA: normalization and evaluation of MS-based metabolomics data. Nucleic Acids Research, 2017, 45, W162-W170.	6.5	305
397	Lowâ€dose suramin in autism spectrum disorder: a small, phase I/II, randomized clinical trial. Annals of Clinical and Translational Neurology, 2017, 4, 491-505.	1.7	84
398	Baicalein Exerts Beneficial Effects in d-Galactose-Induced Aging Rats Through Attenuation of Inflammation and Metabolic Dysfunction. Rejuvenation Research, 2017, 20, 506-516.	0.9	28
399	Methods for studying the metabolic basis of Drosophila development. Wiley Interdisciplinary Reviews: Developmental Biology, 2017, 6, e280.	5.9	25
400	NMR Metabolomics Investigates the Influence of Flavonoid-Enriched Rations on Chicken Plasma. Journal of AOAC INTERNATIONAL, 2017, 100, 315-322.	0.7	6
401	Bioinformatics can boost metabolomics research. Journal of Biotechnology, 2017, 261, 137-141.	1.9	49
402	Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. Journal of Cell Biology, 2017, 216, 2027-2045.	2.3	590
403	Exploring bacterial interspecific interactions for discovery of novel antimicrobial compounds. Microbial Biotechnology, 2017, 10, 910-925.	2.0	70
404	Development and validation of a UHPLC-ESI-MS/MS method for the simultaneous quantification of mammal lysophosphatidylcholines and lysophosphatidylethanolamines in serum. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1055-1056, 86-97.	1.2	24
405	Cross-platform metabolomics investigating the intracellular metabolic alterations of HaCaT cells exposed to phenanthrene. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1060, 15-21.	1.2	11

#	Article	IF	Citations
406	Pathview Web: user friendly pathway visualization and data integration. Nucleic Acids Research, 2017, 45, W501-W508.	6.5	326
407	Association of amine biomarkers with incident dementia and Alzheimer's disease in the Framingham Study. Alzheimer's and Dementia, 2017, 13, 1327-1336.	0.4	93
408	Targeted Metabolic Profiling of Post-Mortem Brain from Infants Who Died from Sudden Infant Death Syndrome. Journal of Proteome Research, 2017, 16, 2587-2596.	1.8	15
409	Metabolic Dysregulation after Neutron Exposures Expected from an Improvised Nuclear Device. Radiation Research, 2017, 188, 21.	0.7	23
410	Metabolomics and Pain. , 2017, , 19-33.		0
411	Urine metabolomics in neonates with late-onset sepsis in a case-control study. Scientific Reports, 2017, 7, 45506.	1.6	37
412	Enteric Helminths Promote Salmonella Coinfection by Altering the Intestinal Metabolome. Journal of Infectious Diseases, 2017, 215, 1245-1254.	1.9	53
413	Multi-omics Based Identification of Specific Biochemical Changes Associated With PfKelch13-Mutant Artemisinin-Resistant Plasmodium falciparum. Journal of Infectious Diseases, 2017, 215, 1435-1444.	1.9	84
414	Metabolomics comparison of red cells stored in four additive solutions reveals differences in citrate anticoagulant permeability and metabolism. Vox Sanguinis, 2017, 112, 326-335.	0.7	46
415	Methods for Microbiome Analysis. Translational Medicine Research, 2017, , 269-298.	0.0	1
416	Differential expression of novel metabolic and immunological biomarkers in oysters challenged with a virulent strain of OsHV-1. Developmental and Comparative Immunology, 2017, 73, 229-245.	1.0	50
417	Plasma metabolite score correlates with Hypoxia time in a newly born piglet model for asphyxia. Redox Biology, 2017, 12, 1-7.	3.9	25
418	Effects of Diet Quality and Psychosocial Stress on the Metabolic Profiles of Mice. Journal of Proteome Research, 2017, 16, 1857-1867.	1.8	11
419	Using precursor ion scan of 184 with liquid chromatography-electrospray ionization-tandem mass spectrometry for concentration normalization in cellular lipidomic studies. Analytica Chimica Acta, 2017, 971, 68-77.	2.6	24
420	Chemical Profiling Combined with â€œOmicsâ€•Technologies (CPâ€Omics): a Strategy to Understand the Compatibility Mechanisms and Simplify Herb Formulas in Traditional Chinese Medicines. Phytochemical Analysis, 2017, 28, 381-391.	1.2	22
421	Metabolomic profiling reveals a finely tuned, starvation-induced metabolic switch in Trypanosoma cruzi epimastigotes. Journal of Biological Chemistry, 2017, 292, 8964-8977.	1.6	58
423	Untargeted metabolomics analysis reveals key pathways responsible for the synergistic killing of colistin and doripenem combination against Acinetobacter baumannii. Scientific Reports, 2017, 7, 45527.	1.6	89
424	Ameliorative effects of pyrazinoic acid against oxidative and metabolic stress manifested in rats with dimethylhydrazine induced colonic carcinoma. Cancer Biology and Therapy, 2017, 18, 304-313.	1.5	18

#	Article	IF	Citations
425	NMR-based metabolomics for the environmental assessment of Kaohsiung Harbor sediments exemplified by a marine amphipod (Hyalella azteca). Marine Pollution Bulletin, 2017, 124, 714-724.	2.3	12
426	Simultaneous Profiling of Lysoglycerophospholipids in Rice (Oryza sativa L.) Using Direct Infusion-Tandem Mass Spectrometry with Multiple Reaction Monitoring. Journal of Agricultural and Food Chemistry, 2017, 65, 2628-2634.	2.4	21
427	Chemometric analysis reveals links in the formation of fragrant bio-molecules during agarwood (Aquilaria malaccensis) and fungal interactions. Scientific Reports, 2017, 7, 44406.	1.6	38
428	Profiling of ARDS pulmonary edema fluid identifies a metabolically distinct subset. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L703-L709.	1.3	36
429	A miRNA signature for an environmental heterocyclic amine defined by a multi-organ carcinogenicity bioassay in the rat. Archives of Toxicology, 2017, 91, 3415-3425.	1.9	10
430	A Rough Based Hybrid Binary PSO Algorithm for Flat Feature Selection and Classification in Gene Expression Data. Annals of Data Science, 2017, 4, 341-360.	1.7	12
431	Identification of Terpenoid Chemotypes Among High (â^')-trans-Î"⁹-Tetrahydrocannabinol-ProducingCannabis sativaL. Cultivars. Cannabis and Cannabinoid Research, 2017, 2, 34-47.	1.5	58
432	Predictive diagnosis of major depression using NMR-based metabolomics and least-squares support vector machine. Clinica Chimica Acta, 2017, 464, 223-227.	0.5	49
433	Impact of exercise on fecal and cecal metabolome over aging: a longitudinal study in rats. Bioanalysis, 2017, 9, 21-36.	0.6	18
434	NMR-Based Metabolomics of Oral Biofluids. Methods in Molecular Biology, 2017, 1537, 79-105.	0.4	2
435	Adipocyte lipopolysaccharide binding protein (<scp>LBP</scp>) is linked to a specific lipidomic signature. Obesity, 2017, 25, 391-400.	1.5	12
436	Profiling of Selected Functional Metabolites in the Central Nervous System of Marine Medaka (Oryzias melastigma) for Environmental Neurotoxicological Assessments. Archives of Environmental Contamination and Toxicology, 2017, 72, 269-280.	2.1	7
437	Metabolic profiling of human endothelial cells during autophagy assessed in a biomimetic microfluidic device model. Life Sciences, 2017, 172, 42-47.	2.0	5
438	Pharmacometabolomic signature links simvastatin therapy and insulin resistance. Metabolomics, 2017, 13, 1.	1.4	14
439	Metabolite profiling of isoflavones and anthocyanins in black soybean [Glycine max (L.) Merr.] seeds by HPLC-MS and geographical differentiation analysis in Southwest China. Analytical Methods, 2017, 9, 792-802.	1.3	28
440	Molecular Identification of d-Ribulokinase in Budding Yeast and Mammals. Journal of Biological Chemistry, 2017, 292, 1005-1028.	1.6	17
441	Early PQQ supplementation has persistent longâ€term protective effects on developmental programming of hepatic lipotoxicity and inflammation in obese mice. FASEB Journal, 2017, 31, 1434-1448.	0.2	45
442	Metabolism variation and better storability of dark- versus light-coloured soybean (Glycine max L.) Tj ETQq1 1 0.784314 rgBT /Overlock	4.2	18

#	Article	IF	Citations
443	Epigenetic regulation of the glucose transporter gene Slc2a1 by Î²â€hydroxybutyrate underlies preferential glucose supply to the brain of fasted mice. Genes To Cells, 2017, 22, 71-83.	0.5	33
444	Integration of metabolomic and transcriptomic networks in pregnant women reveals biological pathways and predictive signatures associated with preeclampsia. Metabolomics, 2017, 13, 1.	1.4	38
445	Current ambient concentrations of ozone in Panama modulate the leaf chemistry of the tropical tree Ficus insipida. Chemosphere, 2017, 172, 363-372.	4.2	11
446	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. Analytical Chemistry, 2017, 89, 1254-1259.	3.2	23
447	Metabolite Variation in Lean and Obese Streptozotocin (STZ)-Induced Diabetic Rats via 1H NMR-Based Metabolomics Approach. Applied Biochemistry and Biotechnology, 2017, 182, 653-668.	1.4	23
448	Unsaturated plasma phospholipids are consistently lower in the patients diagnosed with gestational diabetes mellitus throughout pregnancy: A longitudinal metabolomics study of Chinese pregnant women part 1. Clinica Chimica Acta, 2017, 465, 53-71.	0.5	32
449	Microbial stimulation of different Toll-like receptor signalling pathways induces diverse metabolic programmes in human monocytes. Nature Microbiology, 2017, 2, 16246.	5.9	228
450	Ionomic and physiological responses to low nitrogen stress in Tibetan wild and cultivated barley. Plant Physiology and Biochemistry, 2017, 111, 257-265.	2.8	25
451	Comprehensive Metabolomic and Lipidomic Profiling of Human Kidney Tissue: A Platform Comparison. Journal of Proteome Research, 2017, 16, 933-944.	1.8	41
452	Comfortably Numb and Back: Plasma Metabolomics Reveals Biochemical Adaptations in the Hibernating 13-Lined Ground Squirrel. Journal of Proteome Research, 2017, 16, 958-969.	1.8	37
453	Inflammatory landscape of human brain tumors reveals an NFÎºB dependent cytokine pathway associated with mesenchymal glioblastoma. Cancer Letters, 2017, 390, 176-187.	3.2	60
454	Ultrafiltration membranes functionalized with lipophilic bismuth dimercaptopropanol nanoparticles: Anti-fouling behavior and mechanisms. Chemical Engineering Journal, 2017, 313, 293-300.	6.6	12
455	High Aerobic Capacity Mitigates Changes in the Plasma Metabolomic Profile Associated with Aging. Journal of Proteome Research, 2017, 16, 798-805.	1.8	7
456	Yellow Canopy Syndrome (YCS) in Sugarcane is Associated with Altered Carbon Partitioning in the Leaf. Sugar Tech, 2017, 19, 647-655.	0.9	7
457	Correlations in the elemental and metabolic profiles of the lichenDirinaria pictaafter road traffic exposure. Metallomics, 2017, 9, 1610-1621.	1.0	9
458	Serum metabolites associated with feed efficiency in black angus steers. Metabolomics, 2017, 13, 1.	1.4	39
459	NMR window of molecular complexity showing homeostasis in superorganisms. Analyst, The, 2017, 142, 4161-4172.	1.7	20
460	Brain region-specific metabolite networks regulate antidepressant effects of venlafaxine. RSC Advances, 2017, 7, 46358-46369.	1.7	10

#	Article	IF	Citations
461	Metabolic Characterization of Dairy Cows Treated with Gossypol by Blood Biochemistry and Body Fluid Untargeted Metabolome Analyses. Journal of Agricultural and Food Chemistry, 2017, 65, 9369-9378.	2.4	13
462	Lipid and protein fingerprinting for Fusarium oxysporum f. sp. cubense strain-level classification. Analytical and Bioanalytical Chemistry, 2017, 409, 6803-6812.	1.9	1
463	Urinary metabolic phenotyping of mucopolysaccharidosis type I combining untargeted and targeted strategies with data modeling. Clinica Chimica Acta, 2017, 475, 7-14.	0.5	19
464	Iridoid and phenylethanoid/phenylpropanoid metabolite profiles of Scrophularia and Verbascum species used medicinally in North America. Metabolomics, 2017, 13, 1.	1.4	10
465	Effects of the kinase inhibitor sorafenib on heart, muscle, liver and plasma metabolism in vivo using nonâ€targeted metabolomics analysis. British Journal of Pharmacology, 2017, 174, 4797-4811.	2.7	24
466	Urine metabolomics insight into acute kidney injury point to oxidative stress disruptions in energy generation and H2S availability. Journal of Molecular Medicine, 2017, 95, 1399-1409.	1.7	30
467	Dynamic metabolic reprogramming of steroidal glycol-alkaloid and phenylpropanoid biosynthesis may impart early blight resistance in wild tomato (Solanum arcanum Peralta). Plant Molecular Biology, 2017, 95, 411-423.	2.0	41
468	Hydroxylamine Chemical Digestion for Insoluble Extracellular Matrix Characterization. Journal of Proteome Research, 2017, 16, 4177-4184.	1.8	52
469	Sirtuin 5 is required for mouse survival in response to cardiac pressure overload. Journal of Biological Chemistry, 2017, 292, 19767-19781.	1.6	79
470	Identification of MicroRNA-124 as a Major Regulator of Enhanced Endothelial Cell Glycolysis in Pulmonary Arterial Hypertension via PTBP1 (Polypyrimidine Tract Binding Protein) and Pyruvate Kinase M2. Circulation, 2017, 136, 2451-2467.	1.6	195
471	Multi-omic network-based interrogation of rat liver metabolism following gastric bypass surgery featuring SWATH proteomics. Technology, 2017, 05, 139-184.	1.4	5
472	Metabolomic Analysis Reveals That the Drosophila melanogaster Gene lysine Influences Diverse Aspects of Metabolism. Genetics, 2017, 207, 1255-1261.	1.2	5
473	Metabolic Signatures in Response to Abscisic Acid (ABA) Treatment in Brassica napus Guard Cells Revealed by Metabolomics. Scientific Reports, 2017, 7, 12875.	1.6	39
474	Differences between live and heat-killed bifidobacteria in the regulation of immune function and the intestinal environment. Beneficial Microbes, 2017, 8, 463-472.	1.0	66
475	Bioinformatics Tools for the Interpretation of Metabolomics Data. Current Pharmacology Reports, 2017, 3, 374-383.	1.5	34
476	Application of the amniotic fluid metabolome to the study of fetal malformations, using Down syndrome as a specific model. Molecular Medicine Reports, 2017, 16, 7405-7415.	1.1	22
477	Lipidomic alterations of in vitro macrophage infection by L. infantum and L. amazonensis. Molecular BioSystems, 2017, 13, 2401-2406.	2.9	11
478	1H NMR metabolomic signatures related to giant cell tumor of the bone. RSC Advances, 2017, 7, 45385-45392.	1.7	3

#	Article	IF	Citations
479	NMR-based untargeted metabolomic study of hydrogen peroxide-induced development and diapause termination in brine shrimp. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2017, 24, 118-126.	0.4	1
480	Investigation of urinary volatomic alterations in head and neck cancer: a non-invasive approach towards diagnosis and prognosis. Metabolomics, 2017, 13, 1.	1.4	24
481	Maternal consumption of fish oil programs reduced adiposity in broiler chicks. Scientific Reports, 2017, 7, 13129.	1.6	8
482	Salivary metabolic profile of children and adolescents after hemodialysis. Metabolomics, 2017, 13, 1.	1.4	20
483	Zdhhc13-dependent Drp1 S-palmitoylation impacts brain bioenergetics, anxiety, coordination and motor skills. Scientific Reports, 2017, 7, 12796.	1.6	34
484	Metabolite profiling and associated gene expression reveal two metabolic shifts during the seed-to-seedling transition in Arabidopsis thaliana. Plant Molecular Biology, 2017, 95, 481-496.	2.0	51
485	Metabolic shift induced by systemic activation of T cells in PD-1-deficient mice perturbs brain monoamines and emotional behavior. Nature Immunology, 2017, 18, 1342-1352.	7.0	83
486	Drought effects on root and needle terpenoid content of a coastal and an interior Douglas fir provenance. Tree Physiology, 2017, 37, 1648-1658.	1.4	49
487	Pyridoxine-Dependent Epilepsy in Zebrafish Caused by Aldh7a1 Deficiency. Genetics, 2017, 207, 1501-1518.	1.2	81
488	Validating Quantitative Untargeted Lipidomics Across Nine Liquid Chromatographyâ€“High-Resolution Mass Spectrometry Platforms. Analytical Chemistry, 2017, 89, 12360-12368.	3.2	179
489	A viable alternative in vitro system and comparative metabolite profiling of different tissues for the conservation of Ceropegia karulensis. Plant Cell, Tissue and Organ Culture, 2017, 131, 391-405.	1.2	5
490	Twentyâ€fourâ€hour rhythmicity of circulating metabolites: effect of body mass and type 2 diabetes. FASEB Journal, 2017, 31, 5557-5567.	0.2	54
491	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. Nature, 2017, 549, 476-481.	13.7	398
492	Targeted metabolic profiling rapidly differentiates <scp>Escherichia coli</scp> and <scp>Staphylococcus aureus</scp> at species and strain level. Rapid Communications in Mass Spectrometry, 2017, 31, 1669-1676.	0.7	16
493	Mannose and fructose metabolism in red blood cells during cold storage in SAGM. Transfusion, 2017, 57, 2665-2676.	0.8	14
494	Navigating freely-available software tools for metabolomics analysis. Metabolomics, 2017, 13, 106.	1.4	173
495	Regulatoryâ€associated protein of <scp>TOR</scp> (<scp>RAPTOR</scp>) alters the hormonal and metabolic composition of Arabidopsis seeds, controlling seed morphology, viability and germination potential. Plant Journal, 2017, 92, 525-545.	2.8	71
496	Polycystic ovary syndrome in Indian women: a mass spectrometry based serum metabolomics approach. Metabolomics, 2017, 13, 1.	1.4	8

#	Article	IF	Citations
497	Primary Metabolism and Medium-Chain Fatty Acid Alterations Precede Long-Chain Fatty Acid Changes Impacting Neutral Lipid Metabolism in Response to an Anticancer Lysophosphatidylcholine Analogue in Yeast. Journal of Proteome Research, 2017, 16, 3741-3752.	1.8	5
498	Metabolomic Fingerprinting in Various Body Fluids of a Diet-Controlled Clinical Smoking Cessation Study Using a Validated GC-TOF-MS Metabolomics Platform. Journal of Proteome Research, 2017, 16, 3491-3503.	1.8	16
499	Untargeted LCâ€“MS Data Preprocessing in Metabolomics. Journal of Analysis and Testing, 2017, 1, 187-192.	2.5	9
500	Revealing anti-inflammation mechanism of water-extract and oil of forsythiae fructus on carrageenan-Induced edema rats by serum metabolomics. Biomedicine and Pharmacotherapy, 2017, 95, 929-937.	2.5	26
501	Evaluation of intensity drift correction strategies using MetaboDrift, a normalization tool for multi-batch metabolomics data. Journal of Chromatography A, 2017, 1523, 265-274.	1.8	59
502	Systems-Level Annotation of a Metabolomics Data Set Reduces 25â€¯000 Features to Fewer than 1000 Unique Metabolites. Analytical Chemistry, 2017, 89, 10397-10406.	3.2	220
503	Metabolic response and thermal tolerance of green abalone juveniles (Haliotis fulgens: Gastropoda) under acute hypoxia and hypercapnia. Journal of Experimental Marine Biology and Ecology, 2017, 497, 11-18.	0.7	40
504	Optimal preprocessing of serum and urine metabolomic data fusion for staging prostate cancer through design of experiment. Analytica Chimica Acta, 2017, 991, 68-75.	2.6	24
505	Dose-Dependent Response to 3-Nitrobenzanthrone Exposure in Human Urothelial Cancer Cells. Chemical Research in Toxicology, 2017, 30, 1855-1864.	1.7	12
506	Multiwalled Carbon Nanotubes Dramatically Affect the Fruit Metabolome of Exposed Tomato Plants. ACS Applied Materials & Interfaces, 2017, 9, 32430-32435.	4.0	61
507	Metabolomic and Lipidomic Profiling Identifies The Role of the RNA Editing Pathway in Endometrial Carcinogenesis. Scientific Reports, 2017, 7, 8803.	1.6	30
508	Serum and urine 1H NMR-based metabolomics in the diagnosis of selected thyroid diseases. Scientific Reports, 2017, 7, 9108.	1.6	43
509	Folate dietary insufficiency and folic acid supplementation similarly impair metabolism and compromise hematopoiesis. Haematologica, 2017, 102, 1985-1994.	1.7	33
510	Comparison of four extraction methods for analysis of volatile hop-derived aroma compounds in beer. Journal of Separation Science, 2017, 40, 4366-4376.	1.3	28
511	Cellular glutathione levels in HL-60 cells during respiratory burst are not correlated with ultra-weak photon emission. Journal of Photochemistry and Photobiology B: Biology, 2017, 175, 291-296.	1.7	7
512	Identification of key metabolic changes during liver fibrosis progression in rats using a urine and serum metabolomics approach. Scientific Reports, 2017, 7, 11433.	1.6	80
513	A Predictive Model for Selective Targeting of the Warburg Effect through GAPDH Inhibition with a Natural Product. Cell Metabolism, 2017, 26, 648-659.e8.	7.2	154
514	Pre-harvest UV-C irradiation triggers VOCs accumulation with alteration of antioxidant enzymes and phytohormones in strawberry leaves. Journal of Plant Physiology, 2017, 218, 265-274.	1.6	22

#	Article	IF	Citations
515	Investigation of the effects of storage and freezing on mixes of heavyâ€labeled metabolite and amino acid standards. Rapid Communications in Mass Spectrometry, 2017, 31, 2030-2034.	0.7	3
516	Urinary Metabolic Phenotyping of Women with Lower Urinary Tract Symptoms. Journal of Proteome Research, 2017, 16, 4208-4216.	1.8	13
517	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. Circulation, 2017, 136, 2144-2157.	1.6	103
518	Metabolomic Analysis Reveals Vitamin D-induced Decrease in Polyol Pathway and Subtle Modulation of Glycolysis in HEK293T Cells. Scientific Reports, 2017, 7, 9510.	1.6	15
519	Assessing biological effects of fluoxetine in developing zebrafish embryos using gas chromatography-mass spectrometry based metabolomics. Chemosphere, 2017, 188, 157-167.	4.2	70
520	NMR Spectroscopy-based Metabolomics of Drosophila Model of Huntingtonâ€™s Disease Suggests Altered Cell Energetics. Journal of Proteome Research, 2017, 16, 3863-3872.	1.8	11
521	Targeted metabolome profiling by dual-probe microdialysis sampling and treatment using Gardenia jasminoides for rats with type 2 diabetes. Scientific Reports, 2017, 7, 10105.	1.6	27
522	Global Analysis of Plasma Lipids Identifies Liver-Derived Acylcarnitines as a Fuel Source for Brown Fat Thermogenesis. Cell Metabolism, 2017, 26, 509-522.e6.	7.2	185
523	Disease-syndrome combination modeling: metabolomic strategy for the pathogenesis of chronic kidney disease. Scientific Reports, 2017, 7, 8830.	1.6	4
524	Cross sectional evaluation of the gut-microbiome metabolome axis in an Italian cohort of IBD patients. Scientific Reports, 2017, 7, 9523.	1.6	298
525	Metabolic characterization of hepatitis B virus-related liver cirrhosis using NMR-based serum metabolomics. Metabolomics, 2017, 13, 1.	1.4	10
526	Characterisation and chemometric evaluation of 21 trace elements in three edible seaweed species imported from south-east Asia. Journal of Food Composition and Analysis, 2017, 64, 188-197.	1.9	30
527	Citric Acid Metabolism in Resistant Hypertension. Hypertension, 2017, 70, 1049-1056.	1.3	36
528	Direct Monitoring of Exogenous Î³-Hydroxybutyric Acid in Body Fluids by NMR Spectroscopy. Analytical Chemistry, 2017, 89, 8343-8350.	3.2	31
529	Metabolomic analysis identifies altered metabolic pathways in Multiple Sclerosis. International Journal of Biochemistry and Cell Biology, 2017, 93, 148-155.	1.2	44
530	Impact of Environment on the Biomass Composition of Soybean (Glycine max) seeds. Journal of Agricultural and Food Chemistry, 2017, 65, 6753-6761.	2.4	19
531	Rapid determination of the tumour stroma ratio in squamous cell carcinomas with desorption electrospray ionization mass spectrometry (DESI-MS): a proof-of-concept demonstration. Analyst, The, 2017, 142, 3250-3260.	1.7	11
532	Metabolomics Reveals Cu(OH)₂ Nanopesticide-Activated Anti-oxidative Pathways and Decreased Beneficial Antioxidants in Spinach Leaves. Environmental Science & Technology, 2017, 51, 10184-10194.	4.6	113

#	Article	IF	Citations
533	Metabolite profiling of nonâ€sterile rhizosphere soil. Plant Journal, 2017, 92, 147-162.	2.8	141
534	Abnormal polyamine metabolism is unique to the neuropathic forms of MPS: potential for biomarker development and insight into pathogenesis. Human Molecular Genetics, 2017, 26, 3837-3849.	1.4	5
535	Microscale Mass Spectrometry Analysis of Extracellular Metabolites in Live Multicellular Tumor Spheroids. Analytical Chemistry, 2017, 89, 9069-9076.	3.2	31
536	Identification of Edible Oils by Principal Component Analysis of ¹H NMR Spectra. Journal of Chemical Education, 2017, 94, 1377-1382.	1.1	25
537	NMR-based metabolomics reveals the metabolite profiles of Vibrio parahaemolyticus under ferric iron stimulation. Journal of Microbiology, 2017, 55, 628-634.	1.3	4
538	Hydrolysis of nicosulfuron under acidic environment caused by oxalate secretion of a novel Penicillium oxalicum strain YC-WM1. Scientific Reports, 2017, 7, 647.	1.6	22
539	Optimized Mass Spectrometry Analysis Workflow with Polarimetric Guidance for ex vivo and in situ Sampling of Biological Tissues. Scientific Reports, 2017, 7, 468.	1.6	38
540	Linoleic acid participates in the response to ischemic brain injury through oxidized metabolites that regulate neurotransmission. Scientific Reports, 2017, 7, 4342.	1.6	36
541	The drug transporter OAT3 (SLC22A8) and endogenous metabolite communication via the gutâ€“liverâ€“kidney axis. Journal of Biological Chemistry, 2017, 292, 15789-15803.	1.6	79
542	Medicago truncatula Oleanolic-Derived Saponins Are Correlated with Caterpillar Deterrence. Journal of Chemical Ecology, 2017, 43, 712-724.	0.9	16
543	The use of LC predicted retention times to extend metabolites identification with SWATH data acquisition. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1071, 3-10.	1.2	37
544	Endocrinology Meets Metabolomics: Achievements, Pitfalls, and Challenges. Trends in Endocrinology and Metabolism, 2017, 28, 705-721.	3.1	29
545	Analysis of volatile compounds as quality indicators for Fuji apples after cold storage. Journal of Food Biochemistry, 2017, 41, e12410.	1.2	10
546	Combination of mass spectrometry-based targeted lipidomics and supervised machine learning algorithms in detecting adulterated admixtures of white rice. Food Research International, 2017, 100, 814-821.	2.9	51
547	Comparative metabolomics revealing Staphylococcus aureus metabolic response to different antibiotics. Microbial Biotechnology, 2017, 10, 1764-1774.	2.0	50
548	Metabolic differentiation of early Lyme disease from southern tickâ€“associated rash illness (STARI). Science Translational Medicine, 2017, 9, .	5.8	31
549	Metallotyping of ketotic dairy cows reveals major alterations preceding, associating, and following the disease occurrence. Metabolomics, 2017, 13, 1.	1.4	4
550	Epigenetic regulation of starvation-induced autophagy in Drosophila by histone methyltransferase G9a. Scientific Reports, 2017, 7, 7343.	1.6	31

#	Article	IF	Citations
551	Uptake and transformations of engineered nanomaterials: Critical responses observed in terrestrial plants and the model plant Arabidopsis thaliana. Science of the Total Environment, 2017, 607-608, 1497-1516.	3.9	56
552	Venlafaxine exerts antidepressant effects possibly by activating MAPKâ€“ERK1/2 and P13Kâ€“AKT pathways in the hippocampus. Behavioural Brain Research, 2017, 335, 63-70.	1.2	22
553	Comprehensive Mapping of Pluripotent Stem Cell Metabolism Using Dynamic Genome-Scale Network Modeling. Cell Reports, 2017, 21, 2965-2977.	2.9	61
554	Effect of Sulfur Content on Microbial Composition and Biodegradation of a Brazilian Diesel and Biodiesel Blend (B10). Energy & Fuels, 2017, 31, 12305-12316.	2.5	7
555	A Synthetic Community System for Probing Microbial Interactions Driven by Exometabolites. MSystems, 2017, 2, .	1.7	61
556	Structural and Functional Insight of Sphingosine 1-Phosphate-Mediated Pathogenic Metabolic Reprogramming in Sickle Cell Disease. Scientific Reports, 2017, 7, 15281.	1.6	47
557	Low levels of exosomal-miRNAs in maternal blood are associated with early pregnancy loss in cloned cattle. Scientific Reports, 2017, 7, 14319.	1.6	30
558	Automated Comparative Metabolite Profiling of Large LC-ESIMS Data Sets in an ACD/MS Workbook Suite Add-in, and Data Clustering on a New Open-Source Web Platform FreeClust. Analytical Chemistry, 2017, 89, 12682-12689.	3.2	9
559	TSHB mRNA is linked to cholesterol metabolism in adipose tissue. FASEB Journal, 2017, 31, 4482-4491.	0.2	15
560	MZmine 2 Data-Preprocessing To Enhance Molecular Networking Reliability. Analytical Chemistry, 2017, 89, 7836-7840.	3.2	135
561	Growth and Metabolic Responses of Rice (Oryza sativa L.) Cultivated in Phosphorus-Deficient Soil Amended with TiO₂ Nanoparticles. Journal of Agricultural and Food Chemistry, 2017, 65, 5598-5606.	2.4	102
562	LC-MS-based metabolomics reveals metabolic signatures related to glioma stem-like cell self-renewal and differentiation. RSC Advances, 2017, 7, 24221-24232.	1.7	10
563	Method development of glycoprotein biomarkers for cancers. Bioanalysis, 2017, 9, 903-906.	0.6	12
564	Global and targeted serum metabolic profiling of colorectal cancer progression. Cancer, 2017, 123, 4066-4074.	2.0	51
565	Mistletoe infestation mediates alteration of the phytohormone profile and anti-oxidative metabolism in bark and wood of its host Pinus sylvestris. Tree Physiology, 2017, 37, 676-691.	1.4	23
566	Nitric oxide associated protein 1 is associated with chloroplast perturbation and disease symptoms in Nicotiana benthamiana infected with South African cassava mosaic virus. Virus Research, 2017, 238, 75-83.	1.1	7
567	Key Role for the Organic Anion Transporters, OAT1 and OAT3, in the in vivo Handling of Uremic Toxins and Solutes. Scientific Reports, 2017, 7, 4939.	1.6	157
568	Seed Metabolome Analysis of a Transgenic Rice Line Expressing Cholera Toxin B-subunit. Scientific Reports, 2017, 7, 5196.	1.6	13

#	Article	IF	Citations
569	Tomatoes protect against development of UV-induced keratinocyte carcinoma via metabolomic alterations. Scientific Reports, 2017, 7, 5106.	1.6	57
570	Compensatory metabolic networks in pancreatic cancers upon perturbation of glutamine metabolism. Nature Communications, 2017, 8, 15965.	5.8	231
571	Metabolic and microbial signatures in rat hepatocellular carcinoma treated with caffeic acid and chlorogenic acid. Scientific Reports, 2017, 7, 4508.	1.6	33
572	Plasma metabolomics study of the hepatoprotective effect of glycyrrhetinic acid on realgar -induced sub-chronic hepatotoxicity in mice via 1 H NMR analysis. Journal of Ethnopharmacology, 2017, 208, 36-43.	2.0	12
573	Rumen Fluid Metabolomics Analysis Associated with Feed Efficiency on Crossbred Steers. Scientific Reports, 2017, 7, 2864.	1.6	85
574	Metabolomic Studies in Drosophila. Genetics, 2017, 206, 1169-1185.	1.2	51
575	Metabolic response of porcine colon explants to in vitro infection by Brachyspira hyodysenteriae: a leap into disease pathophysiology. Metabolomics, 2017, 13, 83.	1.4	5
576	Metabolic composition of apple rootstock rhizodeposits differs in a genotype-specific manner and affects growth of subsequent plantings. Soil Biology and Biochemistry, 2017, 113, 201-214.	4.2	43
577	A distinct function of the retinoblastoma protein in the control of lipid composition identified by lipidomic profiling. Oncogenesis, 2017, 6, e350-e350.	2.1	27
578	Investigation of the Hepatoprotective Effect ofPrunus mumeSieb. et Zucc Extract in a Mouse Model of Alcoholic Liver Injury Through High-Resolution Metabolomics. Journal of Medicinal Food, 2017, 20, 734-743.	0.8	15
579	Metabolomics approach reveals annual metabolic variation in roots of Cyathula officinalis Kuan based on gas chromatographyâ€“mass spectrum. Chinese Medicine, 2017, 12, 12.	1.6	11
580	Chemodiversity evaluation of grape (Vitis vinifera) vegetative parts during summer and early fall. Industrial Crops and Products, 2017, 108, 267-277.	2.5	13
581	Histologically defined intratumoral sequencing uncovers evolutionary cues into conserved molecular events driving gliomagenesis. Neuro-Oncology, 2017, 19, 1599-1606.	0.6	25
582	Metabolomic profiling in patients undergoing Off-Pump or On-Pump coronary artery bypass surgery. BMC Cardiovascular Disorders, 2017, 17, 93.	0.7	8
583	Plasma phospholipid fatty acid profile confirms compliance to a novel saturated fat-reduced, monounsaturated fat-enriched dairy product intervention in adults at moderate cardiovascular risk: a randomized controlled trial. Nutrition Journal, 2017, 16, 33.	1.5	21
584	Diurnal cycling of rhizosphere bacterial communities is associated with shifts in carbon metabolism. Microbiome, 2017, 5, 65.	4.9	62
585	HPLCâ€“MS/MS targeted metabolic profiling reveals distinct metabolic profiles from Staphylococcus aureus small-colony variants. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1060, 340-346.	1.2	5
586	Nacre Topography Produces Higher Crystallinity in Bone than Chemically Induced Osteogenesis. ACS Nano, 2017, 11, 6717-6727.	7.3	40

#	Article	IF	Citations
587	Urinary Metabolomic Signatures in Obstructive Sleep Apnea through Targeted Metabolomic Analysis: A Pilot Study. Metabolomics, 2017, 13, 1.	1.4	13
588	Metabolomic profiling identifies potential pathways involved in the interaction of iron homeostasis with glucose metabolism. Molecular Metabolism, 2017, 6, 38-47.	3.0	32
589	Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy. Trends in Pharmacological Sciences, 2017, 38, 143-154.	4.0	250
590	A serum metabolomicsâ€driven approach predicts orange juice consumption and its impact on oxidative stress and inflammation in subjects from the BIONAOS study. Molecular Nutrition and Food Research, 2017, 61, 1600120.	1.5	32
591	Urine metabolomics of high-fat diet induced obesity using UHPLC-Q-TOF-MS. Journal of Pharmaceutical and Biomedical Analysis, 2017, 132, 258-266.	1.4	32
592	Quantitative metabolic flux analysis reveals an unconventional pathway of fatty acid synthesis in cancer cells deficient for the mitochondrial citrate transport protein. Metabolic Engineering, 2017, 43, 198-207.	3.6	80
593	Citrate metabolism in red blood cells stored in additive solutionâ€3. Transfusion, 2017, 57, 325-336.	0.8	93
594	Coexistence of obesity and asthma determines a distinct respiratory metabolic phenotype. Journal of Allergy and Clinical Immunology, 2017, 139, 1536-1547.e5.	1.5	70
595	Metabolite profiling of symbiont and host during thermal stress and bleaching in the coral Acropora aspera. Coral Reefs, 2017, 36, 105-118.	0.9	87
596	An Assessment of the Utility of Tissue Smears in Rapid Cancer Profiling with Desorption Electrospray Ionization Mass Spectrometry (DESI-MS). Journal of the American Society for Mass Spectrometry, 2017, 28, 145-153.	1.2	23
597	Comparison of phenolic and chromatic characteristics of dry red wines made from native Chinese grape species and vitis vinifera. International Journal of Food Properties, 2017, 20, 2134-2146.	1.3	39
598	Revealing the Neuroendocrine Response After Remoxipride Treatment Using Multi-Biomarker Discovery and Quantifying It by PK/PD Modeling. AAPS Journal, 2017, 19, 274-285.	2.2	10
599	The effect of coffee intake on lysophosphatidylcholines: A targeted metabolomic approach. Clinical Nutrition, 2017, 36, 1635-1641.	2.3	6
600	Poplar Ptab<scp>ZIP</scp>1â€like enhances lateral root formation and biomass growth under drought stress. Plant Journal, 2017, 89, 692-705.	2.8	64
601	Adaptation of exerciseâ€induced stress in wellâ€trained healthy young men. Experimental Physiology, 2017, 102, 86-99.	0.9	32
602	Cognitive decline in type 2 diabetic db/db mice may be associated with brain region-specific metabolic disorders. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 266-273.	1.8	59
603	Effect of osmotic dehydration of olives as pre-fermentation treatment and partial substitution of sodium chloride by monosodium glutamate in the fermentation profile of Kalamata natural black olives. Food Microbiology, 2017, 63, 72-83.	2.1	10
604	GCâ€“MS Metabolomics Identifies Metabolite Alterations That Precede Subclinical Mastitis in the Blood of Transition Dairy Cows. Journal of Proteome Research, 2017, 16, 433-446.	1.8	72

#	Article	IF	Citations
605	Unbiased Metabolite Profiling of Schizophrenia Fibroblasts under Stressful Perturbations Reveals Dysregulation of Plasmalogens and Phosphatidylcholines. Journal of Proteome Research, 2017, 16, 481-493.	1.8	18
606	Fungus-associated bacteriome in charge of their host behavior. Fungal Genetics and Biology, 2017, 102, 38-48.	0.9	30
607	Discrimination of Ipomoea aquatica cultivars and bioactivity correlations using NMR-based metabolomics approach. Plant Biosystems, 2017, 151, 833-843.	0.8	10
608	Clinical and Metabolic Characterization of Lean Caucasian Subjects With Non-alcoholic Fatty Liver. American Journal of Gastroenterology, 2017, 112, 102-110.	0.2	182
609	Metabolomic determination of pathogenesis of late-onset preeclampsia. Journal of Maternal-Fetal and Neonatal Medicine, 2017, 30, 658-664.	0.7	35
610	Comparative mass spectrometry-based metabolomics strategies for the investigation of microbial secondary metabolites. Natural Product Reports, 2017, 34, 6-24.	5.2	122
611	Metabolomic profiling of brain from infants who died from Sudden Infant Death Syndrome reveals novel predictive biomarkers. Journal of Perinatology, 2017, 37, 91-97.	0.9	23
612	Metabolites Associated With Malnutrition in the Intensive Care Unit Are Also Associated With 28â€Day Mortality. Journal of Parenteral and Enteral Nutrition, 2017, 41, 188-197.	1.3	26
613	Essential but Not Vulnerable: Indazole Sulfonamides Targeting Inosine Monophosphate Dehydrogenase as Potential Leads against Mycobacterium tuberculosis. ACS Infectious Diseases, 2017, 3, 18-33.	1.8	77
614	Lethal and sub-lethal effects of triclosan toxicity to the earthworm Eisenia fetida assessed through GCâ€“MS metabolomics. Journal of Hazardous Materials, 2017, 323, 203-211.	6.5	33
615	Supporting metabolomics with adaptable software: design architectures for the end-user. Current Opinion in Biotechnology, 2017, 43, 110-117.	3.3	10
616	A multi-omic approach to elucidate low-dose effects of xenobiotics in zebrafish (Danio rerio) larvae. Aquatic Toxicology, 2017, 182, 102-112.	1.9	61
617	What success can teach us about failure: the plasma metabolome of older adults with superior memory and lessons for Alzheimer's disease. Neurobiology of Aging, 2017, 51, 148-155.	1.5	74
618	Molecular details on gilthead sea bream (Sparus aurata) sensitivity to low water temperatures from 1H NMR metabolomics. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 204, 129-136.	0.8	36
619	Sweat lipid mediator profiling: a noninvasive approach for cutaneous research. Journal of Lipid Research, 2017, 58, 188-195.	2.0	44
620	NMRâ€based urinary profiling of lactulose/mannitol ratio used to assess the altered intestinal permeability in acute on chronic liver failure (ACLF) patients. Magnetic Resonance in Chemistry, 2017, 55, 289-296.	1.1	11
621	Increasing rigor in NMR-based metabolomics through validated and open source tools. Current Opinion in Biotechnology, 2017, 43, 56-61.	3.3	20
622	Plasma sample based analysis of gastric cancer progression using targeted metabolomics. Scientific Reports, 2017, 7, 17774.	1.6	56

#	Article	IF	Citations
623	Extensive and objective wine color classification with chromatic database and mathematical models. International Journal of Food Properties, 2017, 20, S2647-S2659.	1.3	6
624	Ash leaf metabolomes reveal differences between trees tolerant and susceptible to ash dieback disease. Scientific Data, 2017, 4, 170190.	2.4	13
625	Metabolome analysis reveals the association between the kynurenine pathway and human herpesvirus 6 encephalopathy in immunocompetent children. Metabolomics, 2017, 13, 1.	1.4	4
626	Nicotinamide Nâ€methyltransferase expression decreases in iron overload, exacerbating toxicity in mouse hepatocytes. Hepatology Communications, 2017, 1, 803-815.	2.0	4
627	Effects of milling on aromatics, lipophilic phytonutrients, and fatty acids in unprocessed white rice of scented rice â€˜Cheonjihyang-1-seâ€™. Food Science and Biotechnology, 2018, 27, 383-392.	1.2	9
628	Integrated Proteomic and Metabolomic prediction of Term Preeclampsia. Scientific Reports, 2017, 7, 16189.	1.6	33
629	Dimerization Products of Chloroprene are Background Contaminants Emitted from ALTEF (Polyvinylidene Difluoride) Gas Sampling Bags. Analytical Sciences, 2017, 33, 147-152.	0.8	3
630	Elevated pentose phosphate pathway is involved in the recovery of hypoxia-induced erythrocytosis. Molecular Medicine Reports, 2017, 16, 9441-9448.	1.1	10
631	EGR1 regulates cellular metabolism and survival in endocrine resistant breast cancer. Oncotarget, 2017, 8, 96865-96884.	0.8	29
632	Red blood cells in hemorrhagic shock: a critical role for glutaminolysis in fueling alanine transamination in rats. Blood Advances, 2017, 1, 1296-1305.	2.5	28
633	Lactation-related metabolic mechanism investigated based on mammary gland metabolomics and 4 biofluidsâ€™ metabolomics relationships in dairy cows. BMC Genomics, 2017, 18, 936.	1.2	51
634	Amino Acid Profiles of Serum and Urine in Search for Prostate Cancer Biomarkers: a Pilot Study. International Journal of Medical Sciences, 2017, 14, 1-12.	1.1	81
635	Evaluation of the Nutritional Quality of Chinese Kale (Brassica alboglabra Bailey) Using UHPLC-Quadrupole-Orbitrap MS/MS-Based Metabolomics. Molecules, 2017, 22, 1262.	1.7	43
636	Pravastatin Chronic Treatment Sensitizes Hypercholesterolemic Mice Muscle to Mitochondrial Permeability Transition: Protection by Creatine or Coenzyme Q10. Frontiers in Pharmacology, 2017, 8, 185.	1.6	32
637	Global Metabolomics Reveals the Metabolic Dysfunction in Ox-LDL Induced Macrophage-Derived Foam Cells. Frontiers in Pharmacology, 2017, 8, 586.	1.6	15
638	A Quantitative Profiling Method of Phytohormones and Other Metabolites Applied to Barley Roots Subjected to Salinity Stress. Frontiers in Plant Science, 2016, 7, 2070.	1.7	63
639	Secondary Effects of Glyphosate Action in Phelipanche aegyptiaca: Inhibition of Solute Transport from the Host Plant to the Parasite. Frontiers in Plant Science, 2017, 8, 255.	1.7	3
640	Metabolic Investigation of Phelipanche aegyptiaca Reveals Significant Changes during Developmental Stages and in Its Different Organs. Frontiers in Plant Science, 2017, 8, 491.	1.7	11

#	Article	IF	Citations
641	Metabolome Dynamics of Smutted Sugarcane Reveals Mechanisms Involved in Disease Progression and Whip Emission. Frontiers in Plant Science, 2017, 8, 882.	1.7	40
642	Belowground Plantâ€“Herbivore Interactions Vary among Climate-Driven Range-Expanding Plant Species with Different Degrees of Novel Chemistry. Frontiers in Plant Science, 2017, 8, 1861.	1.7	21
643	Metabolomics Reveals Distinct Carbon and Nitrogen Metabolic Responses to Magnesium Deficiency in Leaves and Roots of Soybean [Glycine max (Linn.) Merr.]. Frontiers in Plant Science, 2017, 8, 2091.	1.7	46
644	Metabolomics and Exercise: possibilities and perspectives. Motriz Revista De Educacao Fisica, 2017, 23, .	0.3	12
645	Engineered Resistant-Starch (ERS) Diet Shapes Colon Microbiota Profile in Parallel with the Retardation of Tumor Growth in In Vitro and In Vivo Pancreatic Cancer Models. Nutrients, 2017, 9, 331.	1.7	46
646	Evaluating the Effects of an Organic Extract from the Mediterranean Sponge Geodia cydonium on Human Breast Cancer Cell Lines. International Journal of Molecular Sciences, 2017, 18, 2112.	1.8	17
647	Metformin Potentiates the Benefits of Dietary Restraint: A Metabolomic Study. International Journal of Molecular Sciences, 2017, 18, 2263.	1.8	18
648	Metabolic Profiling as a Screening Tool for Cytotoxic Compounds: Identification of 3-Alkyl Pyridine Alkaloids from Sponges Collected at a Shallow Water Hydrothermal Vent Site North of Iceland. Marine Drugs, 2017, 15, 52.	2.2	13
649	Fully Automated Trimethylsilyl (TMS) Derivatisation Protocol for Metabolite Profiling by GC-MS. Metabolites, 2017, 7, 1.	1.3	81
650	Impact of Exercise and Aging on Rat Urine and Blood Metabolome. An LC-MS Based Metabolomics Longitudinal Study. Metabolites, 2017, 7, 10.	1.3	22
651	Metabolomic Profiling of Bile Acids in Clinical and Experimental Samples of Alzheimerâ€™s Disease. Metabolites, 2017, 7, 28.	1.3	102
652	Non-Targeted Metabolomics Analysis of Golden Retriever Muscular Dystrophy-Affected Muscles Reveals Alterations in Arginine and Proline Metabolism, and Elevations in Glutamic and Oleic Acid In Vivo. Metabolites, 2017, 7, 38.	1.3	27
653	Exercise-Induced Alterations in Skeletal Muscle, Heart, Liver, and Serum Metabolome Identified by Non-Targeted Metabolomics Analysis. Metabolites, 2017, 7, 40.	1.3	36
654	Metabolomics Analysis of Urine Samples from Children after Acetaminophen Overdose. Metabolites, 2017, 7, 46.	1.3	14
655	Metabolomic Modularity Analysis (MMA) to Quantify Human Liver Perfusion Dynamics. Metabolites, 2017, 7, 58.	1.3	6
656	Computational Approaches for Integrative Analysis of the Metabolome and Microbiome. Metabolites, 2017, 7, 62.	1.3	78
657	Characterization of Chinese Unifloral Honeys Based on Proline and Phenolic Content as Markers of Botanical Origin, Using Multivariate Analysis. Molecules, 2017, 22, 735.	1.7	24
658	Chemotaxonomic Classification Applied to the Identification of Two Closely-Related Citrus TCMs Using UPLC-Q-TOF-MS-Based Metabolomics. Molecules, 2017, 22, 1721.	1.7	36

#	Article	IF	Citations
659	Serum and Plasma Metabolomic Biomarkers for Lung Cancer. Bioinformation, 2017, 13, 202-208.	0.2	45
660	Metabolomic Fingerprinting in the Comprehensive Study of Liver Changes Associated with Onion Supplementation in Hypercholesterolemic Wistar Rats. International Journal of Molecular Sciences, 2017, 18, 267.	1.8	32
661	Omics data reveal the unusual asexual-fruiting nature and secondary metabolic potentials of the medicinal fungus Cordyceps cicadae. BMC Genomics, 2017, 18, 668.	1.2	25
662	Mining the Volatilomes of Plant-Associated Microbiota for New Biocontrol Solutions. Frontiers in Microbiology, 2017, 8, 1638.	1.5	95
663	In Silico Analysis of the Small Molecule Content of Outer Membrane Vesicles Produced by Bacteroides thetaiotaomicron Indicates an Extensive Metabolic Link between Microbe and Host. Frontiers in Microbiology, 2017, 8, 2440.	1.5	42
664	Diversity of Microbial Communities and Quantitative Chemodiversity in Layers of Marine Sediment Cores from a Causeway (Kaichu-Doro) in Okinawa Island, Japan. Frontiers in Microbiology, 2017, 8, 2451.	1.5	8
665	Metabolomics and Proteomics of Brassica napus Guard Cells in Response to Low CO2. Frontiers in Molecular Biosciences, 2017, 4, 51.	1.6	28
666	Cerebrospinal Fluid Amino Acid Profiling of Pediatric Cases with Tuberculous Meningitis. Frontiers in Neuroscience, 2017, 11, 534.	1.4	19
667	Mechanisms Affecting the Gut of Preterm Infants in Enteral Feeding Trials. Frontiers in Nutrition, 2017, 4, 14.	1.6	50
668	Amine Metabolism Is Influenced by Dietary Protein Source. Frontiers in Nutrition, 2017, 4, 41.	1.6	5
669	Neurodevelopmental Delay Diagnosis Rates Are Increased in a Region with Aerial Pesticide Application. Frontiers in Pediatrics, 2017, 5, 116.	0.9	24
670	Integrating Transcriptomics, Proteomics, and Metabolomics Profiling with System Pharmacology for the Delineation of Long-Term Therapeutic Mechanisms of Bufei Jianpi Formula in Treating COPD. BioMed Research International, 2017, 2017, 1-17.	0.9	11
671	Anopheles gambiae: Metabolomic Profiles in Sugar-Fed, Blood-Fed, and Plasmodium falciparum-Infected Midgut. Dataset Papers in Science, 2017, 2017, 1-49.	1.0	7
672	Chemical Characterization of Major and Minor Compounds of Nut Oils: Almond, Hazelnut, and Pecan Nut. Journal of Chemistry, 2017, 2017, 1-11.	0.9	58
673	Spectropathology-corroborated multimodal quantitative imaging biomarkers for neuroretinal degeneration in diabetic retinopathy. Clinical Ophthalmology, 2017, Volume 11, 2073-2089.	0.9	12
674	Englerin A induces an acute inflammatory response and reveals lipid metabolism and ER stress as targetable vulnerabilities in renal cell carcinoma. PLoS ONE, 2017, 12, e0172632.	1.1	27
675	The antimicrobial volatile power of the rhizospheric isolate Pseudomonas donghuensis P482. PLoS ONE, 2017, 12, e0174362.	1.1	155
676	Brain metabolomic profiling of eastern honey bee (Apis cerana) infested with the mite Varroa destructor. PLoS ONE, 2017, 12, e0175573.	1.1	17

#	Article	IF	Citations
677	Relationship between recombinant protein expression and host metabolome as determined by two-dimensional NMR spectroscopy. PLoS ONE, 2017, 12, e0177233.	1.1	14
678	Evaluation of multifarious plant growth promoting traits, antagonistic potential and phylogenetic affiliation of rhizobacteria associated with commercial tea plants grown in Darjeeling, India. PLoS ONE, 2017, 12, e0182302.	1.1	81
679	Null diffusion-based enrichment for metabolomics data. PLoS ONE, 2017, 12, e0189012.	1.1	29
680	Urinary metabolomic analysis to identify preterm neonates exposed to histological chorioamnionitis: A pilot study. PLoS ONE, 2017, 12, e0189120.	1.1	10
681	Polyphenolic extract of InsP 5-ptase expressing tomato plants reduce the proliferation of MCF-7 breast cancer cells. PLoS ONE, 2017, 12, e0175778.	1.1	6
682	Plasma amino acids and metabolic profiling of dairy cows in response to a bolus duodenal infusion of leucine. PLoS ONE, 2017, 12, e0176647.	1.1	15
683	Metabolome alterations in severe critical illness and vitamin D status. Critical Care, 2017, 21, 193.	2.5	40
684	Genetic profiles of ten Dirofilaria immitis isolates susceptible or resistant to macrocyclic lactone heartworm preventives. Parasites and Vectors, 2017, 10, 504.	1.0	33
685	Longitudinal development of the gut microbiome and metabolome in preterm neonates with late onset sepsis and healthy controls. Microbiome, 2017, 5, 75.	4.9	206
686	MetaLab: an automated pipeline for metaproteomic data analysis. Microbiome, 2017, 5, 157.	4.9	128
687	The Saliva Exposome for Monitoring of Individualsâ€™ Health Trajectories. Environmental Health Perspectives, 2017, 125, 077014.	2.8	44
688	Multi-omics analyses of red blood cell reveal antioxidation mechanisms associated with hemolytic toxicity of gossypol. Oncotarget, 2017, 8, 103693-103709.	0.8	7
689	Multiple Reaction Monitoring Profiling to Assess Compliance with an Almond Consumption Intervention. Current Developments in Nutrition, 2017, 1, e001545.	0.1	8
690	New frontiers in metabolomics: from measurement to insight. F1000Research, 2017, 6, 1148.	0.8	115
691	Metabolomic Profiles of a Midge (Procladius villosimanus, Kieffer) Are Associated with Sediment Contamination in Urban Wetlands. Metabolites, 2017, 7, 64.	1.3	4
692	Non-Targeted Metabolomics Analysis of the Effects of Tyrosine Kinase Inhibitors Sunitinib and Erlotinib on Heart, Muscle, Liver and Serum Metabolism In Vivo. Metabolites, 2017, 7, 31.	1.3	16
693	Expression Profiling of Nonpolar Lipids in Meibum From Patients With Dry Eye: A Pilot Study. , 2017, 58, 2266.		18
694	5H-benzo[h]thiazolo[2,3-b]quinazolines ameliorate NDEA-induced hepatocellular carcinogenesis in rats through IL-6 downregulation along with oxidative and metabolic stress reduction. Drug Design, Development and Therapy, 2017, Volume 11, 2981-2995.	2.0	18

#	Article	IF	Citations
695	How Environmental Factors Affect the Production of Guanidine Alkaloids by the Mediterranean Sponge Crambe crambe. Marine Drugs, 2017, 15, 181.	2.2	11
696	Effects of dispersible MoS2 nanosheets and Nano-silver coexistence on the metabolome of yeast. Chemosphere, 2018, 198, 216-225.	4.2	17
697	A Multiâ€Omics Analysis of Glycine max Leaves Reveals Alteration in Flavonoid and Isoflavonoid Metabolism Upon Ethylene and Abscisic Acid Treatment. Proteomics, 2018, 18, e1700366.	1.3	38
698	Urea nitrogen induces changes in rumen microbial and host metabolic profiles in dairy cows. Livestock Science, 2018, 210, 104-110.	0.6	19
699	From correlation to causation: analysis of metabolomics data using systems biology approaches. Metabolomics, 2018, 14, 37.	1.4	151
700	Single-Cell Mass Spectrometry of Subpopulations Selected by Fluorescence Microscopy. Analytical Chemistry, 2018, 90, 4626-4634.	3.2	37
701	The Use of Metabolomics and Inflammatory Mediator Profiling Provides a Novel Approach to Identifying Pediatric Appendicitis in the Emergency Department. Scientific Reports, 2018, 8, 4083.	1.6	11
702	Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 348-357.	2.9	61
703	A quantitative metabolomics study of bacterial metabolites in different domains. Analytica Chimica Acta, 2018, 1037, 237-244.	2.6	9
704	TiO₂-Assisted Laser Desorption/Ionization Mass Spectrometry for Rapid Profiling of Candidate Metabolite Biomarkers from Antimicrobial-Resistant Bacteria. Analytical Chemistry, 2018, 90, 3863-3870.	3.2	38
705	Novel fused oxazepino-indoles (FOIs) attenuate liver carcinogenesis via IL-6/JAK2/STAT3 signaling blockade as evidenced through data-based mathematical modeling. Life Sciences, 2018, 201, 161-172.	2.0	7
706	Challenges and emergent solutions for LCâ€MS/MS based untargeted metabolomics in diseases. Mass Spectrometry Reviews, 2018, 37, 772-792.	2.8	219
707	Aquatic and terrestrial morphotypes of the aquatic invasive plant, Ludwigia grandiflora, show distinct morphological and metabolomic responses. Ecology and Evolution, 2018, 8, 2568-2579.	0.8	16
708	Reprint of Milk fever in dairy cows is preceded by activation of innate immunity and alterations in carbohydrate metabolism prior to disease occurrence. Research in Veterinary Science, 2018, 116, 72-82.	0.9	2
709	Data processing, multi-omic pathway mapping, and metabolite activity analysis using XCMS Online. Nature Protocols, 2018, 13, 633-651.	5.5	207
710	Associations of branched-chain amino acids with parameters of energy balance and survival in colorectal cancer patients: results from the ColoCare study. Metabolomics, 2018, 14, 22.	1.4	17
711	Development and application of a UHPLCâ€“MS/MS metabolomics based comprehensive systemic and tissue-specific screening method for inflammatory, oxidative and nitrosative stress. Analytical and Bioanalytical Chemistry, 2018, 410, 2551-2568.	1.9	29
712	Arsenic induces cardiac rhythm dysfunction and acylcarnitines metabolism perturbation in rats. Toxicology Mechanisms and Methods, 2018, 28, 423-431.	1.3	6

#	Article	IF	Citations
713	Metabolic characterization of directly reprogrammed renal tubular epithelial cells (iRECs). Scientific Reports, 2018, 8, 3878.	1.6	16
714	Recommended strategies for spectral processing and post-processing of 1D 1H-NMR data of biofluids with a particular focus on urine. Metabolomics, 2018, 14, 31.	1.4	107
715	VOC emissions and carbon balance of two bioenergy plantations in response to nitrogen fertilization: A comparison of Miscanthus and Salix. Environmental Pollution, 2018, 237, 205-217.	3.7	18
716	Methylphenidate alters monoaminergic and metabolic pathways in the cerebellum of adolescent rats. European Neuropsychopharmacology, 2018, 28, 513-528.	0.3	8
717	Evaluating the probiotic potential and technological characteristics of yeasts implicated in cv. Kalamata natural black olive fermentation. International Journal of Food Microbiology, 2018, 271, 48-59.	2.1	49
718	Serum metabolite profiling of cutaneous T-cell lymphoma based on a multiplatform approach. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1077-1078, 71-76.	1.2	8
719	Identification and characterization of small organic compounds within the corona formed around engineered nanoparticles. Environmental Science: Nano, 2018, 5, 1420-1427.	2.2	25
720	Current and future perspectives of functional metabolomics in disease studiesâ€“A review. Analytica Chimica Acta, 2018, 1037, 41-54.	2.6	70
721	Networkâ€Based Approaches for Pathway Level Analysis. Current Protocols in Bioinformatics, 2018, 61, 8.25.1-8.25.24.	25.8	33
722	Metabolite profiles of striped marsh frog (Limnodynastes peronii) larvae exposed to the anti-androgenic fungicides vinclozolin and propiconazole are consistent with altered steroidogenesis and oxidative stress. Aquatic Toxicology, 2018, 199, 232-239.	1.9	24
723	Allelopathic interactions between the benthic toxic dinoflagellate Ostreopsis cf. ovata and a co-occurring diatom. Harmful Algae, 2018, 75, 35-44.	2.2	32
724	Enantioselective Effects of Metalaxyl Enantiomers in Adolescent Rat Metabolic Profiles Using NMR-Based Metabolomics. Environmental Science & Technology, 2018, 52, 5438-5447.	4.6	41
725	Metabolomics assisted metabolic network modeling and network wide analysis of metabolites in microbiology. Critical Reviews in Biotechnology, 2018, 38, 1106-1120.	5.1	13
726	High-mass-resolution MALDI mass spectrometry imaging reveals detailed spatial distribution of metabolites and lipids in roots of barley seedlings in response to salinity stress. Metabolomics, 2018, 14, 63.	1.4	69
727	MetaBridge: enabling network-based integrative analysis via direct protein interactors of metabolites. Bioinformatics, 2018, 34, 3225-3227.	1.8	17
728	Metabolomics evaluation of earlyâ€storage red blood cell rejuvenation at 4Â°C and 37Â°C. Transfusion, 2018, 58, 1980-1991.	0.8	12
729	Physiological Parameters of Silicon-Treated Maize Under Salt Stress Conditions. Silicon, 2018, 10, 2585-2592.	1.8	15
730	Baseline urine metabolic phenotype in patients with severe alcoholic hepatitis and its association with outcome. Hepatology Communications, 2018, 2, 628-643.	2.0	12

#	Article	IF	Citations
731	Substrate Specificities and Efflux Efficiencies of RND Efflux Pumps of Acinetobacter baumannii. Journal of Bacteriology, 2018, 200, .	1.0	75
732	Elastic net regularized regression for time-series analysis of plasma metabolome stability under sub-optimal freezing condition. Scientific Reports, 2018, 8, 3659.	1.6	17
733	Involvement of organic acids and amino acids in ameliorating Ni(II) toxicity induced cell cycle dysregulation in Caulobacter crescentus: a metabolomics analysis. Applied Microbiology and Biotechnology, 2018, 102, 4563-4575.	1.7	23
734	Metabolomics activity screening for identifying metabolites that modulate phenotype. Nature Biotechnology, 2018, 36, 316-320.	9.4	319
735	Distinct Metabolic features differentiating FLT3-ITD AML from FLT3-WT childhood Acute Myeloid Leukemia. Scientific Reports, 2018, 8, 5534.	1.6	31
736	Flavanâ€3â€ol/Procyanidin Metabolomics in Rat Urine Using HPLCâ€Quadrupole TOF/MS. Molecular Nutrition and Food Research, 2018, 62, e1700867.	1.5	16
737	Metabolomics Study of Immune Responses of New Zealand Greenshellâ„¢ Mussels (Perna canaliculus) Infected with Pathogenic Vibrio sp.. Marine Biotechnology, 2018, 20, 396-409.	1.1	82
738	Evaluating the effects of the adulterants in milk using direct-infusion high-resolution mass spectrometry. Food Research International, 2018, 108, 498-504.	2.9	9
739	Arteriovenous blood metabolomics: An efficient method to determine the key metabolic pathway for milk synthesis in the intra-mammary gland. Scientific Reports, 2018, 8, 5598.	1.6	9
740	Hepatic metabolomic profiling changes along with postnatal liver maturation in breeder roosters. Biology Open, 2018, 7, .	0.6	2
741	Metabolomics analysis reveals an effect of homocysteine on arachidonic acid and linoleic acid metabolism pathway. Molecular Medicine Reports, 2018, 17, 6261-6268.	1.1	12
742	Computational Systems Biology of Metabolism in Infection. Experientia Supplementum (2012), 2018, 109, 235-282.	0.5	6
743	Risk of gestational diabetes mellitus in relation to plasma concentrations of amino acids and acylcarnitines: A nested case-control study. Diabetes Research and Clinical Practice, 2018, 140, 183-190.	1.1	24
744	Metabolic effect of alkaline additives and guanosine/gluconate in storage solutions for red blood cells. Transfusion, 2018, 58, 1992-2002.	0.8	44
745	Metabolic profiling of isolated mitochondria and cytoplasm reveals compartment-specific metabolic responses. Metabolomics, 2018, 14, 59.	1.4	23
746	Aldose reductase inhibitor protects mice from alcoholic steatosis by repressing saturated fatty acid biosynthesis. Chemico-Biological Interactions, 2018, 287, 41-48.	1.7	8
747	Metabolomics insights into early type 2 diabetes pathogenesis and detection in individuals with normal fasting glucose. Diabetologia, 2018, 61, 1315-1324.	2.9	93
748	Novel Indole-fused benzo-oxazepines (IFBOs) inhibit invasion of hepatocellular carcinoma by targeting IL-6 mediated JAK2/STAT3 oncogenic signals. Scientific Reports, 2018, 8, 5932.	1.6	16

#	Article	IF	Citations
749	6,7-dimethoxy-1,2,3,4-tetrahydro-isoquinoline-3-carboxylic acid attenuates colon carcinogenesis via blockade of IL-6 mediated signals. Biomedicine and Pharmacotherapy, 2018, 100, 282-295.	2.5	12
750	Human Suction Blister Fluid Composition Determined Using High-Resolution Metabolomics. Analytical Chemistry, 2018, 90, 3786-3792.	3.2	72
751	ESI-LC-MS based-metabolomics data of mangosteen (Garcinia mangostana Linn.) fruit pericarp, aril and seed at different ripening stages. Data in Brief, 2018, 17, 1074-1077.	0.5	12
752	GLA supplementation regulates PHD2 mediated hypoxia and mitochondrial apoptosis in DMBA induced mammary gland carcinoma. International Journal of Biochemistry and Cell Biology, 2018, 96, 51-62.	1.2	38
753	Fast quantification of bovine milk proteins employing external cavity-quantum cascade laser spectroscopy. Food Chemistry, 2018, 252, 22-27.	4.2	19
754	Influence of media selection on NMR based metabolic profiling of human cell lines. Metabolomics, 2018, 14, 28.	1.4	8
755	A broad investigation of the HBV-mediated changes to primary hepatocyte physiology reveals HBV significantly alters metabolic pathways. Metabolism: Clinical and Experimental, 2018, 83, 50-59.	1.5	23
756	Sirtuin5 contributes to colorectal carcinogenesis by enhancing glutaminolysis in a deglutarylation-dependent manner. Nature Communications, 2018, 9, 545.	5.8	114
757	Metabolomics Reveals Protection of Resveratrol in Diet-Induced Metabolic Risk Factors in Abdominal Muscle. Cellular Physiology and Biochemistry, 2018, 45, 1136-1148.	1.1	19
758	Tissue Level Diet and Sex-by-Diet Interactions Reveal Unique Metabolite and Clustering Profiles Using Untargeted Liquid Chromatographyâ€“Mass Spectrometry on Adipose, Skeletal Muscle, and Liver Tissue in C57BL6/J Mice. Journal of Proteome Research, 2018, 17, 1077-1090.	1.8	17
759	Metabolomics Uncovers the Regulatory Pathway of Acyl-homoserine Lactones Based Quorum Sensing in Anammox Consortia. Environmental Science & Technology, 2018, 52, 2206-2216.	4.6	136
760	Pharmacometabonomics Analysis Reveals Serum Formate and Acetate Potentially Associated with Varying Response to Gemcitabine-Carboplatin Chemotherapy in Metastatic Breast Cancer Patients. Journal of Proteome Research, 2018, 17, 1248-1257.	1.8	29
761	Metabolomics Study Reveals Enhanced Inhibition and Metabolic Dysregulation in Escherichia coli Induced by Lactobacillus acidophilus-Fermented Black Tea Extract. Journal of Agricultural and Food Chemistry, 2018, 66, 1386-1393.	2.4	16
762	Nitrogen supply influences photosynthesis establishment along the sugarcane leaf. Scientific Reports, 2018, 8, 2327.	1.6	153
763	Short-term heat stress altered metabolism and insulin signaling in skeletal muscle. Journal of Animal Science, 2018, 96, 154-167.	0.2	17
764	Identification of metabolic pathway disturbances using multimodal metabolomics in autistic disorders in a Middle Eastern population. Journal of Pharmaceutical and Biomedical Analysis, 2018, 152, 57-65.	1.4	49
765	Integrating bioinformatics approaches for a comprehensive interpretation of metabolomics datasets. Current Opinion in Biotechnology, 2018, 54, 1-9.	3.3	50
766	Effects of Î±-zearalenol on the metabolome of two breast cancer cell lines by 1H-NMR approach. Metabolomics, 2018, 14, 33.	1.4	16

#	Article	IF	Citations
767	Missing Value Imputation Approach for Mass Spectrometry-based Metabolomics Data. Scientific Reports, 2018, 8, 663.	1.6	359
768	Calling from distance: attraction of soil bacteria by plant root volatiles. ISME Journal, 2018, 12, 1252-1262.	4.4	195
769	Variability in Volatile Composition of Crimson Seedless (Vitis vinifera) in Association with Maturity at Harvest. American Journal of Enology and Viticulture, 2018, 69, 125-132.	0.9	10
770	High resolution metabolomics to determines the risk associated with bisphenol A exposure in humans. Environmental Toxicology and Pharmacology, 2018, 58, 1-10.	2.0	11
771	Modulation of gut microbiota and gut-generated metabolites by bitter melon results in improvement in the metabolic status in high fat diet-induced obese rats. Journal of Functional Foods, 2018, 41, 127-134.	1.6	62
772	Application of a Deep Neural Network to Metabolomics Studies and Its Performance in Determining Important Variables. Analytical Chemistry, 2018, 90, 1805-1810.	3.2	101
773	Metabolomics and network analysis reveal the potential metabolites and biological pathways involved in salinity tolerance of the halophyte Salvadora persica. Environmental and Experimental Botany, 2018, 148, 85-99.	2.0	90
774	The integration of multi-platform MS-based metabolomics and multivariate analysis forÂthe geographical origin discrimination of OryzaÂsativa ÂL.. Journal of Food and Drug Analysis, 2018, 26, 769-777.	0.9	29
775	Metabolic responses of Eucalyptus species to different temperature regimes. Journal of Integrative Plant Biology, 2018, 60, 397-411.	4.1	34
776	Purine nucleotide metabolism regulates expression of the human immune ligand MICA. Journal of Biological Chemistry, 2018, 293, 3913-3924.	1.6	23
777	Comparative Metabolomic Analyses of Ipomoea lacunosa Biotypes with Contrasting Glyphosate Tolerance Captures Herbicide-Induced Differential Perturbations in Cellular Physiology. Journal of Agricultural and Food Chemistry, 2018, 66, 2027-2039.	2.4	11
778	MALDI imaging detects endogenous digoxin in glioblastoma cells infected by Zika virusâ€"Would it be the oncolytic key?. Journal of Mass Spectrometry, 2018, 53, 257-263.	0.7	9
779	Network-based technologies for early drug discovery. Drug Discovery Today, 2018, 23, 626-635.	3.2	72
780	Metabolomics of groundnut (Arachis hypogaea L.) genotypes under varying temperature regimes. Plant Growth Regulation, 2018, 84, 493-505.	1.8	27
781	Functions of maize genes encoding pyruvate phosphate dikinase in developing endosperm. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E24-E33.	3.3	35
782	Preliminary metabolomics analysis of placenta in maternal obesity. Placenta, 2018, 61, 89-95.	0.7	55
783	Milk fever in dairy cows is preceded by activation of innate immunity and alterations in carbohydrate metabolism prior to disease occurrence. Research in Veterinary Science, 2018, 117, 167-177.	0.9	13
784	Data integration and predictive modeling methods for multi-omics datasets. Molecular Omics, 2018, 14, 8-25.	1.4	73

#	Article	IF	Citations
785	Phenolic Analysis and Theoretic Design for Chinese Commercial Winesâ€™ Authentication. Journal of Food Science, 2018, 83, 30-38.	1.5	17
786	Efficient 3â€Hydroxybutyrate Production by Quiescent Escherichia coli Microbial Cell Factories is Facilitated by Indoleâ€Induced Proteomic and Metabolomic Changes. Biotechnology Journal, 2018, 13, e1700571.	1.8	8
787	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 900-910.	1.1	37
788	Metabolomic serum profiling after ACL injury in rats: A pilot study implicating inflammation and immune dysregulation in postâ€traumatic osteoarthritis. Journal of Orthopaedic Research, 2018, 36, 1969-1979.	1.2	18
789	Decay of low-density polyethylene by bacteria extracted from earthworm's guts: A potential for soil restoration. Science of the Total Environment, 2018, 624, 753-757.	3.9	297
790	Prebiotic Supplementation Following Ileocecal Resection in a Murine Model is Associated With a Loss of Microbial Diversity and Increased Inflammation. Inflammatory Bowel Diseases, 2018, 24, 101-110.	0.9	10
791	Respiratory Syncytial Virus and Rhinovirus Bronchiolitis Are Associated With Distinct Metabolic Pathways. Journal of Infectious Diseases, 2018, 217, 1160-1169.	1.9	50
792	Characterising the metabolic differences related to growth variation in farmed Haliotis midae. Aquaculture, 2018, 493, 144-152.	1.7	17
793	Targeted biochemical profiling of brain from Huntington's disease patients reveals novel metabolic pathways of interest. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2430-2437.	1.8	32
794	Metabolomics and Isotope Tracing. Cell, 2018, 173, 822-837.	13.5	537
795	Severity of allergic rhinitis assessed by using urine metabolomic profiling: Proof of concept. Journal of Allergy and Clinical Immunology, 2018, 142, 687-689.e6.	1.5	10
796	The allelochemical trans-cinnamic acid stimulates salicylic acid production and galactose pathway in maize leaves: A potential mechanism of stress tolerance. Plant Physiology and Biochemistry, 2018, 128, 32-40.	2.8	26
797	Synthesis, characterization and in vivo evaluation of cadmium telluride quantum dots toxicity in mice by toxicometabolomics approach. Toxicology Mechanisms and Methods, 2018, 28, 539-546.	1.3	13
798	Atypical Antipsychotic Exposure May Not Differentiate Metabolic Phenotypes of Patients with Schizophrenia. Pharmacotherapy, 2018, 38, 638-650.	1.2	11
799	Enhanced S-Adenosylmethionine Production by Increasing ATP Levels in Bakerâ€™s Yeast (Saccharomyces cerevisiae). Journal of Agricultural and Food Chemistry, 2018, 66, 5200-5209.	2.4	25
800	Methionine biosynthesis and transport are functionally redundant for the growth and virulence of Salmonella Typhimurium. Journal of Biological Chemistry, 2018, 293, 9506-9519.	1.6	26
801	MetExplore: collaborative edition and exploration of metabolic networks. Nucleic Acids Research, 2018, 46, W495-W502.	6.5	101
802	Phenotypic responses to microbial volatiles render a mold fungus more susceptible to insect damage. Ecology and Evolution, 2018, 8, 4328-4339.	0.8	16

#	Article	IF	Citations
803	Aldolase B-Mediated Fructose Metabolism Drives Metabolic Reprogramming of Colon Cancer Liver Metastasis. Cell Metabolism, 2018, 27, 1249-1262.e4.	7.2	180
804	Mass spectrometry approaches to metabolic profiling of microbial communities within the human gastrointestinal tract. Methods, 2018, 149, 13-24.	1.9	21
805	Relationships between digestive efficiency and metabolomic profiles of serum and intestinal contents in chickens. Scientific Reports, 2018, 8, 6678.	1.6	20
806	Integrative metabolic and microbial profiling on patients with Spleen-yang-deficiency syndrome. Scientific Reports, 2018, 8, 6619.	1.6	73
807	Perturbation of the yeast mitochondrial lipidome and associated membrane proteins following heterologous expression of Artemia-ANT. Scientific Reports, 2018, 8, 5915.	1.6	3
808	Comparative lipidomic profiling of the human commensal bacteriumPropionibacterium acnesand its extracellular vesicles. RSC Advances, 2018, 8, 15241-15247.	1.7	17
809	A Critical Evaluation of Wet Biomarkers for Huntingtonâ€™s Disease: Current Status and Ways Forward. Journal of Huntington's Disease, 2018, 7, 109-135.	0.9	38
810	Examining heat treatment for stabilization of the lipidome. Bioanalysis, 2018, 10, 291-305.	0.6	10
811	Uncovering the metabolic response of abalone (Haliotis midae) to environmental hypoxia through metabolomics. Metabolomics, 2018, 14, 49.	1.4	47
812	Open: Mucosal-luminal interface proteomics reveals biomarkers of pediatric inflammatory bowel disease-associated colitis. American Journal of Gastroenterology, 2018, 113, 713-724.	0.2	23
813	The cross-tissue metabolic response of abalone (Haliotis midae) to functional hypoxia. Biology Open, 2018, 7, .	0.6	21
814	Mass spectrometric recommendations for Quan/Qual analysis using liquid-chromatography coupled to quadrupole time-of-flight mass spectrometry. Analytica Chimica Acta, 2018, 1020, 62-75.	2.6	16
815	Effects of Stigmasterol and Î²-Sitosterol on Nonalcoholic Fatty Liver Disease in a Mouse Model: A Lipidomic Analysis. Journal of Agricultural and Food Chemistry, 2018, 66, 3417-3425.	2.4	74
816	Comparative proteomic analysis of the maize responses to early leaf senescence induced by preventing pollination. Journal of Proteomics, 2018, 177, 75-87.	1.2	26
817	Application of kernel principal component analysis and computational machine learning to exploration of metabolites strongly associated with diet. Scientific Reports, 2018, 8, 3426.	1.6	33
818	Metabolomic analysis of two rice (Oryza sativa) varieties exposed to 2, 2â€², 4, 4â€²-tetrabromodiphenyl ether. Environmental Pollution, 2018, 237, 308-317.	3.7	41
819	A Distinctive Urinary Metabolomic Fingerprint Is Linked With Endoscopic Postoperative Disease Recurrence in Crohnâ€™s Disease Patients. Inflammatory Bowel Diseases, 2018, 24, 861-870.	0.9	24
820	Vitamin D levels are associated with epistaxis severity and bleeding duration in hereditary hemorrhagic telangiectasia. Biomarkers in Medicine, 2018, 12, 365-371.	0.6	3

#	Article	IF	Citations
821	How nitrogen sources influence Mortierella alpina aging: From the lipid droplet proteome to the whole-cell proteome and metabolome. Journal of Proteomics, 2018, 179, 140-149.	1.2	18
822	Metabolomic assessment of arsenite toxicity and novel biomarker discovery in early development of zebrafish embryos. Toxicology Letters, 2018, 290, 116-122.	0.4	12
823	Glycoalkaloid composition explains variation in slug resistance in Solanum dulcamara. Oecologia, 2018, 187, 495-506.	0.9	22
824	Metabolomic strategies for aquaculture research: a primer. Reviews in Aquaculture, 2018, 10, 26-56.	4.6	50
825	Leaf rust infection reduces herbivoreâ€induced volatile emission in black poplar and attracts a generalist herbivore. New Phytologist, 2018, 220, 760-772.	3.5	52
826	Metabolomics approach discriminates toxicity index of pyrazinamide and its metabolic products, pyrazinoic acid and 5-hydroxy pyrazinoic acid. Human and Experimental Toxicology, 2018, 37, 373-389.	1.1	19
827	Comparative Metabolic Response between Cucumber (Cucumis sativus) and Corn (Zea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 66, 6628-6636.	2.4	81
828	Integrative Analysis of Transcriptomic and Metabolomic Data via Sparse Canonical Correlation Analysis with Incorporation of Biological Information. Biometrics, 2018, 74, 300-312.	0.8	19
829	Metabolomic analysis reveals the composition differences in 13 Chinese tea cultivars of different manufacturing suitabilities. Journal of the Science of Food and Agriculture, 2018, 98, 1153-1161.	1.7	53
830	Multiâ€pronged proteomic analysis to study the glioma pathobiology using cerebrospinal fluid samples. Proteomics - Clinical Applications, 2018, 12, e1700056.	0.8	15
831	Regenerative potential, metabolic profile, and genetic stability of Brachypodium distachyon embryogenic calli as affected by successive subcultures. Protoplasma, 2018, 255, 655-667.	1.0	13
832	The composition and metabolism of faecal microbiota is specifically modulated by different dietary polysaccharides and mucin: an isothermal microcalorimetry study. Beneficial Microbes, 2018, 9, 21-34.	1.0	27
833	Recombinant tissue plasminogen activator induces long-term anxiety-like behaviors via the ERK1/2-GAD1-GABA cascade in the hippocampus of a rat model. Neuropharmacology, 2018, 128, 119-131.	2.0	17
834	Overexpression of SbMyb60 in Sorghum bicolor impacts both primary and secondary metabolism. New Phytologist, 2018, 217, 82-104.	3.5	42
835	Metabonomic analysis of serum reveals antifatigue effects of Yi Guan Jian on fatigue mice using gas chromatography coupled to mass spectrometry. Biomedical Chromatography, 2018, 32, e4085.	0.8	8
836	Advances in metabolome information retrieval: turning chemistry into biology. Part II: biological information recovery. Journal of Inherited Metabolic Disease, 2018, 41, 393-406.	1.7	16
837	Short overview on metabolomics approach to study pathophysiology of oxidative stress in cancer. Redox Biology, 2018, 14, 47-58.	3.9	102
838	A metabolomics-based approach identifies changes in the small molecular weight compound composition of the peanut as a result of dry-roasting. Food Chemistry, 2018, 240, 1193-1200.	4.2	27

#	Article	IF	Citations
839	A Metabolomic Approach Applied to a Liquid Chromatography Coupled to Highâ€Resolution Tandem Mass Spectrometry Method (HPLCâ€ESIâ€HRMS/MS): Towards the Comprehensive Evaluation of the Chemical Composition of Cannabis Medicinal Extracts. Phytochemical Analysis, 2018, 29, 144-155.	1.2	35
840	Rapid detection of frozen-then-thawed minced beef using multispectral imaging and Fourier transform infrared spectroscopy. Meat Science, 2018, 135, 142-147.	2.7	36
841	Metabolic profiling of umbilical cord blood in macrosomia. International Journal of Obesity, 2018, 42, 679-685.	1.6	6
842	Novel 1,4-benzothazines obliterate COX-2 mediated JAK-2/STAT-3 signals with potential regulation of oxidative and metabolic stress during colorectal cancer. Pharmacological Research, 2018, 132, 188-203.	3.1	13
843	Shared and distinct lipid-lipid interactions in plasma and affected tissues in a diabetic mouse model. Journal of Lipid Research, 2018, 59, 173-183.	2.0	38
844	Multivariate statistical analysis of metabolomics profiles in tissues of polar bears (Ursus maritimus) from the Southern and Western Hudson Bay subpopulations. Polar Biology, 2018, 41, 433-449.	0.5	7
845	Metabolic profiles of groundnut (Arachis hypogaea L.) genotypes differing in Sclerotium rolfsii reaction. European Journal of Plant Pathology, 2018, 151, 463-474.	0.8	10
846	Untargeted metabolomics analysis of ischemiaâ€“reperfusion-injured hearts ex vivo from sedentary and exercise-trained rats. Metabolomics, 2018, 14, 8.	1.4	20
847	Development of a simple and efficient method of harvesting and lysing adherent mammalian cells for chemical isotope labeling LC-MS-based cellular metabolomics. Analytica Chimica Acta, 2018, 1037, 97-106.	2.6	23
848	Cyclic lipopeptide signature as fingerprinting for the screening of halotolerant Bacillus strains towards microbial enhanced oil recovery. Applied Microbiology and Biotechnology, 2018, 102, 1179-1190.	1.7	12
849	Metabolomics of tomato xylem sap during bacterial wilt reveals Ralstonia solanacearum produces abundant putrescine, a metabolite that accelerates wilt disease. Environmental Microbiology, 2018, 20, 1330-1349.	1.8	114
850	Metabolic Mitigation of Staphylococcus aureus Vancomycin Intermediate-Level Susceptibility. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	32
851	Priming of cowpea volatile emissions with defense inducers enhances the plant's attractiveness to parasitoids when attacked by caterpillars. Pest Management Science, 2018, 74, 966-977.	1.7	20
852	Effects of high ambient temperature on plasma metabolomic profiles in chicks. Animal Science Journal, 2018, 89, 448-455.	0.6	29
853	Gender-related metabolomics and lipidomics: From experimental animal models to clinical evidence. Journal of Proteomics, 2018, 178, 82-91.	1.2	34
854	Effect of abiotic and biotic stress factors analysis using machine learning methods in zebrafish. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2018, 25, 62-72.	0.4	1
855	Metabolomic and physiological changes of Chlamydomonas reinhardtii (Chlorophyceae, Chlorophyta) during batch culture development. Journal of Applied Phycology, 2018, 30, 803-818.	1.5	22
856	¹H-NMR metabolomic profiling of the crayfishAstacus leptodactylussubjected to polyphenol-enriched diets. Aquaculture Nutrition, 2018, 24, 524-538.	1.1	7

#	Article	IF	Citations
857	Metabolic changes associated with papillary thyroid carcinoma: A nuclear magnetic resonance-based metabolomics study. International Journal of Molecular Medicine, 2018, 41, 3006-3014.	1.8	24
858	Potential Health Benefits of Origanum heracleoticum Essential Oil: Phytochemical and Biological Variability among Different Calabrian Populations. Natural Product Communications, 2018, 13, 1934578X1801300.	0.2	5
859	Grape and Wine Metabolomics to Develop New Insights Using Untargeted and Targeted Approaches. Fermentation, 2018, 4, 92.	1.4	56
860	Multiomics biomarkers for the prediction of nonalcoholic fatty liver disease severity. World Journal of Gastroenterology, 2018, 24, 1601-1615.	1.4	60
861	Volatilomic insight of head and neck cancer via the effects observed on saliva metabolites. Scientific Reports, 2018, 8, 17725.	1.6	22
862	Similarities and differences in gut microbiome composition correlate with dietary patterns of Indian and Chinese adults. AMB Express, 2018, 8, 104.	1.4	55
863	Determination of polar organic micropollutants in surface and pore water by high-resolution sampling-direct injection-ultra high performance liquid chromatography-tandem mass spectrometry. Environmental Sciences: Processes and Impacts, 2018, 20, 1716-1727.	1.7	35
864	Association between metabolic profile and microbiomic changes in rats with functional dyspepsia. RSC Advances, 2018, 8, 20166-20181.	1.7	28
865	Metabolic profiling of the three neural derived embryonal pediatric tumors retinoblastoma, neuroblastoma and medulloblastoma, identifies distinct metabolic profiles. Oncotarget, 2018, 9, 11336-11351.	0.8	22
866	Significant age-related alterations in the blood plasma metabolome of noncognitively impaired healthy elderly subjects. Healthy Aging Research, 2018, 7, e16.	0.3	1
867	Gut Microbial and Metabolic Responses to Salmonella enterica Serovar Typhimurium and Candida albicans. MBio, 2018, 9, .	1.8	31
868	Biomarker Phenotype for Early Diagnosis and Triage of Sepsis to the Pediatric Intensive Care Unit. Scientific Reports, 2018, 8, 16606.	1.6	12
869	A comparative venomic fingerprinting approach reveals that galling and non-galling fig wasp species have different venom profiles. PLoS ONE, 2018, 13, e0207051.	1.1	9
870	Development, characterization and comparisons of targeted and non-targeted metabolomics methods. PLoS ONE, 2018, 13, e0207082.	1.1	152
871	Impact of meropenem on Klebsiella pneumoniae metabolism. PLoS ONE, 2018, 13, e0207478.	1.1	15
872	Persistent metabolic changes in HIV-infected patients during the first year of combination antiretroviral therapy. Scientific Reports, 2018, 8, 16947.	1.6	43
873	Combinational Biomarkers for Atrial Fibrillation Derived from Atrial Appendage and Plasma Metabolomics Analysis. Scientific Reports, 2018, 8, 16930.	1.6	21
874	ASCA: The Implementation of Design of Experiments Into Multivariate Modelling in Chemometrics. Comprehensive Analytical Chemistry, 2018, 82, 301-335.	0.7	3

#	Article	IF	Citations
875	Redox Fluctuations Control the Coupled Cycling of Iron and Carbon in Tropical Forest Soils. Environmental Science & Technology, 2018, 52, 14129-14139.	4.6	96
876	Metabolic Analyses Revealed Time-Dependent Synergistic Killing by Colistin and Aztreonam Combination Against Multidrug-Resistant Acinetobacter baumannii. Frontiers in Microbiology, 2018, 9, 2776.	1.5	20
877	Human milk oligosaccharides, milk microbiome and infant gut microbiome modulate neonatal rotavirus infection. Nature Communications, 2018, 9, 5010.	5.8	130
878	Family history and obesity in youth, their effect on acylcarnitine/aminoacids metabolomics and non-alcoholic fatty liver disease (NAFLD). Structural equation modeling approach. PLoS ONE, 2018, 13, e0193138.	1.1	24
879	Targeted metabolomic profiling of low and high grade serous epithelial ovarian cancer tissues: a pilot study. Metabolomics, 2018, 14, 154.	1.4	22
880	IMass Time: The Future, in Future!. OMICS A Journal of Integrative Biology, 2018, 22, 679-695.	1.0	13
881	Diapause-associated changes in the lipid and metabolite profile of the Asian tiger mosquito, Aedes albopictus. Journal of Experimental Biology, 2018, 221, .	0.8	38
882	KIMBLE: A versatile visual NMR metabolomics workbench in KNIME. Analytica Chimica Acta, 2018, 1044, 66-76.	2.6	21
883	Metabolomics-Driven Discovery of Meroterpenoids from a Mussel-Derived Penicillium ubiquetum. Journal of Natural Products, 2018, 81, 2501-2511.	1.5	31
884	Untargeted metabolomics reveals transformation pathways and metabolic response of the earthworm Perionyx excavatus after exposure to triphenyl phosphate. Scientific Reports, 2018, 8, 16440.	1.6	16
885	Plasma mitochondrial DNA and metabolomic alterations in severe critical illness. Critical Care, 2018, 22, 360.	2.5	31
886	Rosmarinic acid induces programmed cell death in Arabidopsis seedlings through reactive oxygen species and mitochondrial dysfunction. PLoS ONE, 2018, 13, e0208802.	1.1	38
887	Intake of an Obesogenic Cafeteria Diet Affects Body Weight, Feeding Behavior, and Glucose and Lipid Metabolism in a Photoperiod-Dependent Manner in F344 Rats. Frontiers in Physiology, 2018, 9, 1639.	1.3	16
888	Terpene Synthase Genes in Quercus robur â€“ Gene Characterization, Expression and Resulting Terpenes Due to Cockchafer Feeding. Frontiers in Plant Science, 2018, 9, 1753.	1.7	3
889	Environmental Conditions and Species Identity Drive Metabolite Levels in Green Leaves and Leaf Litter of 14 Temperate Woody Species. Forests, 2018, 9, 775.	0.9	10
890	Detection of Foodborne Pathogens Using Proteomics and Metabolomics-Based Approaches. Frontiers in Microbiology, 2018, 9, 3132.	1.5	40
891	A robust intracellular metabolite extraction protocol for human neutrophil metabolic profiling. PLoS ONE, 2018, 13, e0209270.	1.1	13
892	FELLA: an R package to enrich metabolomics data. BMC Bioinformatics, 2018, 19, 538.	1.2	61

#	Article	IF	Citations
893	LCâ€“MS-Based Metabolomics and Lipidomics Study of High-Density-Lipoprotein-Modulated Glucose Metabolism with an apoA-I Knockout Mouse Model. Journal of Proteome Research, 2018, 18, 48-56.	1.8	7
894	Organotypic microfluidic breast cancer model reveals starvation-induced spatial-temporal metabolic adaptations. EBioMedicine, 2018, 37, 144-157.	2.7	68
895	Rumen and plasma metabolomics profiling by UHPLC-QTOF/MS revealed metabolic alterations associated with a high-corn diet in beef steers. PLoS ONE, 2018, 13, e0208031.	1.1	31
896	Pyrophosphate inhibits gluconeogenesis by restricting UDP-glucose formation in vivo. Scientific Reports, 2018, 8, 14696.	1.6	46
897	Metabolomic Analyses Reveal Extensive Progenitor Cell Deficiencies in a Mouse Model of Duchenne Muscular Dystrophy. Metabolites, 2018, 8, 61.	1.3	19
898	Adverse Effects of Fenofibrate in Mice Deficient in the Protein Quality Control Regulator, CHIP. Journal of Cardiovascular Development and Disease, 2018, 5, 43.	0.8	7
899	The Comprehensive Assessment of the Normalization Methods Applied to Metabolomics Data. , 2018, , .		1
900	Sweet Scents: Nectar Specialist Yeasts Enhance Nectar Attraction of a Generalist Aphid Parasitoid Without Affecting Survival. Frontiers in Plant Science, 2018, 9, 1009.	1.7	52
901	Effect of drought stress on metabolite adjustments in drought tolerant and sensitive thyme. Plant Physiology and Biochemistry, 2018, 132, 391-399.	2.8	57
902	Biomimetic oyster shellâ€“replicated topography alters the behaviour of human skeletal stem cells. Journal of Tissue Engineering, 2018, 9, 204173141879400.	2.3	17
903	Regulatory Role of Silicon in Mediating Differential Stress Tolerance Responses in Two Contrasting Tomato Genotypes Under Osmotic Stress. Frontiers in Plant Science, 2018, 9, 1475.	1.7	47
904	Salivary metabolite profiling distinguishes patients with oral cavity squamous cell carcinoma from normal controls. PLoS ONE, 2018, 13, e0204249.	1.1	62
905	Differentiating Antibiotic-Resistant Staphylococcus aureus Using Secondary Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2018, 90, 12108-12115.	3.2	32
906	Prenatal Maternal Stress from a Natural Disaster Alters Urinary Metabolomic Profiles in Project Ice Storm Participants. Scientific Reports, 2018, 8, 12932.	1.6	30
907	Effects of red blood cell (RBC) transfusion on sickle cell disease recipient plasma and RBC metabolism. Transfusion, 2018, 58, 2797-2806.	0.8	27
908	Glycerophosphatidylcholine PC(36:1) absence and 3â€²-phosphoadenylate (pAp) accumulation are hallmarks of the human glioma metabolome. Scientific Reports, 2018, 8, 14783.	1.6	10
909	Intravenous Triacylglycerol Infusion Promotes Ceramide Accumulation and Hepatic Steatosis in Dairy Cows. Journal of Nutrition, 2018, 148, 1529-1535.	1.3	16
910	Nano-delivery of RAD6/Translesion Synthesis Inhibitor SMI#9 for Triple-negative Breast Cancer Therapy. Molecular Cancer Therapeutics, 2018, 17, 2586-2597.	1.9	14

#	Article	IF	Citations
911	Response of the thylakoid proteome of Synechocystis sp. PCC 6803 to photohinibitory intensities of orange-red light. Plant Physiology and Biochemistry, 2018, 132, 524-534.	2.8	2
912	Balancing metabolome coverage and reproducibility for untargeted NMR-based metabolic profiling in tissue samples through mixture design methods. Analytical and Bioanalytical Chemistry, 2018, 410, 7783-7792.	1.9	12
913	Hydroxyurea Treated Î²-Thalassemia Children Demonstrate a Shift in Metabolism Towards Healthy Pattern. Scientific Reports, 2018, 8, 15152.	1.6	16
914	Flow Cytometry Has a Significant Impact on the Cellular Metabolome. Journal of Proteome Research, 2019, 18, 169-181.	1.8	66
915	Effects of water decontamination methods and bedding material on the gut microbiota. PLoS ONE, 2018, 13, e0198305.	1.1	30
916	A field-based study of metabolites in sacculinized king crabs Paralithodes camtschaticus (Tilesius,) Tj ETQq1 1 0.784314 rgBT /Overlock Biology, 2018, , .	0.3	3
917	Scaled traumatic brain injury results in unique metabolomic signatures between gray matter, white matter, and serum in a piglet model. PLoS ONE, 2018, 13, e0206481.	1.1	10
918	Evaluation of Aflatoxin M1 Effects on the Metabolomic and Cytokinomic Profiling of a Hepatoblastoma Cell Line. Toxins, 2018, 10, 436.	1.5	10
919	Metabolomic Profiling of Bile Acids in an Experimental Model of Prodromal Parkinsonâ€™s Disease. Metabolites, 2018, 8, 71.	1.3	35
920	Direct analysis real-timeâ€“high-resolution mass spectrometry forTriticumspecies authentication. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 2291-2297.	1.1	17
921	Multiparameter Optimization of Two Common Proteomics Quantification Methods for Quantifying Low-Abundance Proteins. Journal of Proteome Research, 2019, 18, 461-468.	1.8	8
922	Using urine metabolomics to understand the pathogenesis of infant respiratory syncytial virus (RSV) infection and its role in childhood wheezing. Metabolomics, 2018, 14, 135.	1.4	28
923	Sertraline, chlorprothixene, and chlorpromazine characteristically interact with the REST-binding site of the corepressor mSin3, showing medulloblastoma cell growth inhibitory activities. Scientific Reports, 2018, 8, 13763.	1.6	16
924	Quantitative subcellular proteomics using SILAC reveals enhanced metabolic buffering in the pluripotent ground state. Stem Cell Research, 2018, 33, 135-145.	0.3	8
925	Altered oral microbiota in chronic hepatitis B patients with different tongue coatings. World Journal of Gastroenterology, 2018, 24, 3448-3461.	1.4	29
926	Dataset on phenolic profile of seven wheat genotypes along maturation. Data in Brief, 2018, 21, 284-288.	0.5	0
927	Metabolic fingerprinting analysis of oil palm reveals a set of differentially expressed metabolites in fatal yellowing symptomatic and non-symptomatic plants. Metabolomics, 2018, 14, 142.	1.4	14
928	Short Term Intrarectal Administration of Sodium Propionate Induces Antidepressant-Like Effects in Rats Exposed to Chronic Unpredictable Mild Stress. Frontiers in Psychiatry, 2018, 9, 454.	1.3	37

#	Article	IF	Citations
929	NMR-Based Serum Metabolomics Revealed Distinctive Metabolic Patterns in Reactive Arthritis Compared with Rheumatoid Arthritis. Journal of Proteome Research, 2019, 18, 130-146.	1.8	16
930	Metabolic Biomarkers of Monochorionic Twins Complicated With Selective Intrauterine Growth Restriction in Cord Plasma and Placental Tissue. Scientific Reports, 2018, 8, 15914.	1.6	18
931	Fearful dogs have increased plasma glutamine and Î³-glutamyl glutamine. Scientific Reports, 2018, 8, 15976.	1.6	17
932	Metabolomes of mitochondrial diseases and inclusion body myositis patients: treatment targets and biomarkers. EMBO Molecular Medicine, 2018, 10, .	3.3	54
933	Flow Injectionâ€“Traveling-Wave Ion Mobilityâ€“Mass Spectrometry for Prostate-Cancer Metabolomics. Analytical Chemistry, 2018, 90, 13767-13774.	3.2	22
934	Origanum vulgare essential oils inhibit glutamate and aspartate metabolism altering the photorespiratory pathway in Arabidopsis thaliana seedlings. Journal of Plant Physiology, 2018, 231, 297-309.	1.6	31
935	Contribution of Untargeted Metabolomics for Future Assessment of Biotech Crops. Trends in Plant Science, 2018, 23, 1047-1056.	4.3	45
936	Yap regulates glucose utilization and sustains nucleotide synthesis to enable organ growth. EMBO Journal, 2018, 37, .	3.5	73
937	Nuclear magnetic resonance-based metabolomic investigation reveals metabolic perturbations in PM2.5-treated A549 cells. Environmental Science and Pollution Research, 2018, 25, 31656-31665.	2.7	12
938	Introduction to the Data Analysis Relevance in the Omic Era. Comprehensive Analytical Chemistry, 2018, , 1-12.	0.7	1
939	Smoking is associated with quantifiable differences in the human lung DNA virome and metabolome. Respiratory Research, 2018, 19, 174.	1.4	28
940	Plasma metabolomic profiles differ at the time of artificial insemination based on pregnancy outcome, in Bos taurus beef heifers. Scientific Reports, 2018, 8, 13196.	1.6	17
941	The Translational Machinery of Human CD4+ T Cells Is Poised for Activation and Controls the Switch from Quiescence to Metabolic Remodeling. Cell Metabolism, 2018, 28, 895-906.e5.	7.2	116
942	Unveiling metabolic remodeling in mucopolysaccharidosis type III through integrative metabolomics and pathway analysis. Journal of Translational Medicine, 2018, 16, 248.	1.8	19
943	Targeting amino acids metabolic profile to identify novel metabolic characteristics in atrial fibrillation. Clinical Science, 2018, 132, 2135-2146.	1.8	14
944	An Overview of Metabolomics Data Analysis: Current Tools and Future Perspectives. Comprehensive Analytical Chemistry, 2018, 82, 387-413.	0.7	52
945	Untargeted NMR-based metabolomics for field-scale monitoring: Temporal reproducibility and biomarker discovery in mosquitofish (Gambusia holbrooki) from a metal(loid)-contaminated wetland. Environmental Pollution, 2018, 243, 1096-1105.	3.7	26
946	Root and leaf metabolite profiles analysis reveals the adaptive strategies to low potassium stress in barley. BMC Plant Biology, 2018, 18, 187.	1.6	47

#	Article	IF	Citations
947	OBSOLETE: Bioinformatics Principles for Deciphering Cardiovascular Diseases. , 2018, , .		1
948	Thrombopoietin receptorâ€“independent stimulation of hematopoietic stem cells by eltrombopag. Science Translational Medicine, 2018, 10, .	5.8	48
949	Wen-Luo-Tong Decoction Attenuates Paclitaxel-Induced Peripheral Neuropathy by Regulating Linoleic Acid and Glycerophospholipid Metabolism Pathways. Frontiers in Pharmacology, 2018, 9, 956.	1.6	21
950	Metabolomic characterization of hypertension and dyslipidemia. Metabolomics, 2018, 14, 117.	1.4	60
951	Myeloperoxidase oxidation of methionine associates with early cystic fibrosis lung disease. European Respiratory Journal, 2018, 52, 1801118.	3.1	41
952	Alteration in lipid composition differentiates breast cancer tissues: a 1H HRMAS NMR metabolomic study. Metabolomics, 2018, 14, 119.	1.4	13
953	Short-term urea cycle inhibition in rat liver cells induced by polyethylene glycol. Biomaterials Science, 2018, 6, 2896-2904.	2.6	2
954	LAESI mass spectrometry imaging as a tool to differentiate the root metabolome of native and range-expanding plant species. Planta, 2018, 248, 1515-1523.	1.6	23
955	Metabolomics Analyses of Saliva Detect Novel Biomarkers of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 65, 1401-1416.	1.2	62
956	The Omics Revolution Continues: The Maturation of High-Throughput Biological Data Sources. Yearbook of Medical Informatics, 2018, 27, 211-222.	0.8	21
957	Influence of 6-aminonicotinamide (6AN) on Leishmania promastigotes evaluated by metabolomics: Beyond the pentose phosphate pathway. Chemico-Biological Interactions, 2018, 294, 167-177.	1.7	6
958	Targeted matrisome analysis identifies thrombospondin-2 and tenascin-C in aligned collagen stroma from invasive breast carcinoma. Scientific Reports, 2018, 8, 12941.	1.6	51
959	Associations between the maternal circulating lipid profile in pregnancy and fetal imprinted gene alleles: a cohort study. Reproductive Biology and Endocrinology, 2018, 16, 82.	1.4	11
960	Optimized GCâ€“MS metabolomics for the analysis of kidney tissue metabolites. Metabolomics, 2018, 14, 75.	1.4	15
961	Switching off IMMP2L signaling drives senescence via simultaneous metabolic alteration and blockage of cell death. Cell Research, 2018, 28, 625-643.	5.7	37
962	Plasma metabolite profiles in children with current asthma. Clinical and Experimental Allergy, 2018, 48, 1297-1304.	1.4	30
963	Untargeted Metabolomics Identifies Novel Potential Biomarkers of Habitual Food Intake in a Cross-Sectional Study of Postmenopausal Women. Journal of Nutrition, 2018, 148, 932-943.	1.3	57
964	Metabolomic analysis and biochemical changes in the urine and serum of streptozotocin-induced normal- and obese-diabetic rats. Journal of Physiology and Biochemistry, 2018, 74, 403-416.	1.3	19

#	Article	IF	Citations
965	Metabolomic profile of systemic sclerosis patients. Scientific Reports, 2018, 8, 7626.	1.6	30
966	Ablation of Sirtuin5 in the postnatal mouse heart results in protein succinylation and normal survival in response to chronic pressure overload. Journal of Biological Chemistry, 2018, 293, 10630-10645.	1.6	31
967	Novel Phospholipid Signature of Depressive Symptoms in Patients With Coronary Artery Disease. Journal of the American Heart Association, 2018, 7, .	1.6	11
968	Modelling non-alcoholic fatty liver disease in human hepatocyte-like cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170362.	1.8	29
969	Metabolomics Reveals the Molecular Mechanisms of Copper Induced Cucumber Leaf (<i>Cucumis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.6	81
970	Metabolomic and Proteomic Analyses of Mouse Primordial Germ Cells. Methods in Molecular Biology, 2018, 2045, 259-269.	0.4	2
971	An integrated strategy to improve data acquisition and metabolite identification by time-staggered ion lists in UHPLC/Q-TOF MS-based metabolomics. Journal of Pharmaceutical and Biomedical Analysis, 2018, 157, 171-179.	1.4	11
972	Comparison of the serum metabolic signatures based on 1H NMR between patients and a rat model of deep vein thrombosis. Scientific Reports, 2018, 8, 7837.	1.6	11
973	Metabolic impact induced by total, water soluble and insoluble components of PM2.5 acute exposure in mice. Chemosphere, 2018, 207, 337-346.	4.2	41
974	Elevated [CO2] changes soil organic matter composition and substrate diversity in an arid ecosystem. Geoderma, 2018, 330, 1-8.	2.3	33
975	Chytridiomycosis causes catastrophic organism-wide metabolic dysregulation including profound failure of cellular energy pathways. Scientific Reports, 2018, 8, 8188.	1.6	20
976	Miniaturized 1H-NMR method for analyzing limited-quantity samples applied to a mouse model of Leigh disease. Metabolomics, 2018, 14, 74.	1.4	16
977	Regulation of endogenic metabolites by rosuvastatin in hyperlipidemia patients: An integration of metabolomics and lipidomics. Chemistry and Physics of Lipids, 2018, 214, 69-83.	1.5	28
978	Cry1Ac production is costly for native plants attacked by nonâ€Cry1Acâ€targeted herbivores in the field. New Phytologist, 2018, 219, 714-727.	3.5	13
979	Metabolomics for the Effect of Biotin and Nicotinamide on Transition Dairy Cows. Journal of Agricultural and Food Chemistry, 2018, 66, 5723-5732.	2.4	15
980	Biochemical Profiling of the Brain and Blood Metabolome in a Mouse Model of Prodromal Parkinsonâ€™s Disease Reveals Distinct Metabolic Profiles. Journal of Proteome Research, 2018, 17, 2460-2469.	1.8	56
981	MetaboAnalyst 4.0: towards more transparent and integrative metabolomics analysis. Nucleic Acids Research, 2018, 46, W486-W494.	6.5	3,199
982	Glycosphingolipids promote pro-atherogenic pathways in the pathogenesis of hyperglycemia-induced accelerated atherosclerosis. Metabolomics, 2018, 14, 92.	1.4	20

#	Article	IF	Citations
983	Bioinformatics Principles for Deciphering Cardiovascular Diseases. , 2018, , 273-292.		3
984	NMR-Based Plasma Metabolomics at Set Intervals in Newborn Dairy Calves with Severe Sepsis. Mediators of Inflammation, 2018, 2018, 1-12.	1.4	11
985	Pharmacometabolomics reveals a role for histidine, phenylalanine, and threonine in the development of paclitaxel-induced peripheral neuropathy. Breast Cancer Research and Treatment, 2018, 171, 657-666.	1.1	34
986	Two Cockayne Syndrome patients with a novel splice site mutation â€“ clinical and metabolic analyses. Mechanisms of Ageing and Development, 2018, 175, 7-16.	2.2	7
987	Metabolomics: State-of-the-Art Technologies and Applications on Drosophila melanogaster. Advances in Experimental Medicine and Biology, 2018, 1076, 257-276.	0.8	7
988	Autophagic reliance promotes metabolic reprogramming in oncogenic KRAS-driven tumorigenesis. Autophagy, 2018, 14, 1481-1498.	4.3	37
989	Epigenetic drift of H3K27me3 in aging links glycolysis to healthy longevity in Drosophila. ELife, 2018, 7, .	2.8	113
991	Plasma metabolomic biomarkers accurately classify acute mild traumatic brain injury from controls. PLoS ONE, 2018, 13, e0195318.	1.1	30
992	Drosophila Models for Human Diseases. Advances in Experimental Medicine and Biology, 2018, , .	0.8	13
993	Exposure of Methicillin-Resistant Staphylococcus aureus to Low Levels of the Antibacterial THAM-3Î¦G Generates a Small Colony Drug-Resistant Phenotype. Scientific Reports, 2018, 8, 9850.	1.6	5
994	PROM and Labour Effects on Urinary Metabolome: A Pilot Study. Disease Markers, 2018, 2018, 1-9.	0.6	14
995	Techniques and Technologies for the Biodiscovery of Novel Small Molecule Drug Lead Compounds From Natural Products. , 2018, , 435-465.		10
996	Different milk feeding intensities during the first 4 weeks of rearing dairy calves: Part 3: Plasma metabolomics analysis reveals long-term metabolic imprinting in Holstein heifers. Journal of Dairy Science, 2018, 101, 8446-8460.	1.4	17
997	Metabolic Phenotyping of Anks3 Depletion in mIMCD-3 cells - a Putative Nephronophthisis Candidate. Scientific Reports, 2018, 8, 9022.	1.6	20
998	Histone methyltransferase Smyd1 regulates mitochondrial energetics in the heart. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7871-E7880.	3.3	70
999	High-Resolution Analysis of the Peptidoglycan Composition in Streptomyces coelicolor. Journal of Bacteriology, 2018, 200, .	1.0	35
1000	Metabolic reprogramming of the urea cycle pathway in experimental pulmonary arterial hypertension rats induced by monocrotaline. Respiratory Research, 2018, 19, 94.	1.4	27
1001	Global omics strategies to investigate the effect of cyclodextrin nanoparticles on MCF-7 breast cancer cells. European Journal of Pharmaceutical Sciences, 2018, 123, 377-386.	1.9	8

#	Article	IF	Citations
1002	Metabolomic identification of diagnostic serum-based biomarkers for advanced stage melanoma. Metabolomics, 2018, 14, 105.	1.4	15
1003	Skin Biomarkers for Cystic Fibrosis: A Potential Non-Invasive Approach for Patient Screening. Frontiers in Pediatrics, 2017, 5, 290.	0.9	12
1004	DuCLOX-2/5 Inhibition Attenuates Inflammatory Response and Induces Mitochondrial Apoptosis for Mammary Gland Chemoprevention. Frontiers in Pharmacology, 2018, 9, 314.	1.6	15
1005	Coenzyme Q10 or Creatine Counteract Pravastatin-Induced Liver Redox Changes in Hypercholesterolemic Mice. Frontiers in Pharmacology, 2018, 9, 685.	1.6	14
1006	The Exposure to Different Photoperiods Strongly Modulates the Glucose and Lipid Metabolisms of Normoweight Fischer 344 Rats. Frontiers in Physiology, 2018, 9, 416.	1.3	24
1007	Metabolomic Fingerprints of Individual Algal Cells Using the Single-Probe Mass Spectrometry Technique. Frontiers in Plant Science, 2018, 9, 571.	1.7	52
1008	Seasonal Alterations in Organic Phosphorus Metabolism Drive the Phosphorus Economy of Annual Growth in F. sylvatica Trees on P-Impoverished Soil. Frontiers in Plant Science, 2018, 9, 723.	1.7	20
1009	Metabolomics of Early Stage Plant Cellâ€“Microbe Interaction Using Stable Isotope Labeling. Frontiers in Plant Science, 2018, 9, 760.	1.7	58
1010	The Active Jasmonate JA-Ile Regulates a Specific Subset of Plant Jasmonate-Mediated Resistance to Herbivores in Nature. Frontiers in Plant Science, 2018, 9, 787.	1.7	33
1011	A Metabolomic Overview of Follicular Fluid in Cows. Frontiers in Veterinary Science, 2018, 5, 10.	0.9	17
1012	Metabolomics Integrated with Transcriptomics Reveals a Subtle Liver Metabolic Risk in Dairy Cows Fed Different Crop Byâ€products. Proteomics, 2018, 18, e1800122.	1.3	7
1013	Cross-platform metabolic profiling deciphering the potential targets of Shenfu injection against acute viral myocarditis in mice. Journal of Pharmaceutical and Biomedical Analysis, 2018, 160, 1-11.	1.4	16
1014	Lipid imaging for visualizing cilastatin amelioration of cisplatin-induced nephrotoxicity. Journal of Lipid Research, 2018, 59, 1561-1574.	2.0	21
1015	Gut microbiota and serum metabolite differences in African Americans and White Americans with high blood pressure. International Journal of Cardiology, 2018, 271, 336-339.	0.8	47
1016	Supplementing phytogenic compounds or autolyzed yeast modulates ruminal biogenic amines and plasma metabolome in dry cows experiencing subacute ruminal acidosis. Journal of Dairy Science, 2018, 101, 9559-9574.	1.4	33
1017	Prepartal high-energy feeding with grass silage-based diets does not disturb the hepatic adaptation of dairy cows during the periparturient period. Journal of Dairy Science, 2018, 101, 8929-8943.	1.4	4
1018	Unveiling the lager beer volatile terpenic compounds. Food Research International, 2018, 114, 199-207.	2.9	22
1019	Metabolic profiling putatively identifies plasma biomarkers of male infertility using UPLC-ESI-IT-TOFMS. RSC Advances, 2018, 8, 25974-25982.	1.7	5

#	Article	IF	Citations
1020	Fifty Percent Human â€“ how art brings us in touch with our microbial cohabitants. Microbial Biotechnology, 2018, 11, 571-574.	2.0	4
1021	NMR-based urine metabolic profiling and immunohistochemistry analysis of nephron changes in a mouse model of hypoxia-induced acute kidney injury. American Journal of Physiology - Renal Physiology, 2018, 315, F1159-F1173.	1.3	17
1022	Transcriptional Profiling Suggests Extensive Metabolic Rewiring of Human and Mouse Macrophages during Early Interferon Alpha Responses. Mediators of Inflammation, 2018, 2018, 1-15.	1.4	11
1023	Metabolic Characterization of Peripheral Host Responses to Drainage-Resistant Klebsiella pneumoniae Liver Abscesses by Serum 1H-NMR Spectroscopy. Frontiers in Cellular and Infection Microbiology, 2018, 8, 174.	1.8	8
1024	Growth of Malignant Non-CNS Tumors Alters Brain Metabolome. Frontiers in Genetics, 2018, 9, 41.	1.1	2
1025	Serum Metabolic Profiling of Oocyst-Induced Toxoplasma gondii Acute and Chronic Infections in Mice Using Mass-Spectrometry. Frontiers in Microbiology, 2017, 8, 2612.	1.5	40
1026	Promising Metabolite Profiles in the Plasma and CSF of Early Clinical Parkinson's Disease. Frontiers in Aging Neuroscience, 2018, 10, 51.	1.7	74
1027	Metabolomic Profiles for Primary Progressive Multiple Sclerosis Stratification and Disease Course Monitoring. Frontiers in Human Neuroscience, 2018, 12, 226.	1.0	47
1028	Metabolic Profile of Oral Squamous Carcinoma Cell Lines Relies on a Higher Demand of Lipid Metabolism in Metastatic Cells. Frontiers in Oncology, 2018, 8, 13.	1.3	31
1029	Molecular Signatures of High-Grade Cervical Lesions. Frontiers in Oncology, 2018, 8, 99.	1.3	12
1030	Profiling of epidermal lipids in a mouse model of dermatitis: Identification of potential biomarkers. PLoS ONE, 2018, 13, e0196595.	1.1	26
1031	Interactive effects of temperature and copper toxicity on photosynthetic efficiency and metabolic plasticity in Scenedesmus quadricauda (Chlorophyceae). Journal of Applied Phycology, 2018, 30, 3029-3041.	1.5	20
1032	Comparative Metabolomics Elucidates Postprandial Metabolic Modifications in Plasma of Obese Individuals with Metabolic Syndrome. Journal of Proteome Research, 2018, 17, 2850-2860.	1.8	7
1033	Unveiling â€œMusica Universalisâ€•of the Cell: A Brief History of Biological 12-Hour Rhythms. Journal of the Endocrine Society, 2018, 2, 727-752.	0.1	38
1034	Unraveling the cause of white striping in broilers using metabolomics. Poultry Science, 2018, 97, 3977-3986.	1.5	73
1035	The Use of Metabolomics to Elucidate Resistance Markers against Damson-Hop Aphid. Journal of Chemical Ecology, 2018, 44, 711-726.	0.9	5
1036	Development of outbred CD1 mouse colonies with distinct standardized gut microbiota profiles for use in complex microbiota targeted studies. Scientific Reports, 2018, 8, 10107.	1.6	30
1037	Metabolic Profiling of Dendrobium officinale in Response to Precursors and Methyl Jasmonate. International Journal of Molecular Sciences, 2018, 19, 728.	1.8	30

#	Article	IF	Citations
1038	RaMP: A Comprehensive Relational Database of Metabolomics Pathways for Pathway Enrichment Analysis of Genes and Metabolites. Metabolites, 2018, 8, 16.	1.3	32
1039	Identification of Nutritional Components in Black Sesame Determined by Widely Targeted Metabolomics and Traditional Chinese Medicines. Molecules, 2018, 23, 1180.	1.7	87
1040	Breast Milk Lipidome Is Associated with Early Growth Trajectory in Preterm Infants. Nutrients, 2018, 10, 164.	1.7	49
1041	NMR-based metabolic profiling of urine, serum, fecal, and pancreatic tissue samples from the Ptf1a-Cre; LSL-KrasG12D transgenic mouse model of pancreatic cancer. PLoS ONE, 2018, 13, e0200658.	1.1	11
1042	Urine metabolome analysis by gas chromatographyâ€“mass spectrometry (GCâ€“MS): Standardization and optimization of protocols for urea removal and short-term sample storage. Clinica Chimica Acta, 2018, 485, 236-242.	0.5	17
1043	Dietary non-fermentable fiber prevents autoimmune neurological disease by changing gut metabolic and immune status. Scientific Reports, 2018, 8, 10431.	1.6	63
1044	Bioinformatics Approaches for Genomics and Post Genomics Applications of Anticancer Plants. , 2018, , 283-317.		3
1045	Benzoxaborole treatment perturbs S-adenosyl-L-methionine metabolism in Trypanosoma brucei. PLoS Neglected Tropical Diseases, 2018, 12, e0006450.	1.3	33
1046	Metaproteomics reveals associations between microbiome and intestinal extracellular vesicle proteins in pediatric inflammatory bowel disease. Nature Communications, 2018, 9, 2873.	5.8	209
1047	Metabolic Phenotyping and Strain Characterisation of Pseudomonas aeruginosa Isolates from Cystic Fibrosis Patients Using Rapid Evaporative Ionisation Mass Spectrometry. Scientific Reports, 2018, 8, 10952.	1.6	22
1048	Methyl salicylate differently affects benzenoid and terpenoid volatile emissions in Betula pendula. Tree Physiology, 2018, 38, 1513-1525.	1.4	18
1049	An Interferon Signature Discriminates Pneumococcal From Staphylococcal Pneumonia. Frontiers in Immunology, 2018, 9, 1424.	2.2	11
1050	The Development of Microbiota and Metabolome in Small Intestine of Sika Deer (Cervus nippon) from Birth to Weaning. Frontiers in Microbiology, 2018, 9, 4.	1.5	41
1051	Identification of novel lipid modifications and intermembrane dynamics in Corynebacterium glutamicum using high-resolution mass spectrometry [S]. Journal of Lipid Research, 2018, 59, 1190-1204.	2.0	29
1052	PKM2-dependent metabolic reprogramming in CD4+ T cells is crucial for hyperhomocysteinemia-accelerated atherosclerosis. Journal of Molecular Medicine, 2018, 96, 585-600.	1.7	56
1053	Blocking hexose entry into glycolysis activates alternative metabolic conversion of these sugars and upregulates pentose metabolism in Aspergillus nidulans. BMC Genomics, 2018, 19, 214.	1.2	11
1054	Lower plasma trans-4-hydroxyproline and methionine sulfoxide levels are associated with insulin dysregulation in horses. BMC Veterinary Research, 2018, 14, 146.	0.7	18
1055	Associations of the plasma lipidome with mortality in the acute respiratory distress syndrome: a longitudinal cohort study. Respiratory Research, 2018, 19, 60.	1.4	26

#	Article	IF	Citations
1056	Accurate and easy method for systemin quantification and examining metabolic changes under different endogenous levels. Plant Methods, 2018, 14, 33.	1.9	25
1057	Screening of salivary volatiles for putative breast cancer discrimination: an exploratory study involving geographically distant populations. Analytical and Bioanalytical Chemistry, 2018, 410, 4459-4468.	1.9	46
1058	The metabolic survival strategy of marine macroalga Ulva prolifera under temperature stress. Journal of Applied Phycology, 2018, 30, 3611-3621.	1.5	24
1059	NMR metabolomic study of blood plasma in ischemic and ischemically preconditioned rats: an increased level of ketone bodies and decreased content of glycolytic products 24Âh after global cerebral ischemia. Journal of Physiology and Biochemistry, 2018, 74, 417-429.	1.3	25
1060	Identification of Urine Metabolites as Biomarkers of Early Lyme Disease. Scientific Reports, 2018, 8, 12204.	1.6	18
1061	Phospholipidome of endothelial cells shows a different adaptation response upon oxidative, glycative and lipoxidative stress. Scientific Reports, 2018, 8, 12365.	1.6	29
1062	Intake of stigmasterol and Î²-sitosterol alters lipid metabolism and alleviates NAFLD in mice fed a high-fat western-style diet. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1274-1284.	1.2	111
1063	Global metabolomic responses in urine from atm deficient mice in response to LD_{50/30} gamma irradiation doses. Environmental and Molecular Mutagenesis, 2018, 59, 576-585.	0.9	7
1064	Tissue metabolite profiles for the characterisation of paediatric cerebellar tumours. Scientific Reports, 2018, 8, 11992.	1.6	24
1065	LXR/RXR signaling and neutrophil phenotype following myocardial infarction classify sex differences in remodeling. Basic Research in Cardiology, 2018, 113, 40.	2.5	86
1066	A Study of NMR-Based Hepatic and Serum Metabolomics in a Liver Injury Sprague–Dawley Rat Model Induced by Psoralen. Chemical Research in Toxicology, 2018, 31, 852-860.	1.7	20
1067	Metabolome Analysis of Multi-Connected Biparental Chromosome Segment Substitution Line Populations. Plant Physiology, 2018, 178, 612-625.	2.3	25
1068	Vaginal lipidomics of women with vulvovaginal candidiasis and cytolytic vaginosis: A non-targeted LC-MS pilot study. PLoS ONE, 2018, 13, e0202401.	1.1	11
1069	Saliva of patients affected by salivary gland tumour: An NMR metabolomics analysis. Journal of Pharmaceutical and Biomedical Analysis, 2018, 160, 436-442.	1.4	16
1070	Subcellular Peptide Localization in Single Identified Neurons by Capillary Microsampling Mass Spectrometry. Scientific Reports, 2018, 8, 12227.	1.6	24
1071	Acid stress induces differential accumulation of metabolites inEscherichia coliO26:H11. Journal of Applied Microbiology, 2018, 125, 1911-1919.	1.4	31
1072	A fingerprinting metabolomic approach reveals deregulation of endogenous metabolites after the intake of a bioactive garlic supplement. Journal of Functional Foods, 2018, 49, 137-145.	1.6	9
1073	Plant and soil P determine functional attributes of subalpine Australian plants. Arctic, Antarctic, and Alpine Research, 2018, 50, .	0.4	6

#	Article	IF	Citations
1074	Methionine Restriction Extends Lifespan in Progeroid Mice and Alters Lipid and Bile Acid Metabolism. Cell Reports, 2018, 24, 2392-2403.	2.9	125
1075	Increases in bioactive lipids accompany early metabolic changes associated with Î²-cell expansion in response to short-term high-fat diet. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E1251-E1263.	1.8	5
1076	Differential antioxidative and biochemical responses to aluminium stress in Brassica juncea cultivars. Horticulture Environment and Biotechnology, 2018, 59, 615-627.	0.7	20
1077	Untargeted rat brain metabolomics after oral administration of a single high dose of cannabidiol. Journal of Pharmaceutical and Biomedical Analysis, 2018, 161, 1-11.	1.4	21
1078	Clinical validation of molecular markers of macrocyclic lactone resistance in Dirofilaria immitis. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 596-606.	1.4	41
1079	Metabolic and immunological responses of male and female new Zealand Greenshellâ„¢ mussels (Perna) Tj ETQq1 1 0.784314 rgBT /O	1.5	56
1080	Beta-hydroxybutyrate infusion identifies acutely differentially expressed genes related to metabolism and reproduction in the hypothalamus and pituitary of castrated male sheep. Physiological Genomics, 2018, 50, 468-477.	1.0	2
1081	Cyclocarya paliurus Leaves Tea Improves Dyslipidemia in Diabetic Mice: A Lipidomics-Based Network Pharmacology Study. Frontiers in Pharmacology, 2018, 9, 973.	1.6	48
1082	Early behavioral and metabolomic change after mild to moderate traumatic brain injury in the developing brain. Neurochemistry International, 2018, 120, 75-86.	1.9	25
1083	statTarget: A streamlined tool for signal drift correction and interpretations of quantitative mass spectrometry-based omics data. Analytica Chimica Acta, 2018, 1036, 66-72.	2.6	126
1084	The role of lipids in the inception, maintenance and complications of dengue virus infection. Scientific Reports, 2018, 8, 11826.	1.6	31
1085	3-Hydroxypyruvate Destabilizes Hypoxia Inducible Factor and Induces Angiostasis. , 2018, 59, 3440.		9
1086	Metabolite-related antidepressant action of diterpene ginkgolides in the prefrontal cortex. Neuropsychiatric Disease and Treatment, 2018, Volume 14, 999-1011.	1.0	24
1087	Investigation of altered urinary metabolomic profiles of invasive ductal carcinoma of breast using targeted and untargeted approaches. Metabolomics, 2018, 14, 107.	1.4	3
1088	Multi-strain probiotics enhance immune responsiveness and alters metabolic profiles in the New Zealand black-footed abalone (Haliotis iris). Fish and Shellfish Immunology, 2018, 82, 330-338.	1.6	37
1089	Metabolome changes are induced in the arbuscular mycorrhizal fungus Gigaspora margarita by germination and by its bacterial endosymbiont. Mycorrhiza, 2018, 28, 421-433.	1.3	17
1090	Unbiased lipidomic profiling reveals metabolomic changes during the onset and antipsychotics treatment of schizophrenia disease. Metabolomics, 2018, 14, 80.	1.4	17
1091	Mapping macrophage polarization over the myocardial infarction time continuum. Basic Research in Cardiology, 2018, 113, 26.	2.5	189

#	Article	IF	Citations
1092	Highâ€resolution gas chromatography/mass spectrometry metabolomics of nonâ€human primate serum. Rapid Communications in Mass Spectrometry, 2018, 32, 1497-1506.	0.7	33
1093	Effects of atopic dermatitis and gender on sebum lipid mediator and fatty acid profiles. Prostaglandins Leukotrienes and Essential Fatty Acids, 2018, 134, 7-16.	1.0	25
1094	Multiscale Approach to Deciphering the Molecular Mechanisms Involved in the Direct and Intergenerational Effect of Ibuprofen on Mosquito Aedes aegypti. Environmental Science & Technology, 2018, 52, 7937-7950.	4.6	14
1095	Preparation of Drosophila Larval Samples for Gas Chromatography-Mass Spectrometry (GC-MS)-based Metabolomics. Journal of Visualized Experiments, 2018, , .	0.2	15
1096	Analysis of salivary phenotypes of generalized aggressive and chronic periodontitis through nuclear magnetic resonanceâ€based metabolomics. Journal of Periodontology, 2018, 89, 1452-1460.	1.7	46
1097	Copper-induced immunomodulation in mussel (Perna canaliculus) haemocytes. Metallomics, 2018, 10, 965-978.	1.0	58
1098	Metabolomics Reveals How Cucumber (Cucumis sativus) Reprograms Metabolites To Cope with Silver Ions and Silver Nanoparticle-Induced Oxidative Stress. Environmental Science & Technology, 2018, 52, 8016-8026.	4.6	165
1099	Identification of specific metabolic pathways as druggable targets regulating the sensitivity to cyanide poisoning. PLoS ONE, 2018, 13, e0193889.	1.1	12
1100	Bladder cancer recurrence surveillance by urine metabolomics analysis. Scientific Reports, 2018, 8, 9172.	1.6	54
1101	Metabolomics and Lipidomics of Ischemic Stroke. Advances in Clinical Chemistry, 2018, 85, 31-69.	1.8	84
1102	Metabolic variation in the pulps of two durian cultivars: Unraveling the metabolites that contribute to the flavor. Food Chemistry, 2018, 268, 118-125.	4.2	40
1103	Untargeted metabolomics reveals distinct metabolic reprogramming in endothelial cells co-cultured with CSC and non-CSC prostate cancer cell subpopulations. PLoS ONE, 2018, 13, e0192175.	1.1	13
1104	Autonomous Multimodal Metabolomics Data Integration for Comprehensive Pathway Analysis and Systems Biology. Analytical Chemistry, 2018, 90, 8396-8403.	3.2	24
1105	speaq 2.0: A complete workflow for high-throughput 1D NMR spectra processing and quantification. PLoS Computational Biology, 2018, 14, e1006018.	1.5	42
1106	Integration of non-targeted metabolomics and automated determination of elemental compositions for comprehensive alkaloid profiling in plants. Phytochemistry, 2018, 154, 1-9.	1.4	10
1107	The Endosomal Protein CEMIP Links WNT Signaling to MEK1â€“ERK1/2 Activation in Selumetinib-Resistant Intestinal Organoids. Cancer Research, 2018, 78, 4533-4548.	0.4	30
1108	Metabolomic markers of fertility in bull seminal plasma. PLoS ONE, 2018, 13, e0195279.	1.1	70
1109	Metabolomics of Seaweeds. , 2018, , 37-52.		17

#	Article	IF	Citations
1110	Metabolomic analysis of indolepyruvate decarboxylase pathway derivatives in the rhizobacterium Enterobacter cloacae. Rhizosphere, 2018, 6, 98-111.	1.4	8
1111	Discovering variation of secondary metabolite diversity and its relationship with disease resistance in Cornus florida L.. Ecology and Evolution, 2018, 8, 5619-5636.	0.8	19
1112	Comparative assessment of Gravesâ€™ disease and main extrathyroidal manifestation, Gravesâ€™ ophthalmopathy, by non-targeted metabolite profiling of blood and orbital tissue. Scientific Reports, 2018, 8, 9262.	1.6	24
1113	Isolation and profiling of plasma microRNAs: Biomarkers for asthma and allergic rhinitis. Methods, 2019, 152, 48-54.	1.9	9
1114	Metabolite assignment of ultrafiltered synovial fluid extracted from knee joints of reactive arthritis patients using high resolution <scp>NMR</scp> spectroscopy. Magnetic Resonance in Chemistry, 2019, 57, 30-43.	1.1	8
1115	Irrigationâ€induced salinity affects olive oil quality and healthâ€promoting properties. Journal of the Science of Food and Agriculture, 2019, 99, 1180-1189.	1.7	15
1116	Distinct disruptions in Land's cycle remodeling of glycerophosphocholines in murine cortex mark symptomatic onset and progression in two Alzheimer's disease mouse models. Journal of Neurochemistry, 2019, 149, 499-517.	2.1	23
1117	Integrative Analysis of Multi-Omics Data. , 2019, , 194-199.		1
1118	Mass Spectrometry-Based Metabolomic Analysis. , 2019, , 410-425.		1
1119	Metabolome Analysis. , 2019, , 396-409.		3
1120	Cystathionine Î³ Lyase Sulfhydrates the RNA Binding Protein Human Antigen R to Preserve Endothelial Cell Function and Delay Atherogenesis. Circulation, 2019, 139, 101-114.	1.6	103
1121	Gastropods and Insects Prefer Different Solanum dulcamara Chemotypes. Journal of Chemical Ecology, 2019, 45, 146-161.	0.9	13
1122	Rapid volatiles fingerprinting by dopant-assisted positive photoionization ion mobility spectrometry for discrimination and characterization of Green Tea aromas. Talanta, 2019, 191, 39-45.	2.9	32
1123	Combined targeted and untargeted profiling of volatile aroma compounds with comprehensive two-dimensional gas chromatography for differentiation of virgin olive oils according to variety and geographical origin. Food Chemistry, 2019, 270, 403-414.	4.2	78
1124	Nuclear magnetic resonance (NMR)â€based metabolomics for cancer research. NMR in Biomedicine, 2019, 32, e3916.	1.6	20
1125	Metabolic impact of red blood cell exchange with rejuvenated red blood cells in sickle cell patients. Transfusion, 2019, 59, 3102-3112.	0.8	23
1126	Metabolic reprogramming orchestrates CD4+ T-cell immunological status and restores cardiac dysfunction in autoimmune induced-dilated cardiomyopathy mice. Journal of Molecular and Cellular Cardiology, 2019, 135, 134-148.	0.9	17
1127	Metabolite Transformation and Enzyme Activities of Hainan Vanilla Beans During Curing to Improve Flavor Formation. Molecules, 2019, 24, 2781.	1.7	4

#	Article	IF	Citations
1128	The metabolic alteration and apparent preservation of the zombie ant brain. Journal of Insect Physiology, 2019, 118, 103918.	0.9	20
1129	Metabolomics Investigation of Voriconazole-Induced Hepatotoxicity in Mice. Chemical Research in Toxicology, 2019, 32, 1840-1849.	1.7	13
1130	Neutrophil proteome shifts over the myocardial infarction time continuum. Basic Research in Cardiology, 2019, 114, 37.	2.5	78
1131	Untargeted metabolomics analysis of rat hippocampus subjected to sleep fragmentation. Brain Research Bulletin, 2019, 153, 74-83.	1.4	22
1132	Non-Targeted Metabolomics Reveals Patterns of Metabolic Changes during Poplar Seed Germination. Forests, 2019, 10, 659.	0.9	5
1133	The biosynthetic origin of psychoactive kavalactones in kava. Nature Plants, 2019, 5, 867-878.	4.7	58
1134	Changes in the Serum Metabolome of Acute Myocardial Ischemia Rat Pretreatment with Electroacupuncture. The American Journal of Chinese Medicine, 2019, 47, 1025-1041.	1.5	14
1135	MVApp Flies Its Flag to the Challenging Frontier of Multivariate Data Analysis. Plant Physiology, 2019, 180, 1251-1252.	2.3	0
1136	Quantitative Metabolomics Analysis of Depression based on PLS-DA Model. , 2019, , .		3
1137	Identification of Metabolic Changes in Ileum, Jejunum, Skeletal Muscle, Liver, and Lung in a Continuous I.V. Pseudomonas aeruginosa Model of Sepsis Using Nontargeted Metabolomics Analysis. American Journal of Pathology, 2019, 189, 1797-1813.	1.9	16
1138	Mass Spectral Similarity Networking and Gas-Phase Fragmentation Reactions in the Structural Analysis of Flavonoid Glycoconjugates. Analytical Chemistry, 2019, 91, 10413-10423.	3.2	36
1139	Traditional Chinese Medicine-Based Subtyping of Early-Stage Type 2 Diabetes Using Plasma Metabolomics Combined with Ultra-Weak Photon Emission. Engineering, 2019, 5, 916-923.	3.2	9
1140	Metabolomics technology and bioinformatics for precision medicine. Briefings in Bioinformatics, 2019, 20, 1957-1971.	3.2	88
1141	CD8⁺T-cells negatively regulate inflammation post-myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H581-H596.	1.5	56
1142	Tremorgenic effects and functional metabolomics analysis of lolitrem B and its biosynthetic intermediates. Scientific Reports, 2019, 9, 9364.	1.6	13
1143	Developmental origins of ovarian disorder: impact of maternal lean gestational diabetes on the offspring ovarian proteome in miceâ€. Biology of Reproduction, 2019, 101, 771-781.	1.2	12
1144	Metabolomic Analysis Identifies Alterations of Amino Acid Metabolome Signatures in the Postmortem Brain of Alzheimer's Disease. Experimental Neurobiology, 2019, 28, 376-389.	0.7	26
1145	Chemical defense responses of upland cotton, Gossypium hirsutum L. to physical wounding. Plant Direct, 2019, 3, e00141.	0.8	16

#	Article	IF	Citations
1146	Sphingolipidomics Investigation of the Temporal Dynamics after Ischemic Brain Injury. Journal of Proteome Research, 2019, 18, 3470-3478.	1.8	20
1147	Host-dependent nitrogen recycling as a mechanism of symbiont control in Aiptasia. PLoS Genetics, 2019, 15, e1008189.	1.5	73
1148	Comprehensive metabolic responses of HepG2 cells to fine particulate matter exposure: Insights from an untargeted metabolomics. Science of the Total Environment, 2019, 691, 874-884.	3.9	22
1149	Single-Cell RNA-Sequencing and Metabolomics Analyses Reveal the Contribution of Perivascular Adipose Tissue Stem Cells to Vascular Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2049-2066.	1.1	72
1150	Neurodevelopmental and Metabolomic Responses from Prenatal Coexposure to Perfluorooctanesulfonate (PFOS) and Methylmercury (MeHg) in Sprague–Dawley Rats. Chemical Research in Toxicology, 2019, 32, 1656-1669.	1.7	25
1151	Metabolic features of Gulf War illness. PLoS ONE, 2019, 14, e0219531.	1.1	29
1152	Metabolic profiling in children with autism spectrum disorder with and without mental regression: preliminary results from a cross-sectional case–control study. Metabolomics, 2019, 15, 99.	1.4	32
1153	Cheminformatics approach to exploring and modeling trait-associated metabolite profiles. Journal of Cheminformatics, 2019, 11, 43.	2.8	10
1154	Impact of acute handling stress, anaesthesia, and euthanasia on fish plasma biochemistry: implications for veterinary screening and metabolomic sampling. Fish Physiology and Biochemistry, 2019, 45, 1485-1494.	0.9	35
1155	Urinary Metabolic Signatures Detect Recurrences in Non-Muscle Invasive Bladder Cancer. Cancers, 2019, 11, 914.	1.7	19
1156	The Effects of Age and Reproduction on the Lipidome ofCaenorhabditis elegans. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-14.	1.9	15
1157	Cellular Metabolomics Reveal the Mechanism Underlying the Anti-Atherosclerotic Effects of Aspirin Eugenol Ester on Vascular Endothelial Dysfunction. International Journal of Molecular Sciences, 2019, 20, 3165.	1.8	15
1158	Multiple metabolic pathways are predictive of ricin intoxication in a rat model. Metabolomics, 2019, 15, 102.	1.4	8
1159	Shape-dependent toxicity of alumina nanoparticles in rat astrocytes. Science of the Total Environment, 2019, 690, 158-166.	3.9	58
1160	A Single Visualization Technique for Displaying Multiple Metabolite–Phenotype Associations. Metabolites, 2019, 9, 128.	1.3	15
1161	Passively Sampled Environmental Films Show Geographic Variability and Host a Variety of Microorganisms. ACS Earth and Space Chemistry, 2019, 3, 2726-2735.	1.2	4
1162	Base-Station Antennas in Wireless Communications: A Low-Profile-Loop, Resonator-Loaded Broadband Antenna [Wireless Corner]. IEEE Antennas and Propagation Magazine, 2019, 61, 127-137.	1.2	5
1163	Study of Fecal and Urinary Metabolite Perturbations Induced by Chronic Ethanol Treatment in Mice by UHPLC-MS/MS Targeted Profiling. Metabolites, 2019, 9, 232.	1.3	16

#	Article	IF	Citations
1164	Using MetaboAnalyst 4.0 for Comprehensive and Integrative Metabolomics Data Analysis. Current Protocols in Bioinformatics, 2019, 68, e86.	25.8	1,644
1166	Tissue Proteome Signatures Associated with Five Grades of Prostate Cancer and Benign Prostatic Hyperplasia. Proteomics, 2019, 19, e1900174.	1.3	27
1167	Metabolic profiling of liver tissues in mice after instillation of fine particulate matter. Science of the Total Environment, 2019, 696, 133974.	3.9	20
1168	A Multifunctional Platinum Nanoreactor for Point-of-Care Metabolic Analysis. Matter, 2019, 1, 1669-1680.	5.0	88
1169	A Bioinformatics Guide to Plant Microbiome Analysis. Frontiers in Plant Science, 2019, 10, 1313.	1.7	54
1170	Distinguish metabolic profiles and defense enzymes in Alternaria leaf blight resistant and susceptible genotypes of groundnut. Physiology and Molecular Biology of Plants, 2019, 25, 1395-1405.	1.4	11
1171	Type 1 diabetes induces cognitive dysfunction in rats associated with alterations of the gut microbiome and metabolomes in serum and hippocampus. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 165541.	1.8	85
1172	Synergistic Combination of Polymyxin B and Enrofloxacin Induced Metabolic Perturbations in Extensive Drug-Resistant Pseudomonas aeruginosa. Frontiers in Pharmacology, 2019, 10, 1146.	1.6	17
1173	Metabolic profile analysis and identification of key metabolites during rice seed germination under low-temperature stress. Plant Science, 2019, 289, 110282.	1.7	75
1174	Antineoplastic properties of zafirlukast against hepatocellular carcinoma via activation of mitochondrial mediated apoptosis. Regulatory Toxicology and Pharmacology, 2019, 109, 104489.	1.3	11
1176	The oomycete Lagenisma coscinodisci hijacks host alkaloid synthesis during infection of a marine diatom. Nature Communications, 2019, 10, 4938.	5.8	14
1177	Effect of Fermented Cottonseed Meal on the Lipid-Related Indices and Serum Metabolic Profiles in Broiler Chickens. Animals, 2019, 9, 930.	1.0	18
1178	Disruption of the mouse Shmt2 gene confers embryonic anaemia via foetal liver-specific metabolomic disorders. Scientific Reports, 2019, 9, 16054.	1.6	8
1179	Metabolomic Analysis of Influenza A Virus A/WSN/1933 (H1N1) Infected A549 Cells during First Cycle of Viral Replication. Viruses, 2019, 11, 1007.	1.5	35
1180	Metabolomic biomarkers in cervicovaginal fluid for detecting endometrial cancer through nuclear magnetic resonance spectroscopy. Metabolomics, 2019, 15, 146.	1.4	28
1181	Metabolome and ionome analyses reveal the stoichiometric effects of contrasting geological phosphorus soils on seed-parasitic insects in subtropical oak forests. Chemoecology, 2019, 29, 199-210.	0.6	1
1182	Omics Approaches to Understanding Muscle Biology. , 2019, , .		3
1183	A metabolic profile of routine needle biopsies identified tumor type specific metabolic signatures for breast cancer stratification: a pilot study. Metabolomics, 2019, 15, 147.	1.4	10

#	Article	IF	Citations
1184	Metabolic dysregulation in vitaminÂE and carnitine shuttle energy mechanisms associate with human frailty. Nature Communications, 2019, 10, 5027.	5.8	70
1185	Risk Factor for Residue After Uterine Artery Chemotherapy and Embolization in Combination with Dilatation and Curettage for Treating Caesarean Scar Pregnancy. Current Molecular Medicine, 2019, 19, 525-531.	0.6	3
1186	Inter-Varietal Diversity of Typical Volatile and Phenolic Profiles of Croatian Extra Virgin Olive Oils as Revealed by GC-IT-MS and UPLC-DAD Analysis. Foods, 2019, 8, 565.	1.9	20
1187	Plasma metabolomics and clinical predictors of survival differences in COPD patients. Respiratory Research, 2019, 20, 219.	1.4	22
1188	Lipidomics of Brain Tissues in Rats Fed Human Milk from Chinese Mothers or Commercial Infant Formula. Metabolites, 2019, 9, 253.	1.3	20
1189	In Vitro and In Vivo Metabolomic Profiling after Infection with Virulent Newcastle Disease Virus. Viruses, 2019, 11, 962.	1.5	19
1190	Metabolomics responses of Bambusa pervariabilis Ã— Dendrocalamopsis grandis varieties to Biotic (pathogenic fungus) stress. Phytochemistry, 2019, 167, 112087.	1.4	7
1191	NMR-Based Metabolomics. Methods in Molecular Biology, 2019, , .	0.4	9
1192	Identification of Msp1-Induced Signaling Components in Rice Leaves by Integrated Proteomic and Phosphoproteomic Analysis. International Journal of Molecular Sciences, 2019, 20, 4135.	1.8	30
1193	Salicylic acid modulates primary and volatile metabolites to alleviate salt stress-induced photosynthesis impairment on medicinal plant Egletes viscosa. Environmental and Experimental Botany, 2019, 167, 103870.	2.0	46
1194	The effect of data integration on LC-MS-based metabolomics data: evaluation on the comparative classification capacities. IOP Conference Series: Earth and Environmental Science, 2019, 252, 032166.	0.2	0
1195	Stem Cells and Aging. Methods in Molecular Biology, 2019, , .	0.4	2
1196	Coordinate Regulation of Cholesterol and Bile Acid Metabolism by the Clock Modifier Nobiletin in Metabolically Challenged Old Mice. International Journal of Molecular Sciences, 2019, 20, 4281.	1.8	35
1197	Tâ€cellâ€“derived extracellular vesicles regulate Bâ€cell IgG productionviapyruvate kinase muscle isozyme 2. FASEB Journal, 2019, 33, 12780-12799.	0.2	14
1198	Evaluation of sodium deoxycholate as solubilization buffer for oil palm proteomics analysis. PLoS ONE, 2019, 14, e0221052.	1.1	17
1199	Investigating the modulation of metabolites under high light in mixotrophic alga Asteracys sp. using a metabolomic approach. Algal Research, 2019, 43, 101646.	2.4	11
1200	Interspecies Comparative Analyses Reveal Distinct Carbohydrate-Responsive Systems among Drosophila Species. Cell Reports, 2019, 28, 2594-2607.e7.	2.9	33
1201	Serum metabolomic alterations in Beagle dogs experimentally infected with Toxocara canis. Parasites and Vectors, 2019, 12, 447.	1.0	32

#	Article	IF	Citations
1202	Dramatic Remodeling of the Gut Microbiome Around Parturition and Its Relationship With Host Serum Metabolic Changes in Sows. Frontiers in Microbiology, 2019, 10, 2123.	1.5	22
1203	Numerical investigation on erosion characteristics of coplanar elbows connection for gas-solid flow. Energy Procedia, 2019, 158, 5245-5250.	1.8	5
1204	Untargeted Metabolomics for Autism Spectrum Disorders: Current Status and Future Directions. Frontiers in Psychiatry, 2019, 10, 647.	1.3	53
1205	Metabolomics and transcriptomics reveal defense mechanism of rice (Oryza sativa) grains under stress of 2,2â€²,4,4â€²-tetrabromodiphenyl ether. Environment International, 2019, 133, 105154.	4.8	66
1206	A Mutation in the Mitochondrial Aspartate/Glutamate Carrier Leads to a More Oxidizing Intramitochondrial Environment and an Inflammatory Myopathy in Dutch Shepherd Dogs. Journal of Neuromuscular Diseases, 2019, 6, 485-501.	1.1	11
1207	Carum carvi L. essential oil: A promising candidate for botanical herbicide against Echinochloa crus-galli (L.) P. Beauv. in maize cultivation. Industrial Crops and Products, 2019, 140, 111652.	2.5	33
1208	Bio-Inspired Silver Nanoparticles Impose Metabolic and Epigenetic Toxicity to Saccharomyces cerevisiae. Frontiers in Pharmacology, 2019, 10, 1016.	1.6	24
1209	Metabolome and microbiome profiling of a stress-sensitive rat model of gut-brain axis dysfunction. Scientific Reports, 2019, 9, 14026.	1.6	23
1210	The metaRbolomics Toolbox in Bioconductor and beyond. Metabolites, 2019, 9, 200.	1.3	64
1211	Autophagy and Inflammasome Activation in Dilated Cardiomyopathy. Journal of Clinical Medicine, 2019, 8, 1519.	1.0	32
1212	Antibiotic Exposure Disturbs the Gut Microbiota and Its Metabolic Phenotype Differently in Rats with Advanced-Stage Type 1 Diabetes and Age-Matched Controls. Journal of Proteome Research, 2019, 18, 3944-3954.	1.8	2
1213	Comparative serum metabolomics between SCID mice and BALB/c mice with or without Schistosoma japonicum infection: Clues to the abnormal growth and development of schistosome in SCID mice. Acta Tropica, 2019, 200, 105186.	0.9	9
1214	Evaluation of Direct from Sample Metabolomics of Human Feces Using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2019, 91, 13448-13457.	3.2	22
1215	An Integrated Gaussian Graphical Model to evaluate the impact of exposures on metabolic networks. Computers in Biology and Medicine, 2019, 114, 103417.	3.9	5
1216	Maizesugary enhancer1(se1) is a gene affecting endosperm starch metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20776-20785.	3.3	36
1217	Effect of developmental exposure to bisphenol A on steroid hormone and vitamin D3 metabolism. Chemosphere, 2019, 237, 124469.	4.2	16
1218	Inflammation markers in the saliva of infants born from Zika-infected mothers: exploring potential mechanisms of microcephaly during fetal development. Scientific Reports, 2019, 9, 13606.	1.6	18
1219	Metabolomics reveals the role of acetyl-<scp>l</scp>-carnitine metabolism in Î³-Fe₂O₃ NP-induced embryonic development toxicity via mitochondria damage. Nanotoxicology, 2019, 13, 204-220.	1.6	17

#	Article	IF	Citations
1220	Floral plasticity: Herbivoreâ€speciesâ€specificâ€induced changes in flower traits with contrasting effects on pollinator visitation. Plant, Cell and Environment, 2019, 42, 1882-1896.	2.8	55
1221	Biochemical Differences in Cerebrospinal Fluid between Secondary Progressive and Relapsingâ€“Remitting Multiple Sclerosis. Cells, 2019, 8, 84.	1.8	35
1222	STC1 and PTHrP Modify Carbohydrate and Lipid Metabolism in Liver of a Teleost Fish. Scientific Reports, 2019, 9, 723.	1.6	8
1223	Broad range metabolomics coupled with network analysis for explaining possible mechanisms of Er-Zhi-Wan in treating liver-kidney Yin deficiency syndrome of Traditional Chinese medicine. Journal of Ethnopharmacology, 2019, 234, 57-66.	2.0	17
1224	Analysis of Mucopolysaccharidosis Type VI through Integrative Functional Metabolomics. International Journal of Molecular Sciences, 2019, 20, 446.	1.8	18
1225	High-throughput metabolic profiling, combined with chemometrics and bioinformatic analysis reveals functional alterations in myocardial dysfunction. RSC Advances, 2019, 9, 3351-3358.	1.7	1
1226	An Integrative Data Mining and Omics-Based Translational Model for the Identification and Validation of Oncogenic Biomarkers of Pancreatic Cancer. Cancers, 2019, 11, 155.	1.7	39
1227	Amitriptyline at an Environmentally Relevant Concentration Alters the Profile of Metabolites Beyond Monoamines in Giltâ€Head Bream. Environmental Toxicology and Chemistry, 2019, 38, 965-977.	2.2	11
1229	Metabolic consequences of discretionary fortified beverage consumption containing excessive vitamin B levels in adolescents. PLoS ONE, 2019, 14, e0209913.	1.1	8
1230	Insights into cellular metabolic pathways of the combined toxicity responses of Caco-2 cells exposed to deoxynivalenol, zearalenone and Aflatoxin B1. Food and Chemical Toxicology, 2019, 126, 106-112.	1.8	28
1231	Resistance against Sclerotinia sclerotiorum in soybean involves a reprogramming of the phenylpropanoid pathway and upâ€regulation of antifungal activity targeting ergosterol biosynthesis. Plant Biotechnology Journal, 2019, 17, 1567-1581.	4.1	91
1232	The Human Cytomegalovirus UL38 protein drives mTOR-independent metabolic flux reprogramming by inhibiting TSC2. PLoS Pathogens, 2019, 15, e1007569.	2.1	42
1233	Effects of a synbiotic on the fecal microbiome and metabolomic profiles of healthy research cats administered clindamycin: a randomized, controlled trial. Gut Microbes, 2019, 10, 521-539.	4.3	34
1234	A Multilevel Study of Melon Fruit Reticulation Provides Insight into Skin Ligno-Suberization Hallmarks. Plant Physiology, 2019, 179, 1486-1501.	2.3	52
1235	Comparison of the metabolomic profiles of irritable bowel syndrome patients with ulcerative colitis patients and healthy controls: new insights into pathophysiology and potential biomarkers. Alimentary Pharmacology and Therapeutics, 2019, 49, 723-732.	1.9	37
1236	Serum Metabolome Is Associated With the Nasopharyngeal Microbiota and Disease Severity Among Infants With Bronchiolitis. Journal of Infectious Diseases, 2019, 219, 2005-2014.	1.9	24
1237	Metabolomics Analysis of Glutamate Receptor Function. Methods in Molecular Biology, 2019, 1941, 155-165.	0.4	2
1238	Metabolomic Analysis of Defense-Related Reprogramming in Sorghum bicolor in Response to Colletotrichum sublineolum Infection Reveals a Functional Metabolic Web of Phenylpropanoid and Flavonoid Pathways. Frontiers in Plant Science, 2018, 9, 1840.	1.7	83

#	Article	IF	Citations
1239	Characterization of the Lipidomic Profile of Human Coronavirus-Infected Cells: Implications for Lipid Metabolism Remodeling upon Coronavirus Replication. Viruses, 2019, 11, 73.	1.5	228
1240	C60 Fullerols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. Environmental Science & Technology, 2019, 53, 2171-2180.	4.6	53
1241	Evaluation of the bitter components of bamboo shoots using a metabolomics approach. Food and Function, 2019, 10, 90-98.	2.1	20
1242	Health effects of kiwi wine on rats: an untargeted metabolic fingerprint study based on GC-MS/TOF. RSC Advances, 2019, 9, 13797-13807.	1.7	12
1243	Development and application of time staggered/mass staggered-globally optimized targeted mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1120, 80-88.	1.2	5
1244	A prospective pilot study using metabolomics discloses specific fatty acid, catecholamine and tryptophan metabolic pathways as possible predictors for a negative outcome after severe trauma. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2019, 27, 56.	1.1	10
1246	Alteration of intracellular metabolome in osteosarcoma stem cells revealed by liquid chromatography-tandem mass spectrometry. Talanta, 2019, 204, 6-12.	2.9	23
1247	A Data Mining Approach Identified Salivary Biomarkers That Discriminate between Two Obesity Measures. Journal of Obesity, 2019, 2019, 1-7.	1.1	4
1248	Effect of Imidacloprid Uptake from Contaminated Soils on Vegetable Growth. Journal of Agricultural and Food Chemistry, 2019, 67, 7232-7242.	2.4	47
1249	Deciphering the metabolic perturbation in hepatic alveolar echinococcosis: a 1H NMR-based metabolomics study. Parasites and Vectors, 2019, 12, 300.	1.0	15
1250	Joint Analysis of Metabolite Markers of Fish Intake and Persistent Organic Pollutants in Relation to Type 2 Diabetes Risk in Swedish Adults. Journal of Nutrition, 2019, 149, 1413-1423.	1.3	13
1251	Culturable endophytic bacteria of<i>Camellia</i>species endowed with plant growth promoting characteristics. Journal of Applied Microbiology, 2019, 127, 825-844.	1.4	40
1252	Maternal glyphosate-based herbicide exposure alters antioxidant-related genes in the brain and serum metabolites of male rat offspring. NeuroToxicology, 2019, 74, 121-131.	1.4	32
1253	Skeletal muscle PGC-1Î±1 reroutes kynurenine metabolism to increase energy efficiency and fatigue-resistance. Nature Communications, 2019, 10, 2767.	5.8	72
1254	An untargeted fecal and urine metabolomics analysis of the interplay between the gut microbiome, diet and human metabolism in Indian and Chinese adults. Scientific Reports, 2019, 9, 9191.	1.6	66
1255	Association of respiratory viruses with serum metabolome in infants with severe bronchiolitis. Pediatric Allergy and Immunology, 2019, 30, 848-851.	1.1	14
1256	Bacterial diversity and metabolite profiles of curd prepared by natural fermentation of raw milk and back sloping of boiled milk. World Journal of Microbiology and Biotechnology, 2019, 35, 102.	1.7	29
1257	Antibiotic Exposure Has Sex-Dependent Effects on the Gut Microbiota and Metabolism of Short-Chain Fatty Acids and Amino Acids in Mice. MSystems, 2019, 4, .	1.7	42

#	Article	IF	Citations
1258	Lipidomic Signatures Reveal Seasonal Shifts on the Relative Abundance of High-Valued Lipids from the Brown Algae Fucus vesiculosus. Marine Drugs, 2019, 17, 335.	2.2	53
1259	Histone deacetylase activity mediates thermal plasticity in zebrafish (Danio rerio). Scientific Reports, 2019, 9, 8216.	1.6	14
1260	Analysis of an Integrated Human Multiorgan Microphysiological System for Combined Tolcapone Metabolism and Brain Metabolomics. Analytical Chemistry, 2019, 91, 8667-8675.	3.2	30
1261	Metabolomics Analyses from Tissues in Parkinsonâ€™s Disease. Methods in Molecular Biology, 2019, 1996, 217-257.	0.4	14
1262	Consolidated Biochemical Profile of Subacute Stage Traumatic Brain Injury in Early Development. Frontiers in Neuroscience, 2019, 13, 431.	1.4	11
1263	Proteometabolomics of Melphalan Resistance in Multiple Myeloma. Methods in Molecular Biology, 2019, 1996, 273-296.	0.4	6
1264	Adipokinome Signatures in Obese Mouse Models Reflect Adipose Tissue Health and Are Associated with Serum Lipid Composition. International Journal of Molecular Sciences, 2019, 20, 2559.	1.8	17
1265	Metabolomic study of the soybean pastes fermented by the single species Penicillium glabrum GQ1-3 and Aspergillus oryzae HGPA20. Food Chemistry, 2019, 295, 622-629.	4.2	23
1266	Ammonium mediated changes in carbon and nitrogen metabolisms induce resistance against Pseudomonas syringae in tomato plants. Journal of Plant Physiology, 2019, 239, 28-37.	1.6	23
1267	LION/web: a web-based ontology enrichment tool for lipidomic data analysis. GigaScience, 2019, 8, .	3.3	128
1268	Generation and miRNA Characterization of Equine Induced Pluripotent Stem Cells Derived from Fetal and Adult Multipotent Tissues. Stem Cells International, 2019, 2019, 1-15.	1.2	16
1269	Very Low Crude Protein and Varying Glycine Concentrations in the Diet Affect Growth Performance, Characteristics of Nitrogen Excretion, and the Blood Metabolome of Broiler Chickens. Journal of Nutrition, 2019, 149, 1122-1132.	1.3	37
1270	Deciphering molecular mechanism of silver by integrated omic approaches enables enhancing its antimicrobial efficacy in E. coli. PLoS Biology, 2019, 17, e3000292.	2.6	66
1271	Primary metabolite contents are correlated with seed protein and oil traits in near-isogenic lines of soybean. Crop Journal, 2019, 7, 651-659.	2.3	27
1272	MVAppâ€”Multivariate Analysis Application for Streamlined Data Analysis and Curation. Plant Physiology, 2019, 180, 1261-1276.	2.3	64
1273	Profiling of Small Molecular Metabolites in Nostoc flagelliforme during Periodic Desiccation. Marine Drugs, 2019, 17, 298.	2.2	7
1274	Metabolomic modulations of HepG2 cells exposed to bisphenol analogues. Environment International, 2019, 129, 59-67.	4.8	40
1275	Plasma Sphingolipids Mediate a Relationship Between Type 2 Diabetes and Memory Outcomes in Patients with Coronary Artery Disease Undertaking Exercise. Journal of Alzheimer's Disease, 2019, 69, 717-727.	1.2	5

#	Article	IF	Citations
1276	Using a high-resolution mass spectrometry-based metabolomics strategy for comprehensively screening and identifying biomarkers of phthalate exposure: Method development and application. Environment International, 2019, 128, 261-270.	4.8	11
1277	Urinary metabolomic profiling for noninvasive diagnosis of acute T cell-mediated rejection after kidney transplantation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1118-1119, 157-163.	1.2	10
1278	Dynamic Network Modeling of Stem Cell Metabolism. Methods in Molecular Biology, 2019, 1975, 305-320.	0.4	21
1279	Integrated proteomics and metabolomics analysis reveals differential lipid metabolism in human umbilical vein endothelial cells under high and low shear stress. American Journal of Physiology - Cell Physiology, 2019, 317, C326-C338.	2.1	21
1280	Metabolomics Analysis in Serum from Patients with Colorectal Polyp and Colorectal Cancer by ¹H-NMR Spectrometry. Disease Markers, 2019, 2019, 1-14.	0.6	55
1281	Integrative Metabolomic and Transcriptomic Analysis for the Study of Bladder Cancer. Cancers, 2019, 11, 686.	1.7	31
1282	Explants of Oncorhynchus mykiss intestine to detect bioactive molecules uptake and metabolic effects: Applications in aquaculture. Aquaculture, 2019, 506, 193-204.	1.7	13
1283	Integrative transcriptomics, proteomics, and metabolomics data analysis exploring the injury mechanism of ricin on human lung epithelial cells. Toxicology in Vitro, 2019, 60, 160-172.	1.1	8
1284	Nitrite and nitric oxide are important in the adjustment of primary metabolism during the hypersensitive response in tobacco. Journal of Experimental Botany, 2019, 70, 4571-4582.	2.4	10
1285	Peptide profile of Camembert-type cheese: Effect of heat treatment and adjunct culture Lactobacillus rhamnosus GG. Food Research International, 2019, 123, 393-402.	2.9	21
1286	Metabolism of 13C-Labeled Fatty Acids in Term Human Placental Explants by Liquid Chromatographyâ€“Mass Spectrometry. Endocrinology, 2019, 160, 1394-1408.	1.4	11
1287	Invited review: Advances and challenges in application of feedomics to improve dairy cow production and health. Journal of Dairy Science, 2019, 102, 5853-5870.	1.4	14
1288	A pilot metabolomics study of tuberculosis immune reconstitution inflammatory syndrome. International Journal of Infectious Diseases, 2019, 84, 30-38.	1.5	20
1289	Metabolomics Reveals the â€œInvisibleâ€•Responses of Spinach Plants Exposed to CeO₂Nanoparticles. Environmental Science & Technology, 2019, 53, 6007-6017.	4.6	115
1290	Metabolomic profiles differ among unique genotypes of a threatened Caribbean coral. Scientific Reports, 2019, 9, 6067.	1.6	38
1291	Modeling Protein Destiny in Developing Fruit. Plant Physiology, 2019, 180, 1709-1724.	2.3	33
1293	Integration of transcriptomics, proteomics and metabolomics data to reveal the biological mechanisms of abrin injury in human lung epithelial cells. Toxicology Letters, 2019, 312, 1-10.	0.4	11
1294	Intra-Tumoral Metabolic Zonation and Resultant Phenotypic Diversification Are Dictated by Blood Vessel Proximity. Cell Metabolism, 2019, 30, 201-211.e6.	7.2	86

#	Article	IF	Citations
1295	Metabolomics reveals that engineered nanomaterial exposure in soil alters both soil rhizosphere metabolite profiles and maize metabolic pathways. Environmental Science: Nano, 2019, 6, 1716-1727.	2.2	92
1296	Drought-induced mortality in Scots pine: opening the metabolic black box. Tree Physiology, 2019, 39, 1358-1370.	1.4	10
1297	Metabolic perturbations caused by depletion of nephronophthisis factor Anks6 in mIMCD3 cells. Metabolomics, 2019, 15, 71.	1.4	2
1298	Functional Assessment of Lipoyltransferase-1 Deficiency in Cells, Mice, and Humans. Cell Reports, 2019, 27, 1376-1386.e6.	2.9	55
1299	NMR metabolomics reveals effects of Cryptosporidium infections on host cell metabolome. Gut Pathogens, 2019, 11, 13.	1.6	18
1300	Metabolomics revealed decreased level of omegaâ€3 <scp>PUFA</scp>â€derived protective eicosanoids in pregnant women with preâ€eclampsia. Clinical and Experimental Pharmacology and Physiology, 2019, 46, 705-710.	0.9	18
1301	Prognostic analysis of amyotrophic lateral sclerosis based on clinical features and plasma surfaceâ€enhanced Raman spectroscopy. Journal of Biophotonics, 2019, 12, e201900012.	1.1	13
1302	Metabolic fingerprinting of chorionic villous samples in normal pregnancy and chromosomal disorders. Prenatal Diagnosis, 2019, 39, 848-858.	1.1	7
1303	Mapping the metabolism of five amino acids in bloodstream form Trypanosoma brucei using U-13C-labelled substrates and LCâ€“MS. Bioscience Reports, 2019, 39, .	1.1	17
1304	Evaluation and Optimization of Sample Handling Methods for Quantification of Short-Chain Fatty Acids in Human Fecal Samples by GCâ€“MS. Journal of Proteome Research, 2019, 18, 1948-1957.	1.8	61
1305	PPARÎ± and PPARÎ³ activation attenuates total free fatty acid and triglyceride accumulation in macrophages via the inhibition of Fatp1 expression. Cell Death and Disease, 2019, 10, 39.	2.7	42
1306	A comprehensive timeâ€course metabolite profiling of the model cyanobacterium Synechocystis sp. PCC 6803 under diurnal light:dark cycles. Plant Journal, 2019, 99, 379-388.	2.8	18
1307	Chemical profiling, antioxidant, and antimicrobial activities of Indian stingless bees propolis samples. Journal of Apicultural Research, 2019, 58, 617-625.	0.7	23
1308	Metabolic characterization of amniotic fluids of fetuses with enlarged nuchal translucency. Journal of Perinatal Medicine, 2019, 47, 311-318.	0.6	9
1309	Deletion of TSPO Resulted in Change of Metabolomic Profile in Retinal Pigment Epithelial Cells. International Journal of Molecular Sciences, 2019, 20, 1387.	1.8	12
1310	Instrumentation Applied to Metabolomic Analysis. , 2019, , 239-292.		0
1311	Loss of genomic integrity induced by lysosphingolipid imbalance drives ageing in the heart. EMBO Reports, 2019, 20, .	2.0	26
1312	Paper spray portable mass spectrometry for screening of phorbol ester contamination in glycerol-based medical products. Analytical and Bioanalytical Chemistry, 2019, 411, 2707-2714.	1.9	5

#	Article	IF	Citations
1313	Lipidomics for wildlife disease etiology and biomarker discovery: a case study of pansteatitis outbreak in South Africa. Metabolomics, 2019, 15, 38.	1.4	11
1314	Untargeted metabolomics analysis of the upper respiratory tract of ferrets following influenza A virus infection and oseltamivir treatment. Metabolomics, 2019, 15, 33.	1.4	20
1315	Microsampling Capillary Electrophoresis Mass Spectrometry Enables Single-Cell Proteomics in Complex Tissues: Developing Cell Clones in Live Xenopus laevis and Zebrafish Embryos. Analytical Chemistry, 2019, 91, 4797-4805.	3.2	97
1316	The interaction between genotype and maternal nutritional environments affects tomato seed and seedling quality. Journal of Experimental Botany, 2019, 70, 2905-2918.	2.4	23
1317	Volatile organic compounds emitted from faeces as a biomarker for colorectal cancer. Alimentary Pharmacology and Therapeutics, 2019, 49, 1005-1012.	1.9	57
1318	Pooled <scp>CRISPR</scp>/Cas9 reveals redundant roles of plastidial phosphoglycerate kinases in carbon fixation and metabolism. Plant Journal, 2019, 98, 1078-1089.	2.8	22
1319	Peroxisome proliferator-activated receptor A/G reprogrammes metabolism associated with lipid accumulation in macrophages. Metabolomics, 2019, 15, 36.	1.4	6
1320	Delineating the molecular responses of a halotolerant microalga using integrated omics approach to identify genetic engineering targets for enhanced TAG production. Biotechnology for Biofuels, 2019, 12, 2.	6.2	42
1321	Assessing the Metabolomic Profile of Multiple Sclerosis Patients Treated with Interferon Beta 1a by 1H-NMR Spectroscopy. Neurotherapeutics, 2019, 16, 797-807.	2.1	17
1322	Metabolomic and transcriptomic changes underlying cold and anaerobic stresses after storage of table grapes. Scientific Reports, 2019, 9, 2917.	1.6	33
1323	Maresin1 Alleviates Metabolic Dysfunction in Septic Mice: A ¹H NMR-Based Metabolomics Analysis. Mediators of Inflammation, 2019, 2019, 1-11.	1.4	20
1324	Efficient Extraction from Mice Feces for NMR Metabolomics Measurements with Special Emphasis on SCFAs. Metabolites, 2019, 9, 55.	1.3	8
1326	Urine and fecal samples targeted metabolomics of carobs treated rats. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1114-1115, 76-85.	1.2	13
1327	Advances and challenges in development of precision psychiatry through clinical metabolomics on mood and psychotic disorders. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 93, 182-188.	2.5	23
1328	MetaboAnalystR 2.0: From Raw Spectra to Biological Insights. Metabolites, 2019, 9, 57.	1.3	252
1329	Essentials of Bioinformatics, Volume I. , 2019, , .		8
1330	Metabolome-Scale Genome-Wide Association Studies Reveal Chemical Diversity and Genetic Control of Maize Specialized Metabolites. Plant Cell, 2019, 31, 937-955.	3.1	75
1331	Comparative Metabonomic Investigations of Schistosoma japonicum From SCID Mice and BALB/c Mice: Clues to Developmental Abnormality of Schistosome in the Immunodeficient Host. Frontiers in Microbiology, 2019, 10, 440.	1.5	35

#	Article	IF	Citations
1332	Ozone and Wounding Stresses Differently Alter the Temporal Variation in Formylated Phloroglucinols in Eucalyptus globulus Leaves. Metabolites, 2019, 9, 46.	1.3	9
1333	Single-cell metabolomics by mass spectrometry: Advances, challenges, and future applications. TrAC - Trends in Analytical Chemistry, 2019, 120, 115436.	5.8	65
1334	Differential Sensitivity to Plasmodium yoelii Infection in C57BL/6 Mice Impacts Gut-Liver Axis Homeostasis. Scientific Reports, 2019, 9, 3472.	1.6	30
1335	Gene Expression Studies and Targeted Metabolomics Reveal Disturbed Serine, Methionine, and Tyrosine Metabolism in Early Hypertensive Nephrosclerosis. Kidney International Reports, 2019, 4, 321-333.	0.4	25
1336	Integrating a generalized data analysis workflow with the Single-probe mass spectrometry experiment for single cell metabolomics. Analytica Chimica Acta, 2019, 1064, 71-79.	2.6	24
1337	Utilisation of Ambient Laser Desorption Ionisation Mass Spectrometry (ALDI-MS) Improves Lipid-Based Microbial Species Level Identification. Scientific Reports, 2019, 9, 3006.	1.6	23
1338	A large-scale metabolomics study to harness chemical diversity and explore biochemical mechanisms in ryegrass. Communications Biology, 2019, 2, 87.	2.0	14
1339	Live Single-Cell Metabolomics With Matrix-Free Laser/Desorption Ionization Mass Spectrometry to Address Microalgal Physiology. Frontiers in Plant Science, 2019, 10, 172.	1.7	26
1340	Alterations in the tyrosine and phenylalanine pathways revealed by biochemical profiling in cerebrospinal fluid of Huntingtonâ€™s disease subjects. Scientific Reports, 2019, 9, 4129.	1.6	30
1341	Thrombospondin-2 regulates extracellular matrix production, LOX levels, and cross-linking via downregulation of miR-29. Matrix Biology, 2019, 82, 71-85.	1.5	33
1342	Apple consumption is associated with a distinctive microbiota, proteomics and metabolomics profile in the gut of Dawley Sprague rats fed a high-fat diet. PLoS ONE, 2019, 14, e0212586.	1.1	14
1343	Accelerating research on biological aging and mental health: Current challenges and future directions. Psychoneuroendocrinology, 2019, 106, 293-311.	1.3	61
1344	Resveratrol inhibits lipid accumulation in the intestine of atherosclerotic mice and macrophages. Journal of Cellular and Molecular Medicine, 2019, 23, 4313-4325.	1.6	32
1345	Root traits and belowground herbivores relate to plantâ€“soil feedback variation among congeners. Nature Communications, 2019, 10, 1564.	5.8	71
1346	Metabolic disorder of amino acids, fatty acids and purines reflects the decreases in oocyte quality and potential in sows. Journal of Proteomics, 2019, 200, 134-143.	1.2	34
1347	Differential influence of molybdenum disulfide at the nanometer and micron scales in the intestinal metabolome and microbiome of mice. Environmental Science: Nano, 2019, 6, 1594-1606.	2.2	21
1348	Metabolomics of sorghum roots during nitrogen stress reveals compromised metabolic capacity for salicylic acid biosynthesis. Plant Direct, 2019, 3, e00122.	0.8	32
1349	Differences in the relationship between metabolomic and ionomic traits of Quercus variabilis growing at contrasting geologic-phosphorus sites in subtropics. Plant and Soil, 2019, 439, 339-355.	1.8	8

#	Article	IF	Citations
1350	Systems Metabolic Engineering Meets Machine Learning: A New Era for Dataâ€Driven Metabolic Engineering. Biotechnology Journal, 2019, 14, e1800416.	1.8	45
1351	Dynamic changes to lipid mediators support transitions among macrophage subtypes during muscle regeneration. Nature Immunology, 2019, 20, 626-636.	7.0	108
1352	Metabolomics. , 2019, , 287-318.		0
1353	Application of differential mobility-mass spectrometry for untargeted human plasma metabolomic analysis. Analytical and Bioanalytical Chemistry, 2019, 411, 6297-6308.	1.9	15
1354	Disturbed energy and amino acid metabolism with their diagnostic potential in mitral valve disease revealed by untargeted plasma metabolic profiling. Metabolomics, 2019, 15, 57.	1.4	15
1355	Effect of proline-enriched abalone feed on selected metabolite levels of slow-growing adultHaliotis midae. Aquaculture Research, 2019, 50, 1057-1067.	0.9	13
1356	Lipidomic and transcriptomic analysis of western diet-induced nonalcoholic steatohepatitis (NASH) in female Ldlr -/- mice. PLoS ONE, 2019, 14, e0214387.	1.1	45
1357	Metabolomics Identifies Novel Blood Biomarkers of Pulmonary Function and COPD in the General Population. Metabolites, 2019, 9, 61.	1.3	30
1358	Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. PLoS ONE, 2019, 14, e0214487.	1.1	22
1359	Red Blood Cell Metabolic Responses to Torpor and Arousal in the Hibernator Arctic Ground Squirrel. Journal of Proteome Research, 2019, 18, 1827-1841.	1.8	34
1360	Microbial Diversity and Chemical Multiplicity of Culturable, Taxonomically Similar Bacterial Symbionts of the Leaf-Cutting Ant Acromyrmex coronatus. Microbial Ecology, 2019, 77, 1067-1081.	1.4	4
1361	Serum Metabolomics Identifies Altered Bioenergetics, Signaling Cascades in Parallel with Exposome Markers in Crohnâ€™s Disease. Molecules, 2019, 24, 449.	1.7	55
1362	Integration of Metabolomics and Transcriptomics to Identify Gene-Metabolite Relationships Specific to Phenotype. Methods in Molecular Biology, 2019, 1928, 441-468.	0.4	7
1363	Lactobacillus rhamnosusGG reverses mortality of neonatal mice againstSalmonellachallenge. Toxicology Research, 2019, 8, 361-372.	0.9	15
1364	Investigating the intracellular effects of hyperbranched polycationâ€“DNA complexes on lung cancer cells using LC-MS-based metabolite profiling. Molecular Omics, 2019, 15, 77-87.	1.4	9
1365	Metabolomics Tools and Information Retrieval in Microbiome Hacking. , 2019, , 43-59.		0
1366	Metabolic shift of Staphylococcus aureus under sublethal dose of methicillin in the presence of glucose. Journal of Pharmaceutical and Biomedical Analysis, 2019, 167, 140-148.	1.4	10
1367	Metabolomics Approaches for the Diagnosis and Understanding of Kidney Diseases. Metabolites, 2019, 9, 34.	1.3	60

#	Article	IF	Citations
1368	1H NMR metabolomic analysis of skin and blubber of bottlenose dolphins reveals a functional metabolic dichotomy. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2019, 30, 25-32.	0.4	9
1369	Comparative proteomics and metabolomics of JAZ7-mediated drought tolerance in Arabidopsis. Journal of Proteomics, 2019, 196, 81-91.	1.2	49
1370	Defining the role of Parasutterella, a previously uncharacterized member of the core gut microbiota. ISME Journal, 2019, 13, 1520-1534.	4.4	267
1371	Amino acid and fatty acid metabolomic profile during fasting and hyperinsulinemia in girls with polycystic ovarian syndrome. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E707-E718.	1.8	17
1372	Metabolomics Profile and Targeted Lipidomics in Multiple Tissues Associated with Feed Efficiency in Beef Steers. ACS Omega, 2019, 4, 3973-3982.	1.6	21
1373	Urine metabolic profiles in paediatric asthma. Respirology, 2019, 24, 572-581.	1.3	24
1374	Assessing the Effectiveness of Direct Data Merging Strategy in Long-Term and Large-Scale Pharmacometabonomics. Frontiers in Pharmacology, 2019, 10, 127.	1.6	25
1375	Biomarkers Detection for Toxicity Testing Using Metabolomics. , 2019, , 1111-1124.		1
1376	Metabolomic Study of Obesity and Its Treatment with Palmitoylated Prolactin-Releasing Peptide Analog in Spontaneously Hypertensive and Normotensive Rats. Journal of Proteome Research, 2019, 18, 1735-1750.	1.8	8
1377	Metabolite Profiles of Raw Peanut Seeds Reveal Differences between Marketâ€Types. Journal of Food Science, 2019, 84, 397-405.	1.5	5
1378	Effects of longâ€term exposure to elevated temperature on Zea mays endosperm development during grain fill. Plant Journal, 2019, 99, 23-40.	2.8	37
1379	Joint and unique multiblock analysis of biological data â€“ multiomics malaria study. Faraday Discussions, 2019, 218, 268-283.	1.6	8
1380	Methyl jasmonate application to increase volatile compounds of Vitis labrusca L. grape berries cultivated under subtropical conditions. Acta Horticulturae, 2019, , 425-438.	0.1	1
1381	APT: An Automated Probe Tracker from gene expression data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 18, 1-1.	1.9	1
1383	N -acyl taurines are endogenous lipid messengers that improve glucose homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24770-24778.	3.3	25
1384	LC-MS based metabolomic profiling for renal cell carcinoma histologic subtypes. Scientific Reports, 2019, 9, 15635.	1.6	21
1385	Mutual Zonated Interactions of Wnt and Hh Signaling Are Orchestrating the Metabolism of the Adult Liver in Mice and Human. Cell Reports, 2019, 29, 4553-4567.e7.	2.9	15
1386	Network Analyses and Data Integration of Proteomics and Metabolomics From Leaves of Two Contrasting Varieties of Sugarcane in Response to Drought. Frontiers in Plant Science, 2019, 10, 1524.	1.7	41

#	Article	IF	Citations
1387	LC-MS Analysis: Mini Review Frequently Used Open Source Softwares. , 2019, , .		0
1388	Lipidomic Profiling Reveals Significant Perturbations of Intracellular Lipid Homeostasis in Enterovirus-Infected Cells. International Journal of Molecular Sciences, 2019, 20, 5952.	1.8	27
1389	Metabolomics facilitates the discovery of metabolic biomarkers and pathways for ischemic stroke: a systematic review. Metabolomics, 2019, 15, 152.	1.4	49
1390	Pathway Analysis of Global Metabolomic Profiles Identified Enrichment of Caffeine, Energy, and Arginine Metabolism in Smokers but Not Moist Snuff Consumers. Bioinformatics and Biology Insights, 2019, 13, 117793221988296.	1.0	25
1391	Regulation of amino acid and nucleotide metabolism by crustacean hyperglycemic hormone in the muscle and hepatopancreas of the crayfish Procambarus clarkia. PLoS ONE, 2019, 14, e0221745.	1.1	9
1392	Targeted Metabolomics Reveals Metabolomic Signatures Correlating Gastrointestinal Tissue to Plasma in a Mouse Total-body Irradiation Model. Health Physics, 2019, 116, 473-483.	0.3	18
1393	Endophytes and Epiphytes From the Grapevine Leaf Microbiome as Potential Biocontrol Agents Against Phytopathogens. Frontiers in Microbiology, 2019, 10, 2726.	1.5	55
1394	Purine Catabolism Shows a Dampened Circadian Rhythmicity in a High-fat Diet-Induced Mouse Model of Obesity. Molecules, 2019, 24, 4524.	1.7	10
1395	Heterogeneity in old fibroblasts is linked to variability in reprogramming and wound healing. Nature, 2019, 574, 553-558.	13.7	187
1396	Central systolic pressure and a nonessential amino acid metabolomics profile. Journal of Hypertension, 2019, 37, 1157-1166.	0.3	28
1397	Effect of Sex on Biomarker Response in a Mouse Model of the Hematopoietic Acute Radiation Syndrome. Health Physics, 2019, 116, 484-502.	0.3	34
1398	Serum metabolomic alterations in multiple myeloma revealed by targeted and untargeted metabolomics approaches: a pilot study. RSC Advances, 2019, 9, 29522-29532.	1.7	3
1399	Metabolomic and metallomic profile differences between Veterans and Civilians with Pulmonary Sarcoidosis. Scientific Reports, 2019, 9, 19584.	1.6	13
1400	Advances in Current Diabetes Proteomics: From the Perspectives of Label- free Quantification and Biomarker Selection. Current Drug Targets, 2019, 21, 34-54.	1.0	12
1401	Time-Restricted Feeding Prevents Obesity and Metabolic Syndrome in Mice Lacking a Circadian Clock. Cell Metabolism, 2019, 29, 303-319.e4.	7.2	425
1402	Uptake and toxic effects of triphenyl phosphate on freshwater microalgae Chlorella vulgaris and Scenedesmus obliquus: Insights from untargeted metabolomics. Science of the Total Environment, 2019, 650, 1239-1249.	3.9	45
1403	Allopregnanolone Treatment Improves Plasma Metabolomic Profile Associated with GABA Metabolism in Fragile X-Associated Tremor/Ataxia Syndrome: a Pilot Study. Molecular Neurobiology, 2019, 56, 3702-3713.	1.9	28
1404	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. Molecular Nutrition and Food Research, 2019, 63, e1800384.	1.5	173

#	Article	IF	Citations
1405	A metabolomics approach to assess the effect of storage conditions on metabolic processes of New Zealand surf clam (Crassula aequilatera). Aquaculture, 2019, 498, 315-321.	1.7	33
1406	Urinary Metabolic Signature of Primary Aldosteronism: Gender and Subtypeâ€Specific Alterations. Proteomics - Clinical Applications, 2019, 13, e1800049.	0.8	9
1407	Metabolic Signature of a Functional High-Catechin Tea after Acute and Sustained Consumption in Healthy Volunteers through ¹H NMR Based Metabolomics Analysis of Urine. Journal of Agricultural and Food Chemistry, 2019, 67, 3118-3124.	2.4	8
1408	Independent or integrative processing approach of metabolite datasets from different biospecimens potentially affects metabolic pathway recognition in metabolomics. Journal of Chromatography A, 2019, 1587, 146-154.	1.8	7
1409	Identifying the molecular and cellular signature of cardiac dilation following myocardial infarction. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1845-1852.	1.8	6
1410	GC/MS-based metabolomics analysis reveals active fatty acids biosynthesis in the Filippi's gland of the silkworm, Bombyx mori, during silk spinning. Insect Biochemistry and Molecular Biology, 2019, 105, 1-9.	1.2	22
1411	Zinc oxide nanoparticles impose metabolic toxicity by de-regulating proteome and metabolome in Saccharomyces cerevisiae. Toxicology Reports, 2019, 6, 64-73.	1.6	36
1412	Largeâ€scale profiling of serum metabolites in African American and European American patients with bladder cancer reveals metabolic pathways associated with patient survival. Cancer, 2019, 125, 921-932.	2.0	42
1413	Metabolic profiling analysis upon acylcarnitines in tissues of hepatocellular carcinoma revealed the inhibited carnitine shuttle system caused by the downregulated carnitine palmitoyltransferase 2. Molecular Carcinogenesis, 2019, 58, 749-759.	1.3	28
1414	In vitro study of apoptosis in mussel (Perna canaliculus) haemocytes induced by lipopolysaccharide. Aquaculture, 2019, 503, 8-15.	1.7	19
1415	Juice Index: an integrated Sauvignon blanc grape and wine metabolomics database shows mainly seasonal differences. Metabolomics, 2019, 15, 3.	1.4	17
1416	Integrative hepatic metabolomics and proteomics reveal insights into the mechanism of different feed efficiency with high or low dietary forage levels in Holstein heifers. Journal of Proteomics, 2019, 194, 1-13.	1.2	15
1417	Metabolomics of Ndufs4â^'/â^' skeletal muscle: Adaptive mechanisms converge at the ubiquinone-cycle. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 98-106.	1.8	20
1418	Human urine metabolomic signature after ingestion of polyphenol-rich juice of purple grumixama (Eugenia brasiliensis Lam.). Food Research International, 2019, 120, 544-552.	2.9	8
1419	Temporal Effects of Neuron-specific beta-secretase 1 (BACE1) Knock-in on the Mouse Brain Metabolome: Implications for Alzheimer's Disease. Neuroscience, 2019, 397, 138-146.	1.1	13
1420	Metabolomics in the study of retinal health and disease. Progress in Retinal and Eye Research, 2019, 69, 57-79.	7.3	98
1421	Evaluation of E-beam irradiation and storage time in pork exudates using NMR metabolomics. Food Research International, 2019, 120, 553-559.	2.9	13
1422	Microbial Metabolomics. Methods in Molecular Biology, 2019, , .	0.4	8

#	Article	IF	Citations
1423	Beneficial Effects of Kaempferol after Developmental Traumatic Brain Injury Is through Protection of Mitochondrial Function, Oxidative Metabolism, and Neural Viability. Journal of Neurotrauma, 2019, 36, 1264-1278.	1.7	31
1424	Effect of processing on quality attributes and phenolic profile of quince dried bar snack. Journal of the Science of Food and Agriculture, 2019, 99, 2556-2564.	1.7	8
1425	A plasma metabolite panel as biomarkers for early primary breast cancer detection. International Journal of Cancer, 2019, 144, 2833-2842.	2.3	50
1426	Use of Liquid Chromatographyâ€“Mass Spectrometry-Based Metabolomics to Identify Biomarkers of Tuberculosis. Methods in Molecular Biology, 2019, 1859, 241-251.	0.4	6
1427	Brain oxylipin concentrations following hypercapnia/ischemia: effects of brain dissection and dissection time. Journal of Lipid Research, 2019, 60, 671-682.	2.0	24
1428	Alterations in the gut microbiota and metabolite profiles of thyroid carcinoma patients. International Journal of Cancer, 2019, 144, 2728-2745.	2.3	72
1429	Use of an â€œIntelligent Knifeâ€•(iknife), Based on the Rapid Evaporative Ionization Mass Spectrometry Technology, for Authenticity Assessment of Pistachio Samples. Food Analytical Methods, 2019, 12, 558-568.	1.3	32
1430	Metabolomics profiling of metformin-mediated metabolic reprogramming bypassing AMPKÎ±. Metabolism: Clinical and Experimental, 2019, 91, 18-29.	1.5	30
1431	Comparative Metabolomics and Transcriptomics Reveal Multiple Pathways Associated with Polymyxin Killing in Pseudomonas aeruginosa. MSystems, 2019, 4, .	1.7	52
1432	Efficacy of Integrating a Novel 16-Gene Biomarker Panel and Intelligence Classifiers for Differential Diagnosis of Rheumatoid Arthritis and Osteoarthritis. Journal of Clinical Medicine, 2019, 8, 50.	1.0	28
1433	Bacterial community and metabolome shifts in the cecum and colon of captive sika deer (<i>Cervus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.7	11
1434	Pre-fermentative supplementation of fatty acids alters the metabolic activity of wine yeasts. Food Research International, 2019, 121, 835-844.	2.9	17
1435	1H nuclear magnetic resonance-based metabolic profiling of cerebrospinal fluid to identify metabolic features and markers for tuberculosis meningitis. Infection, Genetics and Evolution, 2019, 68, 253-264.	1.0	16
1436	Bioassay for monitoring the anti-aging effect of cord blood treatment. Theranostics, 2019, 9, 1-10.	4.6	5
1437	Glycoproteomic Profiling Provides Candidate Myocardial Infarction Predictors of Later Progression to Heart Failure. ACS Omega, 2019, 4, 1272-1280.	1.6	10
1438	A pilot study of the effect of phospholipid curcumin on serum metabolomic profile in patients with non-alcoholic fatty liver disease: a randomized, double-blind, placebo-controlled trial. European Journal of Clinical Nutrition, 2019, 73, 1224-1235.	1.3	64
1439	Metabolic derangements of skeletal muscle from a murine model of glioma cachexia. Skeletal Muscle, 2019, 9, 3.	1.9	21
1440	Comparative Analyses of Metabolomic Fingerprints and Cytotoxic Activities of Soft Corals from the Colombian Caribbean. Marine Drugs, 2019, 17, 37.	2.2	4

#	Article	IF	Citations
1441	Acylcarnitine profiles in serum and muscle of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. Journal of Dairy Science, 2019, 102, 754-767.	1.4	20
1442	Potential role of fecal volatile organic compounds as biomarkers of chemically induced intestinal inflammation in mice. FASEB Journal, 2019, 33, 3129-3136.	0.2	9
1443	Phenotyping analysis of the Japanese Kampo medicine maoto in healthy human subjects using wide-targeted plasma metabolomics. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 119-127.	1.4	14
1444	Integrated analyses utilizing metabolomics and transcriptomics reveal perturbation of the polyamine pathway in oral cavity squamous cell carcinoma. Analytica Chimica Acta, 2019, 1050, 113-122.	2.6	34
1445	The terpene limonene induced the green mold of citrus fruit through regulation of reactive oxygen species (ROS) homeostasis in Penicillium digitatum spores. Food Chemistry, 2019, 277, 414-422.	4.2	41
1446	Omics approaches to investigate hostâ€“pathogen interactions in mass mortality outbreaks of Crassostrea gigas. Reviews in Aquaculture, 2019, 11, 1308-1324.	4.6	26
1447	GC-MS-Based Metabolic Phenotyping. , 2019, , 137-169.		3
1448	Concentrations of legacy and new contaminants are related to metabolite profiles in Hudson Bay polar bears. Environmental Research, 2019, 168, 364-374.	3.7	18
1449	A metabolomeâ€based core hybridisation strategy for the prediction of rice grain weight across environments. Plant Biotechnology Journal, 2019, 17, 906-913.	4.1	11
1450	Multifactorial Inheritance and Complex Diseases. , 2019, , 323-358.		3
1451	Validation of the targeted metabolomic pathway in the hippocampus and comparative analysis with the prefrontal cortex of social defeat model mice. Journal of Neurochemistry, 2019, 149, 799-810.	2.1	25
1452	Profiling and comparison of toxicant metabolites in hair and urine using a mass spectrometry-based metabolomic data processing method. Analytica Chimica Acta, 2019, 1052, 84-95.	2.6	14
1453	Uptake of nanopolystyrene particles induces distinct metabolic profiles and toxic effects in Caenorhabditis elegans. Environmental Pollution, 2019, 246, 578-586.	3.7	155
1454	The effects of 5â€azacytidine and cadmium on global 5â€methylcytosine content and secondary metabolites in the freshwater microalgae Chlamydomonas reinhardtii and Scenedesmus quadricauda. Journal of Phycology, 2019, 55, 329-342.	1.0	12
1455	Listeria monocytogenes virulence factors, including listeriolysin O, are secreted in biologically active extracellular vesicles. Journal of Biological Chemistry, 2019, 294, 1202-1217.	1.6	108
1456	Integrative lipidomic and transcriptomic analysis of X-linked adrenoleukodystrophy reveals distinct lipidome signatures between adrenomyeloneuropathy and childhood cerebral adrenoleukodystrophy. Biochemical and Biophysical Research Communications, 2019, 508, 563-569.	1.0	28
1457	Simulated microgravity led to increased brown adipose tissue activity in rats. Acta Astronautica, 2019, 160, 538-551.	1.7	3
1458	Profiling of individual naphthenic acids at a composite tailings reclamation fen by comprehensive two-dimensional gas chromatography-mass spectrometry. Science of the Total Environment, 2019, 649, 1522-1531.	3.9	21

#	Article	IF	Citations
1459	Assessing pH-dependent toxicity of fluoxetine in embryonic zebrafish using mass spectrometry-based metabolomics. Science of the Total Environment, 2019, 650, 2731-2741.	3.9	12
1460	Effects of <scp>Centella asiatica</scp> extract on antioxidant status and liver metabolome of rotenoneâ€treated rats using GCâ€“MS. Biomedical Chromatography, 2019, 33, e4395.	0.8	15
1461	A comparative UHPLC-QqQ-MS-based metabolomics approach for evaluating Chinese and North American wild rice. Food Chemistry, 2019, 275, 618-627.	4.2	86
1462	Tissue-specific immune responses to Vibrio sp. infection in mussels (Perna canaliculus): A metabolomics approach. Aquaculture, 2019, 500, 118-125.	1.7	41
1463	Clinical and metabolic characterization of obese subjects without non-alcoholic fatty liver: A targeted metabolomics approach. Diabetes and Metabolism, 2019, 45, 132-139.	1.4	18
1464	Rootstock effects on metabolite composition in leaves and roots of young navel orange (Citrus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 243-265.	0.9	15
1465	Metabolomics toward personalized medicine. Mass Spectrometry Reviews, 2019, 38, 221-238.	2.8	229
1466	Novel 1,3,4-thiadiazoles inhibit colorectal cancer via blockade of IL-6/COX-2 mediated JAK2/STAT3 signals as evidenced through data-based mathematical modeling. Cytokine, 2019, 118, 144-159.	1.4	32
1467	Metabolite profiling and biological properties of aerial parts from Leopoldia comosa (L.) Parl.: Antioxidant and anti-obesity potential. South African Journal of Botany, 2019, 120, 104-111.	1.2	6
1468	Different behavior of polyphenols in energy metabolism of lipopolysaccharide-stimulated cells. Food Research International, 2019, 118, 96-100.	2.9	8
1469	Role of amino acids in rheumatoid arthritis studied by metabolomics. International Journal of Rheumatic Diseases, 2019, 22, 38-46.	0.9	30
1470	Metabolic remodelling of glucose, fatty acid and redox pathways in the heart of type 2 diabetic mice. Journal of Physiology, 2020, 598, 1393-1415.	1.3	34
1471	Radiation Therapy Reduced Blood Levels of LDH, HIF-1Î±, and miR-210 in OSCC. Pathology and Oncology Research, 2020, 26, 433-442.	0.9	10
1472	Metabolomics and fish nutrition: a review in the context of sustainable feed development. Reviews in Aquaculture, 2020, 12, 261-282.	4.6	84
1473	Urinary profiles associated with bacterial metabolites from asymptomatic pregnant women with at term or preterm premature rupture of membranes: a pilot study. Journal of Maternal-Fetal and Neonatal Medicine, 2020, 33, 3279-3285.	0.7	3
1474	PLA2G4A/cPLA2-mediated lysosomal membrane damage leads to inhibition of autophagy and neurodegeneration after brain trauma. Autophagy, 2020, 16, 466-485.	4.3	95
1475	A critical assessment of the feature selection methods used for biomarker discovery in current metaproteomics studies. Briefings in Bioinformatics, 2020, 21, 1378-1390.	3.2	34
1476	Chemometric analysis of selective polyphenolic groups in Asparagus racemosus (Shatavar) root extracts by traditional and supercritical fluid (CO₂) based extractions. Separation Science and Technology, 2020, 55, 1339-1355.	1.3	8

#	Article	IF	Citations
1477	Grain size and shape reflects variability in metabolite and elemental composition in traditional rice varieties. Journal of Food Measurement and Characterization, 2020, 14, 114-124.	1.6	3
1478	Novel role of Tieg1 in muscle metabolism and mitochondrial oxidative capacities. Acta Physiologica, 2020, 228, e13394.	1.8	14
1479	Effects of processing on the chemical, physicochemical, enzymatic, and volatile metabolic composition of pitaya (Hylocereus polyrhizus (F.A.C. Weber) Britton & Rose). Food Research International, 2020, 127, 108710.	2.9	7
1480	A novel seed plants gene regulates oxidative stress tolerance in Arabidopsis thaliana. Cellular and Molecular Life Sciences, 2020, 77, 705-718.	2.4	11
1481	Human milk and infant formula differentially alters the microbiota composition and functional gene relative abundance in the small and large intestines in weanling rats. European Journal of Nutrition, 2020, 59, 2131-2143.	1.8	7
1482	Distinct metabolic pathways drive monoterpenoid biosynthesis in a natural population of Pelargonium graveolens. Journal of Experimental Botany, 2020, 71, 258-271.	2.4	18
1483	The ecological role of bacterial seed endophytes associated with wild cabbage in the United Kingdom. MicrobiologyOpen, 2020, 9, e00954.	1.2	26
1484	Rootstock influences the metabolic response to Candidatus Liberibacter asiaticus in grafted sweet orange trees. Trees - Structure and Function, 2020, 34, 405-431.	0.9	13
1485	A cross-talk between leptin and 17Î²-estradiol in vitellogenin synthesis in rainbow trout Oncorhynchus mykiss liver. Fish Physiology and Biochemistry, 2020, 46, 331-344.	0.9	7
1486	Using postâ€column infused internal standard assisted quantitative metabolomics for establishing prediction models for breast cancer detection. Rapid Communications in Mass Spectrometry, 2020, 34, e8581.	0.7	6
1487	Production of ammonia as a low-cost and long-distance antibiotic strategy by Streptomyces species. ISME Journal, 2020, 14, 569-583.	4.4	52
1488	NMR-based metabolomics reveals the metabolite profiles of Vibrio parahaemolyticus under blood agar stimulation. Archives of Microbiology, 2020, 202, 437-445.	1.0	2
1489	Metabolomics of redâ€lightâ€induced stomatal opening in Arabidopsis thaliana: Coupling with abscisic acid and jasmonic acid metabolism. Plant Journal, 2020, 101, 1331-1348.	2.8	25
1490	Plasma based targeted metabolomic analysis reveals alterations of phosphatidylcholines and oxidative stress markers in guinea pig model of allergic asthma. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165572.	1.8	17
1491	Predicting Pharmacokinetics Variation of Faropenem Using a Pharmacometabonomic Approach. Journal of Proteome Research, 2020, 19, 119-128.	1.8	8
1492	Early Detection of Cystic Fibrosis Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics. Journal of Proteome Research, 2020, 19, 144-152.	1.8	16
1493	1H NMR-Based Metabolic Profiles Delineate the Anticancer Effect of Vitamin C and Oxaliplatin on Hepatocellular Carcinoma Cells. Journal of Proteome Research, 2020, 19, 781-793.	1.8	11
1494	Metabolomic profiling in children with inflammatory bowel disease. Advances in Medical Sciences, 2020, 65, 65-70.	0.9	31

#	Article	IF	Citations
1495	Semi-targeted metabolomic analysis provides the basis for enhanced antioxidant capacities in pigmented rice grains. Journal of Food Measurement and Characterization, 2020, 14, 1183-1191.	1.6	8
1496	Evaluation of Injury Degree of Adriamycin-Induced Nephropathy in Rats Based on Serum Metabolomics Combined with Proline Marker. Journal of Proteome Research, 2020, 19, 2575-2584.	1.8	13
1497	Chemotaxonomic study of the most abundant Egyptian sea-cucumbers using ultra-performance liquid chromatography (UPLC) coupled to high-resolution mass spectrometry (HRMS). Chemoecology, 2020, 30, 35-48.	0.6	16
1498	The Metabolome of Associations between Xylem-Feeding Insects and their Bacterial Symbionts. Journal of Chemical Ecology, 2020, 46, 735-744.	0.9	10
1499	Discovery of metabolic alterations in the serum of patients infected with Plasmodium spp. by high-resolution metabolomics. Metabolomics, 2020, 16, 9.	1.4	11
1500	Galanthamine production in tissue culture and metabolomic study on Amaryllidaceae alkaloids in Narcissus pseudonarcissus cv. Carlton. Industrial Crops and Products, 2020, 144, 112058.	2.5	22
1501	Metabolic and lipidomic characterization of malignant pleural effusion in human lung cancer. Journal of Pharmaceutical and Biomedical Analysis, 2020, 180, 113069.	1.4	26
1502	Neonicotinoid insecticides exposure cause amino acid metabolism disorders, lipid accumulation and oxidative stress in ICR mice. Chemosphere, 2020, 246, 125661.	4.2	65
1503	Anhydrobiotic engineering for the endophyte bacterium Kosakonia radicincitans by osmoadaptation and providing exogenously hydroxyectoine. World Journal of Microbiology and Biotechnology, 2020, 36, 6.	1.7	6
1504	Integrative serum metabolomics and network analysis on mechanisms exploration of Ling-Gui-Zhu-Gan Decoction on doxorubicin-induced heart failure mice. Journal of Ethnopharmacology, 2020, 250, 112397.	2.0	30
1505	Sampling, analyzing, and integrating microbiome â€˜omics data in a translational clinical setting. , 2020, , 273-279.		0
1506	Harnessing the intracellular triacylglycerols for titer improvement of polyketides in Streptomyces. Nature Biotechnology, 2020, 38, 76-83.	9.4	116
1507	Effects of cooking on the phytochemical profile of breadfruit as revealed by highâ€resolution UPLCâ€“MS E. Journal of the Science of Food and Agriculture, 2020, 100, 1962-1970.	1.7	2
1508	Dose-Response Metabolomics To Understand Biochemical Mechanisms and Off-Target Drug Effects with the TOXcms Software. Analytical Chemistry, 2020, 92, 1856-1864.	3.2	22
1509	Physiological and metabolic responses of Salix sinopurpurea and Salix suchowensis to drought stress. Trees - Structure and Function, 2020, 34, 563-577.	0.9	12
1510	Untargeted Serum Metabolic Profiling by Comprehensive Two-Dimensional Gas Chromatographyâ€“High-Resolution Time-of-Flight Mass Spectrometry. Journal of Proteome Research, 2020, 19, 1013-1028.	1.8	30
1511	B cell-derived anti-beta 2 glycoprotein I antibody contributes to hyperhomocysteinaemia-aggravated abdominal aortic aneurysm. Cardiovascular Research, 2020, 116, 1897-1909.	1.8	16
1512	Metabolic effects of repeated ketamine administration in the rat brain. Biochemical and Biophysical Research Communications, 2020, 522, 592-598.	1.0	7

#	Article	IF	Citations
1513	Is naphthylphthalamic acid a specific phytotropin? It elevates ethylene and alters metabolic homeostasis in tomato. Plant Science, 2020, 291, 110358.	1.7	2
1514	NMR-based metabolomics analysis identifies discriminatory metabolic disturbances in tissue and biofluid samples for progressive prostate cancer. Clinica Chimica Acta, 2020, 501, 241-251.	0.5	27
1515	Partial characterization of the lipidome of the cold-water scallop, Chlamys islandica. Environmental Science and Pollution Research, 2020, 27, 1475-1484.	2.7	5
1516	Identification of health-promoting bioactive phenolics in black walnut using cloud-based metabolomics platform. Journal of Food Measurement and Characterization, 2020, 14, 770-777.	1.6	8
1517	Colonies of the fungus Aspergillus niger are highly differentiated to adapt to local carbon source variation. Environmental Microbiology, 2020, 22, 1154-1166.	1.8	15
1518	Metabolic phenotypes of standard and coldâ€stored platelets. Transfusion, 2020, 60, S96-S106.	0.8	11
1519	Lipid Profiling and Stable Isotopic Data Analysis for Differentiation of Extra Virgin Olive Oils Based on Their Origin. Molecules, 2020, 25, 4.	1.7	24
1520	Effect of Static Cold Storage on Skeletal Muscle after Vascularized Composite Tissue Allotransplantation. Journal of Reconstructive Microsurgery, 2020, 36, 009-015.	1.0	9
1521	Metabonomic Profile of Macrosteatotic Allografts for Orthotopic Liver Transplantation in Patients With Initial Poor Function: Mechanistic Investigation and Prognostic Prediction. Frontiers in Cell and Developmental Biology, 2020, 8, 826.	1.8	5
1522	Profiling of Altered Metabolomic States in Bidens pilosa Leaves in Response to Treatment by Methyl Jasmonate and Methyl Salicylate. Plants, 2020, 9, 1275.	1.6	8
1523	ANOVA simultaneous component analysis: A tutorial review. Analytica Chimica Acta: X, 2020, 6, 100061.	2.8	35
1524	Hypomethylation of the aquatic invasive plant, Ludwigia grandiflora subsp. hexapetala mimics the adaptive transition into the terrestrial morphotype. Physiologia Plantarum, 2020, 170, 280-298.	2.6	12
1525	Proteomics and lipidomics analyses reveal modulation of lipid metabolism by perfluoroalkyl substances in liver of Atlantic cod (Gadus morhua). Aquatic Toxicology, 2020, 227, 105590.	1.9	37
1526	Metabolite changes associated with earthworms (Eisenia fetida) graphene exposure revealed by matrix-assisted laser desorption/ionization mass spectrometry imaging. Ecotoxicology and Environmental Safety, 2020, 205, 111102.	2.9	15
1527	Genomic characterization of a diazotrophic microbiota associated with maize aerial root mucilage. PLoS ONE, 2020, 15, e0239677.	1.1	13
1528	Predicting nanotoxicity by an integrated machine learning and metabolomics approach. Environmental Pollution, 2020, 267, 115434.	3.7	26
1529	Gut Microenvironment and Bacterial Invasion in Paediatric Inflammatory Bowel Diseases. Journal of Pediatric Gastroenterology and Nutrition, 2020, 71, 624-632.	0.9	12
1530	Computer-Aided Drug Design. , 2020, , .		13

#	Article	IF	Citations
1531	Elucidation of gastrointestinal dysfunction in response to irradiation using metabolomics. Biochemistry and Biophysics Reports, 2020, 23, 100789.	0.7	2
1532	Synergistic antitumor interaction of valproic acid and simvastatin sensitizes prostate cancer to docetaxel by targeting CSCs compartment via YAP inhibition. Journal of Experimental and Clinical Cancer Research, 2020, 39, 213.	3.5	26
1533	Bisphosphoglycerate Mutase Deficiency Protects against Cerebral Malaria and Severe Malaria-Induced Anemia. Cell Reports, 2020, 32, 108170.	2.9	7
1534	Lipopolysaccharide perception in Arabidopsis thaliana: Diverse LPS chemotypes from Burkholderia cepacia, Pseudomonas syringae and Xanthomonas campestris trigger differential defence-related perturbations in the metabolome. Plant Physiology and Biochemistry, 2020, 156, 267-277.	2.8	11
1535	Machine learning of serum metabolic patterns encodes early-stage lung adenocarcinoma. Nature Communications, 2020, 11, 3556.	5.8	151
1536	Metabolome Changes in Cerebral Ischemia. Cells, 2020, 9, 1630.	1.8	79
1537	The Disruptive Fourth Industrial Revolution. Lecture Notes in Electrical Engineering, 2020, , .	0.3	4
1538	Metabolomic Profile of Allantoic and Amniotic Fluid in Late-term Gestational Mares Characterized by 1H-nuclear Magnetic Resonance Spectroscopy. Journal of Equine Veterinary Science, 2020, 94, 103235.	0.4	2
1539	Low Concentrations of Silver Nanoparticles and Silver Ions Perturb the Antioxidant Defense System and Nitrogen Metabolism in N₂-Fixing Cyanobacteria. Environmental Science & Technology, 2020, 54, 15996-16005.	4.6	56
1540	Depression in Individuals Coinfected with HIV and HCV Is Associated with Systematic Differences in the Gut Microbiome and Metabolome. MSystems, 2020, 5, .	1.7	9
1541	Feature selection and classification of metabolomics data using artificial bee colony programming (ABCP). International Journal of Data Mining and Bioinformatics, 2020, 23, 101.	0.1	4
1542	The intracellular bacterium Rickettsia rickettsii exerts an inhibitory effect on the apoptosis of tick cells. Parasites and Vectors, 2020, 13, 603.	1.0	11
1543	Rhizobacteria-induced systemic resilience in Sorghum bicolor (L.) moench against Fusarium pseudograminearum crown rot under drought stress conditions. Biological Control, 2020, 151, 104395.	1.4	10
1544	Serum Metabonomic Study on the Antidepressant-like Effects of Ellagic Acid in a Chronic Unpredictable Mild Stress-Induced Mouse Model. Journal of Agricultural and Food Chemistry, 2020, 68, 9546-9556.	2.4	26
1545	Does leukotriene F4 play a major role in the infection mechanism of Candida sp.?. Microbial Pathogenesis, 2020, 149, 104394.	1.3	1
1546	IL-10 attenuates OxPCs-mediated lipid metabolic responses in ischemia reperfusion injury. Scientific Reports, 2020, 10, 12120.	1.6	17
1547	Foliar traits of sessile oak (Quercus petraea Liebl) seedlings are largely determined by site properties rather than seed origin. Tree Physiology, 2020, 40, 1648-1667.	1.4	8
1548	Machine Learning Algorithms Identify Pathogen-Specific Biomarkers of Clinical and Metabolomic Characteristics in Septic Patients with Bacterial Infections. BioMed Research International, 2020, 2020, 1-11.	0.9	9

#	Article	IF	Citations
1549	Four cypermethrin isomers induced stereoselective metabolism in H295R cells. Chirality, 2020, 32, 1107-1118.	1.3	5
1550	Characterization of the microbial community, metabolome and biotransformation of phenolic compounds of sainfoin (Onobrychis viciifolia) silage ensiled with or without inoculation of Lactobacillus plantarum. Bioresource Technology, 2020, 316, 123910.	4.8	38
1551	Computational advances of tumor marker selection and sample classification in cancer proteomics. Computational and Structural Biotechnology Journal, 2020, 18, 2012-2025.	1.9	31
1552	Differential Modulation of the Phospholipidome of Proinflammatory Human Macrophages by the Flavonoids Quercetin, Naringin and Naringenin. Molecules, 2020, 25, 3460.	1.7	7
1553	Differential impact of some metal(loid)s on oxidative stress, antioxidant system, sulfur compounds, and protein profile of Indian mustard (Brassica juncea L.). Protoplasma, 2020, 257, 1667-1683.	1.0	12
1554	A non-invasive soil-based setup to study tomato root volatiles released by healthy and infected roots. Scientific Reports, 2020, 10, 12704.	1.6	26
1555	Lipid A profiling and metabolomics analysis of paired polymyxin-susceptible and -resistant MDR Klebsiella pneumoniae clinical isolates from the same patients before and after colistin treatment. Journal of Antimicrobial Chemotherapy, 2020, 75, 2852-2863.	1.3	14
1556	Seed characterization and early nitrogen metabolism performance of seedlings from Altiplano and coastal ecotypes of Quinoa. BMC Plant Biology, 2020, 20, 343.	1.6	4
1557	Analysis of brain networks and fecal metabolites reveals brainâ€“gut alterations in premenopausal females with irritable bowel syndrome. Translational Psychiatry, 2020, 10, 367.	2.4	17
1558	Metabolomics analysis reveals that myrcene stimulates the spore germination of Penicillium digitatum via the upregulation of central carbon and energy metabolism. Postharvest Biology and Technology, 2020, 170, 111329.	2.9	8
1559	NMR and LCMS analytical platforms exhibited the nephroprotective effect of Clinacanthus nutans in cisplatin-induced nephrotoxicity in the in vitro condition. BMC Complementary Medicine and Therapies, 2020, 20, 320.	1.2	11
1560	Ontogeny Related Changes in the Pediatric Liver Metabolome. Frontiers in Pediatrics, 2020, 8, 549.	0.9	3
1561	Metabolic plasticity of IDH1-mutant glioma cell lines is responsible for low sensitivity to glutaminase inhibition. Cancer & Metabolism, 2020, 8, 23.	2.4	14
1562	Insights into oleaginous phenotype of the yeast Papiliotrema laurentii. Fungal Genetics and Biology, 2020, 144, 103456.	0.9	5
1563	High intensity exercise downregulates FTO mRNA expression during the early stages of recovery in young males and females. Nutrition and Metabolism, 2020, 17, 68.	1.3	6
1564	Metabolomic Nuclear Magnetic Resonance Studies at Presymptomatic and Symptomatic Stages of Huntingtonâ€™s Disease on a Drosophila Model. Journal of Proteome Research, 2020, 19, 4034-4045.	1.8	15
1565	Metabolomics applied in the study of emerging arboviruses caused by Aedes aegypti mosquitoes: A review. Electrophoresis, 2020, 41, 2102-2113.	1.3	6
1566	Metabolite pools of the reef building coral Montipora capitata are unaffected by Symbiodiniaceae community composition. Coral Reefs, 2020, 39, 1727-1737.	0.9	19

#	Article	IF	Citations
1567	Sex Work Is Associated With Increased Vaginal Microbiome Diversity in Young Women From Mombasa, Kenya. Journal of Acquired Immune Deficiency Syndromes (1999), 2020, 85, 79-87.	0.9	10
1568	Plasma Metabolomic and Lipidomic Profiling of a Genetically Modified Mouse Model of Scavenger Receptor Class B Type I. Proteomics, 2020, 20, 2000050.	1.3	1
1569	Metabolically engineered rice biomass and grain using genes associated with lipid pathway show high level of oil content. Molecular Biology Reports, 2020, 47, 7917-7927.	1.0	8
1570	Genetic screens reveal a central role for heme metabolism in artemisinin susceptibility. Nature Communications, 2020, 11, 4813.	5.8	34
1571	Temporal Variation of Phenolic and Mineral Composition in Olive Leaves Is Cultivar Dependent. Plants, 2020, 9, 1099.	1.6	23
1572	Feature-based molecular networking in the GNPS analysis environment. Nature Methods, 2020, 17, 905-908.	9.0	650
1573	Using an UPLC/MS-based untargeted metabolomics approach for assessing the antioxidant capacity and anti-aging potential of selected herbs. RSC Advances, 2020, 10, 31511-31524.	1.7	22
1574	A GC-MS-Based Metabolomics Investigation of the Protective Effect of Liu-Wei-Di-Huang-Wan in Type 2 Diabetes Mellitus Mice. International Journal of Analytical Chemistry, 2020, 2020, 1-9.	0.4	6
1575	Geographical Origin Discrimination of Monofloral Honeys by Direct Analysis in Real Time Ionization-High Resolution Mass Spectrometry (DART-HRMS). Foods, 2020, 9, 1205.	1.9	7
1576	Spermine-mediated tight sealing of the Magnaporthe oryzae appressorial poreâ€“rice leaf surface interface. Nature Microbiology, 2020, 5, 1472-1480.	5.9	41
1577	Magnaporthe oryzae nucleoside diphosphate kinase is required for metabolic homeostasis and redoxâ€mediated host innate immunity suppression. Molecular Microbiology, 2020, 114, 789-807.	1.2	7
1578	In Vivo Anti-Inflammatory Effects and Related Mechanisms of Processed Egg Yolk, a Potential Anti-Inflammaging Dietary Supplement. Nutrients, 2020, 12, 2699.	1.7	3
1579	Alteration in the Expression of Genes Encoding Primary Metabolism Enzymes and Plastid Transporters during the Culture Growth of Chlamydomonas reinhardtii. Molecular Biology, 2020, 54, 503-519.	0.4	3
1580	Enlarging Knowledge on Lager Beer Volatile Metabolites Using Multidimensional Gas Chromatography. Foods, 2020, 9, 1276.	1.9	15
1581	Human milk oligosaccharide DSLNT and gut microbiome in preterm infants predicts necrotising enterocolitis. Gut, 2021, 70, 2273-2282.	6.1	110
1582	Cryptococcus neoformans Secretes Small Molecules That Inhibit IL-1Î² Inflammasome-Dependent Secretion. Mediators of Inflammation, 2020, 2020, 1-20.	1.4	12
1583	Comprehensive 2D Gas Chromatography with TOF-MS Detection Confirms the Matchless Discriminatory Power of Monoterpenes and Provides In-Depth Volatile Profile Information for Highly Efficient White Wine Varietal Differentiation. Foods, 2020, 9, 1787.	1.9	18
1584	Left ventricular mass and urinary metabolomics in young black and white adults: The African-PREDICT study. Nutrition, Metabolism and Cardiovascular Diseases, 2020, 30, 2051-2062.	1.1	5

#	Article	IF	Citations
1585	Metabolomics revealed the influence of breast cancer on lymphatic endothelial cell metabolism, metabolic crosstalk, and lymphangiogenic signaling in co-culture. Scientific Reports, 2020, 10, 21244.	1.6	10
1586	Alterations of the Gut Microbiome Composition and Lipid Metabolic Profile in Radiation Enteritis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 541178.	1.8	47
1587	Analysis of cantharidin-induced nephrotoxicity in HK-2 cells using untargeted metabolomics and an integrative network pharmacology analysis. Food and Chemical Toxicology, 2020, 146, 111845.	1.8	22
1588	Downshifting Yeast Dominance: Cell Physiology and Phospholipid Composition Are Altered With Establishment of the [GAR+] Prion in Saccharomyces cerevisiae. Frontiers in Microbiology, 2020, 11, 2011.	1.5	4
1589	Metabolic Profiling of CSF from People Suffering from Sporadic and LRRK2 Parkinsonâ€™s Disease: A Pilot Study. Cells, 2020, 9, 2394.	1.8	8
1590	Neonatal hair profiling reveals a metabolic phenotype of monochorionic twins with selective intrauterine growth restriction and abnormal umbilical artery flow. Molecular Medicine, 2020, 26, 37.	1.9	17
1591	Mn₃O₄ nanozymes boost endogenous antioxidant metabolites in cucumber (Cucumis sativus) plant and enhance resistance to salinity stress. Environmental Science: Nano, 2020, 7, 1692-1703.	2.2	66
1592	Ketosis an Old Story Under a New Approach. Dairy, 2020, 1, 42-60.	0.7	22
1593	Spoilage Potential of Pseudomonas (P. fragi, P. putida) and LAB (Leuconostoc mesenteroides,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 427 GC/MS and Data Analytics. Foods, 2020, 9, 633.	1.9	38
1594	An improved extraction method enables the comprehensive analysis of lipids, proteins, metabolites and phytohormones from a single sample of leaf tissue under waterâ€deficit stress. Plant Journal, 2020, 103, 1614-1632.	2.8	55
1595	Serum lipids profiling perturbances in patients with ischemic heart disease and ischemic cardiomyopathy. Lipids in Health and Disease, 2020, 19, 89.	1.2	18
1596	Pathway-Activity Likelihood Analysis and Metabolite Annotation for Untargeted Metabolomics Using Probabilistic Modeling. Metabolites, 2020, 10, 183.	1.3	10
1597	Label-free plasma proteomics identifies haptoglobin-related protein as candidate marker of idiopathic pulmonary fibrosis and dysregulation of complement and oxidative pathways. Scientific Reports, 2020, 10, 7787.	1.6	12
1598	Metallomic and lipidomic analysis of S. cerevisiae response to cellulosic copper nanoparticles uncovers drivers of toxicity. Metallomics, 2020, 12, 799-812.	1.0	9
1599	EBC metabolomics for asthma severity. Journal of Breath Research, 2020, 14, 036007.	1.5	12
1600	Traditional rice beer depletes butyric acid-producing gut bacteria Faecalibacterium and Roseburia along with fecal butyrate levels in the ethnic groups of Northeast India. 3 Biotech, 2020, 10, 283.	1.1	9
1601	Comparison of Full-Scan, Data-Dependent, and Data-Independent Acquisition Modes in Liquid Chromatographyâ€“Mass Spectrometry Based Untargeted Metabolomics. Analytical Chemistry, 2020, 92, 8072-8080.	3.2	151
1602	Comparative Blood and Urine Metabolomics Analysis of Healthy Elderly and Young Male Singaporeans. Journal of Proteome Research, 2020, 19, 3264-3275.	1.8	15

#	Article	IF	Citations
1603	A four-week white bread diet does not alter plasma glucose concentrations, metabolic or vascular physiology in mourning doves, Zenaida macroura. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 247, 110718.	0.8	11
1604	Antitumor potential of dark sweet cherry sweet (Prunus avium) phenolics in suppressing xenograft tumor growth of MDA-MB-453 breast cancer cells. Journal of Nutritional Biochemistry, 2020, 84, 108437.	1.9	10
1605	Effect of soybean oligopeptide on the growth and metabolism of Lactobacillus acidophilus JCM 1132. RSC Advances, 2020, 10, 16737-16748.	1.7	16
1606	Insight into the interaction between Fe-based nanomaterials and maize (Zea mays) plants at metabolic level. Science of the Total Environment, 2020, 738, 139795.	3.9	44
1607	Serum metabolomics identifies metabolite panels that differentiate lame dairy cows from healthy ones. Metabolomics, 2020, 16, 73.	1.4	6
1608	Untargeted metabolomics study and pro-apoptotic properties of B-norcholesteryl benzimidazole compounds in ovarian cancer SKOV3 cells. Journal of Steroid Biochemistry and Molecular Biology, 2020, 202, 105709.	1.2	12
1609	In Vitro Fermentation of Sheep and Cow Milk Using Infant Fecal Bacteria. Nutrients, 2020, 12, 1802.	1.7	9
1610	Urinary metabolomics fingerprinting around parturition identifies metabolites that differentiate lame dairy cows from healthy ones. Animal, 2020, 14, 2138-2149.	1.3	6
1611	Metabolic alterations caused by the mutation and overexpression of the Tmem135 gene. Experimental Biology and Medicine, 2020, 245, 1571-1583.	1.1	7
1612	Application of an Integrated and Open Source Workflow for LC-HRMS Plant Metabolomics Studies. Case-Control Study: Metabolic Changes of Maize in Response to Fusarium verticillioides Infection. Frontiers in Plant Science, 2020, 11, 664.	1.7	11
1613	Trunk Girdling Increased Stomatal Conductance in Cabernet Sauvignon Grapevines, Reduced Glutamine, and Increased Malvidin-3-Glucoside and Quercetin-3-Glucoside Concentrations in Skins and Pulp at Harvest. Frontiers in Plant Science, 2020, 11, 707.	1.7	7
1614	Serum untargeted metabolomic changes in response to diet intervention in dogs with preclinical myxomatous mitral valve disease. PLoS ONE, 2020, 15, e0234404.	1.1	13
1615	Analytical techniques in metabolomics. , 2020, , 35-64.		7
1616	Integrative analysis of gut microbiome and metabolites revealed novel mechanisms of intestinal Salmonella carriage in chicken. Scientific Reports, 2020, 10, 4809.	1.6	35
1617	Integration analysis of metabolites and single nucleotide polymorphisms improves the prediction of drug response of celecoxib. Metabolomics, 2020, 16, 41.	1.4	2
1618	Identifying Significant Metabolic Pathways Using Multi-Block Partial Least-Squares Analysis. Journal of Proteome Research, 2020, 19, 1965-1974.	1.8	9
1619	Plasma Metabolomics and Lipidomics Reveal Perturbed Metabolites in Different Disease Stages of Chronic Obstructive Pulmonary Disease . International Journal of COPD, 2020, Volume 15, 553-565.	0.9	24
1620	Serum metabolite profiles as potential biochemical markers in young adults with community-acquired pneumonia cured by moxifloxacin therapy. Scientific Reports, 2020, 10, 4436.	1.6	13

#	Article	IF	Citations
1621	Mechanistic exploration of the activities of poly(lactic-co-glycolic acid)-loaded nanoparticles of betulinic acid against hepatocellular carcinoma at cellular and molecular levels. Archives of Physiology and Biochemistry, 2022, 128, 836-848.	1.0	6
1622	Comparative Characterization of Aroma Compounds in Silver Carp (Hypophthalmichthys) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Recombination Studies. Journal of Agricultural and Food Chemistry, 2020, 68, 10403-10413.	2.4	60
1623	Proteomic Analysis of Preoperative CSF Reveals Risk Biomarkers of Postoperative Delirium. Frontiers in Psychiatry, 2020, 11, 170.	1.3	17
1624	Rhizobium response to sole and combined exposure to cadmium and the phytocompounds alpha-pinene and quercetin. Ecotoxicology, 2020, 29, 444-458.	1.1	4
1625	Transcriptome and metabolome analysis reveal that oral secretions from Helicoverpa armigera and Spodoptera litura influence wound-induced host response in cotton. Crop Journal, 2020, 8, 929-942.	2.3	16
1626	Rapid identification and quantification of adulteration in Dendrobium officinale using nuclear magnetic resonance spectroscopy combined with least-squares support vector machine. Journal of Food Measurement and Characterization, 2020, 14, 1427-1432.	1.6	2
1627	Urinary Metabolomics and Biochemical Analysis of Antihyperglycemic Effect of Ficus deltoidea Jack Varieties in Streptozotocin-Nicotinamideâ€“Induced Diabetic Rats. Applied Biochemistry and Biotechnology, 2020, 192, 1-21.	1.4	9
1628	Biosynthesis-inspired mining and identification of untapped alkaloids in Camptotheca acuminate for enzyme discovery using ultra-high performance liquid chromatography coupled with quadrupole-time of flight-mass spectrometry. Journal of Chromatography A, 2020, 1620, 461036.	1.8	11
1629	Metabolomic study of soft corals from the Colombian Caribbean: PSYCHE and 1H-NMR comparative analysis. Scientific Reports, 2020, 10, 5417.	1.6	17
1630	CYP1B1, VEGFA, BCL2, and CDKN1A Affect the Development of Chronic Obstructive Pulmonary Disease . International Journal of COPD, 2020, Volume 15, 167-175.	0.9	11
1631	Metabolomics to Exploit the Primed Immune System of Tomato Fruit. Metabolites, 2020, 10, 96.	1.3	28
1632	Saccharomyces arboricola and Its Hybridsâ€™ Propensity for Sake Production: Interspecific Hybrids Reveal Increased Fermentation Abilities and a Mosaic Metabolic Profile. Fermentation, 2020, 6, 14.	1.4	7
1633	Urinary metabolomics research for Huangqi Jianzhong Tang against chronic atrophic gastritis rats based on 1H NMR and UPLC-Q/TOF MS. Journal of Pharmacy and Pharmacology, 2020, 72, 748-760.	1.2	13
1634	Allantoin, a Potential Metabolite That Promotes AMPK Phosphorylation and Suppresses Cholesterol Biosynthesis Via the Mevalonate Pathway and Bloch Pathway. Applied Biochemistry and Biotechnology, 2020, 191, 226-244.	1.4	4
1635	Halophyte plants from sustainable marine aquaponics are a valuable source of omega-3 polar lipids. Food Chemistry, 2020, 320, 126560.	4.2	19
1636	Differential constituents in roots, stems and leaves of Newbouldia laevis Thunb. screened by LC/ESI-Q-TOF-MS. Results in Chemistry, 2020, 2, 100052.	0.9	6
1637	MIF as a biomarker and therapeutic target for overcoming resistance to proteasome inhibitors in human myeloma. Blood, 2020, 136, 2557-2573.	0.6	33
1638	Carbohydrate and amino acid metabolism and oxidative status in Holstein heifers precision-fed diets with different forage to concentrate ratios. Animal, 2020, 14, 2315-2325.	1.3	10

#	Article	IF	Citations
1639	Integration of genomics, metagenomics, and metabolomics to identify interplay between susceptibility alleles and microbiota in adenoma initiation. BMC Cancer, 2020, 20, 600.	1.1	11
1640	Remodeling of the Histoplasma Capsulatum Membrane Induced by Monoclonal Antibodies. Vaccines, 2020, 8, 269.	2.1	11
1641	The expression and regulation of HOX genes and membrane proteins among different cytogenetic groups of acute myeloid leukemia. Molecular Genetics & Genomic Medicine, 2020, 8, e1365.	0.6	9
1642	Differential Metabolic Alterations and Biomarkers Between Gastric Cancer and Colorectal Cancer: A Systematic Review and Meta-Analysis . OncoTargets and Therapy, 2020, Volume 13, 6093-6108.	1.0	15
1643	Uncovering the mechanism of Astragali Radix against nephrotic syndrome by intergrating lipidomics and network pharmacology. Phytomedicine, 2020, 77, 153274.	2.3	20
1644	Ovarian mitochondrial and oxidative stress proteins are altered by glyphosate exposure in mice. Toxicology and Applied Pharmacology, 2020, 402, 115116.	1.3	18
1645	Alterations in Serum-Free Amino Acid Profiles in Childhood Asthma. International Journal of Environmental Research and Public Health, 2020, 17, 4758.	1.2	14
1646	Proteomic analysis of wheat contrasting genotypes reveals the interplay between primary metabolic and regulatory pathways in anthers under drought stress. Journal of Proteomics, 2020, 226, 103895.	1.2	7
1647	Sorbent coatings for solid-phase microextraction targeted towards the analysis of death-related polar analytes coupled to comprehensive two-dimensional gas chromatography: Comparison of zwitterionic polymeric ionic liquids versus commercial coatings. Microchemical Journal, 2020, 158, 105243.	2.3	9
1648	Heat priming improved heat tolerance of photosynthesis, enhanced terpenoid and benzenoid emission and phenolics accumulation in <scp>Achillea millefolium</scp>. Plant, Cell and Environment, 2021, 44, 2365-2385.	2.8	22
1649	System-wide biochemical analysis reveals ozonide antimalarials initially act by disrupting Plasmodium falciparum haemoglobin digestion. PLoS Pathogens, 2020, 16, e1008485.	2.1	24
1650	1H-NMR analysis of amino acid metabolism in aqueous humor of patients with cataract, according to diabetes status. Journal of International Medical Research, 2020, 48, 030006052093465.	0.4	2
1651	Metabolomics Approach Expands the Classification of Propolis Samples from Midwest Brazil. Journal of Natural Products, 2020, 83, 333-343.	1.5	22
1652	The Unique Lipidomic Signatures of Saccharina latissima Can Be Used to Pinpoint Their Geographic Origin. Biomolecules, 2020, 10, 107.	1.8	33
1653	Metabolomics Provide Sensitive Insights into the Impacts of Low Level Environmental Contamination on Fish Healthâ€"A Pilot Study. Metabolites, 2020, 10, 24.	1.3	9
1654	Silver Nanoparticles Alter Soil Microbial Community Compositions and Metabolite Profiles in Unplanted and Cucumber-Planted Soils. Environmental Science & Technology, 2020, 54, 3334-3342.	4.6	113
1655	High-Throughput Screening for Engineered Nanoparticles That Enhance Photosynthesis Using Mesophyll Protoplasts. Journal of Agricultural and Food Chemistry, 2020, 68, 3382-3389.	2.4	34
1656	Effects of variable deoxygenation on trace element bioaccumulation and resulting metabolome profiles in the blue mussel (Mytilus edulis). Chemosphere, 2020, 250, 126314.	4.2	12

#	Article	IF	Citations
1657	The rise of the nanomaterial metabolite corona, and emergence of the complete corona. Environmental Science: Nano, 2020, 7, 1041-1060.	2.2	53
1658	Dietary prebiotics alter novel microbial dependent fecal metabolites that improve sleep. Scientific Reports, 2020, 10, 3848.	1.6	46
1659	Targeted metabolomics of pellicle and saliva in children with different caries activity. Scientific Reports, 2020, 10, 697.	1.6	30
1660	Induction of the nicotinamide riboside kinase NAD+ salvage pathway in a model of sarcoplasmic reticulum dysfunction. Skeletal Muscle, 2020, 10, 5.	1.9	6
1661	A TMT-Based Quantitative Proteome Analysis to Elucidate the TSWV Induced Signaling Cascade in Susceptible and Resistant Cultivars of Solanum lycopersicum. Plants, 2020, 9, 290.	1.6	15
1662	High-Performance Liquid Chromatography-Mass Spectrometry-Based Lipid Metabolite Profiling of Acromegaly. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e1075-e1084.	1.8	6
1663	Impact of scion/rootstock reciprocal effects on metabolomics of fruit juice and phloem sap in grafted Citrus reticulata. PLoS ONE, 2020, 15, e0227192.	1.1	39
1664	GC-MS based metabolomic profiling of lung tissue couple with network pharmacology revealed the possible protection mechanism of Pudilan Xiaoyan Oral Liquid in LPS-induced lung injury of mice. Biomedicine and Pharmacotherapy, 2020, 124, 109833.	2.5	17
1665	Senescence-Associated Metabolomic Phenotype in Primary and iPSC-Derived Mesenchymal Stromal Cells. Stem Cell Reports, 2020, 14, 201-209.	2.3	62
1666	High Resolution GC-Orbitrap-MS Metabolomics Using Both Electron Ionization and Chemical Ionization for Analysis of Human Plasma. Journal of Proteome Research, 2020, 19, 2717-2731.	1.8	27
1667	Antidepressant treatment with fluoxetine during pregnancy and lactation modulates the gut microbiome and metabolome in a rat model relevant to depression. Gut Microbes, 2020, 11, 735-753.	4.3	27
1668	miRNA and circRNA expression patterns in mouse brain during toxoplasmosis development. BMC Genomics, 2020, 21, 46.	1.2	15
1669	A Case Report of Switching from Specific Vendor-Based to R-Based Pipelines for Untargeted LC-MS Metabolomics. Metabolites, 2020, 10, 28.	1.3	13
1671	Ikarugamycin inhibits pancreatic cancer cell glycolysis by targeting hexokinase 2. FASEB Journal, 2020, 34, 3943-3955.	0.2	25
1672	Utilization of GCâ€“MS untargeted metabolomics to assess the delayed response of glufosinate treatment of transgenic herbicide resistant (HR) buffalo grasses (Stenotaphrum secundatum L.). Metabolomics, 2020, 16, 22.	1.4	6
1673	Amino Acids of Seminal Plasma Associated With Freezability of Bull Sperm. Frontiers in Cell and Developmental Biology, 2019, 7, 347.	1.8	38
1674	Venom Î±â€amylase of the endoparasitic wasp Pteromalus puparum influences host metabolism. Pest Management Science, 2020, 76, 2180-2189.	1.7	11
1675	A Mouse Homolog of a Human TP53 Germline Mutation Reveals a Lipolytic Activity of p53. Cell Reports, 2020, 30, 783-792.e5.	2.9	12

#	Article	IF	Citations
1676	DESI-MSI and METASPACE indicates lipid abnormalities and altered mitochondrial membrane components in diabetic renal proximal tubules. Metabolomics, 2020, 16, 11.	1.4	34
1677	â€œHelp is in the airâ€¦ volatiles from salt-stressed plants increase the reproductive success of receivers under salinity. Planta, 2020, 251, 48.	1.6	24
1678	The use of PAH, metabolite and lipid profiling to assess exposure and effects of produced water discharges on pelagic copepods. Science of the Total Environment, 2020, 714, 136674.	3.9	12
1679	A serum metabolomics study of patients with nAMD in response to anti-VEGF therapy. Scientific Reports, 2020, 10, 1341.	1.6	8
1680	Adenosine accumulation causes metabolic disorders in testes and associates with lower testosterone level in obese mice. Molecular Reproduction and Development, 2020, 87, 241-250.	1.0	6
1682	Syntrophic splitting of central carbon metabolism in host cells bearing functionally different symbiotic bacteria. ISME Journal, 2020, 14, 1982-1993.	4.4	11
1683	Distinguishing NASH Histological Severity Using a Multiplatform Metabolomics Approach. Metabolites, 2020, 10, 168.	1.3	26
1684	Effect of Saffron Extract and Crocin in Serum Metabolites of Induced Obesity Rats. BioMed Research International, 2020, 2020, 1-15.	0.9	3
1685	Detrimental effects of excessive fatty acid secretion on female sperm storage in chickens. Journal of Animal Science and Biotechnology, 2020, 11, 26.	2.1	15
1686	A Protocol for the Multi-Omic Integration of Cervical Microbiota and Urine Metabolomics to Understand Human Papillomavirus (HPV)-Driven Dysbiosis. Biomedicines, 2020, 8, 81.	1.4	4
1687	Optimization of Headspace SPME GC Ã— GC-TOF/MS Analysis of Volatile Organic Compounds in Edible Oils by Central Composite Design for Adulteration Detection of Edible Oil. Food Analytical Methods, 2020, 13, 1328-1336.	1.3	16
1688	Response of cucumber (Cucumis sativus) to perfluorooctanoic acid in photosynthesis and metabolomics. Science of the Total Environment, 2020, 724, 138257.	3.9	33
1689	Cytosolic GLUTAMINE SYNTHETASE1;1 Modulates Metabolism and Chloroplast Development in Roots. Plant Physiology, 2020, 182, 1894-1909.	2.3	25
1690	Consumption of Fermented Foods Is Associated with Systematic Differences in the Gut Microbiome and Metabolome. MSystems, 2020, 5, .	1.7	81
1691	Domesticated Populations of Codium tomentosum Display Lipid Extracts with Lower Seasonal Shifts than Conspecifics from the Wildâ€”Relevance for Biotechnological Applications of this Green Seaweed. Marine Drugs, 2020, 18, 188.	2.2	23
1692	Perinatal exposure to bisphenol A causes a disturbance of neurotransmitter metabolic pathways in female mouse offspring: A focus on the tryptophan and dopamine pathways. Chemosphere, 2020, 254, 126715.	4.2	18
1693	Green tea polyphenols boost gut-microbiota-dependent mitochondrial TCA and urea cycles in Sprague–Dawley rats. Journal of Nutritional Biochemistry, 2020, 81, 108395.	1.9	27
1694	Girdling of table grapes at fruit set can divert the phenylpropanoid pathway towards accumulation of proanthocyanidins and change the volatile composition. Plant Science, 2020, 296, 110495.	1.7	20

#	Article	IF	Citations
1695	Molecular phenomics of a high-calorie diet-induced porcine model of prepubertal obesity. Journal of Nutritional Biochemistry, 2020, 83, 108393.	1.9	7
1696	Nuclear magnetic resonanceâ€“based targeted profiling of urinary acetate and citrate following cyclophosphamide therapy in patients with lupus nephritis. Lupus, 2020, 29, 782-786.	0.8	7
1697	Bacterial Diversity Controls Transformation of Wastewater-Derived Organic Contaminants in River-Simulating Flumes. Environmental Science & Technology, 2020, 54, 5467-5479.	4.6	38
1698	Enhanced fatty acid oxidation provides glioblastoma cells metabolic plasticity to accommodate to its dynamic nutrient microenvironment. Cell Death and Disease, 2020, 11, 253.	2.7	67
1699	Coping with Starvation: Contrasting Lipidomic Dynamics in the Cells of Two Sacoglossan Sea Slugs Incorporating Stolen Plastids from the Same Macroalga. Integrative and Comparative Biology, 2020, 60, 43-56.	0.9	9
1700	Methyl Donor Deficiency Blocks Colorectal Cancer Development by Affecting Key Metabolic Pathways. Cancer Prevention Research, 2020, 13, 1-14.	0.7	7
1701	Diterpene Ginkgolides Exert an Antidepressant Effect Through the NT3-TrkA and Ras-MAPK Pathways . Drug Design, Development and Therapy, 2020, Volume 14, 1279-1294.	2.0	12
1702	Integrative -omics and HLA-ligandomics analysis to identify novel drug targets for ccRCC immunotherapy. Genome Medicine, 2020, 12, 32.	3.6	32
1703	Metabolomic Studies of Lipid Storage Disorders, with Special Reference to Niemann-Pick Type C Disease: A Critical Review with Future Perspectives. International Journal of Molecular Sciences, 2020, 21, 2533.	1.8	13
1704	Plasma metabolomic profiling of healthy pregnant mares and mares with experimentally induced placentitis. Equine Veterinary Journal, 2021, 53, 85-93.	0.9	2
1705	Untargeted metabolomics predicts the functional outcome of ischemic stroke. Journal of the Formosan Medical Association, 2021, 120, 234-241.	0.8	11
1706	Lipid metabolism disorders contribute to the pathogenesis of Hepatospora eriocheir in the crab Eriocheir sinensis. Journal of Fish Diseases, 2021, 44, 305-313.	0.9	18
1707	Metabolic Profile of Patients with Severe Endometriosis: a Prospective Experimental Study. Reproductive Sciences, 2021, 28, 728-735.	1.1	30
1708	NMRâ€based clinical metabolomics revealed distinctive serum metabolic profiles in patients with spondyloarthritis. Magnetic Resonance in Chemistry, 2021, 59, 85-98.	1.1	14
1709	Astragaloside IV Extends Lifespan of Caenorhabditis elegans by Improving Age-Related Functional Declines and Triggering Antioxidant Responses. Rejuvenation Research, 2021, 24, 120-130.	0.9	9
1710	Freeze tolerance and the underlying metabolite responses in the Xizang plateau frog, Nanorana parkeri. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 173-184.	0.7	12
1711	Integrated network pharmacology and metabolomics to dissect the combination mechanisms of Bupleurum chinense DC-Paeonia lactiflora Pall herb pair for treating depression. Journal of Ethnopharmacology, 2021, 264, 113281.	2.0	48
1712	Molecular profiling of the Mahanarva spectabilis salivary glands and phytohormonal response of elephant grass. International Journal of Tropical Insect Science, 2021, 41, 849-860.	0.4	3

#	Article	IF	Citations
1713	Floral maturation and changing air temperatures influence scent volatiles biosynthesis and emission in Jasminum auriculatum Vahl. Environmental and Experimental Botany, 2021, 181, 104296.	2.0	18
1714	Common and specific mineral and metabolic features in dairy cows with clinical metritis, hypocalcaemia or ketosis. Research in Veterinary Science, 2021, 135, 335-342.	0.9	13
1715	Prediction of Acute Graft versus Host Disease and Relapse by Endogenous Metabolomic Compounds in Patients Receiving Personalized Busulfan-Based Conditioning. Journal of Proteome Research, 2021, 20, 684-694.	1.8	6
1716	Catechinâ€Rich Green Tea Extract and the Lossâ€ofâ€TLR4 Signaling Differentially Alter the Hepatic Metabolome in Mice with Nonalcoholic Steatohepatitis. Molecular Nutrition and Food Research, 2021, 65, e2000998.	1.5	10
1717	Metabolomic profiling identifies plasma sphingosine 1-phosphate levels associated with welding exposures. Occupational and Environmental Medicine, 2021, 78, 255-261.	1.3	3
1718	Plasma metabolomics are associated with metabolic syndrome: A targeted approach. Nutrition, 2021, 83, 111082.	1.1	11
1719	Effects of manufacturing on the volatile composition of raw Pu-erh tea with a focus on de-enzyming and autoclavingâ€“compressing treatments. LWT - Food Science and Technology, 2021, 137, 110461.	2.5	12
1720	H2O2 priming promotes salt tolerance in maize by protecting chloroplasts ultrastructure and primary metabolites modulation. Plant Science, 2021, 303, 110774.	1.7	26
1721	Targeted metabolomics study of early pathological features in hippocampus of triple transgenic Alzheimerâ€™s disease male mice. Journal of Neuroscience Research, 2021, 99, 927-946.	1.3	17
1722	Untargeted metabolomics for Achilles heel of engineered nanomaterialsâ€™ risk assessment. Chemosphere, 2021, 262, 128058.	4.2	8
1723	Comparison of the contents of phenolic compounds including flavonoids and antioxidant activity of rice (Oryza sativa) and Chinese wild rice (Zizania latifolia). Food Chemistry, 2021, 344, 128600.	4.2	46
1724	Gastric Metabolomics Detects Helicobacter pylori Correlated Loss of Numerous Metabolites in Both the Corpus and Antrum. Infection and Immunity, 2021, 89, .	1.0	12
1725	A four-week high fat diet does not alter plasma glucose or metabolic physiology in wild-caught mourning doves (Zenaida macroura). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 251, 110820.	0.8	11
1726	Metabolic markers for diagnosis and risk-prediction of multiple myeloma. Life Sciences, 2021, 265, 118852.	2.0	15
1727	Identification of biomarkers for essential hypertension based on metabolomics. Nutrition, Metabolism and Cardiovascular Diseases, 2021, 31, 382-395.	1.1	20
1728	Fabrication of Imatinib Mesylate-Loaded Lactoferrin-Modified PEGylated Liquid Crystalline Nanoparticles for Mitochondrial-Dependent Apoptosis in Hepatocellular Carcinoma. Molecular Pharmaceutics, 2021, 18, 1102-1120.	2.3	17
1729	PLHC-1 topminnow liver cells: An alternative model to investigate the toxicity of plastic additives in the aquatic environment. Ecotoxicology and Environmental Safety, 2021, 208, 111746.	2.9	11
1730	Effects of Continuous Albuterol Inhalation on Serum Metabolome in Healthy Subjects: More Than Just Lactic Acid. Journal of Clinical Pharmacology, 2021, 61, 649-655.	1.0	3

#	Article	IF	Citations
1731	Multi-omics integration in biomedical research â€“ A metabolomics-centric review. Analytica Chimica Acta, 2021, 1141, 144-162.	2.6	125
1732	Metabolomic profiling of patients with high gradient aortic stenosis undergoing transcatheter aortic valve replacement. Clinical Research in Cardiology, 2021, 110, 399-410.	1.5	9
1733	Metabolic profiling reveals alterations in the erythrocyte response to fava bean ingestion in G6PD â€deficient mice. Journal of the Science of Food and Agriculture, 2021, 101, 1562-1571.	1.7	1
1734	Salivary metabolome of children and adolescents under peritoneal dialysis. Clinical Oral Investigations, 2021, 25, 2345-2351.	1.4	11
1735	Comparative analysis of beneficial effects of vancomycin treatment on Th1â€•and Th2â€biased mice and the role of gut microbiota. Journal of Applied Microbiology, 2021, 130, 1337-1356.	1.4	14
1737	Intergenerational thyroid hormone homeostasis imbalance in cerebellum of rats perinatally exposed to glyphosateâ€based herbicide. Environmental Toxicology, 2021, 36, 1031-1042.	2.1	6
1738	Monitoring apoptosis in intact cells by highâ€•resolution magic angle spinning 1 H NMR spectroscopy. NMR in Biomedicine, 2021, 34, e4456.	1.6	2
1740	Targeted metabolomics analysis of postoperative delirium. Scientific Reports, 2021, 11, 1521.	1.6	24
1741	Effects of Chronic Photobiomodulation with Transcranial Near-Infrared Laser on Brain Metabolomics of Young and Aged Rats. Molecular Neurobiology, 2021, 58, 2256-2268.	1.9	14
1742	The exposome paradigm to predict environmental health in terms of systemic homeostasis and resource balance based on NMR data science. RSC Advances, 2021, 11, 30426-30447.	1.7	10
1743	Cytoglobin protects cancer cells from apoptosis by regulation of mitochondrial cardiolipin. Scientific Reports, 2021, 11, 985.	1.6	10
1744	Inter-kingdom relationships in Crohnâ€™s disease explored using a multi-omics approach. Gut Microbes, 2021, 13, 1930871.	4.3	16
1745	System Biology-Guided Chemical Proteomics to Discover Protein Targets of Monoethylhexyl Phthalate in Regulating Cell Cycle. Environmental Science & Technology, 2021, 55, 1842-1851.	4.6	16
1746	Enhancement of galanthamine production through elicitation and NMR-based metabolite profiling in Narcissus pseudonarcissus cv. Carlton in vitro callus cultures. In Vitro Cellular and Developmental Biology - Plant, 2021, 57, 435-446.	0.9	8
1747	Survey of potential diagnostic metabolite markers in serum of the rat model of Alzheimerâ€™s disease using nuclear magnatic resonance (1H-NMR) technique. Koomesh, 2021, 23, 105-116.	0.1	0
1748	Omics to Understand Drought Tolerance in Plants: An Update. , 2021, , 69-93.		0
1749	Effect of antihistamine-containing syrup on salivary metabolites: an in vitro and in vivo study. Brazilian Oral Research, 2021, 35, e032.	0.6	0
1750	Mass Spectrometry-Based Shotgun Lipidomics for Cancer Research. Advances in Experimental Medicine and Biology, 2021, 1280, 39-55.	0.8	2

#	Article	IF	Citations
1751	Intraspecific variation in multiple trait responses of Alexandrium ostenfeldii towards elevated pCO2. Harmful Algae, 2021, 101, 101970.	2.2	5
1752	DaDIA: Hybridizing Data-Dependent and Data-Independent Acquisition Modes for Generating High-Quality Metabolomic Data. Analytical Chemistry, 2021, 93, 2669-2677.	3.2	34
1753	Multiomics approach for precision wellness. , 2021, , 147-180.		0
1754	NMR-Based Metabolomics. , 2021, , 353-369.		1
1755	Integrated genetic and metabolic landscapes predict vulnerabilities of temozolomide resistant glioblastoma cells. Npj Systems Biology and Applications, 2021, 7, 2.	1.4	3
1756	Circulating microRNAs May Serve as Biomarkers for Hypertensive Emergency End-Organ Injuries and Address Underlying Pathways in an Animal Model. Frontiers in Cardiovascular Medicine, 2020, 7, 626699.	1.1	2
1757	Metabolic fingerprints of fear memory consolidation during sleep. Molecular Brain, 2021, 14, 30.	1.3	2
1758	Two UGT84A Family Glycosyltransferases Regulate Phenol, Flavonoid, and Tannin Metabolism in Juglans regia (English Walnut). Frontiers in Plant Science, 2021, 12, 626483.	1.7	9
1759	Head, Shoulders, Knees, and Toes: Placement of Wearable Passive Samplers Alters Exposure Profiles Observed. Environmental Science & Technology, 2021, 55, 3796-3806.	4.6	19
1761	Direct conversion of osteosarcoma to adipocytes by targeting TNIK. JCI Insight, 2021, 6, .	2.3	12
1763	Lipidomic and metabolomic profiles of Coffea canephora L. beans cultivated in Southwestern Nigeria. PLoS ONE, 2021, 16, e0234758.	1.1	7
1764	Functional Analysis of Immune Signature Genes in Th1* Memory Cells Links ISOC1 and Pyrimidine Metabolism to IFN-Î³ and IL-17 Production. Journal of Immunology, 2021, 206, 1181-1193.	0.4	8
1765	Unique Metabolomic Profile of Skeletal Muscle in Chronic Limb Threatening Ischemia. Journal of Clinical Medicine, 2021, 10, 548.	1.0	16
1766	Transcriptomic, Protein-DNA Interaction, and Metabolomic Studies of VosA, VelB, and WetA in Aspergillus nidulans Asexual Spores. MBio, 2021, 12, .	1.8	29
1767	Fish ecotyping based on machine learning and inferred network analysis of chemical and physical properties. Scientific Reports, 2021, 11, 3766.	1.6	10
1768	Acute Kidney Injury Results in Long-Term Diastolic Dysfunction That Is Prevented by Histone Deacetylase Inhibition. JACC Basic To Translational Science, 2021, 6, 119-133.	1.9	17
1769	Serum Metabolomics Profiling to Identify Novel Biomarkers for Cyanotic Heart Disease. Biomedical and Pharmacology Journal, 2021, 14, 81-94.	0.2	1
1770	PPA1 Regulates Systemic Insulin Sensitivity by Maintaining Adipocyte Mitochondria Function as a Novel PPARÎ³ Target Gene. Diabetes, 2021, 70, 1278-1291.	0.3	8

#	Article	IF	Citations
1771	Integrating metabolomic data with machine learning approach for discovery of Q-markers from Jinqi Jiangtang preparation against type 2 diabetes. Chinese Medicine, 2021, 16, 30.	1.6	12
1772	Cystine supplementation rebalances the redox homeostasis of microenvironment in non-small cell lung cancer cells and reverses their resistance to docetaxel. Acta Pharmacologica Sinica, 2021, 42, 2132-2143.	2.8	9
1773	Circulatory histidine levels as predictive indicators of disease activity in takayasu arteritis. Analytical Science Advances, 0, , .	1.2	7
1774	Metabolic and behavioral features of acute hyperpurinergia and the maternal immune activation mouse model of autism spectrum disorder. PLoS ONE, 2021, 16, e0248771.	1.1	17
1775	Traumatic brain injury metabolome and mitochondrial impact after early stage Ru360 treatment. Mitochondrion, 2021, 57, 192-204.	1.6	6
1776	Traumatic Brain Injury Impairs Systemic Vascular Function through Disruption of Inward-Rectifier Potassium Channels. Function, 2021, 2, .	1.1	9
1777	G6PD activity contributes to the regulation of histone acetylation and gene expression in smooth muscle cells and to the pathogenesis of vascular diseases. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H999-H1016.	1.5	13
1778	Metabolomics of Photosynthetically Active Tissues in White Grapes: Effects of Light Microclimate and Stress Mitigation Strategies. Metabolites, 2021, 11, 205.	1.3	10
1779	Rewiring of purine metabolism in response to acidosis stress in glioma stem cells. Cell Death and Disease, 2021, 12, 277.	2.7	18
1780	Does saffron supplementation have favorable effects on liver function indicators? A systematic review and meta-analysis of randomized controlled trials. Critical Reviews in Food Science and Nutrition, 2022, 62, 6315-6327.	5.4	6
1781	Ceramides and sphingosine-1-phosphate mediate the distinct effects of M1/M2-macrophage infusion on liver recovery after hepatectomy. Cell Death and Disease, 2021, 12, 324.	2.7	15
1782	Discovery of Anthocyanin Biosynthetic Pathway in Cosmos caudatus Kunth. Using Omics Analysis. Agronomy, 2021, 11, 661.	1.3	1
1783	Metabolite profiling of endophytic Streptomyces spp. and its antiplasmodial potential. PeerJ, 2021, 9, e10816.	0.9	5
1784	Metabolomic Patterns of Septoria Canker Resistant and Susceptible Populus trichocarpa Genotypes 24 Hours Postinoculation. Phytopathology, 2021, 111, 2052-2066.	1.1	6
1785	Radiation-Induced Metabolic Shifts in the Hepatic Parenchyma: Findings from 18F-FDG PET Imaging and Tissue NMR Metabolomics in a Mouse Model for Hepatocellular Carcinoma. Molecules, 2021, 26, 2573.	1.7	5
1786	Prospective comparative study: metabolomics profiles of exudate and serum for patients with and without venous ulcer wound itch. Itch (Philadelphia, Pa), 2021, 6, e46-e46.	1.0	0
1787	Time-course analysis of Streptococcus sanguinis after manganese depletion reveals changes in glycolytic and nucleic acid metabolites. Metabolomics, 2021, 17, 44.	1.4	7
1788	Protein expression plasticity contributes to heat and drought tolerance of date palm. Oecologia, 2021, 197, 903-919.	0.9	17

#	Article	IF	Citations
1789	Implementation of Genetic Engineering and Novel Omics Approaches to Enhance Bioremediation: A Focused Review. Bulletin of Environmental Contamination and Toxicology, 2022, 108, 443-450.	1.3	20
1790	Toward the discovery of biological functions associated with the mechanosensor Mtl1p of Saccharomyces cerevisiae via integrative multi-OMICs analysis. Scientific Reports, 2021, 11, 7411.	1.6	4
1791	Metabolic impact of pathogenic variants in the mitochondrial <scp>glutamylâ€tRNA</scp> synthetase <scp>EARS2</scp>. Journal of Inherited Metabolic Disease, 2021, 44, 949-960.	1.7	5
1792	Nampt Potentiates Antioxidant Defense in Diabetic Cardiomyopathy. Circulation Research, 2021, 129, 114-130.	2.0	28
1793	Influence of neck slaughtering in broiler chicken meat on physicochemical analysis and metabolites â€˜fingerprintingâ€™ to enhance meat quality. Arabian Journal of Chemistry, 2021, 14, 103042.	2.3	4
1794	Two Sides to One Storyâ€”Aroma Chemical and Sensory Signature of Lugana and Verdicchio Wines. Molecules, 2021, 26, 2127.	1.7	9
1795	Effect of harvesting month and proximity to fish farm sea cages on the lipid profile of cultivated Saccharina latissima. Algal Research, 2021, 54, 102201.	2.4	14
1796	Metabolite reanalysis revealed potential biomarkers for COVID-19: a potential link with immune response. Future Microbiology, 2021, 16, 577-588.	1.0	8
1797	Metabolomic Expression of Laryngeal and Hindlimb Muscles in Adult versus Senescent Rats. Annals of Otology, Rhinology and Laryngology, 2022, 131, 259-267.	0.6	1
1798	Insights of species-specific polar lipidome signatures of seaweeds fostering their valorization in the blue bioeconomy. Algal Research, 2021, 55, 102242.	2.4	17
1799	Global-Scale Metabolomic Profiling of Human Hair for Simultaneous Monitoring of Endogenous Metabolome, Short- and Long-Term Exposome. Frontiers in Chemistry, 2021, 9, 674265.	1.8	16
1800	Basidiomycetes Are Particularly Sensitive to Bacterial Volatile Compounds: Mechanistic Insight Into the Case Study of Pseudomonas protegens Volatilome Against Heterobasidion abietinum. Frontiers in Microbiology, 2021, 12, 684664.	1.5	14
1801	Visual exploration of large metabolic models. Bioinformatics, 2021, 37, 4460-4468.	1.8	4
1802	Metabolomics: towards acceleration of antibacterial plant-based leads discovery. Phytochemistry Reviews, 2022, 21, 765-781.	3.1	13
1803	MetFish: a Metabolomics Pipeline for Studying Microbial Communities in Chemically Extreme Environments. MSystems, 2021, 6, e0105820.	1.7	5
1804	Phenomic and metabolomic responses of roots to cadmium reveal contrasting resistance strategies in two rice cultivars (Oryza sativa L.). Soil Ecology Letters, 2021, 3, 220-229.	2.4	16
1805	Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset. Science Translational Medicine, 2021, 13, .	5.8	82
1806	Comprehensive Metabolomic Analysis Reveals Dynamic Metabolic Reprogramming in Hep3B Cells with Aflatoxin B1 Exposure. Toxins, 2021, 13, 384.	1.5	10

#	Article	IF	Citations
1807	Comprehensive plasma metabolomic and lipidomic analyses reveal potential biomarkers for heart failure. Molecular and Cellular Biochemistry, 2021, 476, 3449-3460.	1.4	14
1808	PKM2-dependent metabolic skewing of hepatic Th17 cells regulates pathogenesis of non-alcoholic fatty liver disease. Cell Metabolism, 2021, 33, 1187-1204.e9.	7.2	60
1809	MetaboAnalyst 5.0: narrowing the gap between raw spectra and functional insights. Nucleic Acids Research, 2021, 49, W388-W396.	6.5	2,221
1810	Aberrant BCAA and glutamate metabolism linked to regional neurodegeneration in a mouse model of Leigh syndrome. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166082.	1.8	9
1811	Effect of Protoberberine-Rich Fraction of Chelidonium majus L. on Endometriosis Regression. Pharmaceutics, 2021, 13, 931.	2.0	6
1812	A Novel Technique for Redox Lipidomics Using Mass Spectrometry: Application on Vegetable Oils Used to Fry Potatoes. Journal of the American Society for Mass Spectrometry, 2021, 32, 1798-1809.	1.2	5
1813	Multi-Platform Metabolomics Analyses Revealed the Complexity of Serum Metabolites in LPS-Induced Neuroinflammed Rats Treated with Clinacanthus nutans Aqueous Extract. Frontiers in Pharmacology, 2021, 12, 629561.	1.6	3
1814	Interactive effects of aging and aerobic capacity on energy metabolismâ€“related metabolites of serum, skeletal muscle, and white adipose tissue. GeroScience, 2021, 43, 2679-2691.	2.1	8
1815	Comprehensive transcriptome and metabolome profiling reveal metabolic mechanisms of Nitraria sibirica Pall. to salt stress. Scientific Reports, 2021, 11, 12878.	1.6	30
1816	Histological and proteome analyses of Microbacterium foliorum-mediated decrease in arsenic toxicity in Melastoma malabathricum. 3 Biotech, 2021, 11, 336.	1.1	4
1817	Application of a comprehensive metabolomics approach for the selection of flaxseed varieties with the highest nutritional and medicinal attributes. Journal of Food and Drug Analysis, 2021, 29, .	0.9	2
1818	Pharmacological or genetic inhibition of iNOS prevents cachexiaâ€mediated muscle wasting and its associated metabolism defects. EMBO Molecular Medicine, 2021, 13, e13591.	3.3	9
1819	Microalgae as Sustainable Bio-Factories of Healthy Lipids: Evaluating Fatty Acid Content and Antioxidant Activity. Marine Drugs, 2021, 19, 357.	2.2	54
1820	A metabolic data-driven systems pharmacology strategy for decoding and validating the mechanism of Compound Kushen Injection against HCC. Journal of Ethnopharmacology, 2021, 274, 114043.	2.0	10
1823	Metabolic Responses of a Model Green Microalga Euglena gracilis to Different Environmental Stresses. Frontiers in Bioengineering and Biotechnology, 2021, 9, 662655.	2.0	20
1824	The role of gut microbial community and metabolomic shifts in adaptive resistance of Atlantic killifish (Fundulus heteroclitus) to polycyclic aromatic hydrocarbons. Science of the Total Environment, 2021, 776, 145955.	3.9	21
1825	Chronic Effect of a Cafeteria Diet and Intensity of Resistance Training on the Circulating Lysophospholipidome in Young Rats. Metabolites, 2021, 11, 471.	1.3	1
1826	Increased Epoxyeicosatrienoic Acids and Hydroxyeicosatetraenoic Acids After Treatment of Iodide Intake Adjustment and 1,25-Dihydroxy-Vitamin D3 Supplementation in High Iodide Intakeâ€“Induced Hypothyroid Offspring Rats. Frontiers in Physiology, 2021, 12, 669652.	1.3	2

#	Article	IF	Citations
1827	Metabonomics Study on the Infertility Treated With Zishen Yutai Pills Combined With In Vitro Fertilization-embryo Transfer. Frontiers in Pharmacology, 2021, 12, 686133.	1.6	9
1828	The Antiviral Molecule 5-Pyridoxolactone Identified Post BmNPV Infection of the Silkworm, Bombyx mori. International Journal of Molecular Sciences, 2021, 22, 7423.	1.8	4
1829	Identification of Indicators for Preterm Birth Using Retinoid Metabolites. Metabolites, 2021, 11, 443.	1.3	7
1830	Plasma Metabolites in Early Sepsis Identify Distinct Clusters Defined by Plasma Lipids. , 2021, 3, e0478.		10
1831	Inoculation of barley with Trichoderma harzianum T-22 modifies lipids and metabolites to improve salt tolerance. Journal of Experimental Botany, 2021, 72, 7229-7246.	2.4	13
1832	Individual variability in human urinary metabolites identifies ageâ€related, body mass indexâ€related, and sexâ€related biomarkers. Molecular Genetics & Genomic Medicine, 2021, 9, e1738.	0.6	5
1833	Statistical analysis in metabolic phenotyping. Nature Protocols, 2021, 16, 4299-4326.	5.5	40
1834	Untargeted fecal metabolome analysis in obese dogs after weight loss achieved by feeding a high-fiber-high-protein diet. Metabolomics, 2021, 17, 66.	1.4	8
1835	Metabolomics for personalized medicine: the input of analytical chemistry from biomarker discovery to point-of-care tests. Analytical and Bioanalytical Chemistry, 2022, 414, 759-789.	1.9	43
1836	Metabolite fingerprinting of oil palm (Elaeis guineensis Jacq.) root for the identification of altered metabolic pathways associated with basal stem rot (BSR) disease. Physiological and Molecular Plant Pathology, 2021, 115, 101647.	1.3	5
1837	Intratumour heterogeneity in microRNAs expression regulates glioblastoma metabolism. Scientific Reports, 2021, 11, 15908.	1.6	7
1838	Integrated lipidomic and transcriptomic analysis reveals clarithromycin-induced alteration of glycerophospholipid metabolism in the cerebral cortex of mice. Cell Biology and Toxicology, 2023, 39, 771-793.	2.4	2
1839	Systematic investigation of stereochemistry, stereoselective bioactivity, and antifungal mechanism of chiral triazole fungicide metconazole. Science of the Total Environment, 2021, 784, 147194.	3.9	12
1841	Four Weeks of Probiotic Supplementation Alters the Metabolic Perturbations Induced by Marathon Running: Insight from Metabolomics. Metabolites, 2021, 11, 535.	1.3	7
1842	Comparative metabolomics analysis reveals the metabolic regulation mechanism of yellow pigment overproduction by Monascus using ammonium chloride as a nitrogen source. Applied Microbiology and Biotechnology, 2021, 105, 6369-6379.	1.7	8
1843	A novel strategy for D-psicose and lipase co-production using a co-culture system of engineered Bacillus subtilis and Escherichia coli and bioprocess analysis using metabolomics. Bioresources and Bioprocessing, 2021, 8, .	2.0	1
1844	Cocultivation of Anaerobic Fungi with Rumen Bacteria Establishes an Antagonistic Relationship. MBio, 2021, 12, e0144221.	1.8	12
1845	A Multi-omics Longitudinal Study Reveals Alteration of the Leukocyte Activation Pathway in COVID-19 Patients. Journal of Proteome Research, 2021, 20, 4667-4680.	1.8	25

#	Article	IF	Citations
1846	Metabolomics profiling of valproic acid-induced symptoms resembling autism spectrum disorders using 1H NMR spectral analysis in rat model. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2022, 85, 1-13.	1.1	7
1847	Metabolic responses of plasma to extreme environments in overwintering Tibetan frogs Nanorana parkeri: a metabolome integrated analysis. Frontiers in Zoology, 2021, 18, 41.	0.9	11
1848	Metabolomic Biomarker Candidates for Skeletal Muscle Loss in the Collagen-Induced Arthritis (CIA) Model. Journal of Personalized Medicine, 2021, 11, 837.	1.1	5
1849	Combination of two analytical techniques improves wine classification by Vineyard, Region, and vintage. Food Chemistry, 2021, 354, 129531.	4.2	16
1850	Hydrogen sulfide stimulates lipid biogenesis from glutamine that is dependent on the mitochondrial NAD(P)H pool. Journal of Biological Chemistry, 2021, 297, 100950.	1.6	15
1851	Salmonella Typhimurium impairs glycolysis-mediated acidification of phagosomes to evade macrophage defense. PLoS Pathogens, 2021, 17, e1009943.	2.1	10
1852	Stress and Metabolomics for Prediction of Spontaneous Preterm Birth: A Prospective Nested Case-Control Study in a Tertiary Hospital. Frontiers in Pediatrics, 2021, 9, 670382.	0.9	4
1853	Untargeted metabolomics in primary murine bone marrow stromal cells reveals distinct profile throughout osteoblast differentiation. Metabolomics, 2021, 17, 86.	1.4	12
1854	Effect of preservation processing on quality attributes and phenolic profile of maqui (Aristotelia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.5	4
1855	Association between the nasopharyngeal microbiome and metabolome in patients with COVID-19. Synthetic and Systems Biotechnology, 2021, 6, 135-143.	1.8	46
1856	Metabolite Ratios as Quality Indicators for Pre-Analytical Variation in Serum and EDTA Plasma. Metabolites, 2021, 11, 638.	1.3	7
1857	Simple Esterification of [1-¹³C]-Alpha-Ketoglutarate Enhances Membrane Permeability and Allows for Noninvasive Tracing of Glutamate and Glutamine Production. ACS Chemical Biology, 2021, 16, 2144-2150.	1.6	6
1858	Identification of Morphine and Heroin-Treatment in Mice Using Metabonomics. Metabolites, 2021, 11, 607.	1.3	7
1859	Non-Targeted Screening Approaches for Profiling of Volatile Organic Compounds Based on Gas Chromatography-Ion Mobility Spectroscopy (GC-IMS) and Machine Learning. Molecules, 2021, 26, 5457.	1.7	30
1860	Metabolomic Response of the Creeping Wood Sorrel Oxalis corniculata to Low-Dose Radiation Exposure from Fukushimaâ€™s Contaminated Soil. Life, 2021, 11, 990.	1.1	6
1861	Integration of feeding behavior by the liver circadian clock reveals network dependency of metabolic rhythms. Science Advances, 2021, 7, eabi7828.	4.7	50
1862	The requirement for pyruvate dehydrogenase in leukemogenesis depends on cell lineage. Cell Metabolism, 2021, 33, 1777-1792.e8.	7.2	34
1863	Metabolomics approach provides new insights into the immunomodulatory discriminatory biomarkers of the herbs and roots of Echinacea species. Industrial Crops and Products, 2021, 168, 113611.	2.5	4

#	Article	IF	Citations
1864	MoS₂ Nanosheetsâ€“Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. ACS Nano, 2021, 15, 16344-16356.	7.3	28
1865	Application of Metabolomics to the Discovery of Biomarkers for Ischemic Stroke in the Murine Model: a Comparison with the Clinical Results. Molecular Neurobiology, 2021, 58, 6415-6426.	1.9	26
1866	Triacontanol attenuates drought-induced oxidative stress in Brassica juncea L. by regulating lignification genes, calcium metabolism and the antioxidant system. Plant Physiology and Biochemistry, 2021, 166, 985-998.	2.8	15
1867	Metabolomics and Inflammatory Mediator Profiling for the Differentiation of Life-Threatening and Non-Severe Appendicitis in the Pediatric Population. Metabolites, 2021, 11, 664.	1.3	1
1869	First trimester metabolomics 1H-NMR study of the urinary profile predicts gestational diabetes mellitus development in obese women. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 8275-8283.	0.7	7
1870	Terpenoid and lipid profiles vary in different Phytophthora cactorum â€“ strawberry interactions. Phytochemistry, 2021, 189, 112820.	1.4	5
1871	Metabolomics approach to study in vivo toxicity of graphene oxide nanosheets. Journal of Applied Toxicology, 2022, 42, 506-515.	1.4	6
1872	The binding of autotaxin to integrins mediates hyperhomocysteinemia-potentiated platelet activation and thrombosis in mice and humans. Blood Advances, 2022, 6, 46-61.	2.5	9
1873	Proteomics Reveals an Increase in the Abundance of Glycolytic and Ethanolic Fermentation Enzymes in Developing Sugarcane Culms During Sucrose Accumulation. Frontiers in Plant Science, 2021, 12, 716964.	1.7	4
1874	Distinct lipid metabolic dysregulation in asymptomatic COVID-19. IScience, 2021, 24, 102974.	1.9	28
1875	Analytical challenges and solutions for performing metabolomic analysis of root exudates. Trends in Environmental Analytical Chemistry, 2021, 31, e00130.	5.3	24
1876	Use of human PBMC to analyse the impact of obesity on lipid metabolism and metabolic status: a proof-of-concept pilot study. Scientific Reports, 2021, 11, 18329.	1.6	10
1877	Light Induced Changes in Pigment and Lipid Profiles of Bryopsidales Algae. Frontiers in Marine Science, 2021, 8, .	1.2	12
1878	The integration of MS-based metabolomics and multivariate data analysis allows for improved quality assessment of Zingiber officinale Roscoe. Phytochemistry, 2021, 190, 112843.	1.4	18
1879	Disrupted NOS2 metabolism drives myoblast response to wasting-associated cytokines. Experimental Cell Research, 2021, 407, 112779.	1.2	3
1880	Revealing sulfate role in empowering the sulfur-oxidizing capacity of Thioalkalivibrio versutus D301 for an enhanced desulfurization process. Bioresource Technology, 2021, 337, 125367.	4.8	9
1881	Metabolite profiles of energy cane and sugarcane reveal different strategies during the axillary bud outgrowth. Plant Physiology and Biochemistry, 2021, 167, 504-516.	2.8	4
1882	Resveratrol on the Metabolic Reprogramming in Liver: Implications for Advanced Atherosclerosis. Frontiers in Pharmacology, 2021, 12, 747625.	1.6	7

#	Article	IF	Citations
1883	Effects of ergotamine on the central nervous system using untargeted metabolomics analysis in a mouse model. Scientific Reports, 2021, 11, 19542.	1.6	2
1884	Chlortetracycline alters microbiota of gut or faeces in pigs and leads to accumulation and migration of antibiotic resistance genes. Science of the Total Environment, 2021, 796, 148976.	3.9	20
1885	Effect of postharvest methyl jasmonate and ethylene treatments on the biosynthesis of volatile compounds of hot pepper fruits. Scientia Horticulturae, 2021, 289, 110477.	1.7	8
1886	Sex-dependent effects on the gut microbiota and host metabolome in type 1 diabetic mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166266.	1.8	7
1887	Beneficial use of the aqueous phase generated during hydrothermal carbonization of algae as nutrient source for algae cultivation. Algal Research, 2021, 60, 102485.	2.4	19
1888	Metabonomics analysis of postharvest citrus response to Penicillium digitatum infection. LWT - Food Science and Technology, 2021, 152, 112371.	2.5	8
1889	Chronic ozone exposure preferentially modifies root rather than foliar metabolism of date palm (Phoenix dactylifera) saplings. Science of the Total Environment, 2022, 806, 150563.	3.9	8
1890	UPLC-ESI-MS/MS profiling of the underground parts of common Iris species in relation to their anti-virulence activities against Staphylococcus aureus. Journal of Ethnopharmacology, 2022, 282, 114658.	2.0	23
1891	Soil Solution Analysis With Untargeted GCâ€“MSâ€”A Case Study With Different Lysimeter Types. Frontiers in Earth Science, 2021, 8, .	0.8	4
1892	A Multi-Platform Metabolomics Approach Identifies Urinary Metabolite Signatures That Differentiate Ketotic From Healthy Dairy Cows. Frontiers in Veterinary Science, 2021, 8, 595983.	0.9	12
1893	Metabolomics-based analysis of miniature flask contents identifies tobacco mixture use among the ancient Maya. Scientific Reports, 2021, 11, 1590.	1.6	13
1894	Metabolic differences of two Ferula species as potential sources of galbanum: An NMRâ€based metabolomics study. Phytochemical Analysis, 2021, 32, 811-819.	1.2	7
1895	Enhanced Production of Aromatic Amino Acids in Tobacco Plants Leads to Increased Phenylpropanoid Metabolites and Tolerance to Stresses. Frontiers in Plant Science, 2020, 11, 604349.	1.7	35
1896	Non-invasive assessment of telomere maintenance mechanisms in brain tumors. Nature Communications, 2021, 12, 92.	5.8	21
1897	Multiomics Characterization of Preterm Birth in Low- and Middle-Income Countries. JAMA Network Open, 2020, 3, e2029655.	2.8	53
1899	Using MetaboAnalyst 4.0 for Metabolomics Data Analysis, Interpretation, and Integration with Other Omics Data. Methods in Molecular Biology, 2020, 2104, 337-360.	0.4	117
1900	NMR Metabolomics Protocols for Drug Discovery. Methods in Molecular Biology, 2019, 2037, 265-311.	0.4	16
1901	Skeletal Muscle Metabolomics for Metabolic Phenotyping and Biomarker Discovery. , 2019, , 193-217.		3

#	Article	IF	Citations
1902	Liver Transplantation Biomarkers in the Metabolomics Era. Biomarkers in Disease, 2017, , 99-128.	0.0	2
1903	Oral Secretions Affect HIPVs Induced by Generalist (Mythimna loreyi) and Specialist (Parnara guttata) Herbivores in Rice. Journal of Chemical Ecology, 2017, 43, 929-943.	0.9	21
1904	Chemosystematic implications based on metabolic profiling of the genus Byrsonima (Malpighiaceae). Folia Geobotanica, 2020, 55, 289-300.	0.4	2
1905	Tutorial on lipidomics. Analytica Chimica Acta, 2019, 1061, 28-41.	2.6	97
1906	Uncovering the antioxidant characteristics of black tea by coupling in vitro free radical scavenging assay with UHPLCâ€“HRMS analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1145, 122092.	1.2	18
1907	SSizer: Determining the Sample Sufficiency for Comparative Biological Study. Journal of Molecular Biology, 2020, 432, 3411-3421.	2.0	60
1908	Sex-dependent changes in the skin mucus metabolome of discus fish (Symphysodon haraldi) during biparental care. Journal of Proteomics, 2020, 221, 103784.	1.2	12
1909	Deep sexual dimorphism in adult medaka fish liver highlighted by multi-omic approach. Scientific Reports, 2016, 6, 32459.	1.6	43
1910	Systems analysis of metabolism in platelet concentrates during storage in platelet additive solution. Biochemical Journal, 2018, 475, 2225-2240.	1.7	20
1911	Identification of potential plasma biomarkers and metabolic dysfunction for unstable angina pectoris and its complication based on global metabolomics. Bioscience Reports, 2019, 39, .	1.1	4
1912	Irradiation of the kidneys causes pathologic remodeling in the nontargeted heart: A role for the immune system. FASEB BioAdvances, 2020, 2, 705-719.	1.3	12
1928	Neonatal Mouse Gut Metabolites Influence Cryptosporidium parvum Infection in Intestinal Epithelial Cells. MBio, 2020, 11, .	1.8	19
1929	Urine Haptoglobin and Haptoglobin-Related Protein Predict Response to Spironolactone in Patients With Resistant Hypertension. Hypertension, 2019, 73, 794-802.	1.3	6
1930	Fibroblast subtypes define a metastatic matrisome in breast cancer. JCI Insight, 2020, 5, .	2.3	23
1931	Periodontal-induced chronic inflammation triggers macrophage secretion of Ccl12 to inhibit fibroblast-mediated cardiac wound healing. JCI Insight, 2017, 2, .	2.3	55
1932	Microbial volatiles and their biotechnological applications. , 2016, , 239-256.		2
1933	Metabolomic Profiling of Plasma Samples from Women with Recurrent Spontaneous Abortion. Medical Science Monitor, 2018, 24, 4038-4045.	0.5	30
1934	Differential Metabolic Pathways and Metabolites in a C57BL/6J Mouse Model of Alcoholic Liver Disease. Medical Science Monitor, 2020, 26, e924602.	0.5	10

#	Article	IF	Citations
1935	BioHackathon 2015: Semantics of data for life sciences and reproducible research. F1000Research, 2020, 9, 136.	0.8	5
1936	Flux balance analysis predicts Warburg-like effects of mouse hepatocyte deficient in miR-122a. PLoS Computational Biology, 2017, 13, e1005618.	1.5	22
1937	GSimp: A Gibbs sampler based left-censored missing value imputation approach for metabolomics studies. PLoS Computational Biology, 2018, 14, e1005973.	1.5	92
1938	Effect of Insulin Resistance on Monounsaturated Fatty Acid Levels: A Multi-cohort Non-targeted Metabolomics and Mendelian Randomization Study. PLoS Genetics, 2016, 12, e1006379.	1.5	20
1939	Fine-tuning autophagy maximises lifespan and is associated with changes in mitochondrial gene expression in Drosophila. PLoS Genetics, 2020, 16, e1009083.	1.5	43
1940	Profiling of Intracellular Metabolites: An Approach to Understanding the Characteristic Physiology of Mycobacterium leprae. PLoS Neglected Tropical Diseases, 2016, 10, e0004881.	1.3	5
1941	Quantitative proteomic analysis of amastigotes from Leishmania (L.) amazonensis LV79 and PH8 strains reveals molecular traits associated with the virulence phenotype. PLoS Neglected Tropical Diseases, 2017, 11, e0006090.	1.3	22
1942	Metabolic Characterization of Advanced Liver Fibrosis in HCV Patients as Studied by Serum 1H-NMR Spectroscopy. PLoS ONE, 2016, 11, e0155094.	1.1	44
1943	Pro-Oxidant Role of Silibinin in DMBA/TPA Induced Skin Cancer: 1H NMR Metabolomic and Biochemical Study. PLoS ONE, 2016, 11, e0158955.	1.1	18
1944	A Lipidomics Approach in the Characterization of Zika-Infected Mosquito Cells: Potential Targets for Breaking the Transmission Cycle. PLoS ONE, 2016, 11, e0164377.	1.1	58
1945	Disease Type- and Status-Specific Alteration of CSF Metabolome Coordinated with Clinical Parameters in Inflammatory Demyelinating Diseases of CNS. PLoS ONE, 2016, 11, e0166277.	1.1	24
1946	Allelopatic Potential of Dittrichia viscosa (L.) W. Greuter Mediated by VOCs: A Physiological and Metabolomic Approach. PLoS ONE, 2017, 12, e0170161.	1.1	40
1947	Metabox: A Toolbox for Metabolomic Data Analysis, Interpretation and Integrative Exploration. PLoS ONE, 2017, 12, e0171046.	1.1	85
1948	Docosahexaenoic acid blocks progression of western diet-induced nonalcoholic steatohepatitis in obese Ldlr-/- mice. PLoS ONE, 2017, 12, e0173376.	1.1	45
1949	Temporal changes in sphingolipids and systemic insulin sensitivity during the transition from gestation to lactation. PLoS ONE, 2017, 12, e0176787.	1.1	36
1950	Brackish habitat dictates cultivable Actinobacterial diversity from marine sponges. PLoS ONE, 2017, 12, e0176968.	1.1	4
1951	RRmix: A method for simultaneous batch effect correction and analysis of metabolomics data in the absence of internal standards. PLoS ONE, 2017, 12, e0179530.	1.1	19
1952	Metabolomic profiling of CSF in multiple sclerosis and neuromyelitis optica spectrum disorder by nuclear magnetic resonance. PLoS ONE, 2017, 12, e0181758.	1.1	50

#	Article	IF	Citations
1953	Diagnosis of coinfection by schistosomiasis and viral hepatitis B or C using 1H NMR-based metabonomics. PLoS ONE, 2017, 12, e0182196.	1.1	32
1954	Potential serum biomarkers and metabonomic profiling of serum in ischemic stroke patients using UPLC/Q-TOF MS/MS. PLoS ONE, 2017, 12, e0189009.	1.1	44
1955	Metabolomic and inflammatory mediator based biomarker profiling as a potential novel method to aid pediatric appendicitis identification. PLoS ONE, 2018, 13, e0193563.	1.1	19
1956	Foliar nitrogen metabolism of adult Douglas-fir trees is affected by soil water availability and varies little among provenances. PLoS ONE, 2018, 13, e0194684.	1.1	9
1957	Metabolomics of primary cutaneous melanoma and matched adjacent extratumoral microenvironment. PLoS ONE, 2020, 15, e0240849.	1.1	14
1958	The Malaria Parasite's Lactate Transporter PfFNT Is the Target of Antiplasmodial Compounds Identified in Whole Cell Phenotypic Screens. PLoS Pathogens, 2017, 13, e1006180.	2.1	37
1959	Metabolic drift in the aging brain. Aging, 2016, 8, 1000-1020.	1.4	89
1960	Fat-specific Dicer deficiency accelerates aging and mitigates several effects of dietary restriction in mice. Aging, 2016, 8, 1201-1222.	1.4	47
1961	Mitophagy-driven mitochondrial rejuvenation regulates stem cell fate. Aging, 2016, 8, 1330-1352.	1.4	70
1962	Metabolomic signature associated with reproduction-regulated aging in Caenorhabditis elegans. Aging, 2017, 9, 447-474.	1.4	45
1963	GC-MS-based metabolomics approach to diagnose depression in hepatitis B virus-infected patients with middle or old age. Aging, 2018, 10, 2252-2265.	1.4	17
1964	Activation of the methylation cycle in cells reprogrammed into a stem cell-like state. Oncoscience, 2016, 2, 958-967.	0.9	30
1965	Prediction and diagnosis of renal cell carcinoma using nuclear magnetic resonance-based serum metabolomics and self-organizing maps. Oncotarget, 2016, 7, 59189-59198.	0.8	58
1966	Metabolomic analysis reveals altered metabolic pathways in a rat model of gastric carcinogenesis. Oncotarget, 2016, 7, 60053-60073.	0.8	36
1967	Differential metabonomic profiles of primary hepatocellular carcinoma tumors from alcoholic liver disease, HBV-infected, and HCV-infected cirrhotic patients. Oncotarget, 2017, 8, 53313-53325.	0.8	12
1968	Alpha-linolenic acid stabilizes HIF-1 Î± and downregulates FASN to promote mitochondrial apoptosis for mammary gland chemoprevention. Oncotarget, 2017, 8, 70049-70071.	0.8	73
1969	Metabolomic alterations in invasive ductal carcinoma of breast: A comprehensive metabolomic study using tissue and serum samples. Oncotarget, 2018, 9, 2678-2696.	0.8	48
1970	Metabolic profiles of triple-negative and luminal A breast cancer subtypes in African-American identify key metabolic differences. Oncotarget, 2018, 9, 11677-11690.	0.8	46

#	Article	IF	Citations
1971	Distinct urinary glycoprotein signatures in prostate cancer patients. Oncotarget, 2018, 9, 33077-33097.	0.8	33
1972	Pharmacometabolomics study identifies circulating spermidine and tryptophan as potential biomarkers associated with the complete pathological response to trastuzumab-paclitaxel neoadjuvant therapy in HER-2 positive breast cancer. Oncotarget, 2016, 7, 39809-39822.	0.8	72
1973	Germline BRCA1 mutation reprograms breast epithelial cell metabolism towards mitochondrial-dependent biosynthesis: evidence for metformin-based â€œstarvationâ€•strategies in BRCA1 carriers. Oncotarget, 2016, 7, 52974-52992.	0.8	26
1974	Time serial transcriptome reveals <i>Cyp2c29</i> as a key gene in hepatocellular carcinoma development. Cancer Biology and Medicine, 2020, 17, 401-417.	1.4	20
1975	Altered exosomal microRNA profiles in bronchoalveolar lavage fluid can mediate metabolism in patients with Acinetobacter baumannii ventilator-associated pneumonia. Annals of Translational Medicine, 2020, 8, 1561-1561.	0.7	2
1976	Urinary gas chromatography mass spectrometry metabolomics in asphyxiated newborns undergoing hypothermia: from the birth to the first month of life. Annals of Translational Medicine, 2016, 4, 417-417.	0.7	17
1977	Urinary Metabolomic Profiling Reveals Biological Pathways and Predictive Signatures Associated with Childhood Asthma . Journal of Asthma and Allergy, 2020, Volume 13, 713-724.	1.5	10
1978	Metabolomics analysis of mangosteen (Garcinia mangostana Linn.) fruit pericarp using different extraction methods and GC-MS. Plant OMICS, 2018, 11, 89-97.	0.4	11
1979	Serum-based metabolic alterations in patients with papillary thyroid carcinoma unveiled by non-targeted 1H-NMR metabolomics approach. Iranian Journal of Basic Medical Sciences, 2018, 21, 1140-1147.	1.0	12
1980	Revealing the Usefulness of Aroma Networks to Explain Wine Aroma Properties: A Case Study of Portuguese Wines. Molecules, 2020, 25, 272.	1.7	32
1981	Urinary metabolic insights into host-gut microbial interactions in healthy and IBD children. World Journal of Gastroenterology, 2017, 23, 3643.	1.4	38
1982	Dietary and metabolomic determinants of relapse in ulcerative colitis patients: A pilot prospective cohort study. World Journal of Gastroenterology, 2017, 23, 3890.	1.4	28
1983	¹H NMR-based serum metabolomics reveals erythromycin-induced liver toxicity in albino Wistar rats. Journal of Pharmacy and Bioallied Sciences, 2016, 8, 327.	0.2	19
1984	Proton nuclear magnetic resonance-based metabonomic models for non-invasive diagnosis of liver fibrosis in chronic hepatitis C: Optimizing the classification of intermediate fibrosis. World Journal of Hepatology, 2018, 10, 105-115.	0.8	6
1985	Analysis of metabolomic patterns in thoroughbreds before and after exercise. Asian-Australasian Journal of Animal Sciences, 2017, 30, 1633-1642.	2.4	21
1986	Plasmodium falciparum parasites deploy RhopH2 into the host erythrocyte to obtain nutrients, grow and replicate. ELife, 2017, 6, .	2.8	96
1987	Glycosylceramide modifies the flavor and metabolic characteristics of sake yeast. PeerJ, 2018, 6, e4768.	0.9	9
1988	Short and long-term effects of a synbiotic on clinical signs, the fecal microbiome, and metabolomic profiles in healthy research cats receiving clindamycin: a randomized, controlled trial. PeerJ, 2018, 6, e5130.	0.9	21

#	Article	IF	Citations
1989	Germination-Induced Changes in Flavoring Compound Profiles and Phytonutrient Contents in Scented Rice. Hang'uk Jakmul Hakhoe Chi, 2016, 61, 242-250.	0.2	2
1990	Liquid Chromatography-Mass Spectrometry for Clinical Metabolomics: An Overview. Advances in Experimental Medicine and Biology, 2021, 1336, 179-213.	0.8	3
1991	Pharmacometabolomics by NMR in Oncology: A Systematic Review. Pharmaceuticals, 2021, 14, 1015.	1.7	5
1992	Metabolomics Analysis of the Effect of GAT-2 Deficiency on Th1 Cells in Mice. Journal of Proteome Research, 2021, 20, 5054-5063.	1.8	2
1993	Florfenicol Enhances Colonization of a Salmonella enterica Serovar Enteritidis floR Mutant with Major Alterations to the Intestinal Microbiota and Metabolome in Neonatal Chickens. Applied and Environmental Microbiology, 2021, 87, e0168121.	1.4	12
1994	Evaluation of Metabolomic Profile and Growth of Moringa oleifera L. Cultivated with Vermicompost under Different Soil Types. Agronomy, 2021, 11, 2061.	1.3	3
1995	Dietary Concentrate Supplementation Alters Serum Metabolic Profiles Related to Energy and Amino Acid Metabolism in Grazing Simmental Heifers. Frontiers in Veterinary Science, 2021, 8, 743410.	0.9	1
1996	The Effect of a Host on the Primary Metabolic Profiling of Cuscuta Campestrisâ€™ Main Organs, Haustoria, Stem and Flower. Plants, 2021, 10, 2098.	1.6	7
1997	Insights on Single-Dose Espresso Coffee Capsulesâ€™ Volatile Profile: From Ground Powder Volatiles to Prediction of Espresso Brew Aroma Properties. Foods, 2021, 10, 2508.	1.9	13
1998	Restriction of Dietary Advanced Glycation End Products Induces a Differential Plasma Metabolome and Lipidome Profile. Molecular Nutrition and Food Research, 2021, 65, e2000499.	1.5	3
1999	An inÂvivo model of postinflammatory hyperpigmentation and erythema: clinical, colorimetric and molecular characteristics*. British Journal of Dermatology, 2022, 186, 508-519.	1.4	4
2000	Oncogenic Integration of Nucleotide Metabolism via Fatty Acid Synthase in Non-Hodgkin Lymphoma. Frontiers in Oncology, 2021, 11, 725137.	1.3	7
2001	The Perturbation Toxic Effect of Graphene on HepG2 Cell. , 2015, , .		0
2003	Dynamics of Intracellular Metabolites in <i>Mycobacterium leprae</i>. Japanese Journal of Leprosy, 2017, 86, 115-117.	0.3	0
2004	Nontargeted Brain Lipidomic Profiling Performed by UPLC-ESI-qToF-MS/MS. Neuromethods, 2017, , 75-90.	0.2	0
2026	Metabonomics. , 2019, , 147-181.		1
2027	Metabolic Plasticity of IDH1- Mutant Glioma Cell Lines Is Responsible for Low Sensitivity to Glutaminase Inhibition. SSRN Electronic Journal, 0, , .	0.4	1
2028	An Adjustable Protocol to Analyze Chemical Profiles of Non-sterile Rhizosphere Soil. Bio-protocol, 2019, 9, e3245.	0.2	0

#	Article	IF	Citations
2036	Metabolic disparities of different oxidative stressâ€˜inducing conditions in HTR8/SVneo cells. Molecular Medicine Reports, 2020, 21, 540-548.	1.1	1
2039	Late defoliation of â€˜Chardonnayâ€™ grapevine in subtropical highland climate. Bragantia, 2020, 79, 268-280.	1.3	3
2040	Serum metabolomic investigations of mulberry leaf powder supplementation in Chinese Erhualian pigs. Journal of Animal and Feed Sciences, 2020, 29, 132-142.	0.4	1
2041	Deciphering the Interregional and Interhemisphere Proteome of the Human Brain in the Context of the Human Proteome Project. Journal of Proteome Research, 2021, 20, 5280-5293.	1.8	14
2042	Bacterial cancer therapy in autochthonous colorectal cancer affects tumor growth and metabolic landscape. JCI Insight, 2021, 6, .	2.3	4
2043	Graphene oxide enhanced the endocrine disrupting effects of bisphenol A in adult male zebrafish: Integrated deep learning and metabolomics studies. Science of the Total Environment, 2022, 809, 151103.	3.9	8
2044	Aqueous metabolome of tissueâ€specific conditional Pten â€knockout mouse prostate cancer and TRAMP neuroendocrine carcinoma. Prostate, 2022, 82, 154-166.	1.2	2
2045	The E3 ligase COP1 promotes ERÎ± signaling and suppresses EMT in breast cancer. Oncogene, 2022, 41, 173-190.	2.6	8
2047	The Differential Metabolic Profiles Between Deltamethrin-Resistant and -Susceptible Strains ofAedes albopictus(Diptera: Culicidae) by 1H-NMR. Journal of Medical Entomology, 2021, 58, 1256-1263.	0.9	2
2048	Computational Approaches for Drug Target Identification. , 2020, , 163-185.		2
2049	Effects of Various Alpha-1 Antitrypsin Supplement Dosages on the Lung Microbiome and Metabolome. Lecture Notes in Computer Science, 2020, , 90-101.	1.0	0
2050	The Disruptive 4IR in the Life Sciences: Metabolomics. Lecture Notes in Electrical Engineering, 2020, , 227-256.	0.3	4
2053	Comparative metabolomics analysis revealed biomarkers and distinct flavonoid biosynthesis regulation in Chrysanthemum mongolicum and C. rhombifolium. Phytochemical Analysis, 2022, 33, 373-385.	1.2	8
2054	Metabolomics and Molecular Networking to Characterize the Chemical Space of Four Momordica Plant Species. Metabolites, 2021, 11, 763.	1.3	23
2055	Effect of cultivation media and temperature on metabolite profiles of three nematicidal Bacillus species. Nematology, 2021, -1, 1-17.	0.2	2
2060	Study of the differentially abundant proteins among Leishmania amazonensis, L. braziliensis, and L. infantum. PLoS ONE, 2020, 15, e0240612.	1.1	3
2064	Increase in post-reperfusion sensitivity to tissue plasminogen activator-mediated fibrinolysis during liver transplantation is associated with abnormal metabolic changes and increased blood product utilisation. Blood Transfusion, 2019, 17, 312-320.	0.3	5
2065	Effects on Rat Models of Alzheimer's Disease Through the Investigation of Serum Metabolic Features Using NMR Metabolomics. Avicenna Journal of Medical Biotechnology, 2018, 10, 83-92.	0.2	11

#	Article	IF	Citations
2066	Effect of ghrelin on serum metabolites in Alzheimer's disease model rats; a metabolomics studies based on 1H-NMR technique. Iranian Journal of Basic Medical Sciences, 2018, 21, 1245-1254.	1.0	5
2067	Effects of leaf extract on lipopolysaccharide -induced neuroinflammation in rats: A behavioral and H NMR-based metabolomics study. Avicenna Journal of Phytomedicine, 2019, 9, 164-186.	0.1	6
2068	Free amino acid profiling of gastric juice as a method for discovering potential biomarkers of early gastric cancer. International Journal of Clinical and Experimental Pathology, 2018, 11, 2323-2336.	0.5	3
2069	A Nuclear Magnetic Resonance-Based Metabolomic Study to Identify Metabolite Differences between Iranian Isolates of major and. Iranian Journal of Medical Sciences, 2021, 46, 43-51.	0.3	0
2070	Avian metabolomics. , 2022, , 49-63.		1
2071	Metabolome and transcriptome analysis predicts metabolism of violetâ€red color change in <scp>Lilium</scp> bulbs. Journal of the Science of Food and Agriculture, 2022, 102, 2903-2915.	1.7	7
2072	Chronic exposure to ammonia induces oxidative stress and enhanced glycolysis in lung of piglets. Environmental Toxicology, 2022, 37, 179-191.	2.1	8
2073	AgNPs seed priming accelerated germination speed and altered nutritional profile of Chinese cabbage. Science of the Total Environment, 2022, 808, 151896.	3.9	23
2074	Nitrogen-doped carbon dots alleviate the damage from tomato bacterial wilt syndrome: systemic acquired resistance activation and reactive oxygen species scavenging. Environmental Science: Nano, 2021, 8, 3806-3819.	2.2	12
2075	Comparative metabolomics reveals the cytotoxic and anti-inflammatory discriminatory chemical markers of raw and roasted colocynth fruit (Citrullus colocynthis L.). RSC Advances, 2021, 11, 37049-37062.	1.7	7
2076	Urinary Volatomic Expression Pattern: Paving the Way for Identification of Potential Candidate Biosignatures for Lung Cancer. Metabolites, 2022, 12, 36.	1.3	3
2077	Non-targeted metabolomic profiling of filamentous cyanobacteria Aphanizomenon flos-aquae exposed to a concentrated culture filtrate of Microcystis aeruginosa. Harmful Algae, 2022, 111, 102170.	2.2	8
2078	Application of a novel prioritisation strategy using non-target screening for evaluation of temporal trends (1969â€“2017) of contaminants of emerging concern (CECs) in archived lynx muscle tissue samples. Science of the Total Environment, 2022, 817, 153035.	3.9	2
2079	Impact of heat stress of varying severity on papaya (Carica papaya) leaves: Major changes in stress volatile signatures, but surprisingly small enhancements of total emissions. Environmental and Experimental Botany, 2022, 195, 104777.	2.0	9
2080	Multisegment Injectionâ€“Capillary Electrophoresisâ€“Mass Spectrometry: A Robust Platform for High Throughput Metabolite Profiling with Quality Assurance. New Developments in Mass Spectrometry, 2018, , 255-282.	0.2	0
2082	Metabolomic Profiles of the Creeping Wood Sorrel Oxalis corniculata in Radioactively Contaminated Fields in Fukushima: Dose-Dependent Changes in Key Metabolites. Life, 2022, 12, 115.	1.1	5
2083	Equilibration solution composition and extended exposure to equilibration phase affect embryo development and lipid profile of mouse oocytes. Reproductive BioMedicine Online, 2022, 44, 961-975.	1.1	3
2084	Gut dysbiosis is associated with acceleration of lupus nephritis. Scientific Reports, 2022, 12, 152.	1.6	17

#	Article	IF	Citations
2085	Updates and Original Case Studies Focused on the NMR-Linked Metabolomics Analysis of Human Oral Fluids Part I: Emerging Platforms and Perspectives. Applied Sciences (Switzerland), 2022, 12, 1235.	1.3	4
2086	Dietary guanidineacetic acid supplementation ameliorated meat quality and regulated muscle metabolism of broilers subjected to pre-slaughter transport stress by metabolomics analysis. Poultry Science, 2022, 101, 101739.	1.5	5
2087	Blood Metabolomic Phenotyping of Dry Cows Could Predict the High Milk Somatic Cells in Early Lactationâ€"Preliminary Results. Dairy, 2022, 3, 59-77.	0.7	3
2088	Metabolomics as a promising tool for improving understanding of multiple sclerosis: A review of recent advances. Biomedical Journal, 2022, 45, 594-606.	1.4	13
2091	Noninvasive and Point-of-Care Surface-Enhanced Raman Scattering (SERS)-Based Breathalyzer for Mass Screening of Coronavirus Disease 2019 (COVID-19) under 5 min. ACS Nano, 2022, 16, 2629-2639.	7.3	71
2092	PPARÎ± and PPARÎ³ activation is associated with pleural mesothelioma invasion but therapeutic inhibition is ineffective. IScience, 2022, 25, 103571.	1.9	7
2093	The plasma amino acid response to blended protein beverages: a randomised crossover trial. British Journal of Nutrition, 2022, 128, 1555-1564.	1.2	2
2094	The antimicrobial drug pyrimethamine inhibits STAT3 transcriptional activity by targeting the enzyme dihydrofolate reductase. Journal of Biological Chemistry, 2022, 298, 101531.	1.6	16
2095	Mass spectrometry and proteome analysis to identify SARS-CoV-2 protein from COVID-19 patient swab samples. STAR Protocols, 2022, 3, 101177.	0.5	4
2096	Theabrownin modulates the gut microbiome and serum metabolome in aging mice induced by D-galactose. Journal of Functional Foods, 2022, 89, 104941.	1.6	11
2097	Lipidomics revealed the global lipid responses of primary bovine alveolar macrophages to infections of Mycobacterium tuberculosis and Mycobacterium bovis. International Immunopharmacology, 2022, 104, 108407.	1.7	2
2098	Unravelling the Helianthus tuberosus L. (Jerusalem Artichoke, Kiku-Imo) Tuber Proteome by Label-Free Quantitative Proteomics. Molecules, 2022, 27, 1111.	1.7	5
2099	Defining the landscape of metabolic dysregulations in cancer metastasis. Clinical and Experimental Metastasis, 2022, 39, 345-362.	1.7	8
2100	Semi-automated NMR Pipeline for Environmental Exposures: New Insights on the Metabolomics of Smokers versus Non-smokers. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2021, 26, 316-327.	0.7	0
2101	Ameliorative effect of fluvoxamine against colon carcinogenesis via COX-2 blockade with oxidative and metabolic stress reduction at the cellular, molecular and metabolic levels. BBA Advances, 2022, 2, 100046.	0.7	2
2102	African Swine Fever Virus Regulates Host Energy and Amino Acid Metabolism To Promote Viral Replication. Journal of Virology, 2022, 96, JVI0191921.	1.5	28
2103	Sensory Properties and Main Differential Metabolites Influencing the Taste Quality of Dry-Cured Beef during Processing. Foods, 2022, 11, 531.	1.9	7
2104	Antibiotic-active heterotrophic Firmicutes sheltered in seaweeds: can they add new dimensions to future antimicrobial agents?. Archives of Microbiology, 2022, 204, 183.	1.0	2

#	Article	IF	Citations
2105	High-throughput glycolytic inhibitor discovery targeting glioblastoma by graphite dotsâ€“assisted LDI mass spectrometry. Science Advances, 2022, 8, eabl4923.	4.7	14
2106	Totoro: Identifying Active Reactions During the Transient State for Metabolic Perturbations. Frontiers in Genetics, 2022, 13, 815476.	1.1	0
2107	Metabolomics Deciphering the Potential Biomarkers of Hengqing I Prescription against Vascular Dementia. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-10.	0.5	1
2108	Burmese pythons exhibit a transient adaptation to nutrient overload that prevents liver damage. Journal of General Physiology, 2022, 154, .	0.9	4
2109	Plasma metabolomics reveals disrupted response and recovery following maximal exercise in myalgic encephalomyelitis/chronic fatigue syndrome. JCI Insight, 2022, 7, .	2.3	24
2110	Role of cellular retinolâ€binding protein, type 1 and retinoid homeostasis in the adult mouse heart: A multiâ€omic approach. FASEB Journal, 2022, 36, e22242.	0.2	3
2111	Cytosolic Sensing of Intracellular Staphylococcus aureus by Mast Cells Elicits a Type I IFN Response That Enhances Cell-Autonomous Immunity. Journal of Immunology, 2022, 208, 1675-1685.	0.4	3
2112	Analysis of the Formation of Sauce-Flavored Daqu Using Non-targeted Metabolomics. Frontiers in Microbiology, 2022, 13, 857966.	1.5	14
2113	Distinct metabolic profiling is correlated with bisexual flowers formation resulting from exogenous ethephon induction in melon (Cucumis melo L.). PeerJ, 2022, 10, e13088.	0.9	1
2114	Predictive metabolomics of multiple Atacama plant species unveils a core set of generic metabolites for extreme climate resilience. New Phytologist, 2022, 234, 1614-1628.	3.5	17
2115	Independent and Interactive Effects of Genetic Background and Sex on Tissue Metabolomes of Adipose, Skeletal Muscle, and Liver in Mice. Metabolites, 2022, 12, 337.	1.3	0
2116	Impacto del manejo in situ-ex situ del orÃ©gano mexicano (Lippia origanoides Kunth) en el noroeste de YucatÃ¡n. Botanical Sciences, 2022, 100, 610-630.	0.3	2
2117	A genome-scale gain-of-function CRISPR screen in CD8 TÂcells identifies proline metabolism as a means to enhance CAR-T therapy. Cell Metabolism, 2022, 34, 595-614.e14.	7.2	70
2118	Metabolomic analysis of Scenedesmus obliquus reveals new insights into the phytotoxicity of imidazolium nitrate ionic liquids. Science of the Total Environment, 2022, 825, 154070.	3.9	11
2119	Metabolomic characterization of 5 native Peruvian chili peppers (Capsicum spp.) as a tool for species discrimination. Food Chemistry, 2022, 386, 132704.	4.2	13
2121	Identification of traumatic acid as a potential plasma biomarker for sarcopenia using a metabolomicsâ€based approach. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 276-286.	2.9	9
2122	Metabolic Reprogramming of the Right Ventricle and Pulmonary Arteries in a Flow-Associated Pulmonary Arterial Hypertension Rat Model. ACS Omega, 2022, 7, 1273-1287.	1.6	8
2123	Significance of current weather conditions for foliar traits of old-growth sessile oak (Quercus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	1

#	Article	IF	Citations
2124	Lipidomics reveals the dysregulated ceramide metabolism in oxidized lowâ€density lipoproteinâ€induced macrophageâ€derived foam cell. Biomedical Chromatography, 2022, 36, e5297.	0.8	1
2125	Quantification of antibiotic resistance genes and mobile genetic in dairy manure. PeerJ, 2021, 9, e12408.	0.9	2
2126	Symbiont-Mediated Protection of Acromyrmex Leaf-Cutter Ants from the Entomopathogenic Fungus Metarhizium anisopliae. MBio, 2021, 12, e0188521.	1.8	12
2127	Metabolomic Profiling Identifies Exogenous and Microbiota-Derived Metabolites as Markers of Methotrexate Efficacy in Juvenile Idiopathic Arthritis. Frontiers in Pharmacology, 2021, 12, 768599.	1.6	3
2128	Guide to Metabolomics Analysis: A Bioinformatics Workflow. Metabolites, 2022, 12, 357.	1.3	58
2129	Untargeted Metabolomics Profiling of Bioactive Compounds under Varying Digestate Storage Conditions: Assessment of Antioxidant and Antifungal Activity. International Journal of Environmental Research and Public Health, 2022, 19, 4923.	1.2	1
2252	Improved plant heat shock resistance is introduced differently by heat and insect infestation: the role of volatile emission traits. Oecologia, 2022, 199, 53-68.	0.9	1
2255	Effects of Methylphenidate on the Dopamine Transporter and Beyond. Current Topics in Behavioral Neurosciences, 2022, , 127-157.	0.8	4
2256	Thyroid Hormone Receptor Isoforms Alpha and Beta Play Convergent Roles in Muscle Physiology and Metabolic Regulation. Metabolites, 2022, 12, 405.	1.3	8
2257	Assessment of periportal fibrosis in Schistosomiasis mansoni patients by proton nuclear magnetic resonance-based metabonomics models. World Journal of Hepatology, 2022, 14, 719-728.	0.8	1
2258	The Secreted Metabolome of Hela Cells under Effect of Crotamine, a Cell-Penetrating Peptide from a Rattlesnake Using NMR-Based Metabolomics Analyses. BioMed, 2022, 2, 238-254.	0.6	1
2259	Metabolomics Reveals the Effects of High Dietary Energy Density on the Metabolism of Transition Angus Cows. Animals, 2022, 12, 1147.	1.0	2
2260	Bacille Calmette-GuÃ©rin vaccine reprograms human neonatal lipid metabolism inÂvivo and inÂvitro. Cell Reports, 2022, 39, 110772.	2.9	13
2261	Metabolomics Analysis Across Multiple Biofluids Reveals the Metabolic Responses of Lactating Holstein Dairy Cows to Fermented Soybean Meal Replacement. Frontiers in Veterinary Science, 2022, 9, .	0.9	1
2262	Recent Trends of Microbiota-Based Microbial Metabolites Metabolism in Liver Disease. Frontiers in Medicine, 2022, 9, .	1.2	13
2263	Closed Testing with Globaltest, with Application in Metabolomics. Biometrics, 2023, 79, 1103-1113.	0.8	1
2264	Effects of tebuconazole application at different growth stages on rice grain quality of rice-based untargeted metabolomics. Chemosphere, 2022, 303, 134920.	4.2	5
2265	Identification of Potential Urinary Metabolite Biomarkers of Pseudomonas aeruginosa Ventilator-Associated Pneumonia. Biomarker Insights, 2022, 17, 117727192210991.	1.0	1

#	Article	IF	Citations
2266	Deciphering the Role of <i>Klf10</i> in the Cerebellum. Journal of Biomedical Science and Engineering, 2022, 15, 140-156.	0.2	0
2267	Rice exposure to silver nanoparticles in a life cycle study: effect of dose responses on grain metabolomic profile, yield, and soil bacteria. Environmental Science: Nano, 2022, 9, 2195-2206.	2.2	9
2269	Differentiating metabolomic responses of amphibians to multiple stressors. Science of the Total Environment, 2022, 838, 155666.	3.9	1
2270	Metabo L Omics Combined with Serum Pharmacochemistry Discovering the Potential Effective Compounds OfÂFangji HuangqiÂTangÂAgainstÂNephrotic Syndrome. SSRN Electronic Journal, 0, , .	0.4	0
2271	Metabolic Pathways for Observed Impacts of Crop Load on Floral Induction in Apple. International Journal of Molecular Sciences, 2022, 23, 6019.	1.8	3
2272	Plasma Metabolites Forecast Occurrence and Prognosis for Patients With Diffuse Large B-Cell Lymphoma. Frontiers in Oncology, 0, 12, .	1.3	3
2273	Nutrition Component Adjustment of Distilled Dried Grain with Solubles via Aspergillus niger and Its Change about Dynamic Physiological Metabolism. Fermentation, 2022, 8, 264.	1.4	5
2274	Alterations of Gut Microbiome and Metabolite Profiles Associated With Anabatic Lipid Dysmetabolism in Thyroid Cancer. Frontiers in Endocrinology, 2022, 13, .	1.5	15
2275	Nano-hydroxyapatite increased soil quality and boosted beneficial soil microbes. , 2022, 1, 100002.		4
2276	Metabolomic and proteomic characterisation of aged and packaged lamb loins with different colour stability. Journal of Food Composition and Analysis, 2022, 111, 104639.	1.9	5
2278	Metabolomics Analysis of PK-15 Cells with Pseudorabies Virus Infection Based on UHPLC-QE-MS. Viruses, 2022, 14, 1158.	1.5	2
2279	Metabolomics-based profiling for quality assessment and revealing the impact of drying of Turmeric (Curcuma longa L.). Scientific Reports, 2022, 12, .	1.6	14
2280	Using MetaboAnalyst 5.0 for LCâ€“HRMS spectra processing, multi-omics integration and covariate adjustment of global metabolomics data. Nature Protocols, 2022, 17, 1735-1761.	5.5	556
2281	The Metabolomic Characterization of Different Types of Coronary Atherosclerotic Heart Disease in Male. Cardiology Research and Practice, 2022, 2022, 1-10.	0.5	1
2282	Transcriptome-metabolome-wide association study (TMWAS) in rats revealed a potential carcinogenic effect of DEHP in thyroid associated with eicosanoids. Environmental Research, 2022, 214, 113805.	3.7	2
2283	The plant TOR kinase tunes autophagy and meristem activity for nutrient stress-induced developmental plasticity. Plant Cell, 2022, 34, 3814-3829.	3.1	14
2285	Understanding the mechanism of action of stress-acclimatized rhizospheric microbiome towards salinity stress mitigation in Vigna radiata: A focus on the emission of volatiles. Environmental and Experimental Botany, 2022, 201, 104988.	2.0	1
2286	Proteomic Analysis of Methanococcus voltae Grown in the Presence of Mineral and Nonmineral Sources of Iron and Sulfur. Microbiology Spectrum, 2022, 10, .	1.2	1

#	Article	IF	Citations
2287	GC-MS metabolites profiling of anethole-rich oils by different extraction techniques: antioxidant, cytotoxicity and in-silico enzymes inhibitory insights. Journal of Enzyme Inhibition and Medicinal Chemistry, 2022, 37, 1974-1986.	2.5	11
2288	Ischemia preconditioning induces an adaptive response that defines a circulating metabolomic signature in ischemic stroke patients. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 2201-2215.	2.4	2
2289	Time-dependent behaviour of methyl jasmonate elicited cell suspension cultures of Ocimum species via untargeted mass spectrometry-based metabolomics. Industrial Crops and Products, 2022, 187, 115414.	2.5	3
2290	Comprehensive Risk Assessment of Carbon Nanotubes Used for Agricultural Applications. ACS Nano, 2022, 16, 12061-12072.	7.3	10
2291	An urban diet differentially alters the gut microbiome and metabolomic profiles compared with a seed diet in mourning doves. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2022, 323, R385-R396.	0.9	0
2292	Elp3â€mediated codonâ€dependent translation promotes <scp>mTORC2</scp> activation and regulates macrophage polarization. EMBO Journal, 2022, 41, .	3.5	13
2293	Effects of variety and origin on the metabolic and texture characteristics of quinoa seeds based on ultrahigh-performance liquid chromatography coupled with high-field quadrupole-orbitrap high-resolution mass spectrometry. Food Research International, 2022, 162, 111693.	2.9	4
2294	Hepatic Metabolic Profiling of Lifelong Exercise Training Rats. Journal of Proteome Research, 2022, 21, 2075-2084.	1.8	1
2295	Yak rumen microbiome elevates fiber degradation ability and alters rumen fermentation pattern to increase feed efficiency. Animal Nutrition, 2022, 11, 201-214.	2.1	16
2296	Mass Spectrometry-Based Nontargeted and Targeted Analytical Approaches in Fingerprinting and Metabolomics of Food and Agricultural Research. Journal of Agricultural and Food Chemistry, 2022, 70, 11138-11153.	2.4	16
2297	Seasonal Variations in the Lipid Profile of the Ovarian Follicle in Italian Mediterranean Buffaloes. Animals, 2022, 12, 2108.	1.0	1
2298	Biochemical Changes in Two Barley Genotypes Inoculated With a Beneficial Fungus Trichoderma harzianum Rifai T-22 Grown in Saline Soil. Frontiers in Plant Science, 0, 13, .	1.7	4
2299	MicroRNA21 inhibition affects porcine oocyte maturation and alters protein expression critical for metabolic pathway function. Molecular Reproduction and Development, 0, , .	1.0	1
2301	Effects of WS2 Nanosheets on N2-fixing Cyanobacteria: ROS overproduction, cell membrane damage, and cell metabolic reprogramming. Science of the Total Environment, 2022, 849, 157706.	3.9	3
2302	Metabolomics driven analysis of Nigella sativa seeds identifies the impact of roasting on the chemical composition and immunomodulatory activity. Food Chemistry, 2023, 398, 133906.	4.2	11
2303	Predicting bioconcentration factor and estrogen receptor bioactivity of bisphenol a and its analogues in adult zebrafish by directed message passing neural networks. Environment International, 2022, 169, 107536.	4.8	8
2304	Integrative analysis of the mouse fecal microbiome and metabolome reveal dynamic phenotypes in the development of colorectal cancer. Frontiers in Microbiology, 0, 13, .	1.5	2
2305	ICP-MS based metallomics and GC-MS based metabolomics reveals the physiological and metabolic responses of Dendrobium huoshanense plants exposed to Fe3O4 nanoparticles. Frontiers in Nutrition, 0, 9, .	1.6	1

#	Article	IF	Citations
2306	Metabolomic analysis and ecofriendly enrichment of sunflower meal extract. Journal of the Science of Food and Agriculture, 2023, 103, 1161-1171.	1.7	2
2307	Metabolomic Characterization of the Antiproliferative Activity of Bioactive Compounds from Fruit By-Products Against Colon Cancer Cells. Methods in Molecular Biology, 2023, , 45-55.	0.4	0
2308	Choroid plexus-CSF-targeted antioxidant therapy protects the brain from toxicity of cancer chemotherapy. Neuron, 2022, 110, 3288-3301.e8.	3.8	11
2309	Comparative Metabolomics Analysis of Stigmas and Petals in Chinese Saffron (Crocus sativus) by Widely Targeted Metabolomics. Plants, 2022, 11, 2427.	1.6	2
2310	Meals, Microbiota and Mental Health in Children and Adolescents (MMM-Study): A protocol for an observational longitudinal case-control study. PLoS ONE, 2022, 17, e0273855.	1.1	1
2311	Physiological and Metabolic Responses of Gac Leaf (Momordica cochinchinensis (Lour.) Spreng.) to Salinity Stress. Plants, 2022, 11, 2447.	1.6	3
2312	Databases and Tools to Investigate Protein-Metabolite Interactions. Methods in Molecular Biology, 2023, , 231-249.	0.4	0
2313	Identification of compounds from chufa (Eleocharis dulcis) peels by widely targeted metabolomics. Food Science and Nutrition, 2023, 11, 545-554.	1.5	1
2314	Pharmacometabolomics reveals urinary diacetylspermine as a biomarker of doxorubicin effectiveness in triple negative breast cancer. Npj Precision Oncology, 2022, 6, .	2.3	2
2317	Trigonella foenum-graecum (fenugreek) differentially regulates antioxidant potential, photosynthetic, and metabolic activities under arsenic stress. Ecotoxicology and Environmental Safety, 2022, 246, 114128.	2.9	5
2318	Efficient lung-targeted delivery of risedronate sodium/vitamin D3 conjugated PAMAM-G5 dendrimers for managing osteoporosis: Pharmacodynamics, molecular pathways and metabolomics considerations. Life Sciences, 2022, 309, 121001.	2.0	5
2319	Utility of Comprehensive GCÃ—GC Gas Chromatography in Finding Varietal Markers among Volatile Compounds in Non-Aromatic Red Wines. Agronomy, 2022, 12, 2512.	1.3	4
2320	Integrated metabolomic and transcriptomic analyses of the synergistic effect of polymyxinâ€“rifampicin combination against Pseudomonas aeruginosa. Journal of Biomedical Science, 2022, 29, .	2.6	2
2321	Anxiolytic effect of YangshenDingzhi granules: Integrated network pharmacology and hippocampal metabolomics. Frontiers in Pharmacology, 0, 13, .	1.6	1
2322	A broadly conserved fungal alcohol oxidase (<scp>AOX</scp>) facilitates fungal invasion of plants. Molecular Plant Pathology, 2023, 24, 28-43.	2.0	2
2323	Fermentation of cv. Kalamata Natural Black Olives with Potential Multifunctional Yeast Starters. Foods, 2022, 11, 3106.	1.9	3
2324	Diversity of Volatile Aroma Compound Composition Produced by Non-Saccharomyces Yeasts in the Early Phase of Grape Must Fermentation. Foods, 2022, 11, 3088.	1.9	5
2325	Interplay between dietary intake, gut microbiota, and metabolic profile in obese adolescents: Sex-dependent differential patterns. Clinical Nutrition, 2022, 41, 2706-2719.	2.3	10

#	Article	IF	Citations
2326	PFOA-Induced Ovotoxicity Differs Between Lean and Obese Mice With Impacts on Ovarian Reproductive and DNA Damage Sensing and Repair Proteins. Toxicological Sciences, 2022, 190, 173-188.	1.4	6
2327	Sirtuin5 protects colorectal cancer from DNA damage by keeping nucleotide availability. Nature Communications, 2022, 13, .	5.8	17
2328	Magnesium Isoglycyrrhizinate Reduces the Target-Binding Amount of Cisplatin to Mitochondrial DNA and Renal Injury through SIRT3. International Journal of Molecular Sciences, 2022, 23, 13093.	1.8	0
2329	Toxic effects of triphenyltin on the silkworm Bombyx mori as a lepidopterous insect model. Ecotoxicology and Environmental Safety, 2022, 247, 114245.	2.9	6
2330	Exploring the Composition and Authenticity of Honey and Syrup Samples Using Quantitative NMR Spectroscopy and Principal Component Analysis in an Upper-Year Undergraduate Analytical Environmental Course. Journal of Chemical Education, 2023, 100, 161-169.	1.1	0
2331	PERM1 regulates energy metabolism in the heart via ERRÎ±/PGCâ^'1Î± axis. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	6
2332	RaMP-DB 2.0: a renovated knowledgebase for deriving biological and chemical insight from metabolites, proteins, and genes. Bioinformatics, 2023, 39, .	1.8	10
2333	Human Milk from Tandem Feeding Dyads Does Not Differ in Metabolite and Metataxonomic Features When Compared to Single Nursling Dyads under Six Months of Age. Metabolites, 2022, 12, 1069.	1.3	0
2334	Cutting-edge strategies and critical advancements in characterization and quantification of metabolites concerning translational metabolomics. Drug Metabolism Reviews, 2022, 54, 401-426.	1.5	0
2335	Cell-Based Metabolomics Approach for Anticipating and Investigating Cytotoxicity of Gold Nanorods. Foods, 2022, 11, 3569.	1.9	1
2336	Metabolomics combined with serum pharmacochemistry discovering the potential effective compounds of Fangji Huangqi Tang against nephrotic syndrome. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, , 123532.	1.2	1
2337	Early intraabdominal complications after laparoscopic appendectomy: the status quo and the prospects for prevention. Endoscopic Surgery, 2022, 28, 64.	0.0	0
2338	Pre-clinical Investigations of Therapeutic Markers Associated with Acute and Chronic Restraint Stress: A Nuclear Magnetic Resonance Based Contrast Metabolic Approach. Nanotheranostics, 2023, 7, 91-101.	2.7	2
2339	Mass spectrometry-based metabolomics for clinical study: Recent progresses and applications. TrAC - Trends in Analytical Chemistry, 2023, 158, 116896.	5.8	7
2340	Chronic ozone exposure impairs the mineral nutrition of date palm (Phoenix dactylifera) seedlings. Science of the Total Environment, 2023, 862, 160675.	3.9	1
2341	Urinary Metabolic Profiling of Liver Fluke-Induced Cholangiocarcinomaâ€"A Follow-Up Study. Journal of Clinical and Experimental Hepatology, 2022, , .	0.4	0
2342	The Effect of 10 Crop Plants That Served as Hosts on the Primary Metabolic Profile of the Parasitic Plant Phelipanche aegyptiaca. Metabolites, 2022, 12, 1195.	1.3	0
2343	Diagnostic metabolomic profiling of Parkinson's disease biospecimens. Neurobiology of Disease, 2023, 177, 105962.	2.1	6

#	Article	IF	Citations
2344	Deep Learning of Dual Plasma Fingerprints for Highâ€Performance Infection Classification. Small, 0, , 2206349.	5.2	1
2345	AgNPs-Triggered Seed Metabolic and Transcriptional Reprogramming Enhanced Rice Salt Tolerance and Blast Resistance. ACS Nano, 2023, 17, 492-504.	7.3	23
2346	Study on Flavonoids and Bioactivity Features of Pericarp of Citrus reticulata â€œChachiâ€•at Different Harvest Periods. Plants, 2022, 11, 3390.	1.6	4
2347	Integrated multi-omics of the gastrointestinal microbiome and ruminant host reveals metabolic adaptation underlying early life development. Microbiome, 2022, 10, .	4.9	4
2348	Taurine metabolism is modulated in Vibrio-infected Penaeus vannamei to shape shrimp antibacterial response and survival. Microbiome, 2022, 10, .	4.9	7
2349	Human cytomegalovirus induces neuronal enolase to support virally mediated metabolic remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	5
2350	Maternal Supplementation with a Cocoa Extract during Lactation Deeply Modulates Damsâ€™ Metabolism, Increases Adiponectin Circulating Levels and Improves the Inflammatory Profile in Obese Rat Offspring. Nutrients, 2022, 14, 5134.	1.7	0
2351	Evaluating a potential model to analyze the function of the gut microbiota of the giant panda. Frontiers in Microbiology, 0, 13, .	1.5	1
2352	Machine learning of plasma metabolome identifies biomarker panels for metabolic syndrome: findings from the China Suboptimal Health Cohort. Cardiovascular Diabetology, 2022, 21, .	2.7	8
2353	Metabolomic Analysis of Wooden Breast Myopathy Shows a Disturbed Lipid Metabolism. Metabolites, 2023, 13, 20.	1.3	1
2354	Metabolomics of Important Medicinal Plants. , 2022, , 285-317.		0
2355	A desiccated dual-species subaerial biofilm reprograms its metabolism and affects water dynamics in limestone. Science of the Total Environment, 2023, 868, 161666.	3.9	3
2356	<scp>COVID</scp>â€19 and nonâ€alcoholic fatty liver disease: Biological insights from multiâ€omics data. Liver International, 2023, 43, 580-587.	1.9	2
2357	Multi-Omics Data Analysis for Inflammation Disease Research: Correlation Analysis, Causal Analysis and Network Analysis. Translational Bioinformatics, 2023, , 101-118.	0.0	0
2358	The influence of light microclimate on the lipid profile and associated transcripts of photosynthetically active grape berry seeds. Frontiers in Plant Science, 0, 13, .	1.7	2
2359	Multiomics Approach Captures Hepatic Metabolic Network Altered by Chronic Ethanol Administration. Biology, 2023, 12, 28.	1.3	2
2360	Gas Chromatographyâ€“Mass Spectrometry (GCâ€“MS) Metabolites Analysis in Endometriosis Patients: A Prospective Observational Translational Study. Journal of Clinical Medicine, 2023, 12, 922.	1.0	3
2361	Trends in modern drug discovery and development: A glance in the present millennium. , 2023, , 27-38.		1

#	Article	IF	Citations
2362	Morphological and Physio-Chemical Responses to PEG-Induced Water Stress in Vanilla planifolia and V. pompona Hybrids. International Journal of Molecular Sciences, 2023, 24, 4690.	1.8	0
2363	Widely targeted metabolomics analysis reveals the differences of nonvolatile compounds of citronella before and after drying. Biomedical Chromatography, 0, , .	0.8	1
2364	Fetal lung hypoxia and energetic cell failure in the nitrofen-induced congenital diaphragmatic hernia rat model. Pediatric Surgery International, 2023, 39, .	0.6	2
2366	An evaluation of the growth and immunity of New Zealand black-footed abalone (Haliotis iris) treated with encapsulated feed and probiotics. Animal Feed Science and Technology, 2023, 299, 115639.	1.1	2
2367	Seasonal variations in the metabolomic profile of the ovarian follicle components in Italian Mediterranean Buffaloes. Theriogenology, 2023, 202, 42-50.	0.9	1
2368	ALASCA: An R package for longitudinal and cross-sectional analysis of multivariate data by ASCA-based methods. Frontiers in Molecular Biosciences, 0, 9, .	1.6	6
2369	How starter cultures affect the peptidomic profile and bioactive activities of the Asiago-PDO cheese throughout ripening. Food Research International, 2023, 167, 112743.	2.9	1
2370	Cycloguanil and Analogues Potently Target DHFR in Cancer Cells to Elicit Anti-Cancer Activity. Metabolites, 2023, 13, 151.	1.3	4
2371	Impact of different kernel grades on volatile compounds profile, fatty acids and oxidative quality of cashew nut oil. Food Research International, 2023, 165, 112526.	2.9	5
2372	Deciphering sperm functions using biological networks. Biotechnology and Genetic Engineering Reviews, 0, , 1-25.	2.4	0
2373	Integrative Proteomic and Pharmacological Analysis of Colon Cancer Reveals the Classical Lipogenic Pathway with Prognostic and Therapeutic Opportunities. Journal of Proteome Research, 2023, 22, 871-884.	1.8	4
2374	Untargeted metabolomics based on UHPLC-Q-Exactive-MS reveals metabolite and taste quality differences between Koshihikari rice from China and Japan. International Journal of Gastronomy and Food Science, 2023, 31, 100680.	1.3	3
2375	Metabolome-wide association study on physical activity. Scientific Reports, 2023, 13, .	1.6	1
2376	Salivary Metabolomic Analysis Reveals Amino Acid Metabolism Shift in SARS-CoV-2 Virus Activity and Post-Infection Condition. Metabolites, 2023, 13, 263.	1.3	3
2377	Metabolic imprint induced by seed halo-priming promotes a differential physiological performance in two contrasting quinoa ecotypes. Frontiers in Plant Science, 0, 13, .	1.7	1
2378	Harnessing the reverse cholesterol transport pathway to favor differentiation of monocyte-derived APCs and antitumor responses. Cell Death and Disease, 2023, 14, .	2.7	0
2379	Nuclear Magnetic Resonance-Based Metabolomics Approach Revealed the Intervention Effect of Using Complementary and Alternative Medicine (CAM) by CKD Patients. ACS Omega, 2023, 8, 7722-7737.	1.6	3
2381	Lipidomic profiling of rat hepatic stellate cells during activation reveals a two-stage process accompanied by increased levels of lysosomal lipids. Journal of Biological Chemistry, 2023, 299, 103042.	1.6	2

#	Article	IF	Citations
2382	Petroleum Hydrocarbon Catabolic Pathways as Targets for Metabolic Engineering Strategies for Enhanced Bioremediation of Crude-Oil-Contaminated Environments. Fermentation, 2023, 9, 196.	1.4	3
2383	Metabolomics-based response of Salmonella to desiccation stress and skimmed milk powder storage. Frontiers in Microbiology, 0, 14, .	1.5	0
2384	Alterations in the Cellular Metabolic Footprint Induced by Mayaro Virus. BioMed, 2023, 3, 152-165.	0.6	0
2385	Histone deacetylase inhibitors synergize with sildenafil to suppress purine metabolism and proliferation in pulmonary hypertension. Vascular Pharmacology, 2023, 149, 107157.	1.0	2
2386	Metabolomics approach to identify key volatile aromas in Thai colored rice cultivars. Frontiers in Plant Science, 0, 14, .	1.7	1
2388	Participants in the Trans-Antarctic Winter Traverse Expedition Showed Increased Bacterial Load and Diversity in Saliva but Maintained Individual Differences within Stool Microbiota and Across Metabolite Fingerprints. International Journal of Molecular Sciences, 2023, 24, 4850.	1.8	0
2389	Nanomaterial Size and Surface Modification Mediate Disease Resistance Activation in Cucumber (Cucumis sativus). ACS Nano, 2023, 17, 4871-4885.	7.3	8
2390	Effect of Methyl Jasmonate on the Biosynthesis of Volatile Compounds Associated with the Ripening of Grape Tomato Fruits. Journal of Agricultural and Food Chemistry, 2023, 71, 4696-4705.	2.4	4
2391	NMR-Based Metabolomics Demonstrates a Metabolic Change during Early Developmental Stages from Healthy Infants to Young Children. Metabolites, 2023, 13, 445.	1.3	1
2392	Integrative omics-analysis of lipid metabolism regulation by peroxisome proliferator-activated receptor a and b agonists in male Atlantic cod. Frontiers in Physiology, 0, 14, .	1.3	1
2393	Myoscaffolds reveal laminin scarring is detrimental for stem cell function while sarcospan induces compensatory fibrosis. Npj Regenerative Medicine, 2023, 8, .	2.5	5
2395	Targeted Lipidomics Analysis of Adipose and Skeletal Muscle Tissues by Multiple Reaction Monitoring Profiling. Methods in Molecular Biology, 2023, , 351-368.	0.4	0
2396	Lipidomic Profiling of PFOA-Exposed Mouse Liver by Multi-Modal Mass Spectrometry Analysis. Analytical Chemistry, 2023, 95, 6568-6576.	3.2	7
2397	limpca: An R package for the linear modeling of highâ€dimensional designed data based on ASCA/APCA family of methods. Journal of Chemometrics, 2023, 37, .	0.7	3
2398	A ketogenic diet alters mTOR activity, systemic metabolism and potentially prevents collagen degradation associated with chronic alcohol consumption in mice. Metabolomics, 2023, 19, .	1.4	1
2442	Bioinformatics study to unravel the role of rhizobiome to biologically control the pathogens in vegetables. , 2023, , 267-284.		0
2444	Rhizospheric microbiome: organization and bioinformatics studies. , 2023, , 127-141.		0
2486	Omics and Network-based Approaches in Understanding HD Pathogenesis. , 0, , .		0

#	Article	IF	Citations
2488	Lymphangiogenesis and Stem Cells in Hematological Malignancies. , 2024, , .		0