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**Metabolomics: Current analytical platforms and methodology**

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870	Novel biomarkers for pre-eclampsia detected using metabolomics and machine learning. <i>Metabolomics</i> , <b>2005</b> , 1, 227-234	4.7	95
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868	Rapid identification of closely related muscle foods by vibrational spectroscopy and machine learning. <b>2005</b> , 130, 1648-54		94
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308	Metabolomics on CMOS for Personalised Medicine. <b>2018</b> , 23-46		1
307	Chemometric Analysis of 1H NMR Fingerprints of Coffea arabica Green Bean Extracts Cultivated under Different Planting Densities. <b>2018</b> , 11, 1906-1914		10
306	Multivariate statistical analysis of metabolomics profiles in tissues of polar bears ( <i>Ursus maritimus</i> ) from the Southern and Western Hudson Bay subpopulations. <b>2018</b> , 41, 433-449		7
305	Combination of HPLC with organic and inorganic mass spectrometry to study the metabolic response of the clam <i>Scrobicularia plana</i> to arsenic exposure. <i>Electrophoresis</i> , <b>2018</b> , 39, 635-644	3.6	6
304	HPTLC, A Supplementary Tool for Metabolic Profiling and Metabolomics. <b>2018</b> , 59-59		
303	The growing role of precision and personalized medicine for cancer treatment. <b>2018</b> , 6, 79-100		103
302	Review of recent developments in GC-MS approaches to metabolomics-based research. <i>Metabolomics</i> , <b>2018</b> , 14, 152	4.7	185
301	Metabolomics of Arabidopsis Thaliana. <b>2018</b> , 157-180		0
300	Metabolomics: Integrating the Metabolome and the Proteome for Systems Biology. <b>2018</b> , 258-289		1
299	A robust intracellular metabolite extraction protocol for human neutrophil metabolic profiling. <b>2018</b> , 13, e0209270		7
298	Metabolomic Investigations on Revealed Significant Differences between Marine and Terrestrial Actinomycetes. <b>2018</b> , 16,		11

297	Evaluation of sample preparation methods for NMR-based metabolomics of cow milk. <i>Heliyon</i> , <b>2018</b> , 4, e00856	3.6	10
296	Prokaryotic Systems Biology. <b>2018</b> , 67-136		
295	Advances in Plant Metabolomics. <b>2018</b> , 557-588		2
294	Single-platform 'multi-omic' profiling: unified mass spectrometry and computational workflows for integrative proteomics-metabolomics analysis. <b>2018</b> , 14, 307-319		27
293	Post-treatment urinary sarcosine as a predictor of recurrent relapses in patients with prostate cancer. <b>2018</b> , 7, 5411-5419		2
292	Application of metabolomics to preeclampsia diagnosis. <b>2018</b> , 64, 324-339		22
291	Abiotic Stress and Metabolomics. <b>2018</b> , 61-85		12
290	Metabolomics in Plant Priming Research: The Way Forward?. <b>2018</b> , 19,		47
289	Characterizing the Spoilage of Egg Products using Targeted and Non-targeted Approaches. <b>2018</b> , 157-258		2
288	Metabolite changes behind faster growth and less reproduction of <i>Daphnia similis</i> exposed to low-dose silver nanoparticles. <b>2018</b> , 163, 266-273		29
287	Current Challenges in Plant Eco-Metabolomics. <b>2018</b> , 19,		63
286	Comparison of accuracy and precision between multipoint calibration, single point calibration, and relative quantification for targeted metabolomic analysis. <b>2018</b> , 410, 5899-5913		8
285	Discrimination and prediction of the origin of Chinese and Korean soybeans using Fourier transform infrared spectrometry (FT-IR) with multivariate statistical analysis. <b>2018</b> , 13, e0196315		22
284	Metabolomics and Metabolic Profiling: Investigation of Dynamic Plant-Environment Interactions at the Functional Level. <b>2018</b> , 323-345		0
283	Mobilising ion mobility mass spectrometry for metabolomics. <b>2018</b> , 143, 4783-4788		26
282	Opportunities for green microextractions in comprehensive two-dimensional gas chromatography / mass spectrometry-based metabolomics - A review. <b>2018</b> , 1040, 1-18		29
281	Ion-Pair Selection Method for Pseudotargeted Metabolomics Based on SWATH MS Acquisition and Its Application in Differential Metabolite Discovery of Type 2 Diabetes. <b>2018</b> , 90, 11401-11408		24
280	Untargeted metabolomics for plasma biomarker discovery for early chronic kidney disease diagnosis in pediatric patients using LC-QTOF-MS. <b>2018</b> , 143, 4448-4458		7

279	Metabolomics studies on corticosterone-induced PC12 cells: A strategy for evaluating an in vitro depression model and revealing the metabolic regulation mechanism. <b>2018</b> , 69, 27-38		15
278	Metabolomics of Seaweeds: Tools and Techniques. <b>2018</b> , 37-52		13
277	LCMS-Based Metabolomics in the Study of Drug-Induced Liver Injury. <b>2019</b> , 5, 56-67		6
276	Omics Methods For the Detection of Foodborne Pathogens. <b>2019</b> , 364-370		3
275	Plasma metabolomic patterns in patients with exhaustion disorder. <b>2019</b> , 22, 17-26		6
274	Recent advances and prospects of computational methods for metabolite identification: a review with emphasis on machine learning approaches. <b>2019</b> , 20, 2028-2043		35
273	A comparative study of intratracheal and aerosolization instillations of bleomycin inducing experimental lung fibrosis in rat. <b>2019</b> , 29, 75-85		2
272	Metabolomic and glycomic findings in posttraumatic stress disorder. <b>2019</b> , 88, 181-193		23
271	Metabolite Transformation and Enzyme Activities of Hainan Vanilla Beans During Curing to Improve Flavor Formation. <i>Molecules</i> , <b>2019</b> , 24,	4.8	2
270	Creating Products and Services in Plant Biotechnology. <b>2019</b> , 19-52		2
269	Databases: A Weapon from the Arsenal of Bioinformatics for Plant Abiotic Stress Research. <b>2019</b> , 135-169		14
268	Determination of online quenching efficiency for an automated cellular microfluidic metabolomic platform using mass spectrometry based ATP degradation analysis. <b>2019</b> , 411, 6399-6407		6
267	Emerging molecular techniques for studying microbial community composition and function in microbiologically influenced corrosion. <b>2019</b> , 144, 104722		6
266	Differential metabolic responses of shrubs and grasses to water additions in arid karst region, southwestern China. <b>2019</b> , 9, 9613		5
265	Proteomics and Metabolomics. <b>2019</b> , 535-547		1
264	Use of NMR applications to tackle future food fraud issues. <b>2019</b> , 91, 347-353		46
263	Metabolome of Exosomes: Focus on Vesicles Released by Cancer Cells and Present in Human Body Fluids. <b>2019</b> , 20,		41
262	Omics approaches for microalgal applications: Prospects and challenges. <b>2019</b> , 291, 121890		48

261	Non-targeted Screening in Environmental Monitoring Programs. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1140, 731-741	3.6	1
260	Metabolomics for rice quality and traceability: feasibility and future aspects. <b>2019</b> , 28, 58-66		4
259	Methods of Metabolite Identification Using MS/MS Data. <b>2019</b> , 1-7		3
258	Antibacterial mechanism of <i>Tetrastigma hemsleyanum</i> Diels et Gilg's polysaccharides by metabolomics based on HPLC/MS. <b>2019</b> , 140, 206-215		18
257	Different forms of nitrogen application affect metabolite patterns in grapevine leaves and the sensory of wine. <b>2019</b> , 143, 308-319		4
256	Database-Assisted Globally Optimized Targeted Mass Spectrometry (dGOT-MS): Broad and Reliable Metabolomics Analysis with Enhanced Identification. <b>2019</b> , 91, 13737-13745		29
255	Omics technology to study bioremediation and respective enzymes. <b>2019</b> , 23-43		12
254	Spectroscopic approaches for rapid beer and wine analysis. <b>2019</b> , 28, 67-73		10
253	Proteomics and metabolomics research in exercise and sport. <b>2019</b> , 539-566		2
252	Phytochemical and bioactivity alterations of <i>Curcuma</i> species harvested at different growth stages by NMR-based metabolomics. <b>2019</b> , 77, 66-76		7
251	Fungal Endophytes from Medicinal Plants as a Potential Source of Bioactive Secondary Metabolites and Volatile Organic Compounds: An Overview. <b>2019</b> , 527-537		1
250	A graphical data processing pipeline for mass spectrometry imaging-based spatially resolved metabolomics on tumor heterogeneity. <b>2019</b> , 1077, 183-190		16
249	Mortality, growth and metabolic responses by H-NMR-based metabolomics of earthworms to sodium selenite exposure in soils. <b>2019</b> , 181, 69-77		12
248	Advanced Gene Technology and Synthetic Biology Approaches to Custom Design Microalgae for Biodiesel Production. <b>2019</b> , 147-175		2
247	Advances in Chemical and Biological Methods to Identify Microorganisms-From Past to Present. <b>2019</b> , 7,		107
246	Antioxidant activity changes of exopolysaccharides with different carbon sources from <i>Lactobacillus plantarum</i> LPC-1 and its metabolomic analysis. <b>2019</b> , 35, 68		15
245	Metabolomics-Based Approach for the Discrimination of Potato Varieties ( <i>Solanum tuberosum</i> ) using UPLC-IMS-QToF. <b>2019</b> , 67, 5700-5709		14
244	Fungal Endophytes from Medicinal Plants as a Potential Source of Bioactive Secondary Metabolites and Volatile Organic Compounds: An Overview. <b>2019</b> , 1-11		

243	Co-culturing of oleaginous microalgae and yeast: paradigm shift towards enhanced lipid productivity. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 16952-16973	5.1	33
242	HILIC-Enabled C Metabolomics Strategies: Comparing Quantitative Precision and Spectral Accuracy of QTOF High- and QQQ Low-Resolution Mass Spectrometry. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	22
241	Applications of Omics Technologies to Study Gut Health in Poultry. <b>2019</b> , 211-234		0
240	NMR for metabolomics studies of <i>Crataegus rhipidophylla</i> Gand. <b>2019</b> , 411, 2149-2159		8
239	Targeted UPLC-MS/MS high-throughput metabolomics approach to assess the purine and pyrimidine metabolism. <b>2019</b> , 1113, 98-106		13
238	H NMR-based metabolomic revealed protective effect of Moutan Cortex charcoal on blood-heat and hemorrhage rats. <b>2019</b> , 169, 151-158		7
237	Introducing Metabolomics. <b>2019</b> , 1-56		1
236	Ecological Metabolomics: Challenges and Perspectives. <b>2019</b> , 293-378		
235	Disordered Metabolic Profiling in Plasma and Tissues of Mice Infected with Artemisinin-Sensitive and -Resistant <i>Plasmodium berghei</i> K173 Determined by H NMR Spectroscopy. <b>2019</b> , 18, 1970-1993		0
234	Rapid discrimination of fungal strains isolated from human skin based on microbial volatile organic profiles. <b>2019</b> , 1110-1111, 9-14		5
233	Evaluation of Sample Preparation Methods for the Analysis of Reef-Building Corals Using <sup>1</sup> H-NMR-Based Metabolomics. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	6
232	Nuclear Magnetic Resonance as Analytical Tool for Crude Plant Extracts. <b>2019</b> , 1-38		
231	Optimization and validation of a DHS-TD-GC-MS method to wineomics studies. <b>2019</b> , 192, 301-307		11
230	Volatolomics: A broad area of experimentation. <b>2019</b> , 1105, 136-147		19
229	Comprehensive metabolomic and proteomic analysis in biochemical metabolic pathways of rice spikes under drought and submergence stress. <b>2019</b> , 1867, 237-247		21
228	Quantitative Profiling of Endogenous Metabolites Using Hydrophilic Interaction Liquid Chromatography-Tandem Mass Spectrometry (HILIC-MS/MS). <b>2019</b> , 1859, 185-207		4
227	An integrated serum and urinary metabolomic research of <i>Rhizoma Curcumae</i> - <i>Rhizoma Sparganii</i> drug pair in hysteromyoma rats based on UPLC-Q-TOF-MS analysis. <b>2019</b> , 231, 374-385		14
226	Non-destructive and rapid interrogation of biochemical response of the leaves of wheat seedlings towards Al <sub>2</sub> O <sub>3</sub> nanoparticles stress using attenuated total reflectance Fourier transform infrared spectroscopy. <b>2019</b> , 100, 142-151		3

225	Serum metabolomics analysis of patients with polycystic ovary syndrome by mass spectrometry. <b>2019</b> , 86, 292-297	12
224	GC-MS-Based Metabolic Phenotyping. <b>2019</b> , 137-169	0
223	Functional Microbial Diversity in Contaminated Environment and Application in Bioremediation. <b>2019</b> , 359-385	19
222	MetSigDis: a manually curated resource for the metabolic signatures of diseases. <b>2019</b> , 20, 203-209	82
221	Environmental stress evaluation of <i>Coffea arabica</i> L. leaves from spectrophotometric fingerprints by PCA and OSCPLSDA. <b>2019</b> , 12, 4251-4257	8
220	A Proteomics and other Omics approach in the context of farmed fish welfare and biomarker discovery. <b>2020</b> , 12, 122-144	18
219	Metabolomics and fish nutrition: a review in the context of sustainable feed development. <b>2020</b> , 12, 261-282	40
218	Protective Effect of Tunisian Flaxseed Oil against Bleomycin-Induced Pulmonary Fibrosis in Rats. <b>2020</b> , 72, 226-238	4
217	Lipid metabolism disorders contribute to hepatotoxicity of triclosan in mice. <b>2020</b> , 384, 121310	22
216	An NMR based panorama of the heterogeneous biology of acute respiratory distress syndrome (ARDS) from the standpoint of metabolic biomarkers. <b>2020</b> , 33, e4192	5
215	Sample preparation in global metabolomics of biological fluids and tissues. <b>2020</b> , 53-83	3
214	Mass spectrometry metabolomic data handling for biomarker discovery. <b>2020</b> , 369-388	1
213	New Technologies in Pre- and Postnatal Diagnosis. <b>2020</b> , 941-969	
212	In depth natural product discovery - Myxobacterial strains that provided multiple secondary metabolites. <b>2020</b> , 39, 107480	25
211	Metabolome response to anthropogenic contamination on microalgae: a review. <i>Metabolomics</i> , <b>2019</b> , 16, 8	4-7 9
210	Characterization of $\alpha$ -glucosidase inhibitory activity of <i>Tetracera scandens</i> leaves by Fourier transform infrared spectroscopy-based metabolomics. <b>2020</b> , 20, 169-180	2
209	A deep learning architecture for metabolic pathway prediction. <b>2020</b> , 36, 2547-2553	25
208	Database of free solution mobilities for 276 metabolites. <b>2020</b> , 209, 120545	3

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206	Insight into the Characteristics and New Mechanism of Nicosulfuron Biodegradation by a sp. LAM1902. <b>2020</b> , 68, 826-837		12
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204	The progressive alteration of urine metabolomic profiles of rats following long-term and low-dose exposure to permethrin. <b>2020</b> , 25, 94-99		4
203	UHPLC-MS/MS-Based Nontargeted Metabolomics Analysis Reveals Biomarkers Related to the Freshness of Chilled Chicken. <b>2020</b> , 9,		7
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200	Multi-omics tools for studying microbial biofilms: current perspectives and future directions. <b>2020</b> , 46, 759-778		12
199	Streamlining the Analysis of Dynamic C-Labeling Patterns for the Metabolic Engineering of as l-Histidine Production Host. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	2
198	The main effects of elevated CO and soil-water deficiency on H NMR-based metabolic fingerprints of Coffea arabica beans by factorial and mixture design. <b>2020</b> , 749, 142350		5
197	Identification of metabolic markers in patients with type 2 Diabetes by Ultrafast gas chromatography coupled to electronic nose. A pilot study. <b>2020</b> , 34, e4956		6
196	Metabolomics reveal circadian control of cellular metabolism. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 130, 115986	14.6	4
195	<sup>1</sup> H NMR-based metabonomics for infertility diagnosis in men with varicocele. <b>2020</b> , 37, 2233-2247		6
194	Metabolomics applied in the study of emerging arboviruses caused by Aedes aegypti mosquitoes: A review. <i>Electrophoresis</i> , <b>2020</b> , 41, 2102	3.6	4
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192	Metabolomics in Radiation Biodosimetry: Current Approaches and Advances. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	9
191	. <b>2020</b> , 8, 209964-210005		0
190	Role of Mass Spectrometry in Modern Herbal Drug Research. <b>2020</b> , 1		

189	Predicting Metabolite-Disease Associations Based on Spy Strategy and ABC Algorithm. <b>2020</b> , 7, 603121		1
188	Development and Validation of a Serum Metabolomic Signature for Endometrial Cancer Screening in Postmenopausal Women. <b>2020</b> , 3, e2018327		12
187	Application of in vivo solid phase microextraction (SPME) in capturing metabolome of apple ( <i>Malus domestica</i> Borkh.) fruit. <b>2020</b> , 10, 6724		22
186	A targeted neurotransmitter quantification and nontargeted metabolic profiling method for pharmacometabolomics analysis of olanzapine by using UPLC-HRMS.. <b>2020</b> , 10, 18305-18314		2
185	Virgin olive oil metabolomics: A review. <b>2020</b> , 1150, 122161		16
184	Metabolomics in plant protection product research and development. <b>2020</b> , 163-194		
183	Maternal plasma metabolic markers of neonatal adiposity and associated maternal characteristics: The GUSTO study. <b>2020</b> , 10, 9422		2
182	Early-life exposure to widespread environmental toxicants and maternal-fetal health risk: A focus on metabolomic biomarkers. <b>2020</b> , 739, 139626		11
181	Harmonization of quality metrics and power calculation in multi-omic studies. <b>2020</b> , 11, 3092		12
180	Metabolomics in endometrial cancer diagnosis: A systematic review. <b>2020</b> , 99, 1135-1146		18
179	Plasma Metabolomics and Lipidomics Reveal Perturbed Metabolites in Different Disease Stages of Chronic Obstructive Pulmonary Disease. <b>2020</b> , 15, 553-565		6
178	Biostimulant Mode of Action. <b>2020</b> , 245-259		0
177	The rise of the nanomaterial metabolite corona, and emergence of the complete corona. <b>2020</b> , 7, 1041-1060		24
176	Investigation of α-Glucosidase Inhibitory Metabolites from Leaves by GC-MS Metabolite Profiling and Docking Studies. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	5
175	Metabolomics describes previously unknown toxicity mechanisms of isoniazid and rifampicin. <b>2020</b> , 322, 104-110		17
174	The accumulation profiles of terpene metabolites in three Muscat table grape cultivars through HS-SPME-GCMS. <b>2020</b> , 7, 5		5
173	General Guidelines for Sample Preparation Strategies in HR-μMAS NMR-based Metabolomics of Microscopic Specimens. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	8
172	Comprehensive Metabolomic and Lipidomic Analysis Reveals Metabolic Changes After Mindfulness Training. <b>2020</b> , 11, 1390-1400		1



171	Urinary Amine and Organic Acid Metabolites Evaluated as Markers for Childhood Aggression: The ACTION Biomarker Study. <b>2020</b> , 11, 165	6
170	Gas Chromatography-Mass Spectrometry-Based Metabolite Profiling for the Assessment of Freshness in Gilthead Sea Bream (). <b>2020</b> , 9,	6
169	Alteration of metabolic profiles in Lemna paucicostata culture and enhanced production of GABA and ferulic acid by ethephon treatment. <b>2020</b> , 15, e0231652	1
168	Plasma metabolomic profiling of healthy pregnant mares and mares with experimentally induced placentitis. <b>2021</b> , 53, 85-93	0
167	Metabolomics of medicinal and aromatic plants: Goldmines of secondary metabolites for herbal medicine research. <b>2021</b> , 261-287	0
166	Freeze tolerance and the underlying metabolite responses in the Xizang plateau frog, Nanorana parkeri. <b>2021</b> , 191, 173-184	5
165	An ion-pair free LC-MS/MS method for quantitative metabolite profiling of microbial bioproduction systems. <b>2021</b> , 222, 121625	5
164	Recurrent Topics in Mass Spectrometry-Based Metabolomics and Lipidomics-Standardization, Coverage, and Throughput. <b>2021</b> , 93, 519-545	31
163	Application of Omics Technologies in Crop Breeding. <b>2021</b> , 25-45	
162	Substrate Characterization in the Anaerobic Digestion Process. <b>2021</b> , 307-342	
161	A Protocol for Untargeted Metabolomic Analysis: From Sample Preparation to Data Processing. <b>2021</b> , 2276, 357-382	
160	Chapter 1:State-of-the-art in LCMS Approaches for Probing the Polar Metabolome. <b>2021</b> , 1-26	1
159	From Metabolite to Metabolome: Metabolomics Applications in Research. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 626183	5-7 3
158	Large-scale molecular profiling approaches facilitating translational medicine: genomics, transcriptomics, proteomics, and metabolomics. <b>2021</b> , 699-718	
157	Novel LC-MS Workflows for Improved Lipid Identification and Quantification. <b>2021</b> , 197-207	
156	A Review on the Health Effects of Pesticides Based on Host Gut Microbiome and Metabolomics. <b>2021</b> , 8, 632955	5
155	Translating insights from the seed metabolome into improved prediction for lipid-composition traits in oat ( <i>Avena sativa</i> L.). <b>2021</b> , 217,	7
154	A review of fruit juice authenticity assessments: Targeted and untargeted analyses. <b>2021</b> , 1-22	4

153	Database-assisted global metabolomics profiling of pleural effusion induced by tuberculosis and malignancy. <b>2021</b> ,		1
152	Predicting Metabolite-Disease Associations Based on LightGBM Model. <b>2021</b> , 12, 660275		0
151	Metabolomics, a Powerful Tool for Understanding Plant Abiotic Stress. <b>2021</b> , 11, 824		9
150	Metabolomic and lipidomic characterization of an X-chromosome deletion disorder in neural progenitor cells by UHPLC-HRMS. <b>2021</b> , 20, 11-24		2
149	M. tuberculosis curli pili (MTP) is associated with alterations in carbon, fatty acid and amino acid metabolism in a THP-1 macrophage infection model. <b>2021</b> , 154, 104806		0
148	Metabolomics and lipid profile analysis of <i>Coccomyxa melkonianii</i> SCCA 048. <b>2021</b> , 25, 357-368		2
147	Metabolomic analysis of <i>Schoenoplectus juncooides</i> reveals common markers of acetolactate synthase inhibition among paddy weeds. <b>2021</b> , 174, 104827		
146	From sample preparation to NMR-based metabolic profiling in food commodities: The case of table olives. <b>2021</b> ,		1
145	Comparative Analysis of Flavonoid Metabolites in Foxtail Millet () with Different Eating Quality. <b>2021</b> , 11,		2
144	Metabolomics in Prenatal Medicine: A Review. <b>2021</b> , 8, 645118		1
143	Strategy for Nontargeted Metabolomic Annotation and Quantitation Using a High-Resolution Spectral-Stitching Nano-electrospray Direct-Infusion Mass Spectrometry with Data-Independent Acquisition. <b>2021</b> , 93, 10528-10537		2
142	Metabolomic Approaches to Studying the Response to Drought Stress in Corn () Cobs. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	2
141	Metabolic Phenotypes in Asthmatic Adults: Relationship with Inflammatory and Clinical Phenotypes and Prognostic Implications. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	3
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139	Current analytical technologies and bioinformatic resources for plant metabolomics data. <b>2021</b> , 15, 561-572		2
138	CFM-ID 4.0: More Accurate ESI-MS/MS Spectral Prediction and Compound Identification. <b>2021</b> , 93, 11692-11700		1
137	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by SeITE01. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 711000	5.7	1
136	Breath Biomarkers in Diagnostic Applications. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6

135	Hypergraph-based Logistic Matrix Factorization for Metabolite-disease Interaction Prediction. <b>2021</b>	3
134	Salivary metabolomics: A diagnostic and biologic signature for oral cancer. <b>2021</b> , 33, 546-554	2
133	Systematic Evaluation of Liquid Chromatography (LC) Column Combinations for Application in Two-Dimensional LC Metabolomic Studies. <b>2021</b> , 93, 12565-12573	0
132	Unraveling metabolic alterations in <i>Chlorella vulgaris</i> cultivated on renewable sugars using time resolved multi-omics. <b>2021</b> , 800, 149504	2
131	Novel sampling strategy for alive animal volatolome extraction combined with GC-MS based untargeted metabolomics: Identifying mouse pup pheromones. <b>2021</b> , 235, 122786	0
130	Study on toxicity effects of environmental pollutants based on metabolomics: A review. <b>2022</b> , 286, 131815	10
129	Microbial Metabolomics: From Methods to Translational Applications. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1280, 97-113	3.6
128	Ecological and toxicological assessments of anthropogenic contaminants based on environmental metabolomics. <b>2021</b> , 5, 100081	24
127	Metabolomics. <b>2007</b> , 237-273	2
126	Metabolite Measurements. <b>2009</b> , 39-69	21
125	Metabolite fingerprinting by capillary electrophoresis-mass spectrometry. <b>2014</b> , 1198, 107-23	13
124	Metabonomics and toxicology. <b>2015</b> , 1277, 209-31	7
123	Yeasts and Their Metabolic Impact on Wine Flavour. <b>2019</b> , 43-80	4
122	LC-MS Metabonomics Methodology in Biomarker Discovery. <b>2008</b> , 291-315	2
121	Environmental metabolomics using <sup>1</sup> H-NMR spectroscopy. <b>2008</b> , 410, 137-50	18
120	The use of two-dimensional gas chromatography-time-of-flight mass spectrometry (GC/TOF-MS) for metabolomic analysis of polar metabolites. <b>2011</b> , 708, 205-11	12
119	Precautions for harvest, sampling, storage, and transport of crop plant metabolomics samples. <b>2012</b> , 860, 51-63	15
118	Plant Metabolites Involved in Plant-Pathogen Interactions. <b>2019</b> , 61-84	4

117	Background for Designing Laboratory Bioassays. <b>2014</b> , 1-29	1
116	Some Issues and Challenges When Designing Laboratory Bioassays. <b>2014</b> , 77-129	1
115	Hypothetical Cause and Effect Bioassays. <b>2014</b> , 237-272	2
114	Medicinal Plants: Ethno-Uses to Biotechnology Era. <b>2017</b> , 1-38	2
113	Metallomics: Integrated Biometal Science. <b>2017</b> , 3-39	4
112	Botanical Aspects of Medicinal and Aromatic Plants. <b>2015</b> , 13-33	8
111	Age-dependent characterization of volatile organic compounds and age discrimination in Chinese rice wine using an untargeted GC/MS-based metabolomic approach. <i>Food Chemistry</i> , <b>2020</b> , 325, 126900	8.5 15
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