Missing Value Imputation Approach for Mass Spectrom

Citation Report

#	Article	IF	Citations
1	Comprehensive evaluation of untargeted metabolomics data processing software in feature detection, quantification and discriminating marker selection. Analytica Chimica Acta, 2018, 1029, 50-57.	2.6	99
2	Generative Adversarial Networks Imputation for High Rate Missing Values. , 2018, , .		3
3	Determinants of the urinary and serum metabolome in children from six European populations. BMC Medicine, 2018, 16, 202.	2.3	107
4	NS-kNN: a modified k-nearest neighbors approach for imputing metabolomics data. Metabolomics, 2018, 14, 153.	1.4	44
5	Obesity shows preserved plasma proteome in large independent clinical cohorts. Scientific Reports, 2018, 8, 16981.	1.6	45
6	Intelligence Algorithms for Protein Classification by Mass Spectrometry. BioMed Research International, 2018, 2018, 1-11.	0.9	6
7	Metabolic Noise and Distinct Subpopulations Observed by Single Cell LAESI Mass Spectrometry of Plant Cells in situ. Frontiers in Plant Science, 2018, 9, 1646.	1.7	40
8	Measurement Error and Misclassification in Electronic Medical Records: Methods to Mitigate Bias. Current Epidemiology Reports, 2018, 5, 343-356.	1.1	13
9	Human Metabolome Changes after a Single Dose of 3,4-Methylenedioxymethamphetamine (MDMA) with Special Focus on Steroid Metabolism and Inflammation Processes. Journal of Proteome Research, 2018, 17, 2900-2907.	1.8	19
10	Metabotypes Related to Meat and Vegetable Intake Reflect Microbial, Lipid and Amino Acid Metabolism in Healthy People. Molecular Nutrition and Food Research, 2018, 62, e1800583.	1.5	17
11	Targeted metabolomics approach for identification of relapsing–remitting multiple sclerosis markers and evaluation of diagnostic models. MedChemComm, 2019, 10, 1803-1809.	3.5	18
12	Regional Discrimination of Australian Shiraz Wine Volatome by Two-Dimensional Gas Chromatography Coupled to Time-of-Flight Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2019, 67, 10273-10284.	2.4	24
13	Antagonistic Interactions between Benzo[a]pyrene and Fullerene (C60) in Toxicological Response of Marine Mussels. Nanomaterials, 2019, 9, 987.	1.9	20
14	Plasma Metabolites Associated with Frequent Red Wine Consumption: A Metabolomics Approach within the PREDIMED Study. Molecular Nutrition and Food Research, 2019, 63, e1900140.	1.5	20
15	Statistical Workflow for Feature Selection in Human Metabolomics Data. Metabolites, 2019, 9, 143.	1.3	55
16	Increased Dairy Product Intake Alters Serum Metabolite Profiles in Subjects at Risk of Developing Type 2 Diabetes. Molecular Nutrition and Food Research, 2019, 63, e1900126.	1.5	15
17	Growth Mode and Carbon Source Impact the Surfaceome Dynamics of Lactobacillus rhamnosus GG. Frontiers in Microbiology, 2019, 10, 1272.	1.5	28
18	The missing indicator approach for censored covariates subject to limit of detection in logistic regression models. Annals of Epidemiology, 2019, 38, 57-64.	0.9	12

#	Article	IF	Citations
19	The metaRbolomics Toolbox in Bioconductor and beyond. Metabolites, 2019, 9, 200.	1.3	64
20	Analytical Methods for Detection of Plant Metabolomes Changes in Response to Biotic and Abiotic Stresses. International Journal of Molecular Sciences, 2019, 20, 379.	1.8	78
21	Pre-analytic Considerations for Mass Spectrometry-Based Untargeted Metabolomics Data. Methods in Molecular Biology, 2019, 1978, 323-340.	0.4	8
22	Erwinia amylovora Auxotrophic Mutant Exometabolomics and Virulence on Apples. Applied and Environmental Microbiology, 2019, 85, .	1.4	19
23	Reproducibility of biomarker identifications from mass spectrometry proteomic data in cancer studies. Statistical Applications in Genetics and Molecular Biology, 2019, 18, .	0.2	3
24	PLS2 in Metabolomics. Metabolites, 2019, 9, 51.	1.3	23
25	Redundancy-Reducing and Holiday Speed Prediction Based on Highway Traffic Speed Data. IEEE Access, 2019, 7, 31535-31546.	2.6	6
26	Missing value imputation and data cleaning in untargeted food chemical safety assessment by LC-HRMS. Chemometrics and Intelligent Laboratory Systems, 2019, 188, 54-62.	1.8	9
27	Evaluation of linear models and missing value imputation for the analysis of peptide-centric proteomics. BMC Bioinformatics, 2019, 20, 102.	1.2	16
28	Metabolic adaptations during extreme anoxia in the turtle heart and their implications for ischemia-reperfusion injury. Scientific Reports, 2019, 9, 2850.	1.6	52
29	Machine Learning Approach for Prescriptive Plant Breeding. Scientific Reports, 2019, 9, 17132.	1.6	55
30	Associations of Environmental Conditions and Vibrio parahaemolyticus Genetic Markers in Washington State Pacific Oysters. Frontiers in Microbiology, 2019, 10, 2797.	1.5	10
31	BayesMetab: treatment of missing values in metabolomic studies using a Bayesian modeling approach. BMC Bioinformatics, 2019, 20, 673.	1.2	12
32	Metabolomics analysis of human acute graft-versus-host disease reveals changes in host and microbiota-derived metabolites. Nature Communications, 2019, 10, 5695.	5.8	91
33	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. Molecular Nutrition and Food Research, 2019, 63, e1800384.	1.5	173
34	A Review on Quantitative Multiplexed Proteomics. ChemBioChem, 2019, 20, 1210-1224.	1.3	224
35	Associations of diet and lifestyle factors with common volatile organic compounds in exhaled breath of average-risk individuals. Journal of Breath Research, 2019, 13, 026006.	1.5	28
36	GMSimpute: a generalized two-step Lasso approach to impute missing values in label-free mass spectrum analysis. Bioinformatics, 2020, 36, 257-263.	1.8	13

#	Article	IF	Citations
37	Recent Developments along the Analytical Process for Metabolomics Workflows. Analytical Chemistry, 2020, 92, 203-226.	3.2	72
38	Predictive Maintenance on the Machining Process and Machine Tool. Applied Sciences (Switzerland), 2020, 10, 224.	1.3	33
39	The vaginal metabolome and microbiota of cervical HPVâ€positive and HPVâ€negative women: a crossâ€sectional analysis. BJOG: an International Journal of Obstetrics and Gynaecology, 2020, 127, 182-192.	1.1	86
40	The use of missing values in proteomic data-independent acquisition mass spectrometry to enable disease activity discrimination. Bioinformatics, 2020, 36, 2217-2223.	1.8	29
41	Prenatal exposure to glycol ethers and response inhibition in 6-year-old children: The PELAGIE cohort study. Environmental Research, 2020, 181, 108950.	3.7	1
42	A nomogram to predict outcomes of lung cancer patients after pneumonectomy based on 47 indicators. Cancer Medicine, 2020, 9, 1430-1440.	1.3	11
43	IP4M: an integrated platform for mass spectrometry-based metabolomics data mining. BMC Bioinformatics, 2020, 21, 444.	1.2	35
44	A Genome-wide Association Study Discovers 46 Loci of the Human Metabolome in the Hispanic Community Health Study/Study of Latinos. American Journal of Human Genetics, 2020, 107, 849-863.	2.6	48
45	Caspase-3 Cleaves Extracellular Vesicle Proteins During Auditory Brainstem Development. Frontiers in Cellular Neuroscience, 2020, 14, 573345.	1.8	11
46	A Workflow for Missing Values Imputation of Untargeted Metabolomics Data. Metabolites, 2020, 10, 486.	1.3	20
47	Find the Needle in the Haystack, Then Find It Again: Replication and Validation in the â€˜Omics Era. Metabolites, 2020, 10, 286.	1.3	21
48	Decoding the Transcriptional Response to Ischemic Stroke in Young and Aged Mouse Brain. Cell Reports, 2020, 31, 107777.	2.9	66
49	Myc linked to dysregulation of cholesterol transport and storage in nonsmall cell lung cancer. Journal of Lipid Research, 2020, 61, 1390-1399.	2.0	14
50	Prenatal Exposure to Perfluoroalkyl Substances Associated With Increased Susceptibility to Liver Injury in Children. Hepatology, 2020, 72, 1758-1770.	3.6	90
51	A Multilevel Bayesian Approach to Improve Effect Size Estimation in Regression Modeling of Metabolomics Data Utilizing Imputation with Uncertainty. Metabolites, 2020, 10, 319.	1.3	9
52	SSâ€31 and NMN: Two paths to improve metabolism and function in aged hearts. Aging Cell, 2020, 19, e13213.	3.0	38
53	The Dynamic Proteome of Oligodendrocyte Lineage Differentiation Features Planar Cell Polarity and Macroautophagy Pathways. GigaScience, 2020, 9, .	3.3	10
54	Food Phenotyping: Recording and Processing of Non-Targeted Liquid Chromatography Mass Spectrometry Data for Verifying Food Authenticity. Molecules, 2020, 25, 3972.	1.7	15

#	ARTICLE	IF	CITATIONS
55	Five Easy Metrics of Data Quality for LC–MS-Based Global Metabolomics. Analytical Chemistry, 2020, 92, 12925-12933.	3.2	31
56	Isobaric Matching between Runs and Novel PSM-Level Normalization in MaxQuant Strongly Improve Reporter Ion-Based Quantification. Journal of Proteome Research, 2020, 19, 3945-3954.	1.8	55
57	Peripheral serum metabolomic profiles inform central cognitive impairment. Scientific Reports, 2020, 10, 14059.	1.6	25
58	Cross-platform comparison of highly sensitive immunoassay technologies for cytokine markers: Platform performance in post-traumatic stress disorder and Parkinson's disease. Cytokine: X, 2020, 2, 100027.	0.5	26
59	Unsupervised Cluster Analysis of Patients With Aortic Stenosis Reveals Distinct Population With Different Phenotypes and Outcomes. Circulation: Cardiovascular Imaging, 2020, 13, e009707.	1.3	28
60	Physical Activity Dynamically Regulates the Hippocampal Proteome along the Dorso-Ventral Axis. International Journal of Molecular Sciences, 2020, 21, 3501.	1.8	4
61	Plasma Metabolomics Profiles are Associated with the Amount and Source of Protein Intake: A Metabolomics Approach within the PREDIMED Study. Molecular Nutrition and Food Research, 2020, 64, e2000178.	1.5	17
62	Preoperative Prediction of Lymph Node Metastasis in Patients With Early-T-Stage Non-small Cell Lung Cancer by Machine Learning Algorithms. Frontiers in Oncology, 2020, 10, 743.	1.3	25
63	NAguideR: performing and prioritizing missing value imputations for consistent bottom-up proteomic analyses. Nucleic Acids Research, 2020, 48, e83-e83.	6.5	77
64	Machine Learning Applications for Mass Spectrometry-Based Metabolomics. Metabolites, 2020, 10, 243.	1.3	164
65	M2IA: a web server for microbiome and metabolome integrative analysis. Bioinformatics, 2020, 36, 3493-3498.	1.8	48
66	A population-based resource for intergenerational metabolomics analyses in pregnant women and their children: the Generation R Study. Metabolomics, 2020, 16, 43.	1.4	13
67	Mycotoxin exposure assessments in a multi-center European validation study by 24-hour dietary recall and biological fluid sampling. Environment International, 2020, 137, 105539.	4.8	41
68	The association of Chlamydia trachomatis and Mycoplasma genitalium infection with the vaginal metabolome. Scientific Reports, 2020, 10, 3420.	1.6	23
69	Predictive Modeling for Metabolomics Data. Methods in Molecular Biology, 2020, 2104, 313-336.	0.4	32
70	Bioinformatics Methods for Mass Spectrometry-Based Proteomics Data Analysis. International Journal of Molecular Sciences, 2020, 21, 2873.	1.8	134
71	Metabolomic alternations of follicular fluid of obese women undergoing in-vitro fertilization treatment. Scientific Reports, 2020, 10, 5968.	1.6	17
72	Research of Low-Rank Representation and Discriminant Correlation Analysis for Alzheimer's Disease Diagnosis. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-8.	0.7	8

#	Article	IF	Citations
73	Biostimulants Derived from Moroccan Seaweeds: Seed Germination Metabolomics and Growth Promotion of Tomato Plant. Journal of Plant Growth Regulation, 2021, 40, 353-370.	2.8	31
74	A Metabolite Composite Score Attenuated a Substantial Portion of the Higher Mortality Risk Associated With Frailty Among Community-Dwelling Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 378-384.	1.7	9
75	Proper imputation of missing values in proteomics datasets for differential expression analysis. Briefings in Bioinformatics, 2021, 22, .	3.2	39
76	Mass spectrometry-based untargeted metabolomics approach for differentiation of beef of different geographic origins. Food Chemistry, 2021, 338, 127847.	4.2	37
77	Application of high-resolution metabolomics to identify biological pathways perturbed by traffic-related air pollution. Environmental Research, 2021, 193, 110506.	3.7	37
78	BatchServer: A Web Server for Batch Effect Evaluation, Visualization, and Correction. Journal of Proteome Research, 2021, 20, 1079-1086.	1.8	10
79	A Review of Imputation Strategies for Isobaric Labeling-Based Shotgun Proteomics. Journal of Proteome Research, 2021, 20, 1-13.	1.8	26
80	A comparative study of evaluating missing value imputation methods in label-free proteomics. Scientific Reports, 2021, 11, 1760.	1.6	53
81	Metabolomics Insights in Early Childhood Caries. Journal of Dental Research, 2021, 100, 615-622.	2.5	23
82	Untargeted Urinary Metabolomics and Children's Exposure to Secondhand Smoke: The Influence of Individual Differences. International Journal of Environmental Research and Public Health, 2021, 18, 710.	1.2	4
83	Steroid profiling of glucocorticoids in microdissected mouse brain across development. Developmental Neurobiology, 2021, 81, 189-206.	1.5	12
84	Normothermic Ex-vivo Kidney Perfusion in a Porcine Auto-Transplantation Model Preserves the Expression of Key Mitochondrial Proteins: An Unbiased Proteomics Analysis. Molecular and Cellular Proteomics, 2021, 20, 100101.	2.5	6
85	Hybrid Missing Value Imputation Algorithms Using Fuzzy C-Means and Vaguely Quantified Rough Set. IEEE Transactions on Fuzzy Systems, 2022, 30, 1396-1408.	6.5	23
86	Serum Bile Acid, Vitamin E, and Serotonin Metabolites Are Associated With Future Liver‐Related Events in Nonalcoholic Fatty Liver Disease. Hepatology Communications, 2021, 5, 608-617.	2.0	15
87	Emerging investigator series: examination of the gastrointestinal lipidome of largemouth bass exposed to dietary single-walled carbon nanotubes. Environmental Science: Nano, 2021, 8, 2792-2801.	2.2	2
88	Machine Learning Data Imputation and Prediction of Foraging Group Size in a Kleptoparasitic Spider. Mathematics, 2021, 9, 415.	1.1	4
90	Comparative analysis of statistical tools for oil palm phytochemical research. Heliyon, 2021, 7, e06048.	1.4	4
91	Dairy consumption, plasma metabolites, and risk of type 2 diabetes. American Journal of Clinical Nutrition, 2021, 114, 163-174.	2.2	29

#	Article	IF	Citations
92	Salivary Biomarkers for Dental Caries Detection and Personalized Monitoring. Journal of Personalized Medicine, 2021, 11, 235.	1.1	19
93	To Predict the Length of Hospital Stay After Total Knee Arthroplasty in an Orthopedic Center in China: The Use of Machine Learning Algorithms. Frontiers in Surgery, 2021, 8, 606038.	0.6	18
94	Discrepancies in metabolomic biomarker identification from patient-derived lung cancer revealed by combined variation in data pre-treatment and imputation methods. Metabolomics, 2021, 17, 37.	1.4	3
95	Biogenic Amines Increase the Odds of Bacterial Vaginosis and Affect the Growth of and Lactic Acid Production by Vaginal <i>Lactobacillus</i> spp.. Applied and Environmental Microbiology, 2021, 87, .	1.4	24
97	Protective effect of oral histidine on hypertension in Dahl salt-sensitive rats induced by high-salt diet. Life Sciences, 2021, 270, 119134.	2.0	15
98	OptiMissP: A dashboard to assess missingness in proteomic data-independent acquisition mass spectrometry. PLoS ONE, 2021, 16, e0249771.	1.1	8
99	Elucidating the Antimycobacterial Mechanism of Action of Ciprofloxacin Using Metabolomics. Microorganisms, 2021, 9, 1158.	1.6	13
100	Measuring association among censored antibody titer data. Statistics in Medicine, 2021, 40, 3740-3761.	0.8	7
101	A Simple Optimization Workflow to Enable Precise and Accurate Imputation of Missing Values in Proteomic Data Sets. Journal of Proteome Research, 2021, 20, 3214-3229.	1.8	14
102	Application of untargeted volatile profiling and data driven approaches in wine flavoromics research. Food Research International, 2021, 145, 110392.	2.9	14
103	Using lipid profiling to better characterize metabolic differences in apolipoprotein E (APOE) genotype among community-dwelling older Black men. GeroScience, 2022, 44, 1083-1094.	2.1	2
104	Kernel weighted least square approach for imputing missing values of metabolomics data. Scientific Reports, 2021, 11, 11108.	1.6	7
105	LipidSuite: interactive web server for lipidomics differential and enrichment analysis. Nucleic Acids Research, 2021, 49, W346-W351.	6.5	14
107	Systematic Feature Filtering in Exploratory Metabolomics: Application toward Biomarker Discovery. Analytical Chemistry, 2021, 93, 9103-9110.	3.2	6
108	Evaluation of disease staging and chemotherapeutic response in non-small cell lung cancer from patient tumor-derived metabolomic data. Lung Cancer, 2021, 156, 20-30.	0.9	25
109	Elucidating the Antimycobacterial Mechanism of Action of Decoquinate Derivative RMB041 Using Metabolomics. Antibiotics, 2021, 10, 693.	1.5	12
110	<i>Omics Untargeted Key Script</i>: R-Based Software Toolbox for Untargeted Metabolomics with Bladder Cancer Biomarkers Discovery Case Study. Journal of Proteome Research, 2022, 21, 833-847.	1.8	12
111	DIMA: Data-Driven Selection of an Imputation Algorithm. Journal of Proteome Research, 2021, 20, 3489-3496.	1.8	13

#	Article	IF	Citations
112	Metabolomic Characterization of Commercial, Old, and Red-Fleshed Apple Varieties. Metabolites, 2021, 11, 378.	1.3	13
115	Backpropagation Neural Network for Processing of Missing Data in Breast Cancer Detection. Irbm, 2021, 42, 435-441.	3.7	3
116	POMAShiny: A user-friendly web-based workflow for metabolomics and proteomics data analysis. PLoS Computational Biology, 2021, 17, e1009148.	1.5	15
117	A metabolomics comparison of plant-based meat and grass-fed meat indicates large nutritional differences despite comparable Nutrition Facts panels. Scientific Reports, 2021, 11, 13828.	1.6	72
118	An Expansion for Automated Cardiac Anomaly Detection Frameworks with Multimodal Missing Data Imputation. , 2021, , .		0
119	SLIDEâ€"Novel Approach to Apocrine Sweat Sampling for Lipid Profiling in Healthy Individuals. International Journal of Molecular Sciences, 2021, 22, 8054.	1.8	4
120	Nutritional supplementation alters associations between one-carbon metabolites and cardiometabolic risk profiles in older adults: a secondary analysis of the Vienna Active Ageing Study. European Journal of Nutrition, 2022, 61, 169-182.	1.8	3
121	High-Throughput Analysis of Tissue-Embedded Single Cells by Mass Spectrometry with Bimodal Imaging and Object Recognition. Analytical Chemistry, 2021, 93, 9677-9687.	3.2	17
122	Tolerant Larvae and Sensitive Juveniles: Integrating Metabolomics and Whole-Organism Responses to Define Life-Stage Specific Sensitivity to Ocean Acidification in the American Lobster. Metabolites, 2021, 11, 584.	1.3	14
123	CANVS: an easy-to-use application for the analysis and visualization of mass spectrometryâ€"based proteinâ€"protein interaction/association data. Molecular Biology of the Cell, 2021, 32, br9.	0.9	0
124	The Combined Treatment With the FLT3-Inhibitor AC220 and the Complex I Inhibitor IACS-010759 Synergistically Depletes Wt- and FLT3-Mutated Acute Myeloid Leukemia Cells. Frontiers in Oncology, 2021, 11, 686765.	1.3	10
125	Maternal Body Mass Index, Early-Pregnancy Metabolite Profile, and Birthweight. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e315-e327.	1.8	11
126	Shear-Mediated Platelet Activation is Accompanied by Unique Alterations in Platelet Release of Lipids. Cellular and Molecular Bioengineering, 2021, 14, 597-612.	1.0	1
129	Comprehensive Analysis of a tRNA-Derived Small RNA in Colorectal Cancer. Frontiers in Oncology, 2021, 11, 701440.	1.3	9
130	A map of metabolic phenotypes in patients with myalgic encephalomyelitis/chronic fatigue syndrome. JCI Insight, 2021, 6, .	2.3	22
131	Longitudinal Plasma Metabolomics Profile in Pregnancyâ€"A Study in an Ethnically Diverse U.S. Pregnancy Cohort. Nutrients, 2021, 13, 3080.	1.7	17
132	A multiâ€"omics study delineates new molecular features and therapeutic targets for esophageal squamous cell carcinoma. Clinical and Translational Medicine, 2021, 11, e538.	1.7	15
133	Multiple Imputation Approaches Applied to the Missing Value Problem in Bottom-Up Proteomics. International Journal of Molecular Sciences, 2021, 22, 9650.	1.8	20

#	ARTICLE	IF	CITATIONS
134	Cross-Platform Evaluation of Commercially Targeted and Untargeted Metabolomics Approaches to Optimize the Investigation of Psychiatric Disease. Metabolites, 2021, 11, 609.	1.3	6
135	APOÎ•4 lowers energy expenditure in females and impairs glucose oxidation by increasing flux through aerobic glycolysis. Molecular Neurodegeneration, 2021, 16, 62.	4.4	34
136	NMF-Based Approach for Missing Values Imputation of Mass Spectrometry Metabolomics Data. Molecules, 2021, 26, 5787.	1.7	9
137	Comparison of imputation and imputation-free methods for statistical analysis of mass spectrometry data with missing data. Briefings in Bioinformatics, 2022, 23, .	3.2	4
138	The maternal blood lipidome is indicative of the pathogenesis of severe preeclampsia. Journal of Lipid Research, 2021, 62, 100118.	2.0	17
139	Suspect screening and targeted analyses: Two complementary approaches to characterize human exposure to pesticides. Science of the Total Environment, 2021, 786, 147499.	3.9	13
140	Associations of maternal bisphenol urine concentrations during pregnancy with neonatal metabolomic profiles. Metabolomics, 2021, 17, 84.	1.4	7
141	Development of a post-processing method to reduce the unique off-flavor of Allomyrina dichotoma: Yeast fermentation. LWT - Food Science and Technology, 2021, 150, 111940.	2.5	9
142	A data-driven binary-classification framework for oil fingerprinting analysis. Environmental Research, 2021, 201, 111454.	3.7	16
143	Comparison of Imputation Methods for End-User Demands in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	10
144	A prospective study of maternal adiposity and glycemic traits across pregnancy and mid-childhood metabolomic profiles. International Journal of Obesity, 2021, 45, 860-869.	1.6	3
146	Development of a tRNA-derived small RNA diagnostic and prognostic signature in liver cancer. Genes and Diseases, 2022, 9, 393-400.	1.5	12
147	Metabolomics Data Processing Using XCMS. Methods in Molecular Biology, 2020, 2104, 11-24.	0.4	43
148	Estimating missing values in Chinaâ€™s official socioeconomic statistics using progressive spatiotemporal Bayesian hierarchical modeling. Scientific Reports, 2018, 8, 10055.	1.6	10
149	Walnut Consumption, Plasma Metabolomics, and Risk of Type 2 Diabetes and Cardiovascular Disease. Journal of Nutrition, 2021, 151, 303-311.	1.3	20
155	GSimp: A Gibbs sampler based left-censored missing value imputation approach for metabolomics studies. PLoS Computational Biology, 2018, 14, e1005973.	1.5	92
156	Missing value imputation in proximity extension assay-based targeted proteomics data. PLoS ONE, 2020, 15, e0243487.	1.1	5
157	Missing Data Imputation by the Aid of Features Similarities. International Journal of Big Data Management, 2019, 1, 1.	0.3	1

#	ARTICLE	IF	CITATIONS
158	Metabolomics Data Treatment: Basic Directions of the Full Process. Advances in Experimental Medicine and Biology, 2021, 1336, 243-264.	0.8	3
159	Comparison of the blood, bone marrow, and cerebrospinal fluid metabolomes in children with b-cell acute lymphoblastic leukemia. Scientific Reports, 2021, 11, 19613.	1.6	7
160	Improved Metabolite Prediction Using Microbiome Data-Based Elastic Net Models. Frontiers in Cellular and Infection Microbiology, 2021, 11, 734416.	1.8	7
161	Altered oxylipin levels in human vitreous indicate imbalance in pro-/anti-inflammatory homeostasis in proliferative diabetic retinopathy. Experimental Eye Research, 2022, 214, 108799.	1.2	8
162	Improved Random Forest Algorithm Based on Decision Paths for Fault Diagnosis of Chemical Process with Incomplete Data. Sensors, 2021, 21, 6715.	2.1	11
166	Metabolite trajectories across the perinatal period and mental health: A preliminary study of tryptophan-related metabolites, bile acids and microbial composition. Behavioural Brain Research, 2022, 418, 113635.	1.2	12
169	The Metabolome of Carbapenem-Resistant Klebsiella pneumoniae Infection in Plasma. Disease Markers, 2021, 2021, 1-9.	0.6	5
170	Single‑Cell Metabolomics by Mass Spectrometry: Opportunities and Challenges. Analysis & Sensing, 2022, 2, .	1.1	7
172	The Comprehensive and Reliable Detection of Secondary Metabolites in Trichoderma reesei: A Tool for the Discovery of Novel Substances. Methods in Molecular Biology, 2021, 2234, 271-295.	0.4	0
175	High-throughput mediation analysis of human proteome and metabolome identifies mediators of post-bariatric surgical diabetes control. Nature Communications, 2021, 12, 6951.	5.8	13
176	A metabolomics approach identified toxins associated with uremic symptoms in advanced chronic kidney disease. Kidney International, 2022, 101, 369-378.	2.6	3
177	Binary Simplification as an Effective Tool in Metabolomics Data Analysis. Metabolites, 2021, 11, 788.	1.3	8
178	Breath biomarkers of insulin resistance in pre-diabetic Hispanic adolescents with obesity. Scientific Reports, 2022, 12, 339.	1.6	8
179	Ensemble active imputation for incomplete data. , 2020, , .		1
180	Comparative assessment and novel strategy on methods for imputing proteomics data. Scientific Reports, 2022, 12, 1067.	1.6	8
181	Supplementation of amino acids and organic acids prevents the increase in blood pressure induced by high salt in Dahl salt-sensitive rats. Food and Function, 2022, 13, 891-903.	2.1	3
182	Machine Learning in Prediction of Bladder Cancer on Clinical Laboratory Data. Diagnostics, 2022, 12, 203.	1.3	16
183	Activation of the plant mevalonate pathway by extracellular ATP. Nature Communications, 2022, 13, 450.	5.8	16

#	Article	IF	Citations
184	Distinct metabolic hallmarks of WHO classified adult glioma subtypes. Neuro-Oncology, 2022, 24, 1454-1468.	0.6	26
185	Optimization of metabolomic data processing using NOREVA. Nature Protocols, 2022, 17, 129-151.	5.5	114
186	Signaling Lipidomic Analysis of Thermogenic Adipocytes. Methods in Molecular Biology, 2022, 2448, 251-271.	0.4	1
187	A Comprehensive Evaluation of Metabolomics Data Preprocessing Methods for Deep Learning. Metabolites, 2022, 12, 202.	1.3	4
188	Mitochondrial Inorganic Polyphosphate (polyP) Is a Potent Regulator of Mammalian Bioenergetics in SH-SY5Y Cells: A Proteomics and Metabolomics Study. Frontiers in Cell and Developmental Biology, 2022, 10, 833127.	1.8	16
190	mtTB: A Web-Based R/Shiny App for Pulmonary Tuberculosis Screening. Frontiers in Cellular and Infection Microbiology, 2022, 12, 850279.	1.8	0
191	MetOrigin: Discriminating the origins of microbial metabolites for integrative analysis of the gut microbiome and metabolome. , 2022, 1, .		61
192	1H NMR based urinary metabolites profiling dataset of canine mammary tumors. Scientific Data, 2022, 9, 132.	2.4	3
193	Metabolic Footprinting of Microbial Systems Based on Comprehensive In Silico Predictions of MS/MS Relevant Data. Metabolites, 2022, 12, 257.	1.3	3
194	*ldhA* â€‘induced persister in *Escherichia coli* is formed through accidental SOS response via intracellular metabolic perturbation. Microbiology and Immunology, 2022, , .	0.7	1
195	Plasma metabolite profiles related to plant-based diets and the risk of type 2 diabetes. Diabetologia, 2022, 65, 1119-1132.	2.9	35
196	3MCor: an integrative web server for metabolomeâ€"microbiome-metadata correlation analysis. Bioinformatics, 2022, 38, 1378-1384.	1.8	3
197	Vaginal microbiota of American Indian women and associations with measures of psychosocial stress. PLoS ONE, 2021, 16, e0260813.	1.1	8
199	Surfing the Big Data Wave: Omics Data Challenges in Transplantation. Transplantation, 2022, 106, e114-e125.	0.5	8
200	Identification of Metabolomic Biomarkers of Long-Term Stress Using NMR Spectroscopy in a Diving Duck. Metabolites, 2022, 12, 353.	1.3	0
201	Metabolomic Associations of Asthma in the Hispanic Community Health Study/Study of Latinos. Metabolites, 2022, 12, 359.	1.3	1
202	Age-related disruption of the proteome and acetylome in mouse hearts is associated with loss of function and attenuated by elamipretide (SS-31) and nicotinamide mononucleotide (NMN) treatment. GeroScience, 2022, 44, 1621-1639.	2.1	8
215	Optimization of Imputation Strategies for High-Resolution Gas Chromatographyâ€"Mass Spectrometry (HR GCâ€"MS) Metabolomics Data. Metabolites, 2022, 12, 429.	1.3	4

#	ARTICLE	IF	CITATIONS
216	Strengthening Causal Inference in Exposomics Research: Application of Genetic Data and Methods. Environmental Health Perspectives, 2022, 130, 55001.	2.8	5
217	Privacy-Preserving Collaborative Data Collection and Analysis with Many Missing Values. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1.	3.7	8
218	Mechanism-aware imputation: a two-step approach in handling missing values in metabolomics. BMC Bioinformatics, 2022, 23, 179.	1.2	7
219	A novel nanobody as therapeutics target for EGFR-positive colorectal cancer therapy: exploring the effects of the nanobody on SW480 cells using proteomics approach. Proteome Science, 2022, 20, 9.	0.7	7
220	Untargeted and Targeted Circadian Metabolomics Using Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) and Flow Injection-Electrospray Ionization-Tandem Mass Spectrometry (FIA-ESI-MS/MS). Methods in Molecular Biology, 2022, , 311-327.	0.4	2
221	Untargeted Metabolomics Profiling Reveals Perturbations in Arginine-NO Metabolism in Middle Eastern Patients with Coronary Heart Disease. Metabolites, 2022, 12, 517.	1.3	5
222	<i>Pseudomonas</i> sp. Strain 273 Incorporates Organofluorine into the Lipid Bilayer during Growth with Fluorinated Alkanes. Environmental Science & Technology, 2022, 56, 8155-8166.	4.6	10
223	A comparative study of the fatty acid profile of common fruits and fruits claimed to confer health benefits. Journal of Food Composition and Analysis, 2022, 112, 104657.	1.9	5
224	HarmonizR enables data harmonization across independent proteomic datasets with appropriate handling of missing values. Nature Communications, 2022, 13, .	5.8	16
225	Associations of body shape phenotypes with sex steroids and their binding proteins in the UK Biobank cohort. Scientific Reports, 2022, 12, .	1.6	8
227	Effects of Gancao Nourish-Yin Decoction on Liver Metabolic Profiles in hTNF-Î± Transgenic Arthritic Model Mice. , 2022, 02, e19-e27.		0
228	Single-Cell Quantitative Proteomic Analysis of Human Oocyte Maturation Revealed High Heterogeneity in InÂVitroâ€"Matured Oocytes. Molecular and Cellular Proteomics, 2022, 21, 100267.	2.5	10
229	Assessment of label-free quantification and missing value imputation for proteomics in non-human primates. BMC Genomics, 2022, 23, .	1.2	3
230	Rapid Multivariate Analysis Approach to Explore Differential Spatial Protein Profiles in Tissue. Journal of Proteome Research, 2023, 22, 1394-1405.	1.8	4
231	Ageâ€Independent Cardiac Protection by Pharmacological Activation of Beclinâ€1 During Endotoxemia and Its Association With Energy Metabolic Reprograming in Myocardiumâ€"A Targeted Metabolomics Study. Journal of the American Heart Association, 0, , .	1.6	1
232	Ultrasensitive Quantification of Multiple Estrogens in Songbird Blood and Microdissected Brain by LC-MS/MS. ENeuro, 2022, 9, ENEURO.0037-22.2022.	0.9	6
233	Pan-cancer proteomic map of 949 human cell lines. Cancer Cell, 2022, 40, 835-849.e8.	7.7	52
234	Challenges and opportunities for prevention and removal of unwanted variation in lipidomic studies. Progress in Lipid Research, 2022, 87, 101177.	5.3	11

#	Article	IF	Citations
235	Graph Properties of Mass-Difference Networks for Profiling and Discrimination in Untargeted Metabolomics. Frontiers in Molecular Biosciences, 0, 9, .	1.6	3
236	Mitochondria-derived small RNAs as diagnostic biomarkers in lung cancer patients through a novel ratio-based expression analysis methodology. Genes and Diseases, 2022, , .	1.5	1
237	Prediagnostic Plasma Metabolomics and the Risk of Exfoliation Glaucoma. , 2022, 63, 15.		3
239	Metabolomics. , 2024, , 161-170.		0
240	Dysregulated Metabolic Pathways in Subjects with Obesity and Metabolic Syndrome. International Journal of Molecular Sciences, 2022, 23, 9821.	1.8	6
241	Systemic lipolysis promotes physiological fitness in Drosophila melanogaster. Aging, 2022, 14, 6481-6506.	1.4	5
242	Molecular mediators of the association between child obesity and mental health. Frontiers in Genetics, 0, 13, .	1.1	0
243	MIRTH: Metabolite Imputation via Rank-Transformation and Harmonization. Genome Biology, 2022, 23, .	3.8	3
244	Potential progression biomarkers of diabetic kidney disease determined using comprehensive machine learning analysis of non-targeted metabolomics. Scientific Reports, 2022, 12, .	1.6	7
245	Improved GSimp: A Flexible Missing Value Imputation Method to Support Regulatory Bioequivalence Assessment. Annals of Biomedical Engineering, 2023, 51, 163-173.	1.3	3
246	Computational approaches for predicting variant impact: An overview from resources, principles to applications. Frontiers in Genetics, 0, 13, .	1.1	11
247	Transcriptome analysis of childhood Guillain–Barré syndrome associated with supportive care. Frontiers in Pediatrics, 0, 10, .	0.9	0
250	Pharmacometabolomics of Asthma as a Road Map to Precision Medicine. Handbook of Experimental Pharmacology, 2022, , .	0.9	0
251	Oxylipins Associated with D3-Creatine Muscle Mass/Weight and Physical Performance among Community-Dwelling Older Men. International Journal of Molecular Sciences, 2022, 23, 12857.	1.8	1
252	Integrative multiomic analyses of dorsal root ganglia in diabetic neuropathic pain using proteomics, phospho-proteomics, and metabolomics. Scientific Reports, 2022, 12, .	1.6	6
253	Plasma Metabolite Profiles Associated with the Amount and Source of Meat and Fish Consumption and the Risk of Type 2 Diabetes. Molecular Nutrition and Food Research, 2022, 66, .	1.5	6
255	Identifying Finest Machine Learning Algorithm for Climate Data Imputation in the State of Minas Gerais, Brazil. Journal of Information and Data Management, 2019, 9, 259.	0.2	6
256	A large–scale targeted proteomics of plasma extracellular vesicles shows utility for prognosis prediction subtyping in colorectal cancer. Cancer Medicine, 2023, 12, 7616-7626.	1.3	6

#	ARTICLE	IF	CITATIONS
257	Dealing with missing values in proteomics data. Proteomics, 2022, 22, .	1.3	17
258	The metabolomics of a protein kinase C delta (PKCÎ´) knock-out mouse model. Metabolomics, 2022, 18, .	1.4	3
259	Fetal Exposure to Maternal Smoking and Neonatal Metabolite Profiles. Metabolites, 2022, 12, 1101.	1.3	3
260	Single sample pathway analysis in metabolomics: performance evaluation and application. BMC Bioinformatics, 2022, 23, .	1.2	7
261	Genome-wide metabolite quantitative trait loci analysis (mQTL) in red blood cells from volunteer blood donors. Journal of Biological Chemistry, 2022, 298, 102706.	1.6	9
262	Alignment and Analysis of a Disparately Acquired Multibatch Metabolomics Study of Maternal Pregnancy Samples. Journal of Proteome Research, 2022, 21, 2936-2946.	1.8	2
264	Transection injury differentially alters the proteome of the human sural nerve. PLoS ONE, 2022, 17, e0260998.	1.1	3
265	Ocean acidification causes fundamental changes in the cellular metabolism of the Arctic copepod Calanus glacialis as detected by metabolomic analysis. Scientific Reports, 2022, 12, .	1.6	3
266	An Untargeted Metabolomics Workflow that Scales to Thousands of Samples for Population-Based Studies. Analytical Chemistry, 2022, 94, 17370-17378.	3.2	8
267	Untargeted metabolomics reveals gender- and age- independent metabolic changes of type 1 diabetes in Chinese children. Frontiers in Endocrinology, 0, 13, .	1.5	4
268	The acute postprandial response of homocysteine to multivitamin and mineral supplementation with a standard meal is not impaired in older compared to younger adults. European Journal of Nutrition, 2023, 62, 1309-1322.	1.8	2
269	Breathomics profiling of metabolic pathways affected by major depression: Possibilities and limitations. Frontiers in Psychiatry, 0, 13, .	1.3	2
270	Characterization of multiple pesticide exposure in pregnant women in Brittany, France. Journal of Exposure Science and Environmental Epidemiology, 0, , .	1.8	2
271	Several Metabolite Families Display Inflexibility during Glucose Challenge in Patients with Type 2 Diabetes: An Untargeted Metabolomics Study. Metabolites, 2023, 13, 131.	1.3	0
272	Model for Predicting Complications of Hemodialysis Patients Using Data from the Internet of Medical Things and Electronic Medical Records. IEEE Journal of Translational Engineering in Health and Medicine, 2023, , 1-1.	2.2	0
273	GC-MS Techniques Investigating Potential Biomarkers of Dying in the Last Weeks with Lung Cancer. International Journal of Molecular Sciences, 2023, 24, 1591.	1.8	1
274	Metabolomic biomarkers of the mediterranean diet in pregnant individuals: A prospective study. Clinical Nutrition, 2023, 42, 384-393.	2.3	2
275	Software and Computational Tools for LC-MS-Based Epilipidomics: Challenges and Solutions. Analytical Chemistry, 2023, 95, 287-303.	3.2	8

#	ARTICLE	IF	CITATIONS
276	Secondary bile acids improve risk prediction for nonâ€‘invasive identification of mild liver fibrosis in nonalcoholic fatty liver disease. Alimentary Pharmacology and Therapeutics, 2023, 57, 872-885.	1.9	6
278	Bayesian Nonparametric Classification for Incomplete Data With a High Missing Rate: an Application to Semiconductor Manufacturing Data. IEEE Transactions on Semiconductor Manufacturing, 2023, , 1-1.	1.4	0
279	Mitochondrial non-coding RNA in nasopharyngeal carcinoma: Clinical diagnosis and functional analysis. Frontiers in Genetics, 0, 14, .	1.1	0
280	Data Science and Plant Metabolomics. Metabolites, 2023, 13, 454.	1.3	2
281	BIRCH: An Automated Workflow for Evaluation, Correction, and Visualization of Batch Effect in Bottom-Up Mass Spectrometry-Based Proteomics Data. Journal of Proteome Research, 2023, 22, 471-481.	1.8	1
282	Spatial distribution of metabolites in the retina and its relevance to studies of metabolic retinal disorders. Metabolomics, 2023, 19, .	1.4	0
283	Missing data in multi-omics integration: Recent advances through artificial intelligence. Frontiers in Artificial Intelligence, 0, 6, .	2.0	17
284	The lipidomes of C. elegans with mutations in asm-3/acid sphingomyelinase and hyl-2/ceramide synthase show distinct lipid profiles during aging. Aging, 2023, 15, 650-674.	1.4	2
285	PANTOTHENATE KINASE4, LOSS OF GDU2, and TRANSPOSON PROTEIN1 affect the canalization of tomato fruit metabolism. Plant Physiology, 0, , .	2.3	2
287	Small molecule biomarker discovery: Proposed workflow for LC-MS-based clinical research projects. Journal of Mass Spectrometry and Advances in the Clinical Lab, 2023, 28, 47-55.	1.3	8
288	A hyperaldosteronism subtypes predictive model using ensemble learning. Scientific Reports, 2023, 13, .	1.6	3
289	Sex differences in the associations of body size and body shape with platelets in the UK Biobank cohort. Biology of Sex Differences, 2023, 14, .	1.8	3
290	Vitreous metabolomic signatures of pathological myopia with complications. Eye, 2023, 37, 2987-2993.	1.1	2
291	Untargeted Metabolomics to Characterize the Urinary Chemical Landscape of E-Cigarette Users. Chemical Research in Toxicology, 2023, 36, 630-642.	1.7	3
292	Comparison of methanol fixation versus cryopreservation of the placenta for metabolomics analysis. Scientific Reports, 2023, 13, .	1.6	0
293	An integrated multi-omic approach demonstrates distinct molecular signatures between human obesity with and without metabolic complications: a caseâ€"control study. Journal of Translational Medicine, 2023, 21, .	1.8	1
294	Multi-omic integration via similarity network fusion to detect molecular subtypes of ageing. Brain Communications, 2023, 5, .	1.5	3
295	Different biological effects of exposure to far-UVC (222Ânm) and near-UVC (254Ânm) irradiation. Journal of Photochemistry and Photobiology B: Biology, 2023, 243, 112713.	1.7	4

#	ARTICLE	IF	CITATIONS
297	Neither random nor censored: estimating intensity-dependent probabilities for missing values in label-free proteomics. Bioinformatics, 2023, 39, .	1.8	3
326	LC-MS-Based Population Metabolomics: A Mini-Review of Recent Studies and Challenges from Sample Collection to Data Processing. , 2023, , 269-299.		0
356	A Lipidome-Wide Association Study: Data Processing, Annotation, and Analysis Workflow Using MS-DIAL and R. Learning Materials in Biosciences, 2023, , 301-341.	0.2	0
357	Identifying Sex-Specific Cancer Metabolites and Associations to Prognosis. Learning Materials in Biosciences, 2023, , 271-299.	0.2	0