

HMDB 4.0: the human metabolome database for 2018

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Challenges and emergent solutions for LC-MS/MS based untargeted metabolomics in diseases. <i>Mass Spectrometry Reviews</i> , 2018, 37, 772-792.	2.8	219
3	Bio- and Chemoinformatics Approaches for Metabolomics Data Analysis. <i>Methods in Molecular Biology</i> , 2018, 1738, 41-61.	0.4	3
4	The role of the Human Metabolome Database in inborn errors of metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 329-336.	1.7	15
5	Caveat Usor: Assessing Differences between Major Chemistry Databases. <i>ChemMedChem</i> , 2018, 13, 470-481.	1.6	12
6	Using Metabolomics to Explore the Role of Postmenopausal Adiposity in Breast Cancer Risk. <i>Journal of the National Cancer Institute</i> , 2018, 110, 547-548.	3.0	0
7	Horizons of Systems Biocatalysis and Renaissance of Metabolite Synthesis. <i>Biotechnology Journal</i> , 2018, 13, 1700620.	1.8	19
8	Applications of metabolomics to study cancer metabolism. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018, 1870, 2-14.	3.3	129
9	Think big – think omics. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 281-283.	1.7	19
10	KniMet: a pipeline for the processing of chromatography-mass spectrometry metabolomics data. <i>Metabolomics</i> , 2018, 14, 52.	1.4	40
11	Observation of acetyl phosphate formation in mammalian mitochondria using real-time in-organelle NMR metabolomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4152-4157.	3.3	37
12	Targeting human urinary metabolome by LC-MS/MS: a review. <i>Bioanalysis</i> , 2018, 10, 489-516.	0.6	42
13	Influence of Metabolite Extraction Methods on ¹ H-NMR-Based Metabolomic Profiling of Enteropathogenic <i>Yersinia</i> . <i>Methods and Protocols</i> , 2018, 1, 45.	0.9	0
15	A Model Integration Pipeline for the Improvement of Human Genome-Scale Metabolic Reconstructions. <i>Journal of Integrative Bioinformatics</i> , 2018, 16, .	1.0	4
16	Untargeted metabolomics profiles delineate metabolic alterations in mouse plasma during lung carcinoma development using UPLC-QTOF/MS in MS ^E mode. <i>Royal Society Open Science</i> , 2018, 5, 181143.	1.1	30
17	MER: a shell script and annotation server for minimal named entity recognition and linking. <i>Journal of Cheminformatics</i> , 2018, 10, 58.	2.8	22
18	ComPath: an ecosystem for exploring, analyzing, and curating mappings across pathway databases. <i>Npj Systems Biology and Applications</i> , 2018, 4, 3.	1.4	43
19	From Single Level Analysis to Multi-Omics Integrative Approaches: A Powerful Strategy towards the Precision Oncology. <i>High-Throughput</i> , 2018, 7, 33.	4.4	48
20	HS-SPME-GC-MS metabolomics approach for sperm quality evaluation by semen volatile organic compounds (VOCs) analysis. <i>Biomedical Physics and Engineering Express</i> , 2018, 5, 015006.	0.6	21

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21	Review of recent developments in GC-MS approaches to metabolomics-based research. <i>Metabolomics</i> , 2018, 14, 152.	1.4	314
22	Diapause-associated changes in the lipid and metabolite profile of the Asian tiger mosquito, <i>Aedes albopictus</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	38
23	Plasma Derived Exosomal Biomarkers of Exposure to Ionizing Radiation in Nonhuman Primates. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3427.	1.8	30
24	Enzymatic assay of D-mannose from urine. <i>Bioanalysis</i> , 2018, 10, 1947-1954.	0.6	5
25	Discovering a new catabolic pathway of D-ribonate in <i>Mycobacterium smegmatis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 1107-1111.	1.0	1
26	Dietary Lignans: Definition, Description and Research Trends in Databases Development. <i>Molecules</i> , 2018, 23, 3251.	1.7	77
27	Gluconeogenesis using glycerol as a substrate in bloodstream-form <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2018, 14, e1007475.	2.1	32
28	A robust intracellular metabolite extraction protocol for human neutrophil metabolic profiling. <i>PLoS ONE</i> , 2018, 13, e0209270.	1.1	13
29	Structure-Based Design of Versatile Biosensors for Small Molecules Based on the PAS Domain of a Thermophilic Histidine Kinase. <i>ACS Synthetic Biology</i> , 2018, 7, 2888-2897.	1.9	7
30	Inhibitory Effect of Methotrexate on Rheumatoid Arthritis Inflammation and Comprehensive Metabolomics Analysis Using Ultra-Performance Liquid Chromatography-Quadrupole Time of Flight-Mass Spectrometry (UPLC-Q/TOF-MS). <i>International Journal of Molecular Sciences</i> , 2018, 19, 2894.	1.8	33
31	Human Breast Milk NMR Metabolomic Profile across Specific Geographical Locations and Its Association with the Milk Microbiota. <i>Nutrients</i> , 2018, 10, 1355.	1.7	74
32	900MHz ¹ H/ ¹³ C-NMR analysis of 2-hydroxyglutarate and other brain metabolites in human brain tumor tissue extracts. <i>PLoS ONE</i> , 2018, 13, e0203379.	1.1	8
33	Comment on METLIN: A Technology Platform for Identifying Knowns and Unknowns. <i>Analytical Chemistry</i> , 2018, 90, 13126-13127.	3.2	5
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37	The proteomic and metabolomic characterization of exercise-induced sweat for human performance monitoring: A pilot investigation. <i>PLoS ONE</i> , 2018, 13, e0203133.	1.1	36
38	Quantification of phenolic acid metabolites in humans by LC-MS: a structural and targeted metabolomics approach. <i>Bioanalysis</i> , 2018, 10, 1591-1608.	0.6	20

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40	Serum Metabolomics Analysis of Asthma in Different Inflammatory Phenotypes: A Cross-Sectional Study in Northeast China. <i>BioMed Research International</i> , 2018, 2018, 1-14.	0.9	29
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43	Intervention effect of Qi-Yu-San-Long Decoction on Lewis lung carcinoma in C57BL/6 mice: Insights from UPLC-QTOF/MS-based metabolic profiling. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1102-1103, 23-33.	1.2	25
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50	From Plant Compounds to Botanicals and Back: A Current Snapshot. <i>Molecules</i> , 2018, 23, 1844.	1.7	101
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52	Chemoselective Probe Containing a Unique Bioorthogonal Cleavage Site for Investigation of Gut Microbiota Metabolism. <i>Angewandte Chemie</i> , 2018, 130, 14001-14005.	1.6	8
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61	Progress in Metabonomics of Type 2 Diabetes Mellitus. <i>Molecules</i> , 2018, 23, 1834.	1.7	44
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112	Metabolomic Studies of Tissue Injury in Nonhuman Primates Exposed to Gamma-Radiation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3360.	1.8	23
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1863	Recent Advances in Understanding of Alzheimer's Disease Progression Through Mass Spectrometry-Based Metabolomics. <i>Phenomics</i> , 2022, 2, 1-17.	0.9	10
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1865	Plasma Metabolite Profiles of Red Meat, Poultry, and Fish Consumption, and Their Associations with Colorectal Cancer Risk. <i>Nutrients</i> , 2022, 14, 978.	1.7	8
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1883	Methane emissions and rumen metabolite concentrations in cattle fed two different silages. <i>Scientific Reports</i> , 2022, 12, 5441.	1.6	9
1884	Cryo-EM structures reveal multiple stages of bacterial outer membrane protein folding. <i>Cell</i> , 2022, 185, 1143-1156.e13.	13.5	45
1885	A toolbox to study metabolic status of <i>Drosophila melanogaster</i> larvae. <i>STAR Protocols</i> , 2022, 3, 101195.	0.5	5
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1892	Investigating Casual Associations Among Gut Microbiota, Metabolites, and Neurodegenerative Diseases: A Mendelian Randomization Study. <i>Journal of Alzheimer's Disease</i> , 2022, 87, 211-222.	1.2	43
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1895	Fluxomics - New Metabolomics Approaches to Monitor Metabolic Pathways. <i>Frontiers in Pharmacology</i> , 2022, 13, 805782.	1.6	17
1896	Antimicrobial Treatment Options for Difficult-to-Treat Resistant Gram-Negative Bacteria Causing Cystitis, Pyelonephritis, and Prostatitis: A Narrative Review. <i>Drugs</i> , 2022, 82, 407-438.	4.9	4
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1903	NMR Spectroscopy Identifies Chemicals in Cigarette Smoke Condensate That Impair Skeletal Muscle Mitochondrial Function. <i>Toxics</i> , 2022, 10, 140.	1.6	7
1904	Metabolic Adaptations in an Endocrine-Related Breast Cancer Mouse Model Unveil Potential Markers of Tumor Response to Hormonal Therapy. <i>Frontiers in Oncology</i> , 2022, 12, 786931.	1.3	1
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1909	A Resourceful Race: Bacterial Scavenging of Host Sulfur Metabolism during Colonization. <i>Infection and Immunity</i> , 2022, , e0057921.	1.0	0
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1913	Comparison of Two Automated Targeted Metabolomics Programs to Manual Profiling by an Experienced Spectroscopist for 1H-NMR Spectra. <i>Metabolites</i> , 2022, 12, 227.	1.3	1
1914	Prediction of Low-Dose Aspirin-Induced Gastric Toxicity Using Nuclear Magnetic Resonance Spectroscopy-Based Pharmacometabolomics in Rats. <i>Molecules</i> , 2022, 27, 2126.	1.7	1
1915	Plasma proteomic and metabolomic characterization of COVID-19 survivors 6 months after discharge. <i>Cell Death and Disease</i> , 2022, 13, 235.	2.7	21
1916	Improving confidence in lipidomic annotations by incorporating empirical ion mobility regression analysis and chemical class prediction. <i>Bioinformatics</i> , 2022, 38, 2872-2879.	1.8	5
1917	Exhaled metabolic markers and relevant dysregulated pathways of lung cancer: a pilot study. <i>Annals of Medicine</i> , 2022, 54, 790-802.	1.5	9
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1923	A mixture of innate cryoprotectants is key for freeze tolerance and cryopreservation of a drosophilid fly larva. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	9
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1925	Uncovering the interference from lipid fragments on the qualification and quantification of serum metabolites in matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9293.	0.7	1
1926	Logistic role of carnitine shuttle system on radiation-induced L-carnitine and acylcarnitines alteration. <i>International Journal of Radiation Biology</i> , 2022, 98, 1595-1608.	1.0	2
1927	Metabolomics-based phenotypic screens for evaluation of drug synergy via direct-infusion mass spectrometry. <i>IScience</i> , 2022, 25, 104221.	1.9	8
1928	<i>In Silico</i> Collision Cross Section Calculations to Aid Metabolite Annotation. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 750-759.	1.2	11
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1930	Intermittent prednisone treatment in mice promotes exercise tolerance in obesity through adiponectin. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	7
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1933	Metabonomics analysis reveals the protective effect of nano-selenium against heat stress of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Proteomics</i> , 2022, 259, 104545.	1.2	13
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1935	Single cell mass spectrometry studies reveal metabolomic features and potential mechanisms of drug-resistant cancer cell lines. <i>Analytica Chimica Acta</i> , 2022, 1206, 339761.	2.6	13
1936	Time-dependent influence of high glucose environment on the metabolism of neuronal immortalized cells. <i>Analytical Biochemistry</i> , 2022, 645, 114607.	1.1	1
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1939	Non-targeted metabolomics revealing the effects of bisphenol analogues on human liver cancer cells. <i>Chemosphere</i> , 2022, 297, 134088.	4.2	8
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1941	On the use of nuclear magnetic resonance spectroscopy in music composition- principles, practice and possibilities. <i>Journal of New Music Research</i> , 2021, 50, 487-501.	0.6	1
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1943	Urinary organic acids spectra in children with altered gut microbiota composition and autistic spectrum disorder. <i>Nordic Journal of Psychiatry</i> , 2022, 76, 523-529.	0.7	8
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1945	¹ H-Nuclear Magnetic Resonance Analysis of Urine as Diagnostic Tool for Organic Acidemias and Aminoacidopathies. <i>Metabolites</i> , 2021, 11, 891.	1.3	6
1946	The Potential Role of Phytonutrients Flavonoids Influencing Gut Microbiota in the Prophylaxis and Treatment of Inflammatory Bowel Disease. <i>Frontiers in Nutrition</i> , 2021, 8, 798038.	1.6	25
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1949	Mass Spectrometry as a Crucial Analytical Basis for Omics Sciences. <i>Journal of Analytical Chemistry</i> , 2021, 76, 1567-1587.	0.4	9
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1953	The metabolic landscape in chronic rotator cuff tear reveals tissueâ€regionâ€specific signatures. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 532-543.	2.9	7
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1962	Multi-Omic Approaches to Identify Genetic Factors in Metabolic Syndrome. , 2021, 12, 3045-3084.		4
1963	Impacts of Enriched Human Milk Cells on Fecal Metabolome and Gut Microbiome of Premature Infants with Stage I Necrotizing Enterocolitis: A Pilot Study. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2100342.	1.5	4
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1965	MODOMICS: a database of RNA modification pathways. 2021 update. <i>Nucleic Acids Research</i> , 2022, 50, D231-D235.	6.5	374
1966	Regional Brain Analysis of Modified Amino Acids and Dipeptides during the Sleep/Wake Cycle. <i>Metabolites</i> , 2022, 12, 21.	1.3	5
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