

Resource Summary Report

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xMSanalyzer

RRID:SCR_012144

Type: Tool

Proper Citation

xMSanalyzer (RRID:SCR_012144)

Resource Information

URL: <http://xmsanalyzer.sourceforge.net>

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Description: A software package of utilities for data extraction, quality control assessment, detection of overlapping and unique metabolites in multiple datasets, and batch annotation of metabolites. xMSanalyzer comprises of utilities that can be classified into five main modules: 1) merging apLCMS or XCMS sample processing results from multiple sets of parameter settings, 2) evaluation of sample quality, feature consistency, and batch-effect, 3) feature matching, and 4) characterization of m/z using KEGG REST; 5) Batch-effect correction using ComBat.

Resource Type: software resource

Defining Citation: [PMID:23323971](#)

Keywords: software package, mac os x, unix/linux, windows, r

Availability: GNU General Public License

Resource Name: xMSanalyzer

Resource ID: SCR_012144

Alternate IDs: OMICS_06039

Record Creation Time: 20220129T080308+0000

Record Last Update: 20260725T190730+0000

Ratings and Alerts

No rating or validation information has been found for xMSanalyzer.

No alerts have been found for xMSanalyzer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 81 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Gacasan CA, et al. (2026) Lactococcus lactis subsp. Cremoris reprograms systemic metabolism and protects against myocardial injury. Gut microbes, 18(1), 2609426.

Holzhausen EA, et al. (2025) Prenatal Nitrogen Oxide (NOx) and Its Potential Impact on Infant Metabolism during the First Month of Life: Evidence from Two Distinct Cohorts?The Atlanta African American Maternal-Child Cohort and the Southern California Mother's Milk Study. Environmental science & technology, 59(36), 19131.

Hüls A, et al. (2025) Metabolic dysregulation in Alzheimer's disease: A brain metabolomics approach. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(9), e70528.

Weinberg J, et al. (2025) Mammalian hydroxylation of microbiome-derived obesogen, delta-valerobetaine, to homocarnitine, a 5-carbon carnitine analog. The Journal of biological chemistry, 301(1), 108074.

Qiu C, et al. (2025) Dysregulated maternal and newborn fatty acid, sugar and amino acid metabolism associated with high birth weight. International journal of obesity (2005), 49(7), 1345.

Baumert BO, et al. (2025) Translational framework linking perfluoroheptanoic acid (PFHpA) exposure to metabolic dysfunction associated steatotic liver disease in adolescents. Communications medicine, 5(1), 430.

Collins JM, et al. (2025) Pharmacometabolomics in TB meningitis-Understanding the pharmacokinetic, metabolic, and immune factors associated with anti-TB drug concentrations in cerebrospinal fluid. PloS one, 20(3), e0315999.

Pan S, et al. (2025) Metabolic Signatures in Adipose Tissue Linking Lipophilic Persistent Organic Pollutant Mixtures to Blood Pressure Five Years After Bariatric Surgery Among Adolescents. Environmental science & technology, 59(9), 4364.

Llada IM, et al. (2025) Impact of Low-Level Ergot Alkaloids and Endophyte Presence in Tall Fescue Grass on the Metabolome and Microbiome of Fall-Grazing Steers. Toxins, 17(5).

Liu T, et al. (2025) Evaluating urinary metabolic profiles with wildland-urban-interface (wui) fire exposure among male firefighters: a comparison with municipal structure fires (msf). Environmental health : a global access science source, 24(1), 88.

Taibl KR, et al. (2025) Critical windows of prenatal heat exposure and preterm birth: Metabolomic study in the Atlanta African American Maternal-Child Cohort. *Science advances*, 11(47), eadw8328.

Midya V, et al. (2025) Exposure to per- and poly-fluoroalkyl substances in association to later occurrence of type 2 diabetes and metabolic pathway dysregulation in a multiethnic US population. *EBioMedicine*, 118, 105838.

Puvvula J, et al. (2025) Global metabolomic alterations associated with endocrine-disrupting chemicals among pregnant individuals and newborns. *Metabolomics : Official journal of the Metabolomic Society*, 21(1), 20.

Kwon OW, et al. (2024) Korean Red Ginseng and Rb1 restore altered social interaction, gene expressions in the medial prefrontal cortex, and gut metabolites under post-weaning social isolation in mice. *Journal of ginseng research*, 48(5), 481.

Holzhausen EA, et al. (2024) Prenatal and Early Life Exposure to Ambient Air Pollutants Is Associated with the Fecal Metabolome in the First Two Years of Life. *Environmental science & technology*, 58(32), 14121.

Islam SJ, et al. (2024) Metabolomic signatures of ideal cardiovascular health in black adults. *Scientific reports*, 14(1), 1794.

Sivalogan K, et al. (2024) Human Milk Composition Is Associated with Maternal Body Mass Index in a Cross-Sectional, Untargeted Metabolomics Analysis of Human Milk from Guatemalan Mothers. *Current developments in nutrition*, 8(5), 102144.

Criswell RL, et al. (2024) Associations of per- and polyfluoroalkyl substances with human milk metabolomic profiles in a rural North American cohort. *Environmental epidemiology (Philadelphia, Pa.)*, 8(6), e352.

Curtis MA, et al. (2023) Developmental pyrethroid exposure disrupts folate metabolism in mouse brain. *bioRxiv : the preprint server for biology*.

Cohen CC, et al. (2023) Metabolome × Microbiome Changes Associated with a Diet-Induced Reduction in Hepatic Fat among Adolescent Boys. *Metabolites*, 13(3).