

# Resource Summary Report

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## xMSanalyzer

RRID:SCR\_012144

Type: Tool

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### Proper Citation

xMSanalyzer (RRID:SCR\_012144)

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### Resource Information

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

**Proper Citation:** xMSanalyzer (RRID:SCR\_012144)

**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

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### Ratings and Alerts

No rating or validation information has been found for xMSanalyzer.

No alerts have been found for xMSanalyzer.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 81 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

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

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.

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.

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.

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).

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.

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.

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.

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*.

Holzhausen EA, et al. (2023) Longitudinal profiles of the fecal metabolome during the first 2 years of life. *Scientific reports*, 13(1), 1886.