

# 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:** 20260815T182429+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 90 mentions in open access literature.

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

Mousavian Z, et al. (2026) A multi-omics study reveals pathway-level insights and predictive biomarkers in pediatric TB. *Clinical proteomics*, 23(1).

Hoffman JM, et al. (2026) Sex-Specific Regulation of the Turandot Gene Family Modulates Temperature-Dependent Lifespan in *Drosophila melanogaster*. *Aging cell*, 25(6), e70564.

Tug T, et al. (2026) DEVELOPMENT AND APPLICATION OF BRAIN TISSUE BASED MULTI-OMICS PROFILE SCORES FOR ALZHEIMER'S DISEASE. *Research square*.

Kang G, et al. (2026)  $\dot{V}_{O_{2max}}$ -based all-out aerobic exercise attenuates hexosamine biosynthetic pathway activity: Metabolomic insights in mice model. *Experimental physiology*, 111(7), 3253.

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

Collins JM, et al. (2026) Infection with *Mycobacterium tuberculosis* depletes host fatty acids in humans and non-human primates. *EBioMedicine*, 125, 106193.

Mehta N, et al. (2026) High-resolution metabolomic analysis of stool reveals expanded biomarkers of *C. difficile* colitis and insights into pathophysiology. *Microbiology spectrum*, 14(6), e0282625.

Kalbasi TR, et al. (2026) Serum metabolomics in early pregnancy differentiates between gestational hypertension and preeclampsia. *BMC pregnancy and childbirth*, 26(1).

Qiu C, et al. (2026) Novel amino acid and fatty acid signatures linked to type 2 diabetes risk after gestational diabetes mellitus. *Cardiovascular diabetology*, 25(1).

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.

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.

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.

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.

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.

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.

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.

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.

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).