Resource Summary Report

Generated by RRID on Apr 14, 2025

xMSanalyzer

RRID:SCR_012144
Type: Tool

Proper Citation

xMSanalyzer (RRID:SCR_012144)

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

Funding:

Availability: GNU General Public License

Resource Name: xMSanalyzer

Resource ID: SCR_012144

Alternate IDs: OMICS_06039

Record Creation Time: 20220129T080308+0000

Record Last Update: 20250410T070231+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 70 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.

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.

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.

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.

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.

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

Curtis MA, et al. (2023) Developmental pyrethroid exposure disrupts folate metabolism in

mouse brain. bioRxiv : the preprint server for biology.

Kossack ME, et al. (2023) Environmentally relevant uptake, elimination, and metabolic changes following early embryonic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in zebrafish. Chemosphere, 310, 136723.

Smith MR, et al. (2023) Study on the relationship between selenium and cadmium in diseased human lungs. Advances in redox research : an official journal of the Society for Redox Biology and Medicine and the Society for Free Radical Research-Europe, 7.

Sardar SW, et al. (2023) Identification of Novel Biomarkers for Early Diagnosis of Atherosclerosis Using High-Resolution Metabolomics. Metabolites, 13(11).

Teeny S, et al. (2023) Third Trimester Serum Amino Acid Metabolism is Associated with Maternal Breast Cancer Diagnosed within 15 years of Pregnancy. Research square.

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

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

Liang D, et al. (2023) Metabolic Perturbations Associated with an Exposure Mixture of Per- and Polyfluoroalkyl Substances in the Atlanta African American Maternal-Child Cohort. Environmental science & technology, 57(43), 16206.

Chicas RC, et al. (2023) The impact of heat exposures on biomarkers of AKI and plasma metabolome among agricultural and non-agricultural workers. Environment international, 180, 108206.

Paquette SE, et al. (2023) Evaluation of Neural Regulation and Microglial Responses to Brain Injury in Larval Zebrafish Exposed to Perfluorooctane Sulfonate. Environmental health perspectives, 131(11), 117008.

Walker DI, et al. (2022) High-Resolution Exposomics and Metabolomics Reveals Specific Associations in Cholestatic Liver Diseases. Hepatology communications, 6(5), 965.

Dusza HM, et al. (2022) Uptake, Transport, and Toxicity of Pristine and Weathered Micro- and Nanoplastics in Human Placenta Cells. Environmental health perspectives, 130(9), 97006.

Hood RB, et al. (2022) Length of PM2.5 exposure and alterations in the serum metabolome among women undergoing infertility treatment. Environmental epidemiology (Philadelphia, Pa.), 6(1), e191.