ChemRICH

RRID:SCR_017609
Type: Tool

Proper Citation

ChemRICH (RRID:SCR_017609)

Resource Information

URL: http://chemrich.fiehnlab.ucdavis.edu/

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Description: Software tool for chemical similarity enrichment analysis of metabolomics datasets. Used in studies to uncover biological mechanisms in organisms under genetic or environmental stress in system biology manner or finding risk factors for chronic diseases in exposome wise association studies using blood specimens. Allows users to realize pathway analysis.

Resource Type: analysis service resource, service resource, software resource, production service resource, web application

Defining Citation: PMID:29109515

Keywords: Chemical, similarity, enrichment, analysis, metabolomic, dataset, genetic, environmental, stress, risk, factor, chronic, disease, exposome, association, blood, speciment

Funding:

Availability: Free, Freely available

Resource Name: ChemRICH

Resource ID: SCR_017609

Alternate URLs: https://github.com/barupal/chemrich

Record Creation Time: 20220129T080336+0000

Record Last Update: 20250411T055951+0000

Ratings and Alerts

No rating or validation information has been found for ChemRICH.

No alerts have been found for ChemRICH.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Valdés A, et al. (2024) In vivo neuroprotective capacity of a Dunaliella salina extract - comprehensive transcriptomics and metabolomics study. NPJ science of food, 8(1), 4.

Liu A, et al. (2023) A pilot study on metabolomic characterization of human glioblastomas and patient plasma. Research square.

Germain A, et al. (2022) Plasma metabolomics reveals disrupted response and recovery following maximal exercise in myalgic encephalomyelitis/chronic fatigue syndrome. JCI insight, 7(9).

Zhu C, et al. (2022) Lipidomics for Determining Giant Panda Responses in Serum and Feces Following Exposure to Different Amount of Bamboo Shoot Consumption: A First Step towards Lipidomic Atlas of Bamboo, Giant Panda Serum and Feces by Means of GC-MS and UHPLC-HRMS/MS. International journal of molecular sciences, 23(19).

Vallee N, et al. (2021) Evidence of a hormonal reshuffle in the cecal metabolome fingerprint of a strain of rats resistant to decompression sickness. Scientific reports, 11(1), 8317.

van Vliet S, et al. (2021) A metabolomics comparison of plant-based meat and grass-fed meat indicates large nutritional differences despite comparable Nutrition Facts panels. Scientific reports, 11(1), 13828.

Yan H, et al. (2021) Huanglong Antitussive Granule Relieves Acute Asthma Through Regulating Pulmonary Lipid Homeostasis. Frontiers in pharmacology, 12, 656756.

Karlstaedt A, et al. (2021) Stable Isotopes for Tracing Cardiac Metabolism in Diseases.

Frontiers in cardiovascular medicine, 8, 734364.

Jadhav SR, et al. (2021) Utilizing the Food-Pathogen Metabolome to Putatively Identify Biomarkers for the Detection of Shiga Toxin-Producing E. coli (STEC) from Spinach. Metabolites, 11(2).

Astolfi S, et al. (2020) Single and Combined Fe and S Deficiency Differentially Modulate Root Exudate Composition in Tomato: A Double Strategy for Fe Acquisition? International journal of molecular sciences, 21(11).

de Maistre S, et al. (2020) Cecal metabolome fingerprint in a rat model of decompression sickness with neurological disorders. Scientific reports, 10(1), 15996.

Germain A, et al. (2020) Comprehensive Circulatory Metabolomics in ME/CFS Reveals Disrupted Metabolism of Acyl Lipids and Steroids. Metabolites, 10(1).

Marastoni L, et al. (2020) Changes in physiological activities and root exudation profile of two grapevine rootstocks reveal common and specific strategies for Fe acquisition. Scientific reports, 10(1), 18839.

Lucarelli G, et al. (2020) Integration of Lipidomics and Transcriptomics Reveals Reprogramming of the Lipid Metabolism and Composition in Clear Cell Renal Cell Carcinoma. Metabolites, 10(12).