Resource Summary Report

Generated by T1D on Aug 3, 2026

SwissLipids

RRID:SCR_019074
Type: Tool

Proper Citation

SwissLipids (RRID:SCR_019074)

Resource Information

URL: https://www.swisslipids.org/

Proper Citation: SwissLipids (RRID:SCR_019074)

Description: Expert curated resource that provides framework for integration of lipid and lipidomic data with biological knowledge and models. Provides curated knowledge of lipid structures and metabolism which is used to generate in silico library of feasible lipid structures. These are arranged in hierarchical classification that links mass spectrometry analytical outputs to all possible lipid structures, metabolic reactions and enzymes. Provides reference namespace for lipidomic data publication, data exploration and hypothesis generation.

Resource Type: database, data or information resource

Defining Citation: DOI:10.1093/bioinformatics/btv285

Keywords: Lipid, lipidomic data, curated lipid data, lipid structure, lipid metabolism, mass spectrometry analytical output, refernce namespace, lipidomic data publication, hypothesis generation

Funding: Swiss Federal Government ;
SystemsX.ch

Availability: Free, Freely available

Resource Name: SwissLipids

Resource ID: SCR_019074

Alternate IDs: r3d100012603

Alternate URLs: https://doi.org/10.17616/R3TZ18

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260803T040804+0000

Ratings and Alerts

No rating or validation information has been found for SwissLipids.

No alerts have been found for SwissLipids.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Ma Y, et al. (2025) Evaluating the association between lipidome and female reproductive diseases through comprehensive Mendelian randomization analyses. Scientific reports, 15(1), 2448.

Gu C, et al. (2025) Nanoneedles enable spatiotemporal lipidomics of living tissues. Nature nanotechnology, 20(9), 1262.

Tabassum R, et al. (2024) Polygenic scores for complex traits are associated with changes in concentration of circulating lipid species. PLoS biology, 22(9), e3002830.

Witting M, et al. (2024) Challenges and perspectives for naming lipids in the context of lipidomics. Metabolomics : Official journal of the Metabolomic Society, 20(1), 15.

Moayedpour S, et al. (2024) Representations of lipid nanoparticles using large language models for transfection efficiency prediction. Bioinformatics (Oxford, England), 40(7).

Wrona M, et al. (2024) The BRAHMA-associated SWI/SNF chromatin remodeling complex controls Arabidopsis seed quality and physiology. Plant physiology, 197(1).

Zhang X, et al. (2024) The plasma lipids with different fatty acid chains are associated with the risk of hemorrhagic stroke: a Mendelian randomization study. Frontiers in neurology, 15, 1432878.

Damiani T, et al. (2023) Software and Computational Tools for LC-MS-Based Epilipidomics: Challenges and Solutions. Analytical chemistry, 95(1), 287.

Ottensmann L, et al. (2023) Genome-wide association analysis of plasma lipidome identifies 495 genetic associations. Nature communications, 14(1), 6934.

Abu Sammour D, et al. (2023) Spatial probabilistic mapping of metabolite ensembles in mass spectrometry imaging. Nature communications, 14(1), 1823.

Graindorge S, et al. (2022) The Arabidopsis thaliana-Streptomyces Interaction Is Controlled by the Metabolic Status of the Holobiont. International journal of molecular sciences, 23(21).

Ortmayr K, et al. (2022) Sorting-free metabolic profiling uncovers the vulnerability of fatty acid ?-oxidation in in vitro quiescence models. Molecular systems biology, 18(9), e10716.

Spiegel A, et al. (2022) A set of gene knockouts as a resource for global lipidomic changes. Scientific reports, 12(1), 10533.

Surma MA, et al. (2021) Mouse lipidomics reveals inherent flexibility of a mammalian lipidome. Scientific reports, 11(1), 19364.

Korduner J, et al. (2021) Proteomic and Metabolomic Characterization of Metabolically Healthy Obesity: A Descriptive Study from a Swedish Cohort. Journal of obesity, 2021, 6616983.

Reglinski K, et al. (2020) Fluidity and Lipid Composition of Membranes of Peroxisomes, Mitochondria and the ER From Oleic Acid-Induced Saccharomyces cerevisiae. Frontiers in cell and developmental biology, 8, 574363.