

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

[LION/web](#)

RRID:SCR_017018

Type: Tool

Proper Citation

LION/web (RRID:SCR_017018)

Resource Information

URL: <http://www.lipidontology.com>

Proper Citation: LION/web (RRID:SCR_017018)

Description: Web based ontology enrichment tool for lipidomic data analysis. Used for lipidomics to search for enriched LION-terms in lipidomic subsets. LION-terms contain detailed lipid classification by LIPIDMAPS, biophysical data, lipid functions and organelle associations. Freely accessible in a platform independent way.

Abbreviations: Lipid Ontology (LION)

Synonyms: The Lipid Ontology (LION), Lipid Ontology, Lipid ONtology (LION), Lipid ONtology, LION

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

Defining Citation: [DOI:10.1101/398040](https://doi.org/10.1101/398040)

Keywords: lipid, ontology, enrichment, lipidomic, data, analysis, biophysical

Availability: Free, Freely available

Resource Name: LION/web

Resource ID: SCR_017018

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260821T194101+0000

Ratings and Alerts

No rating or validation information has been found for LION/web.

No alerts have been found for LION/web.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Xia C, et al. (2026) Natural photosynthetic system for restoring homeostasis of animal organelle interaction network. Nature communications, 17(1).

Shi Y, et al. (2026) CRISPLD2 Attenuates Intervertebral Disc Degeneration by Suppressing Oxidative Stress-Induced Ferroptosis through the miR-548I-IL17A Axis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(16), e16477.

Matafora V, et al. (2026) BACE2 tunes lipid uptake through lipid transporters shedding supporting cancer cell proliferation. Journal of experimental & clinical cancer research : CR.

Kaminska M, et al. (2026) Heterogeneity in lysosomal dynamics and metabolic functions along the kidney proximal tubule. Nature communications, 17(1).

Cerveró-Varona A, et al. (2025) Amniotic epithelial Cell microvesicles uptake inhibits PBMCs and Jurkat cells activation by inducing mitochondria-dependent apoptosis. iScience, 28(2), 111830.

Wang N, et al. (2025) Neuronal ABCA7 deficiency aggravates mitochondrial dysfunction and neurodegeneration in Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(3), e70112.

García-Toledo I, et al. (2025) TDP-43 dysregulation impairs cholesterol metabolism linked with myelination defects. Acta neuropathologica, 150(1), 23.

Hehner J, et al. (2025) Dengue virus is particularly sensitive to interference with long-chain fatty acid elongation and desaturation. The Journal of biological chemistry, 301(3), 108222.

Porto NS, et al. (2025) Exploring 6-aza-2-Thiothymine as a MALDI-MSI Matrix for Spatial Lipidomics of Formalin-Fixed Paraffin-Embedded Clinical Samples. Metabolites, 15(8).

Maiorino T, et al. (2025) The Non-Coding Regulatory Variant rs2863002 at chr11p11.2 Increases Neuroblastoma Risk by Affecting HSD17B12 Expression and Lipid Metabolism. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(33), e15181.

Jiang D, et al. (2025) Let-7f-5p Inhibits PRRSV Replication by Regulating Lipid Metabolic Reprogramming in Infected Cells. *Veterinary sciences*, 12(12).

Sun K, et al. (2025) Glycolysis-Derived Lactate Induces ACSL4 Expression and Lactylation to Activate Ferroptosis during Intervertebral Disc Degeneration. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(21), e2416149.

Iftesum M, et al. (2025) Cardiolipin Remodeling as a Regulatory Switch in Osteogenesis: Insights from Multimodal Metabolic Imaging and Molecular Profiling. *bioRxiv : the preprint server for biology*.

Li MY, et al. (2025) A self-assembled nano micelle-exosome with high selectivity and penetrability achieves precise intracartilage lipid delivery. *Science advances*, 11(49), eadv8999.

Zhao W, et al. (2025) D-Mannose-Mediated metabolic pathways sustain the molecular signatures of sperm function and fertilization. *Journal of advanced research*, 76, 251.

McElroy JP, et al. (2025) Lung lipids associated with smoking and ECIG use in a cross-sectional study and clinical trial. *Respiratory research*, 26(1), 193.

Zhang Q, et al. (2024) Serum Metabolomic and Lipidomic Profiling Reveals the Signature for Postoperative Obesity among Adult-Onset Craniopharyngioma. *Metabolites*, 14(6).

Klag KA, et al. (2024) Low-Iron Diet-Induced Fatty Liver Development Is Microbiota Dependent and Exacerbated by Loss of the Mitochondrial Iron Importer Mitoferrin2. *Nutrients*, 16(12).

Perpiñá-Clérigues C, et al. (2024) Novel insight into the lipid network of plasma extracellular vesicles reveal sex-based differences in the lipidomic profile of alcohol use disorder patients. *Biology of sex differences*, 15(1), 10.

Bond A, et al. (2024) Broiler breeder putative lipid biomarkers associated with sperm mobility. *Frontiers in physiology*, 15, 1504557.