

Resource Summary Report

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Lipid Droplet Knowledge Portal

RRID:SCR_021650

Type: Tool

Proper Citation

Lipid Droplet Knowledge Portal (RRID:SCR_021650)

Resource Information

URL: <http://lipiddroplet.org/>

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Description: Interactive portal provides datasets, across variety of cell types, for LD biology, including transcriptional profiles of induced lipid storage, organellar proteomics, genome-wide screen phenotypes, and ties to human genetics. Provides comprehensive picture of genes and pathways affecting lipid droplet biology, including gene expression, proteomics, and LD morphology phenotypes, by integrating multiple relevant data types.

Resource Type: data or information resource, portal, project portal

Defining Citation: [DOI:10.1101/2021.06.08.447431](https://doi.org/10.1101/2021.06.08.447431)

Keywords: Genes affecting lipid droplet biology, pathways affecting lipid droplet biology, lipid droplet biology, transcriptional profiles, induced lipid storage, organellar proteomics, genome wide screen phenotypes, gene expression, LD morphology phenotypes

Availability: Free, Freely available

Resource Name: Lipid Droplet Knowledge Portal

Resource ID: SCR_021650

Record Creation Time: 20220129T080356+0000

Record Last Update: 20260814T043034+0000

Ratings and Alerts

No rating or validation information has been found for Lipid Droplet Knowledge Portal.

No alerts have been found for Lipid Droplet Knowledge Portal.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Liu C, et al. (2026) Seipin-Mediated Lipid Droplet Formation in Cardiomyocytes Ameliorates Cardiac Ischemia/Reperfusion Injury. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(6), e10203.

Mallia A, et al. (2025) Decoding the Lipid Droplet Proteome: New Frontiers in Cardiovascular Disease Research. *International journal of molecular sciences*, 26(21).

Ibayashi M, et al. (2025) Methods for Analyzing Lipid Droplets in Mammalian Oocytes and Fertilized Embryos. *Reproductive medicine and biology*, 24(1), e70002.

Cai R, et al. (2024) Construction of a novel lipid drop-mitochondria-associated genetic profile for predicting the survival and prognosis of lung adenocarcinoma. *Discover oncology*, 15(1), 668.

Ibayashi M, et al. (2024) Perilipin2 depletion causes lipid droplet enlargement in the ovarian corpus luteum in mice. *The Journal of reproduction and development*, 70(5), 296.

Ibayashi M, et al. (2024) Lipid droplet biogenesis in the ovary. *Reproductive medicine and biology*, 23(1), e12618.

Song J, et al. (2022) Identification of two pathways mediating protein targeting from ER to lipid droplets. *Nature cell biology*, 24(9), 1364.

Mejhert N, et al. (2022) The Lipid Droplet Knowledge Portal: A resource for systematic analyses of lipid droplet biology. *Developmental cell*, 57(3), 387.

Yoon H, et al. (2021) Lipid metabolism in sickness and in health: Emerging regulators of lipotoxicity. *Molecular cell*, 81(18), 3708.