

Resource Summary Report

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CalR

RRID:SCR_015849

Type: Tool

Proper Citation

CalR (RRID:SCR_015849)

Resource Information

URL: <https://CalRapp.org>

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Description: A Web-based Analysis Tool for Indirect Calorimetry Experiments which measure physiological energy balance. It is a web application for indirect calorimetry analysis which generates customizable time, bar and regression plots for calorimetry data using two-, three-, and four-group templates.

Synonyms: A Web Application for Indirect Calorimetry Analysis

Resource Type: software application, web application, data analysis software, software resource, data processing software, data visualization software

Defining Citation: [DOI:10.1101/213967](https://doi.org/10.1101/213967)

Keywords: indirect, calorimetry, analysis, visualization, energy, balance, food intake, energy expenditure, metabolism, metabolic phenotyping, CLAMS, PhenoMaster, Prometheon, biostatistics, ANCOVA, reproducibility, Columbus Instruments, Sable Systems, TSE

Funding: Mouse Metabolic Phenotyping Center ;
Harvard Digestive Disease Center ;
NIDDK

Availability: Freely available, Public

Resource Name: CalR

Resource ID: SCR_015849

Old URLs: <https://calrapp.org>

Record Creation Time: 20220129T080327+0000

Ratings and Alerts

No rating or validation information has been found for CalR.

No alerts have been found for CalR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 196 mentions in open access literature.

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

Ritchie TM, et al. (2025) The impact of oral cannabis consumption during pregnancy on maternal spiral artery remodelling, fetal growth and offspring behaviour in mice. EBioMedicine, 114, 105572.

Chen S, et al. (2025) Myristoylated Eepd1 Enhances Lipolysis and Thermogenesis through PKA Activation to Combat Obesity. Nature communications, 16(1), 651.

Lv Y, et al. (2025) CD14^{lo}CD301b⁺ macrophages gathering as a proangiogenic marker in adipose tissues. Journal of lipid research, 66(1), 100720.

Feng K, et al. (2025) Adipocyte CLDN5 promotes thermogenesis and energy expenditure through regulation of IL10 expression. Nature communications, 16(1), 6151.

Park BI, et al. (2025) Hyperinsulinemia-induced upregulation of adipocyte TPH2 contributes to peripheral serotonin production, metabolic dysfunction, and obesity. The Journal of clinical investigation, 135(14).

Liu X, et al. (2025) Peroxisomal metabolism of branched fatty acids regulates energy homeostasis. Nature, 646(8087), 1223.

Peng C, et al. (2025) Macrophage SUCRA2 coupled glutaminolysis manipulates obesity through AMPK. Nature communications, 16(1), 1738.

McCall CP, et al. (2025) Heterozygous GAA knockout is nonconsequential on metabolism and the spatial liver transcriptome in high-fat diet-induced obese and prediabetic mice. Physiological reports, 13(6), e70276.

Zhang Y, et al. (2025) Sex Differences in Ketogenic Diet Response Reveal Gonadal Hormone Interaction With FGF21 in Mice. Journal of the Endocrine Society, 9(10), bvaf131.

Naseer S, et al. (2025) Differential regulation of mTORC2 signalling by type I and type II calreticulin (CALR) driver mutations of myeloproliferative neoplasm. *Cell communication and signaling : CCS*, 23(1), 221.

Ismaeel A, et al. (2025) microRNA-1 regulates metabolic flexibility by programming adult skeletal muscle pyruvate metabolism. *Molecular metabolism*, 98, 102182.

Tiryaki TO, et al. (2025) CalR and MPL Driver Mutations and Their Role in the Diagnosis and Clinical Course of JAK2-Unmutated Chronic Myeloproliferative Neoplasm: Results from a Pilot Single-Center Study. *Medicina (Kaunas, Lithuania)*, 61(6).

Ranea-Robles P, et al. (2025) Time-Resolved Effects of Short-term Overfeeding on Energy Balance in Mice. *Diabetes*, 74(4), 502.

Lin Y, et al. (2025) Multi-miRNAs-Mediated Hepatic Lepr Axis Suppression: A Pparg-Dicer1 Pathway-Driven Mechanism in Spermatogenesis for the Intergenerational Transmission of Paternal Metabolic Syndrome. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(9), e2410831.

Varghese A, et al. (2025) Unravelling cysteine-deficiency-associated rapid weight loss. *Nature*, 643(8072), 776.

Felix JB, et al. (2025) N-acetylaspartate from fat cells regulates postprandial body temperature. *Nature metabolism*, 7(8), 1524.

Ji X, et al. (2025) PNPLA7 mediates Parkin-mitochondrial recruitment in adipose tissue for mitophagy and inhibits browning. *Nature communications*, 16(1), 6651.

Castelblanco E, et al. (2025) Restoration of pancreatic beta cell identity and autophagy in KATP-induced diabetes by intermittent fasting. *Diabetologia*, 68(12), 2781.

Agarwal N, et al. (2025) Liver-specific Expression of HIV-1 Viral Protein R Causes Hepatic Steatosis and Glucose Intolerance in Male Mice. *Journal of the Endocrine Society*, 9(10), bvaf132.

Auger C, et al. (2025) Mitochondrial control of fuel switching via carnitine biosynthesis. *bioRxiv : the preprint server for biology*.