

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

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

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

Funding: Harvard Digestive Disease Center ;
Mouse Metabolic Phenotyping 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 228 mentions in open access literature.

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

Chini J, et al. (2026) CD9 regulates macrophage-mediated remodeling of adipose tissue in obesity. JCI insight, 11(6).

So J, et al. (2026) Serum Response Factor (SRF) promotes actin cytoskeletal organization in adipocytes to support adaptive hypertrophic expansion and tissue remodeling during obesity in mice. Metabolism: clinical and experimental, 178, 156548.

Moscalu A, et al. (2026) Sleeve gastrectomy protects lean mice from future obesity. bioRxiv : the preprint server for biology.

Zhang Y, et al. (2026) Loss of TMEM65 in mice causes mitochondrial disease mediated by mitochondrial Ca²⁺. Nature communications, 17(1).

Sood A, et al. (2026) GFRAL is required to mediate changes in systemic metabolism in response to mitochondrial stress in brown adipose tissue. Journal of molecular medicine (Berlin, Germany), 104(1).

A M, et al. (2026) Irisin ameliorates obesity and insulin resistance via adipose tissue IL-33 and regulatory T cells. Nature metabolism, 8(4), 885.

Xue J, et al. (2026) WAT-to-BAT communication facilitates the sustained activation of BAT thermogenesis during cold exposure. Cell discovery, 12(1).

Kaur D, et al. (2026) Epithelial TMPRSS2 impairs glucose homeostasis in obese mice by regulating ghrelin-GLP-1 receptor signaling pathway. JCI insight, 11(9).

El-Merahbi R, et al. (2026) Endothelial ADGRF5(GPR116) governs vascular adaptation required for sustained thermogenic remodeling of brown adipose tissue. Molecular metabolism, 107, 102346.

Lieu CV, et al. (2026) The plant hormone, 6-benzylaminopurine, ameliorates obesity in male and female mice while on a high-fat diet. Molecular metabolism, 108, 102366.

Marinescu AM, et al. (2026) The nucleus accumbens shell regulates hedonic feeding via a rostral hotspot. *eLife*, 14.

Nnyamah C, et al. (2026) Adipocyte-specific FFA2 deletion leads to increased adipose inflammation and is associated with altered intestinal lipid handling in mice. *Physiological reports*, 14(9), e70875.

Weigel C, et al. (2026) SPNS2 exports sphingosine-1-phosphate and imports glucose. *Nature communications*, 17(1).

Milan M, et al. (2026) Time-restricted feeding rejuvenates cerebrovascular function and preserves cognition during aging. *Research square*.

Spann RA, et al. (2026) FGF21 signals through hindbrain neurons to alter food intake and energy expenditure during dietary protein restriction. *Cell reports*, 45(4), 117218.

Caballero A, et al. (2026) Maternal obesity remodels nutrient transport transcriptional programs in early mouse embryonic and extraembryonic cell lineages. *Molecular metabolism*, 108, 102375.

Shetty S, et al. (2026) Disruption of Pre-Bötzinger Complex neuropeptidergic tonality controls fear and metabolic response. *bioRxiv : the preprint server for biology*.

Moura-Assis A, et al. (2026) Identification of a thermogenic target in the dorsal raphe nucleus for weight management in mice. *Nature communications*, 17(1), 1295.

Jiang H, et al. (2026) Leucine catabolic enzyme AUH regulates BAT thermogenesis via PPAR γ HMGylation and RNA-binding function in male mice. *Nature communications*, 17(1).

Kleeman SO, et al. (2026) Ectopic NMDAR expression in cancer unmasks germline-encoded autoimmunity. *Nature*, 653(8116), 1216.