Resource Summary Report

Generated by NIF on Apr 20, 2025

CalR

RRID:SCR_015849
Type: Tool

Proper Citation

CalR (RRID:SCR_015849)

Resource Information

URL: https://CalRapp.org

Proper Citation: CalR (RRID:SCR_015849)

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

Defining Citation: DOI: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: 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

Record Last Update: 20250420T014746+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 158 mentions in open access literature.

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

Lv Y, et al. (2025) CD14loCD301b+ macrophages gathering as a proangiogenic marker in adipose tissues. Journal of lipid research, 66(1), 100720.

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

Laughlin M, et al. (2024) The mouse metabolic phenotyping center (MMPC) live consortium: an NIH resource for in vivo characterization of mouse models of diabetes and obesity. Mammalian genome : official journal of the International Mammalian Genome Society, 35(4), 485.

Ye H, et al. (2024) 27-Hydroxycholesterol acts on estrogen receptor ? expressed by POMC neurons in the arcuate nucleus to modulate feeding behavior. Science advances, 10(28), eadi4746.

Gong Z, et al. (2024) Development of a prognostic model related to homologous recombination deficiency in glioma based on multiple machine learning. Frontiers in immunology, 15, 1452097.

Chen LY, et al. (2024) RNA-binding protein YBX3 promotes PPAR?-SLC3A2 mediated BCAA metabolism fueling brown adipogenesis and thermogenesis. Molecular metabolism, 90, 102053.

Brown RDR, et al. (2024) Overexpression of ORMDL3 confers sexual dimorphism in diet-

induced non-alcoholic steatohepatitis. Molecular metabolism, 79, 101851.

Svecla M, et al. (2024) ASGR1 deficiency diverts lipids toward adipose tissue but results in liver damage during obesity. Cardiovascular diabetology, 23(1), 42.

Xiao X, et al. (2024) Aster-B-dependent estradiol synthesis protects female mice from diet-induced obesity. The Journal of clinical investigation, 134(4).

Mourad S, et al. (2024) A high-fat diet supplemented with medium-chain triglycerides ameliorates hepatic steatosis by reducing ceramide and diacylglycerol accumulation in mice. Experimental physiology, 109(3), 350.

Yang J, et al. (2024) FGF21-dependent alleviation of cholestasis-induced liver fibrosis by sodium butyrate. Frontiers in pharmacology, 15, 1422770.

Fadahunsi N, et al. (2024) Targeting postsynaptic glutamate receptor scaffolding proteins PSD-95 and PICK1 for obesity treatment. Science advances, 10(9), eadg2636.

Verkerke ARP, et al. (2024) BCAA-nitrogen flux in brown fat controls metabolic health independent of thermogenesis. Cell, 187(10), 2359.

Teramayi F, et al. (2024) Brain transcriptomic, metabolic and mitohormesis properties associated with N-propargylglycine treatment: A prevention strategy against neurodegeneration. Brain research, 1826, 148733.

Lee SY, et al. (2024) Connexin43 in mesenchymal lineage cells regulates body adiposity and energy metabolism in mice. bioRxiv : the preprint server for biology.

Rezq S, et al. (2024) MicroRNA-21 modulates brown adipose tissue adipogenesis and thermogenesis in a mouse model of polycystic ovary syndrome. Biology of sex differences, 15(1), 53.

Cilenti L, et al. (2024) Inactivation of mitochondrial MUL1 E3 ubiquitin ligase deregulates mitophagy and prevents diet-induced obesity in mice. Frontiers in molecular biosciences, 11, 1397565.

Shetty S, et al. (2024) Sex-specific role of high-fat diet and stress on behavior, energy metabolism, and the ventromedial hypothalamus. Biology of sex differences, 15(1), 55.

Mirasierra M, et al. (2024) Alx3 deficiency disrupts energy homeostasis, alters body composition, and impairs hypothalamic regulation of food intake. Cellular and molecular life sciences : CMLS, 81(1), 343.

Li Z, et al. (2024) Bone controls browning of white adipose tissue and protects from diet-induced obesity through Schnurri-3-regulated SLIT2 secretion. Nature communications, 15(1), 6697.