Resource Summary Report

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National Mouse Metabolic Phenotyping Centers

RRID:SCR_008997
Type: Tool

Proper Citation

National Mouse Metabolic Phenotyping Centers (RRID:SCR_008997)

Resource Information

URL: http://www.mmpc.org

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Description: Center mission is to advance medical and biological research by providing the scientific community with standardized, high quality metabolic and physiologic phenotyping services for mouse models of diabetes, diabetic complications, obesity and related disorders.

Abbreviations: MMPC, NIDDKMMPC

Synonyms: Mouse Metabolic Phenotyping Centers

Resource Type: data or information resource, database, service resource

Keywords: phenotype, phenotyping, metabolism, cardiovascular, gastrointestinal, endocrine, energy, analytic, blood composition, in vivo, hormone, energy balance, eating, exercise, organ function, morphology, physiology, histology, experimental protocol, assay, strain, measurement, animal husbandry, FASEB list

Related Condition: Diabetes, Obesity, Diabetic complication, Metabolic disease, Cardiovascular disease, Nephropathy, Neuropathy, Retinopathy

Funding: NIDDK U24 DK076174;
NIDDK U24 DK092993;
NIDDK U24 DK059630;
NIDDK U24 DK093000;
NIDDK U24 DK059637;
NIDDK U24 DK059635

Availability: Freely available,

Resource Name: National Mouse Metabolic Phenotyping Centers

Resource ID: SCR_008997

Alternate IDs: SCR_015358, nlx_152633

Record Creation Time: 20220129T080250+0000

Record Last Update: 20260912T195711+0000

Ratings and Alerts

No rating or validation information has been found for National Mouse Metabolic Phenotyping Centers .

No alerts have been found for National Mouse Metabolic Phenotyping Centers .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 725 mentions in open access literature.

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

Zeibak M, et al. (2026) CD59 drives diet-induced obesity and glucose intolerance, insulin resistance, and metabolic dysfunction-associated steatotic liver disease. npj metabolic health and disease, 4(1).

Hagemann TL, et al. (2026) Growth Differentiation Factor 15 Elevation in the Central Nervous System Is Associated With Failure to Thrive in Alexander Disease. Annals of clinical and translational neurology, 13(1), 144.

N??rremark MF, et al. (2026) Acyl-CoA Binding Protein in White and Brown Adipose Tissue Is Dispensable for Systemic Energy Metabolism in Mice. Acta physiologica (Oxford, England), 242(2), e70159.

Ruppert PMM, et al. (2026) Dietary sulfur amino acid restriction elicits a cold-like transcriptional response in inguinal but not epididymal white adipose tissue of male mice. eLife, 14.

Chavanelle V, et al. (2026) Differential effects of voluntary exercise and Totum-448, a plant-based formulation, in a hamster model of MASLD. Scientific reports, 16(1).

Zhao AY, et al. (2026) Lactational Western-Style Fat Exposure in Mice Programs Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD) in Male Offspring. Molecular nutrition & food research, 70(8), e70468.

Zhang GF, et al. (2026) A high-resolution mass spectrometry-based method for quantifying insulin-stimulated glucose uptake in mice following an intraperitoneal injection

of tracer. bioRxiv : the preprint server for biology.

Shahmohammadi A, et al. (2025) Enhanced Anti-Leukemic Activity of Platinum Lamivudine Compared To Lamivudine Through Differential Gene Regulation and DNA Groove Binding. Cell biochemistry and biophysics.

Strober JW, et al. (2025) Elevation of hepatic de novo lipogenesis in mice with overnutrition is dependent on multiple substrates. Journal of lipid research, 66(7), 100838.

Caiazzo S, et al. (2025) Ubiquitous expression of an activating mutation in the Pik3ca gene reprograms glucose and lipid metabolism in mice. PloS one, 20(5), e0322544.

Ahmad M, et al. (2025) Metabolic consequences of altered kidney glucose reabsorption under normoglycemic conditions. Molecular metabolism, 98, 102192.

Kellenberger A, et al. (2025) Antibiotic-induced gut microbiota depletion enhances glucose tolerance linked to GLP-1 signaling. Frontiers in endocrinology, 16, 1684155.

Philips EA, et al. (2025) Maternal obesity programs cardiac remodeling in offspring via epigenetic, metabolic, and immune dysregulations. bioRxiv : the preprint server for biology.

Silva CM, et al. (2025) Celebrating the Past, Present, and Future of NIDDK-Supported Research Centers Focused on Diabetes, Endocrinology, and Metabolic Diseases. Diabetes, 74(7), 1099.

Alharithi YJ, et al. (2025) Metabolomic and transcriptomic remodeling of bone marrow myeloid cells in response to maternal obesity. American journal of physiology. Endocrinology and metabolism, 328(2), E254.

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.

Chhabra KH, et al. (2024) ADGRL1 is a glucose receptor involved in mediating energy and glucose homeostasis. Diabetologia, 67(1), 170.

Winn NC, et al. (2024) Insulin at the intersection of thermoregulation and glucose homeostasis. Molecular metabolism, 81, 101901.

Baraghithy S, et al. (2024) 5-Methoxy-2-aminoindane Reverses Diet-Induced Obesity and Improves Metabolic Parameters in Mice: A Potential New Class of Antiobesity Therapeutics. ACS pharmacology & translational science, 7(8), 2527.

Wang R, et al. (2024) Adipocyte deletion of the oxygen-sensor PHD2 sustains elevated energy expenditure at thermoneutrality. Nature communications, 15(1), 7483.