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: The 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: biomaterial analysis service, database, service resource, data or information resource, production service resource, analysis service resource, resource, material analysis service

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;
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NIDDK U24 DK093000;
NIDDK U24 DK059637;
NIDDK U24 DK059635

Availability: Fee-for-service, Acknowledgement requested, Public

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: 20250429T055306+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 706 mentions in open access literature.

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

Phillips EA, et al. (2024) Metabolic abnormalities in the bone marrow cells of young offspring born to mothers with obesity. International journal of obesity (2005), 48(11), 1542.

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.

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

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

Besqueut-Rougerie C, et al. (2024) Voluntary exercise fails to prevent metabolic dysfunction-associated steatotic liver disease progression in male rats fed a high-fat high-cholesterol diet. Physiological reports, 12(8), e15993.

Duquenne M, et al. (2024) Tanycytic transcytosis inhibition disrupts energy balance, glucose homeostasis and cognitive function in male mice. Molecular metabolism, 87, 101996.

Alina M, et al. (2024) Metabolic abnormalities in the bone marrow cells of young offspring born to obese mothers. Research square.

Agca Y, et al. (2024) The mutant mouse resource and research center (MMRRC) consortium: the US-based public mouse repository system. Mammalian genome : official journal of the International Mammalian Genome Society, 35(4), 524.

Stamateris RE, et al. (2023) Noncanonical CDK4 signaling rescues diabetes in a mouse model by promoting ? cell differentiation. The Journal of clinical investigation, 133(18).

Riede T, et al. (2023) Post-pubertal developmental trajectories of laryngeal shape and size in humans. Scientific reports, 13(1), 7673.

MacIver B, et al. (2023) A Spectrum of Age- and Gender-Dependent Lower Urinary Tract Phenotypes in Three Mouse Models of Type 2 Diabetes. Metabolites, 13(6).

Phillips E, et al. (2023) Metabolic abnormalities in the bone marrow cells of young offspring born to obese mothers. bioRxiv : the preprint server for biology.

Igarashi M, et al. (2023) Intestinal GPR119 activation by microbiota-derived metabolites impacts feeding behavior and energy metabolism. Molecular metabolism, 67, 101649.

Karimkhanloo H, et al. (2023) Mouse strain-dependent variation in metabolic associated fatty liver disease (MAFLD): a comprehensive resource tool for pre-clinical studies. Scientific reports, 13(1), 4711.

Le TDV, et al. (2023) Fibroblast growth factor-21 is required for weight loss induced by the glucagon-like peptide-1 receptor agonist liraglutide in male mice fed high carbohydrate diets. Molecular metabolism, 72, 101718.

Abdon B, et al. (2023) Muscle-specific ER-associated degradation maintains postnatal muscle hypertrophy and systemic energy metabolism. JCI insight, 8(17).

Winn NC, et al. (2023) Insulin at the Intersection of Thermoregulation and Glucose Homeostasis. bioRxiv : the preprint server for biology.

Montaniel KRC, et al. (2022) Dipeptidyl peptidase IV inhibition delays developmental programming of obesity and metabolic disease in male offspring of obese mothers. Journal of developmental origins of health and disease, 13(6), 727.

D'Angelo CV, et al. (2022) Similarities in Calcium Oscillations Between Neonatal Mouse Islets and Mature Islets Exposed to Chronic Hyperglycemia. Endocrinology, 163(7).