Resource Summary Report

Generated by dkNET on Apr 22, 2025

International Mouse Phenotyping Consortium (IMPC)

RRID:SCR_006158
Type: Tool

Proper Citation

International Mouse Phenotyping Consortium (IMPC) (RRID:SCR_006158)

Resource Information

URL: http://www.mousephenotype.org/

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Description: Center that produces knockout mice and carries out high-throughput phenotyping of each line in order to determine function of every gene in mouse genome. These mice will be preserved in repositories and made available to scientific community representing valuable resource for basic scientific research as well as generating new models for human diseases.

Abbreviations: IKMC, IMPC

Synonyms: KOMP, KOMP-CSD, KOMP-Regeneron, IMPC - International Mouse Phenotyping Consortium, International Mouse Phenotyping Consortium, IMPC, International Mouse Phenotyping Consortium (IMPC), EUCOMM, IKMC

Resource Type: biomaterial supply resource, material resource

Defining Citation: PMID:27626380, PMID:24652767, PMID:24197666, PMID:25127743, PMID:25343444, PMID:24642684, PMID:21677750, PMID:22968824, PMID:22940749, PMID:22991088, PMID:25992600, PMID:22566555, PMID:23519032, PMID:22211970, PMID:24194600, PMID:26147094, PMID:24634472, PMID:24932005, PMID:25093073, PMID:24046361, PMID:24033988, PMID:23315689, PMID:22926223, PMID:21185382, PMID:21737429, PMID:19933761, PMID:19689210, PMID:17905814, PMID:17218247, PMID:16933996, PMID:16254554, PMID:15908916, PMID:15340423, PMID:15340424, PMID:28650954, PMID:28650483, PMID:29026089, PMID:29348434, PMID:29352221, PMID:29396915, PMID:29626206, PMID:22566555

Keywords: phenotype, phenotyping, gene, knockout mouse, knockout, genome, function,

gene function, mouse model, mutation, embryonic stem cell, genotype, disease, anatomy, procedure, image, experimental protocol, annotation, genotype-phenotype, FASEB list

Funding: NIH Office of the Director UM1 OD023222

Availability: Free, Freely available

Resource Name: International Mouse Phenotyping Consortium (IMPC)

Resource ID: SCR_006158

Alternate IDs: nlx_151660

Alternate URLs: https://www.mousephenotype.org/data/documentation/data-access

Record Creation Time: 20220129T080234+0000

Record Last Update: 20250422T055305+0000

Ratings and Alerts

No rating or validation information has been found for International Mouse Phenotyping Consortium (IMPC).

No alerts have been found for International Mouse Phenotyping Consortium (IMPC).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2405 mentions in open access literature.

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

Attanasio C, et al. (2025) Morphological phenotyping of the aging cochlea in inbred C57BL/6N and outbred CD1 mouse strains. Aging cell, 24(1), e14362.

Vo P, et al. (2025) Systematic ocular phenotyping of 8,707 knockout mouse lines identifies genes associated with abnormal corneal phenotypes. BMC genomics, 26(1), 48.

Cros A, et al. (2025) IL1R2 Acts as a Negative Regulator of Monocyte Recruitment During Inflammation. European journal of immunology, 55(1), e202451468.

Kim JM, et al. (2025) Uncovering potential causal genes for undiagnosed congenital anomalies using an in-house pipeline for trio-based whole-genome sequencing. Human

genomics, 19(1), 1.

Inskeep KA, et al. (2024) SMPD4-mediated sphingolipid metabolism regulates brain and primary cilia development. Development (Cambridge, England), 151(22).

Jones E, et al. (2024) Characterisation and prion transmission study in mice with genetic reduction of sporadic Creutzfeldt-Jakob disease risk gene Stx6. Neurobiology of disease, 190, 106363.

Lee-Ødegård S, et al. (2024) Serum proteomic profiling of physical activity reveals CD300LG as a novel exerkine with a potential causal link to glucose homeostasis. eLife, 13.

Adams DJ, et al. (2024) Genetic determinants of micronucleus formation in vivo. Nature, 627(8002), 130.

Bhattacharjee R, et al. (2024) Compromised transcription-mRNA export factor THOC2 causes R-loop accumulation, DNA damage and adverse neurodevelopment. Nature communications, 15(1), 1210.

Yamaguchi K, et al. (2024) Understanding the role of BRD8 in human carcinogenesis. Cancer science, 115(9), 2862.

Jung J, et al. (2024) MYH1 deficiency disrupts outer hair cell electromotility, resulting in hearing loss. Experimental & molecular medicine, 56(11), 2423.

Zainu A, et al. (2024) FIGNL1-FIRRM is essential for meiotic recombination and prevents DNA damage-independent RAD51 and DMC1 loading. Nature communications, 15(1), 7015.

Lee KH, et al. (2024) Complimentary vertebrate Wac models exhibit phenotypes relevant to DeSanto-Shinawi Syndrome. bioRxiv : the preprint server for biology.

Liao JZ, et al. (2024) Cdk8/CDK19 promotes mitochondrial fission through Drp1 phosphorylation and can phenotypically suppress pink1 deficiency in Drosophila. Nature communications, 15(1), 3326.

Jarysta A, et al. (2024) Inhibitory G proteins play multiple roles to polarize sensory hair cell morphogenesis. eLife, 12.

Olszewska M, et al. (2024) Effects of Tcte1 knockout on energy chain transportation and spermatogenesis: implications for male infertility. Human reproduction open, 2024(2), hoae020.

Li Y, et al. (2024) Mechanical force-activated CD109 on periodontal ligament stem cells governs osteogenesis and osteoclast to promote alveolar bone remodeling. Stem cells translational medicine, 13(8), 812.

Karimbayli J, et al. (2024) Insights into the structural and functional activities of forgotten Kinases: PCTAIREs CDKs. Molecular cancer, 23(1), 135.

Polesskaya O, et al. (2024) Genome-wide association study for age-related hearing loss in CFW mice. bioRxiv : the preprint server for biology.

Nair P, et al. (2024) Investigating the effects of a cryptic splice site in the En2 splice acceptor sequence used in the IKMC knockout-first alleles. Mammalian genome : official journal of the International Mammalian Genome Society, 35(4), 633.