Resource Summary Report

Generated by NIF on May 15, 2025

Impress

RRID:SCR_006160
Type: Tool

Proper Citation

Impress (RRID:SCR_006160)

Resource Information

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

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Description: Contains standardized phenotyping protocols essential for the characterization of mouse phenotypes. IMPReSS holds definitions of the phenotyping Pipelines and mandatory and optional Procedures and Parameters carried out and data collected by international mouse clinics following the protocols defined. This allows data to be comparable and shareable and ontological annotations permit interspecies comparison which may help in the identification of phenotypic mouse-models of human diseases. The IMPC (International Mouse Phenotyping Consortium) core pipeline describes the phenotype pipeline that has been agreed by the research institutions. IMPReSS has a SOAP web service machine interface. The WSDL can be accessed here: http://www.mousephenotype.org/impress/soap/server?wsdl

Abbreviations: IMPReSS

Synonyms: International Mouse Phenotyping Resource of Standardised Screens, IMPReSS - International Mouse Phenotyping Resource of Standardised Screens

Resource Type: standard specification, narrative resource, experimental protocol, data access protocol, data or information resource, software resource, international standard specification, web service

Keywords: phenotype, phenotyping, adult, embryonic, ontology, enu-induced gene knockout, gene, knockout mouse, ethylnitrosourea

Funding:

Resource Name: Impress

Resource ID: SCR_006160

Alternate IDs: nlx_151661

Record Creation Time: 20220129T080234+0000

Record Last Update: 20250514T061354+0000

Ratings and Alerts

No rating or validation information has been found for Impress.

No alerts have been found for Impress.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 57 mentions in open access literature.

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

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

Prieto-Vila M, et al. (2024) Adult cardiomyocytes-derived EVs for the treatment of cardiac fibrosis. Journal of extracellular vesicles, 13(7), e12461.

Fang TZ, et al. (2023) Knockout or inhibition of USP30 protects dopaminergic neurons in a Parkinson's disease mouse model. Nature communications, 14(1), 7295.

Huang Z, et al. (2023) Artificial intelligence reveals features associated with breast cancer neoadjuvant chemotherapy responses from multi-stain histopathologic images. NPJ precision oncology, 7(1), 14.

Oestereicher MA, et al. (2023) Comprehensive ECG reference intervals in C57BL/6N substrains provide a generalizable guide for cardiac electrophysiology studies in mice. Mammalian genome : official journal of the International Mammalian Genome Society, 34(2), 180.

Zhang Y, et al. (2023) Sexual Dimorphism of the Mouse Plasma Metabolome Is Associated with Phenotypes of 30 Gene Knockout Lines. Metabolites, 13(8).

Wilson LAB, et al. (2022) Sex differences in allometry for phenotypic traits in mice indicate that females are not scaled males. Nature communications, 13(1), 7502.

Guenin MJ, et al. (2022) A participatory approach for building ex ante impact pathways towards a prudent use of antimicrobials in pig and poultry sectors in France. PloS one, 17(11), e0277487.

Xie K, et al. (2022) Deep phenotyping and lifetime trajectories reveal limited effects of longevity regulators on the aging process in C57BL/6J mice. Nature communications, 13(1), 6830.

Wotton JM, et al. (2022) Identifying genetic determinants of inflammatory pain in mice using a large-scale gene-targeted screen. Pain, 163(6), 1139.

Spielmann N, et al. (2022) Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. Nature cardiovascular research, 1(2), 157.

Prieto-Vila M, et al. (2022) High-grade bladder cancer cells secrete extracellular vesicles containing miRNA-146a-5p and promotes angiogenesis. Journal of extracellular biology, 1(8), e47.

Cleverley K, et al. (2021) A novel knockout mouse for the small EDRK-rich factor 2 (Serf2) showing developmental and other deficits. Mammalian genome : official journal of the International Mammalian Genome Society, 32(2), 94.

Stoner CR, et al. (2021) Psychosocial interventions for dementia in low- and middle-income countries (LMICs): a systematic review of effectiveness and implementation readiness. Aging & mental health, 25(3), 408.

Butterfield NC, et al. (2021) Accelerating functional gene discovery in osteoarthritis. Nature communications, 12(1), 467.

Santiago González DA, et al. (2021) Ceruloplasmin deletion in myelinating glial cells induces myelin disruption and oxidative stress in the central and peripheral nervous systems. Redox biology, 46, 102118.

Kadota T, et al. (2021) Human bronchial epithelial cell-derived extracellular vesicle therapy for pulmonary fibrosis via inhibition of TGF-?-WNT crosstalk. Journal of extracellular vesicles, 10(10), e12124.

Swan AL, et al. (2020) Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS genetics, 16(12), e1009190.

Marenne G, et al. (2020) Exome Sequencing Identifies Genes and Gene Sets Contributing to Severe Childhood Obesity, Linking PHIP Variants to Repressed POMC Transcription. Cell

metabolism, 31(6), 1107.

Vaquero J, et al. (2020) Cold-Atmospheric Plasma Induces Tumor Cell Death in Preclinical In Vivo and In Vitro Models of Human Cholangiocarcinoma. Cancers, 12(5).