Resource Summary Report

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Toronto Centre for Phenogenomics

RRID:SCR_006143
Type: Tool

Proper Citation

Toronto Centre for Phenogenomics (RRID:SCR_006143)

Resource Information

URL: http://www.phenogenomics.ca/

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Description: The Toronto Centre for Phenogenomics (TCP) is an innovative, scientific collaboration between four research hospitals to operate a centralized, state-of-the-art research-enabling mouse facility. We conduct and support genetic research involving generation of mutant mice, physiological phenotyping, behavioural analysis, imaging, pathology and cryopreservation for storage and distribution. This joint project involving Mount Sinai Hospital, The Hospital for Sick Children, University Health Network and St. Michael"s Hospital pools resources and expertise to achieve excellence and economies of scale. The TCP opened for operations in October 2007. The centre functions as a regional, national and international resource for mouse models of human disease. This 120,000 square foot facility is located at 25 Orde Street, Toronto, and occupies four floors two below ground and two above. It houses specialized laboratories for mouse generation and analysis and, when fully occupied, it will contain approximately 36,000 cages (180,000 mice). The world-renowned scientific staff studies mammalian gene function, identifies genetic components of complex human disease, produces new mouse models of human disease, develops and tests new cell-based and gene-based therapies, and develops technologies for genome manipulation and phenotypic analysis. The TCP offers state-of-the-art mouse holding and facility support services to academic stakeholders and strategic private sector partners. It houses the Centre for Modeling Human Disease (CMHD), the Canadian Mouse Mutant Repository (CMMR), and the Mouse Imaging Centre (MICe) to provide an array of pre-clinical research services to clients. TCP Services * Phenotyping * Genetic Mapping * Pathology * Cryopreservation * Imaging * Genetically Engineered Mouse Models * Mouse Holding and Technical Services

Abbreviations: TCP

Synonyms: TCP - Toronto Centre for Phenogenomics, Toronto Centre for Phenogenomics (TCP)

Resource Type: institution

Keywords: mutant mouse, genetics, phenotyping, behavioral analysis, imaging, pathology, cryopreservation, transgenic, mouse model, gene function, custom breeding, mutant mouse line, mouse husbandry, husbandry, mutant mouse line, embryo, sperm, embryonic stem cell, tissue, cell

Related Condition: Human disease

Availability: Public: Academic and private sector

Resource Name: Toronto Centre for Phenogenomics

Resource ID: SCR_006143

Alternate IDs: grid.421777.0, nlx_151633

Alternate URLs: https://ror.org/044xrc068

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260919T195105+0000

Ratings and Alerts

No rating or validation information has been found for Toronto Centre for Phenogenomics.

No alerts have been found for Toronto Centre for Phenogenomics.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Choi SE, et al. (2026) The "route cause" of methotrexate-induced brain structure changes in a juvenile mouse model: Comparison of systemic and CNS-targeted chemotherapy. Neurotoxicology, 112, 103363.

Richman CM, et al. (2025) Carbonic Anhydrase Inhibition Sensitizes Group 3 Medulloblastoma to Radiotherapy. Cancer research, 85(19), 3737.

Zhang YN, et al. (2021) Mechanism of a COVID-19 nanoparticle vaccine candidate that elicits a broadly neutralizing antibody response to SARS-CoV-2 variants. bioRxiv : the preprint server for biology.

Zhang YN, et al. (2021) Mechanism of a COVID-19 nanoparticle vaccine candidate that elicits a broadly neutralizing antibody response to SARS-CoV-2 variants. Science advances, 7(43), eabj3107.

Geyer SH, et al. (2017) A staging system for correct phenotype interpretation of mouse embryos harvested on embryonic day 14 (E14.5). Journal of anatomy, 230(5), 710.

Dembowy J, et al. (2015) Effect of glycogen synthase kinase-3 inactivation on mouse mammary gland development and oncogenesis. Oncogene, 34(27), 3514.

Li YJ, et al. (2015) Suppression of Her2/Neu mammary tumor development in mda-7/IL-24 transgenic mice. Oncotarget, 6(35), 36943.

Guetg A, et al. (2015) Essential amino acid transporter Lat4 (Slc43a2) is required for mouse development. The Journal of physiology, 593(5), 1273.

Dib S, et al. (2014) Gene targeting of mouse Tardbp negatively affects Masp2 expression. PloS one, 9(4), e95373.

Bremm A, et al. (2014) Cezanne (OTUD7B) regulates HIF-1?? homeostasis in a proteasome-independent manner. EMBO reports, 15(12), 1268.

Bradley A, et al. (2012) The mammalian gene function resource: the International Knockout Mouse Consortium. Mammalian genome : official journal of the International Mammalian Genome Society, 23(9-10), 580.

Oakley DJ, et al. (2011) BioMart as an integration solution for the International Knockout Mouse Consortium. Database : the journal of biological databases and curation, 2011, bar028.