## **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/

**Proper Citation:** Toronto Centre for Phenogenomics (RRID:SCR\_006143)

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

**Funding:** 

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:** 20250420T014314+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 9 mentions in open access literature.

**Listed below are recent publications.** The full list is available at <u>dkNET</u>.

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.