

# Welcome to the Mouse Imaging Centre

The Mouse Imaging Centre (MICE) at The Hospital for Sick Children was created as a unique resource and comprehensive imaging facility combining the latest state-of-the-art digital medical imaging technologies for the characterization of mouse functional genomics.

MICE is staffed by an exciting team of investigators with expertise in imaging techniques, computer science, engineering, imaging processing, developmental biology and mouse pathology.

At the Mouse Imaging Centre we:

- Provide a variety of medical imaging technologies adapted to studying genetically modified mice. These technologies include magnetic resonance (MR) imaging, micro computed tomography (micro-CT), ultrasound biomicroscopy (UBM), and optical projection tomography (OPT).
- Use mouse models to investigate complex human disease.
- Perform longitudinal phenotyping of a variety of mouse models to observe normal development, disease progression and response to experimental treatment.

We also constantly work towards:

- Developing an exciting team of investigators with expertise in imaging techniques, computer science, engineering, imaging processing, developmental biology and mouse pathology.
- Collaborating with researchers around the world to pursue shared scientific interests.

If you just started working here, please visit [Getting Started at MICE](#).

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[Disk cleanup after a registration](#)

Sep 14, 2020 • updated by Yohan Yee • [view change](#)

[Pyd Piper on Graham](#)

Jul 02, 2020 • updated by Ben Darwin • [view change](#)

[Pyd Piper on the SickKids HPF](#)

Jun 17, 2020 • updated by Ben Darwin • [view change](#)

[Preferential Spatial Gene](#)

[Expression in Neuroanatomy](#)

Jun 16, 2020 • updated by Darren Fernandes • [view change](#)

[Disk cleanup after a registration](#)

Apr 28, 2020 • updated by Chris Hammill • [view change](#)

[Pyd Piper on the SickKids HPF](#)

Mar 21, 2020 • updated by Daniel Hoops • [view change](#)

[Pyd Piper on Graham](#)

Feb 28, 2020 • updated by Daniel Hoops • [view change](#)

[Use Microsoft Office Online](#)

Jan 28, 2020 • updated by Daniel Hoops • [view change](#)

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Dec 11, 2019 • updated by Staphania Assimopoulos • [view change](#)

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Dec 11, 2019 • updated by Antoine Beauchamp • [view change](#)

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## Old Home Page

Content from the home page prior to our Wiki update session on November 28th, 2019.

Software developed at MICE:

Name	Description
<a href="#">RMINC</a>	Analysis of data inside MINC volumes.
<a href="#">PydPiper</a>	Software to construct and run pipelines (image registration and otherwise)
<a href="#">Iterative Model Building (MBM.py)</a>	Image registration, written with the PydPiper framework.
<a href="#">MAGeT</a>	Creating atlases with multiple automatically generated templates
<a href="#">Longitudinal registration tools</a>	Alternate approaches to registration and analysis of longitudinal data.
<a href="#">minc-stuffs (formerly mice-minc-tools)</a>	Suite of MINC tools developed at the Mouse Imaging Centre
<a href="#">brain-view</a>	Visualize geometry and associated files
<a href="#">OPT_recon</a>	Software to reconstruct OPT images
<a href="#">CT to MINC</a>	software to create a 3D minc file from .tif files (microCT)
<a href="#">Software Tips and Tricks</a>	General tips and tricks on software/computer related things

### Atlases.

Atlases currently under development and available for use at the Mouse Imaging Centre can be found here: [Mouse Brain Atlases](#)

Code for running the MAGeT algorithm for atlas generation is available for download. More information can be found on the [MAGeT wiki page](#).