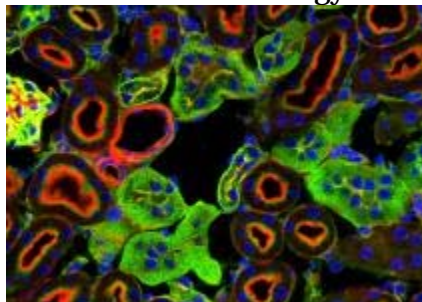


Guided Therapeutics Program (GTx)

GTx is developing new image-guided technologies for advanced therapeutics in surgery, interventional radiology and radiation medicine.



Service Department(s): Research Communications

Overview

The facility is led by:

- Dr. Jonathan Irish (surgical oncology)
 - Dr. [David Jaffray](#) (radiation therapy)
 - Dr. [Walter Kucharczyk](#) (medical imaging)
 - Dr. [Kazuhiro Yasufuku](#) (thoracic surgery)
 - Dr. Kieran Murphy (interventional radiology)
 - Dr. [Michael Tymianski](#) (neurosurgery)
 - Dr. John Trachtenberg (prostate interventions)
 - Dr. [Michael Jewett](#) (renal interventions)
-

Unique Capacities

- Unique multi-disciplinary research collaboration among scientists, engineers and clinicians with a shared vision toward revolutionary cancer interventions
 - High-precision, image-guided interventions (including surgery, radiotherapy and cell-based therapies)
-

Available Equipment

- Operating room
 - GTx-Lab: basic research and development of guidance technologies; preclinical models testing; preclinical Cone-Beam CT imaging
 - GTx-OR: translational research image-guided OR, focusing on head and neck, chest and breast procedures with dual energy CT scanner and robotically controlled Cone-beam CT and fluoroscopy imaging
 - MRI-Interventional Suite: translational research image-guided OR, focusing on prostate and
 - advanced applications of HIFU with 1.5T MRI
- Image-guidance technologies
 - MRI, CT, cone-beam CT, ultrasound, optical fluorescence, HIFU, real-time tracking and

navigation, deformable image registration.

Services

Research, development and translation of advanced imaging and guidance technologies in therapeutic interventions, including surgery, radiation therapy and interventional radiology.

Primary focus is on cancer interventions. Mandate is toward creation and translation of new technologies and therapeutic techniques, with a strong emphasis on research.

Using the Facility

Resources are available on a collaborative basis. Research collaborations with physicists, engineers, surgeon scientists, radiation oncologists and other UHN investigators are welcome.

Sample Preparation

Please contact Dr. Robert Weersink (robert.weersink@rmp.uhn.on.ca, 416-946-4501) for more information.

Contacts

[Dr. Robert Weersink](#)

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