

Research Training Centre
Samuel Lunenfeld Research Institute
Mount Sinai Hospital

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RESEARCH TRAINING CENTRE

WWW.MSHRI.ON.CA/RTC

“Pushing the limits of what will be possible in the future is what some of the world’s very best researchers are doing today...right here at Mount Sinai Hospital, in our very own Samuel Lunenfeld Research Institute.”

Dr. James Woodgett, Director of Research



This is a tremendously exciting time to embark on a career in health research.

Trainees are the lifeblood of the Samuel Lunenfeld Research Institute of Mount Sinai Hospital. They are the bright minds and big hearts who lead the way in research and in turn, advance the future health of Canadians.

The Research Training Centre (RTC) within the Lunenfeld provides an exceptional research and learning environment for all trainees. And learning happens everywhere at the Lunenfeld. The RTC is not just a place, but a concept. It’s an administrative framework, an opportunity to get to know fellow scientists and a support system.

We are highly committed to training young investigators. We support a collaborative environment and work together to help realize ideas—and dreams.

We invite you to join us in the process of discovery.

Dr. Stephen Lye
Director, Research Training Centre
Samuel Lunenfeld Research Institute



I AM A SCIENTIST.

DEREK CECCARELLI

POSTDOCTORAL FELLOW [SICHERI LAB – SYSTEMS BIOLOGY]

WHAT IS THE **RESEARCH TRAINING CENTRE** AT THE SAMUEL LUNENFELD RESEARCH INSTITUTE?

The Samuel Lunenfeld Research Institute of Mount Sinai Hospital, a University of Toronto affiliated research centre, has established itself as one of the world's leading biomedical research institutes. We are committed to excellence in discovery, translation and application of health research – and to training future investigators.

The Research Training Centre (RTC) at the Samuel Lunenfeld Research Institute is dedicated to providing high-quality training for postdoctoral fellows, graduate students, clinician-scientists and summer students. It is the administrative support system for all trainees. From hosting seminars to organizing social gatherings, the RTC is your primary resource hub.



“I enjoy that moment just before the result of an experiment is revealed. Each new finding moves us closer to solving a larger puzzle... but the real satisfaction is seeing that our results lead to new questions.”

ELEVATE YOUR CAREER

The Research Training Centre is involved in various aspects of training Lunenfeld scientists of today and developing the leaders of tomorrow. From youth outreach programs to resources for postdoctoral fellows, we help prepare the next generation of scientists for careers in health research.

- **Postdoctoral Research Fellowship Program:** Gain leading-edge experience in an interdisciplinary setting to prepare for your career as an independent researcher.
- **Graduate Student Program:** Make the lab your learning grounds while completing a Masters or Doctoral degree at the University of Toronto.
- **Clinical Research Fellowship Program:** Enhance your clinical experience by applying basic research knowledge developed at the bench.
- **Summer Student Program:** Get hands-on research experience after your second year of undergraduate science studies.

I AM A SCIENTIST.

LESLEY MACNEIL

GRADUATE STUDENT
[CULOTTI & WRANA LABS – CELL SIGNALLING]

“It’s great to get different perspectives on one problem, and learn about ideas that you had never considered. There is always someone who can give you insight on a particular challenge or shed new light on a solution.”

I AM A SCIENTIST.

ED LIAO

GRADUATE STUDENT [ZHEN LAB – NEUROBIOLOGY]

BE THE LEADING EDGE

The Research Training Centre at the Lunenfeld is a hotbed of talent.

As a trainee, you are on the front lines of scientific study that has the potential to transform medical discovery and practice. Our emerging next generation of Canadian scientists and clinician-scientists will lead advancements in basic science research, fuelling the knowledge-based economy and the future of medicine.

More than 300 scientific papers are published each year by Lunenfeld labs – thanks to the energy and efforts of our outstanding trainees.



“There is no doubt that being published in *Nature* journal has accelerated my path to becoming an independent researcher. It was a little unexpected to publish in such a prestigious journal so early in my graduate studies, but the creative and vibrant atmosphere of the Lunenfeld allows for the rapid discovery of new and exciting ideas.”



YOUTH OUTREACH

I AM A SCIENTIST.
BECHARA SAAB

GRADUATE STUDENT [RODER LAB - COGNITIVE FUNCTION]

SPARK CURIOSITY

Inspire the next generation of scientists! Trainees can volunteer for SciHigh, the Lunenfeld's youth outreach program that shows kids just how cool science can be. Our volunteers visit classrooms and community centres to demonstrate all things genetic, from how to extract DNA from a banana to how to separate proteins. (The youngest of future scientists learn how to build DNA models from licorice and marshmallows.)

The Lunenfeld also opens its doors every year for 'Science Days' where groups of keen high-school students engage in hands-on science workshops to extend their learning beyond the classroom.

We are thankful for generous financial support provided by the Government of Ontario (YSTOP program), the law firm of Osler, Hoskin & Harcourt and the Natural Sciences and Engineering Research Council of Canada (PromoScience).

“I love scientific curiosity. It’s not only individual moments that stay with you after a SciHigh visit, it’s also that wide, warm sensation of knowing you’ve sparked excitement about science in young people.”



I AM A SCIENTIST.

GISELLE WIGGIN

POSTDOCTORAL FELLOW [PAWSON LAB - CELL BIOLOGY]
 & DR. TONY PAWSON - DISTINGUISHED INVESTIGATOR



LEARN FROM THE BEST

Work alongside scientific thought-leaders and creative innovators. With 32 principal investigators working in areas related to cancer biology, diabetes research, neuroscience, epidemiology, developmental biology, and stem cell research, exciting mentorship opportunities await.

Our trainees go on to attain challenging academic positions in top-ranked universities, hospitals and bio-pharma companies around the world.

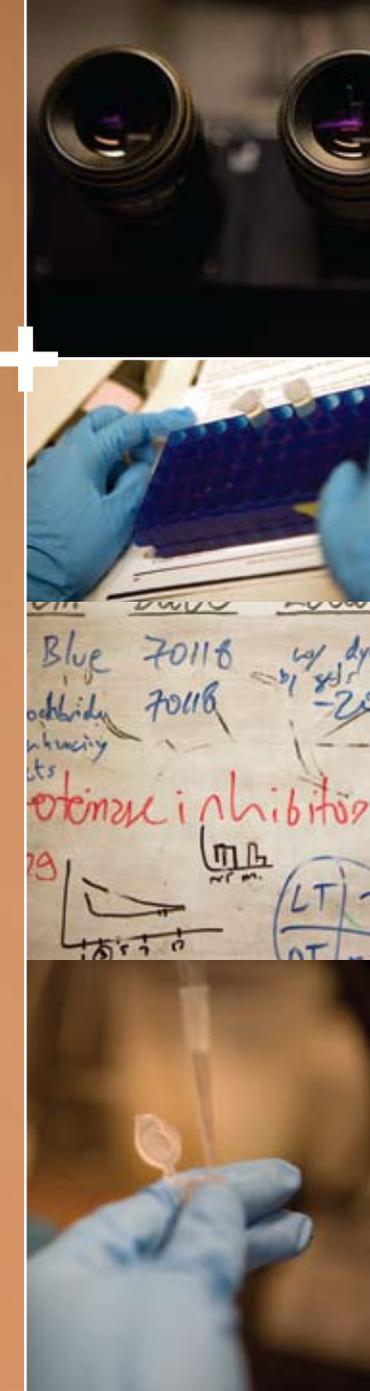
“Tony is extremely busy, but he is always keen to discuss projects and ideas – literally, his door is always open! He allows members of his lab the freedom to pursue their own ideas, which is important in establishing your independence as a researcher.”



I AM A SCIENTIST.

ROB GRYFFE

CLINICIAN-SCIENTIST, SURGEON
[GRYFFE LAB-COLORECTAL CANCER/MOLECULAR GENETICIST]



GET THE FACTS

- On average, 220 trainees work in Lunenfeld labs each year.
- Every summer, more than 70 undergraduate students enhance their university education with real hands-on experience at the Lunenfeld.
- Trainees come to the Lunenfeld from around the world – 40 percent join us from international destinations.
- More than 4,500 elementary and high school students experience SciHigh workshops each year.
- Over 40 percent of Lunenfeld trainees receive external competitive funding to an average total of \$2 M per year.

“The level of training that the Lunenfeld provides is second to none. My years as a trainee inspired my career choice of clinician-scientist and surgeon, but also instilled the importance of basic research. The work that I do at the bench informs how I approach my work in the clinic, and ultimately, how I help my patients.”

I AM A SCIENTIST.

SHATHIYAH KULANDAUELU

GRADUATE STUDENT

[ADAMSON LAB - CARDIOVASCULAR/REPRODUCTIVE HEALTH]

SEE **THE WORLD**

Expand your network and your c.v. with RTC travel awards. By presenting a poster or giving a scientific talk, you position yourself among leading national and international colleagues in your field. Meet the pioneers of health research and open the doors to new opportunities and ideas.

“The people you meet at conferences help to inspire collaborations and new ideas. I always leave with an amazing amount of confidence. After one of my plenary talks, two professors complimented my research, and I felt like a star!”





I AM A SCIENTIST.

SOPHIA GEORGE

GRADUATE STUDENT
[NAGY LAB - STEM CELL RESEARCH]

CREATE YOUR FUTURE

Training at the Lunenfeld fuels discovery. It has the power to transform health research and clinical practice across Canada, and worldwide. It will drive innovation and advance the best medical care for patients.

The Lunenfeld is unparalleled in Canada in securing grant funding and infrastructure support, and is well positioned to build partnerships with industry leaders. We are collaborators and inventors, making strides in basic research and translating our findings throughout the world.



“It’s not just the access to leading-edge research or the amazing facilities – it’s the people who make the Lunenfeld experience. I’ve discovered life-long friends and colleagues. The atmosphere is ripe for collaboration.”