For twenty five years, the Samuel Lunenfeld Research Institute of Mount Sinai Hospital has been a place where ideas are conceived, nurtured and allowed to develop. Many of the breakthroughs that began as fundamental research here have become discoveries that advance not just medicine, but the quality of life we all enjoy.
The Birthplace of Groundbreaking Medical Research in Toronto

In 1985, the Mount Sinai Hospital Research Institute was just a small, fledgling centre for medical research in Toronto. Dr. Lou Siminovitch, known as the father of Canadian genetic research, began his nine-year inaugural Directorship that year by recruiting 30 scientists who quickly became internationally renowned. In 1989, the Samuel Lunenfeld Foundation donated $7.5 million to the Institute. At the time, it was one of the largest gifts ever to medical research in Canadian history. In recognition of this gift, the Mount Sinai Hospital Research Institute was renamed the Samuel Lunenfeld Research Institute of Mount Sinai Hospital. Although Mr. Lunenfeld died in 1986, his daughter, Sybil Kunin, her husband Reuben and son Mitchell carried on Mr. Lunenfeld’s tradition of giving in support of the research institute.

Since the Institute’s inception, the Mount Sinai Hospital Foundation has contributed over $160 million in support of groundbreaking Lunenfeld research.

The Lunenfeld is a birthplace for groundbreaking medical research in Toronto and a hub for collaborations with the University of Toronto and neighbouring hospitals. Many breakthroughs have already led to new and better ways to prevent, diagnose and treat common illnesses including cancer, diabetes, neuro-degenerative conditions, kidney disease, arthritis, osteoporosis and psychiatric illnesses.

Scientists discoveries born at the Lunenfeld today are bringing a healthier future to Toronto, and have already resulted in new and better ways to prevent, diagnose and treat common illnesses.

World Class Marks— How Our Research Adds Up

The Lunenfeld is one of the world’s top centres in biomedical research and consistently leads Toronto’s efforts in this area.

- More than 300 publications in leading scientific journals every year.
- Lunenfeld researchers publish over than 300 papers in leading scientific journals every year.
- Lunenfeld scientists currently hold more than $200 million in grants and awards.
- Lunenfeld scientists consistently hold more than the most competitive research granting agencies in Canada.

Major Milestones in 25 Years of Discoveries

1986 - Dr. Tony Pawson discovered how cells communicate with each other.
1989 - Dr. Katherine Siminovitch uncovered a new way to test for certain genetic autoimmune disorders.
1991 - Dr. Jim Dennis opened the door to testing for pre-eclampsia, a common complication of pregnancy.
1998 - Dr. Isabella Casuccio and Stephen Lyu opened the door to testing for pre-eclampsia, a common and severe complication of pregnancy.
1999 - Dr. Bernard Zinman pioneered a genetic revolution among those who live with diabetes, a community in which about 25 per cent of residents have diabetes.
2004 - Dr. Steven Gallinger identified a gene associated with colorectal cancer—the first clue for future screening methods.
2005 - Dr. Andreas Nagy developed Dr. Lunenfeld’s first human embryonic stem cell line, opening the door to cures for spinal cord injury, muscular degeneration, and Parkinson’s disease.
2007 - Dr. John Roder discovered new ways of studying and treating macular degeneration.
2008 - Dr. Rayjean Hung discovered a gene that could stop malignant tumour growth—an idea that led to a breakthrough drug for leukemia.
2009 - World-renowned cardiologist Dr. Tony Pawson discovered that blocking a specific cell signal associated with cancer could stop malignant tumour growth—an idea that led to a breakthrough drug for leukemia.
Using Genetic Information for New Insights Into Health and Disease

Ten years ago, scientists deciphered the human genome—a process known as ‘DNA sequencing’—that required reading the chains of more than three billion links in the full genetic chain. While genetics looks at the function of single genes, genomics looks at the bigger picture of how all the genes in an entire system—our genome—interact, communicate and influence our risk of developing illness.

Genetic clues allow clinicians to design tests for predicting how a specific patient will respond to a given therapy, and deliver better treatments personalized to an individual’s unique genetic makeup.

Training Tomorrow’s Leading Scientific Minds

Over 200 young researchers and aspiring clinicians are drawn to the Lunenfeld’s Research Training Centre each year from countries as far ranging as Iran, China, Belgium, Korea and more. The Samuel Lunenfeld Research Institute of Mount Sinai Hospital is known for offering an exceptional research-based learning environment. These trainees (postdoctoral fellows, clinical fellows, graduate and summer students) are at the heart of the Lunenfeld and the bright minds working on tomorrow’s scientific breakthroughs.

Conceiving Ideas that Lead to Breakthrough Treatments for Cancer and Other Illnesses

“The Lunenfeld is like a neutron star, in that its edge advances in stem cell biology, Lunenfeld researchers are helping to improve the health of Canadians.”

Dr. Jim Woodgett
Director, Samuel Lunenfeld Research Institute

From extraordinary discoveries in cancer research to leading-edge advances in stem cell biology, Lunenfeld researchers are helping to improve the health of Canadians.

Over 6,000 babies are born every year at Mount Sinai Hospital and many of them are ‘high risk.’ Lunenfeld researchers work closely with their clinical colleagues to understand the causes of infertility, pre-term birth, pre-eclampsia (a common pregnancy-related complication) and placental abnormalities that place both babies and their mothers in danger.

Thanks to our donors, Mount Sinai Hospital is developing an expanded centre to build on the specialized care offered at the Frances Bloomberg Centre for Women’s and Infants’ Health. New research in this area also includes the Ontario Birth Study, in which scientists and clinicians will look at the environmental factors that influence growth, development, learning and the lifelong health of babies. The findings are expected to deliver a new standard of care to women and their children.

More Room for Healthier Women and Their Babies

“With 200 births per year, we are at the forefront of providing the most advanced care in the region.”

Dr. Jim Woodgett
Director, Samuel Lunenfeld Research Institute

We’re committed to public outreach programs across our city that support and promote new knowledge about science and health research. The Lunenfeld has partnered with the Ontario Science Centre and the Canadian Institutes of Health Research (CIHR) Training Program in Regenerative Medicine for Café Scientifique—a public outreach series about current ideas in science.

As well, our youth outreach program, SciHigh, delivers hands-on science workshops to more than 4,500 elementary and high school students each year. We show kids how exciting science and health research can be!

Through SciHigh, we also hold an annual science fair for the city’s intermediate students, and sponsor summer internships for high school students.

Engage in new scientific ideas that are shaping the future of medicine and community health.
Celebrating 25 years of world class research at the Samuel Lunenfeld Research Institute.

Congratulations!
The Honourable Jerry & Carole Grafstein

Our sincere congratulations to the Samuel Lunenfeld Research Institute on its 25th Anniversary.

Goodman’s

“If you think research is expensive, try disease.”
—May Luder—

Congratulations to the Lunenfeld on your first 25 years.

THE KILMER GROUP

Firm Capital congratulates the Samuel Lunenfeld Research Institute at Mount Sinai Hospital for 25 years of extraordinary medical achievements!

www.FirmCapital.com

The Honourable Jerry & Carole Grafstein

Congratulations to 25 years of world class research.

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Today's Science Will Mature Into Tomorrow's Medicine

What starts as a scientific discovery today can become a better way to treat patients in the future. Here's how research at the Lunenfeld is leading toward better health for everyone:

1. **Identifying the genes underlying common illnesses** is helping our researchers develop newer, more personalized therapies for cancer, diabetes, psychiatric illnesses, kidney disease, arthritis and more.

2. **Breakthroughs in stem cell research** are leading to new regenerative medicines and cures for diabetes, spinal cord injury, macular degeneration and Parkinson's disease.

3. **Scientists are learning more about how a baby's early development** and its environment inside the womb, may lead to illnesses much later in life. And this opens the door to new ways to prevent these illnesses in the first place.

4. **Identifying the genes underlying common pregnancy-related complications** such as pre-eclampsia will help physicians detect and manage these conditions, for healthier pregnant women and their babies.

5. **Through large studies such as the Ontario Health Study**, researchers and clinicians can understand how complex, chronic illnesses develop and design better ways to prevent and treat them.

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IF YOU ARE:

* Proud that Toronto is home to one of the top biomedical research centres in the world
* Grateful that we are investigating life’s most complex and threatening diseases

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This is your opportunity to impact your future health, that of your family and generations to come.

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*If you are interested in learning more about the Samuel Lunenfeld Research Institute, find us on the web at www.lunenfeld.ca. You can also donate online at www.supportsinai.ca.*

For more information on donor opportunities, please call 416.586.8203.

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**Celebrating 25 Years of World-Class Research**

A quarter century of top-ranked scientific research was celebrated in Toronto earlier this year at Dine with Scientists, CBC co-anchors Anne-Marie Mediwake and Dwight Drummond as well as Leadership Sinai—Mount Sinai Hospital’s community of young philanthropists and volunteer leaders—welcomed 250 guests and 25 of the Lunenfeld’s scientists to the occasion, which raised nearly $250,000 for research at Mount Sinai Hospital.

Scientists presented their leading-edge research to a captivated audience, including updates on the diagnosis and treatment of some of the most devastating illnesses today.