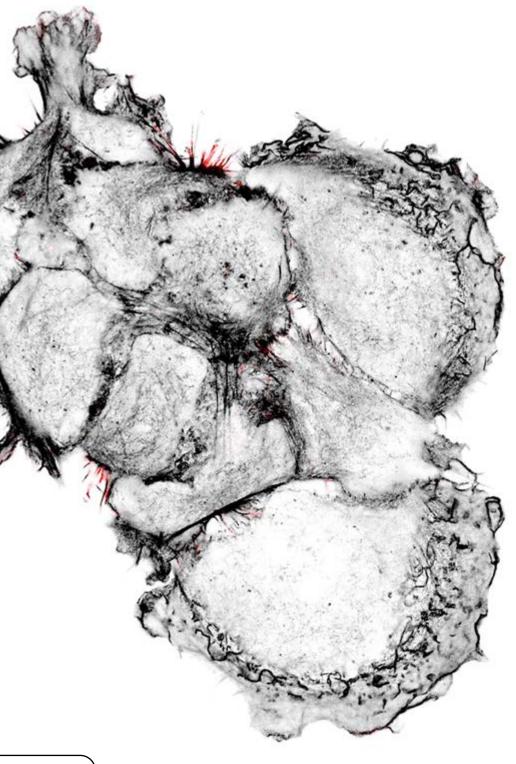


In Canada:

Cancer is the leading cause of death





1 out of 2 people will receive a cancer diagnosis during their lifetime



1 out of 4 people will die from cancer



The cancer survival rate after five years is approximately 64%



All cancers are the result of genetic alterations in one cell of the body, which render that cell abnormal, leading to a disorderly cell proliferation and tumor formation.

More than 200 different types of cancers can be caused by a number of mutations producing specific anomalies at the molecular and cell level.

Traditional therapeutic chemotherapy and radiation approaches are non-specific and often accompanied by extremely adverse side effects.

Investigators are working towards acquiring new knowledge to better understand the mechanisms of cancer and to develop personalized therapeutic approaches.







Threefold mission

Research

Enabling investigators to better understand and demystify the mechanisms of cancer

Training

Training tomorrow's scientists

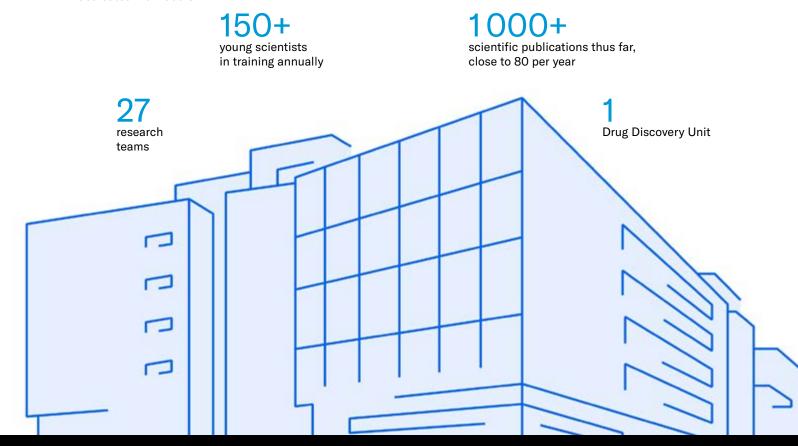
Valorization

Accelerating the discovery of new drugs and new therapies

60+

scientists devoted to drug discovery (including medicinal chemists and biologists)





10 Core Facilities serving the scientific community

(more than 300 user research groups)

- Bio-imaging
- Bioinformatics
- Biophysics/NMR (Nuclear Magnetic Resonance)
- ChemoGenix
- Flux cytometry
- Genomics
- High-Throughput screening
- Histology
- In vivo biology
- Proteomics

Close to \$17.5M in research grants

(annual average over 3 years)

Close to \$11.7M in industrial research contracts

(annual average over 3 years)

Discover our corporate video:



History of IRIC

 Robert Lacroix, Rector of th annour 	e Université de Montréal, nces the creation of IRIC.	2003	
• IRIC is founded by Pierre Chartrand	, Chief Executive Officer.		
Guy Sauvageau appointed Scientific Director of IRIC. The first IRIC teams are welcomed into the new Marcelle-Coutu Pavilion and creation of the first Core Facilities.		2004	Arrival of the Institute's first four recruits, Investigators Trang Hoang, Sylvain Meloche, Guy Sauvageau and Marc Therrien, at the Roger-Gaudry Pavilion of the Université de Montréal.
		2005	
		2006	Launch of the new Graduate Program in Molecular Biology, Systems Biology option.
Guy Sauvageau appointed to the po Officer and renewal of his mand	osition of Chief Executive ate as Scientific Director.	2007	
Kick-off of the first major IRIC fundraising campaign and of the IRIC Great Challenges Against Cancer Fund. Marc Therrien appointed to the position of Scientific Director of IRIC.		2008	• Creation of the Drug Discovery Unit, the first Canadian anticancer drug discovery chain in a university setting. Headed by Anne Marinier, it will enable IRIC to accelerate the development and commercialization of innovative drugs.
		2013	 At the same time, IRIC creates its affiliate IRICoR, whose objective is the maturation of basic re- search results from IRIC and from collaborations in order to transform them into new therapies.
		2014	Executive Officer of IRIC.
Creation of the ExCellThera company by Guy Sauvageau and Anne Marinier, with IRICoR's support.		2015	 Inauguration of IRIC's 4th floor. Launch of Audace, the Institute's flagship benefit event.
Creation of the Epitopea company by Cla Thibau	aude Perreault and Pierre lt, with IRICoR's support.	2020	Creation of the affiliate RejuvenRx Inc. by Ex- CellThera. Headed by Anne Marinier, it focuses on the development of the assets linked to the UM171 family of molecules in the field of targeted therapy for the treatment of cancers and other diseases.
		2022	IRIC becomes a Centre des Fonds de recherche du Québec – Santé.

Since its creation, IRIC has made giant strides and positioned itself as a leader in the cancer field thanks to many institutional grants and major donations, particularly from our generous philanthropists:

Donations of \$10M or more

• Fondation Marcelle et Jean Coutu

To consult the detailed list of institutional grants



Donations of \$1M or more

- · Richard and Edith Strauss Foundation
- · Fondation Famille Godin
- · Fondation Famille Diane et Léon Gosselin
- Fondation Marcel et Rolande Gosselin



Principal Investigators

IRIC's investigators form a group of elite scientists with multiple expertise, including medicine, genetics, cell biology, molecular biology, immunology, pharmacology, biochemistry, chemistry, physics and informatics.

These 27 luminaries are from Canada, the United States and Europe. Their recruitment was targeted to complement the range of expertise present at the Institute, thus resulting in a multidisciplinary approach to basic research as well as research with a more applied focus, which will have a determining impact on the treatment of the disease.







Delphine Bouilly: Design and Application of Electronic Nanobiosensors Arrived in 2017



Geneviève Deblois: Metabolic and Epigenetic Alterations in Cancer Arrived in 2020



Etienne Gagnon: Cancer Immunobiology Arrived in 2011



Jean-Claude Labbé: Cell Division and Differentiation Arrived in 2005



Vincent Archambault: Cell Cycle Regulation Arrived in 2009



Michel Bouvier: Molecular Pharmacology Arrived in 2005



Gregory Emery: Vesicular Trafficking and Cell Signalling Arrived in 2007



Trang Hoang: Hematopoiesis and Leukemia Arrived in 2003



Sébastien Lemieux: Functional and Structural Bioinformatics Arrived in 2005



Katherine Borden: Structure and Function of the Cell Nucleus Arrived in 2004



Sébastien Carréno: Cellular Mechanisms of Morphogenesis during Mitosis and Cell Motility Arrived in 2008



Louis Gaboury: Histology and Molecular Pathology Arrived in 2005



David Knapp: Cellular Engineering Arrived in 2020



Julie Lessard: Chromatin Structure and Stem Cell Biology Arrived in 2007



Sylvie Mader: Molecular Targeting in Breast Cancer Treatment Arrived in 2005



François Major: RNA Engineering Arrived in 2004



Anne Marinier: Drug Discovery Arrived in 2007



Sylvain Meloche: Signalling and Cell Growth Arrived in 2003



Philippe Roux : Cell Signalling and Proteomics Arrived in 2006



Claude Perreault: Immunobiology Arrived in 2004



Vincent Q. Trinh: Digital Histology and Advanced Pathology Arrived in 2022



Guy Sauvageau: Molecular Genetics of Stem Cells Arrived in 2003



Matthew Smith: Cancer Signalling and Structural Biology Arrived in 2016



Marc Therrien: Intracellular Signalling Arrived in 2003



Pierre Thibault: Proteomics and Mass Spectrometry Arrived in 2004



Alain Verreault: Chromosome Biogenesis Arrived in 2005



Brian Wilhelm: High-Throughput Genomics Arrived in 2010





Next generation of scientists

IRIC actively takes part in training the next generation of scientists by offering multidisciplinary training focused on research, personalized monitoring and privileged access to cutting-edge facilities.

A multitude of programs available

IRIC welcomes Master's and Ph. D. students from various programs of the Faculties of Arts and Sciences, Medicine and Pharmacy of the Université de Montréal.

- Intensive Master's in Molecular Biology (1 year)
- · Traditional Master's (2 years)
- Ph. D. (5 years)

Programs offered

- Bioinformatics
- $\bullet \ \mathsf{Biochemistry}$
- · Molecular Biology
- Chemistry
- Biomedical Engineering
- Informatics
- Microbiology and Immunology
- Pathology and Cell Biology
- Pharmacology
- Physics
- · Pharmaceutical Science

IRI@oR

IRICoR is a Centre of Excellence in Commercialization and Research, based at the Institute for Research in Immunology and Cancer (IRIC) of the Université de Montréal. IRICoR brings together research in academia and the biopharmaceutical sector in order to accelerate the transformation of drug discovery projects into new therapies, for the benefit of patients.

As a collaboration partner, IRICoR provides a link between stakeholders, improves access to resources and ensures support at all levels.

IRCoR has had many high-impact achievements. Its pan-Canadian activities contribute to its international visibility.







IRIC - UNIVERSITÉ DE MONTRÉAL

Pavillon Marcelle-Coutu 2950, chemin de Polytechnique Montréal (Québec) H3T 1J4 Canada

Follow us







