



# Hospital-Based TIL Manufacturing to Provide Standard of Care Immunotherapy for Melanoma

Project duration: 2025-3-9 to 2028-3-31

**Targeted cancer type:** 

# Melanoma

This team aims to develop a point-of-care TIL product for melanoma that will enable a clinical study to support development of manufacturing processes and adoption of TIL as standard of care.

**Key Investigators:** 

Project lead:

**Dr. Simon Turcotte** 



Dr. Jennifer Quizi



L'Hôpital d'Ottawa BioCanRx funded Core Facility

The Ottawa Hospital's

Biotherapeutics
Manufacturing Centre

Biotherapeutic: Adoptive cell therapy

Project value:

\$1,870,000

BioCanRx Contribution:

\$730,000





**Agir plus vite** que la maladie



L'Hôpital d'Ottawa Institut de recherche



# **About the project:**

Melanoma, a severe skin cancer, often resists current treatments. In the U.S. and parts of Europe, Tumor Infiltrating Lymphocyte (TIL) immunotherapy is reimbursed as standard care, with up to 50% of refractory melanoma patients responding and 20% achieving long-term remission.

Canada urgently needs sustainable access to TIL therapy. Commercial TIL products from

the U.S. cost over half a million dollars each, making them unsustainable for Canada's public health care system. However, European countries have shown that hospital-based point-of-care manufacturing can produce safe, effective TIL at reduced costs. This model improves access, controls expenses, creates high-quality jobs, and supports research to enhance TIL efficacy.

The teams' project will leverage existing cellular laboratories at the Ottawa Hospital and the Centre hospitalier de l'Université de Montréal to develop an affordable, point-of-care TIL product. This will enable the conduct of a clinical study to gather data to support TIL as part of standard care and create a transferable manufacturing process for other Canadian sites.



### Research:

Centre hospitalier universitaire vaudois and Ludwig Cancer Research, Lausanne, Switzerland Dr. George Coukos

## Research:

National Center for Cancer Immune Therapy, Copenhagen University Hospital, Herley, Denmark

Dr. Inge Marie Svane

### Research:

Moffitt Cancer Center, TIL Development Lab, Tampa, Florida Dr. Shari Pilon-Thomas

Dr. Mathieu Crupi,

Lee Timms

Research: Ottawa Hospital Research Institute, Ottawa, ON Dr. Rebecca Auer, Dr. Natasha Kekre

# Cell Manufacturing and Research:

l'unité de production cellulaire du Centre Hospitalier de l'université de Montréal Dr. Simon Turcot, Dr. Sandy

# Québec, Montreal, QC Eva Villalba

Research: Pelletier, Dr. Mathieu Gigoux Université Laval, Quebec City, QC

Patient, End-User Group:

Coalition priorité cancer au

Dr. Jason R. Guertin

# **Partners:**

Centre de recherche du CHUM

**Ottawa Hospital Research Institute** 

**Fondation du CHUM** 

**ScaleReady** 

Fondation J-Louis Lévesque

**Total Pledged Partner Contributions: \$1,140,000** Total Pledged Matched Contributions: \$1,140,000

# Key **Deliverables**

- 1. Canadian cGMP melanoma TIL (canTILme) development plan reflecting clinically validated standards, with a cost-reduction strategy and confirmed freedom to operate.
- 2. Validated canTILme manufacturing process and compendial release
- 3. Pre-CTA meeting supporting the early phase trial design
- 4. Data generated from pilot and engineering runs confirming harmonized TIL manufacturing at two sites
- 5. Better defined path for integrating hospital-based manufactured TIL therapy into Canada's public health care system

