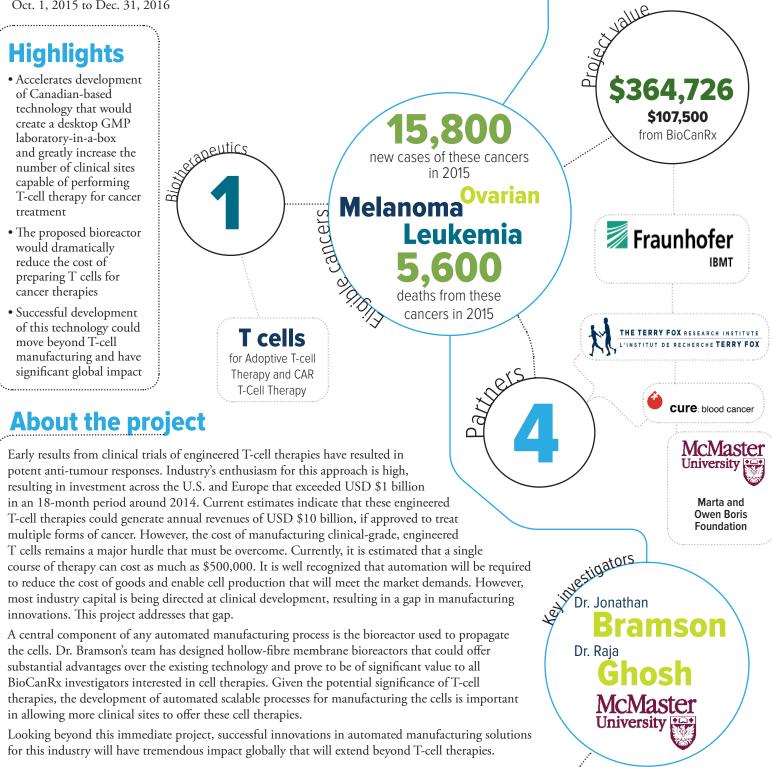


Catalyst Program

Development of a bioreactor system to automate T-cell manufacturing

Oct. 1, 2015 to Dec. 31, 2016



Catalyst Project investigators

Montreal Centre de Recherche Hôpital Maissoneuve-Rosemont Scientific investigators Dr. Denis-Claude Roy Dr. Jean-Sebastien Delisle

Hamilton McMaster University

Scientific investigators Dr. Jonathan Bramson Dr. Raja Ghosh



BioCanRx partners

Cure: Blood Cancer \$15,000

Fraunhofer Institute for Biomedical Engineering \$116,297

BioCanRx \$107,500 approved on June 10, 2015 •

Oct. 1, 2015

Project starts

The power to kill cancer lies within us. Let's tell our bodies how.

Terry Fox Research Institute \$128,429

Boris Family Fund, Faculty of Health Sciences, McMaster University \$105,000

Oct. 1, 2015 to March 31, 2016

- Fabricate hollow-fibre membrane bioreactors (HFMB) prototypes
- Integrate HFMB prototypes with fluid and instrumentation components
- Assess mass transport of key oxygen and nutrients for HFMB prototypes
- •Develop T-cell culture process for HFMB prototypes.

April 1, 2016 to Sept. 30, 2016

- •Complete assessment of mass transport of key oxygen and nutrients for HFMB prototypes
- Complete development of T-cell culture process for HFMB prototypes
- Fabricate HFMB variants
- Integrate HFMB variants with fluid and instrument components
- Assess mass transport for HFMB variants
- Develop T-cell culture process for HFMB variants

Oct. 1, 2016 to Dec. 31, 2016

- Complete integration of HFMB variants with fluid and instrument components
- Complete assessment of mass transport for HFMB variants
- Complete development of T-cell culture process for HFMB variants

BioCan Canada's Immunotherapy Network Le réseau canadien d'immunothérapie