

Catalyst Program

Creating T-cell receptors that react to specific tumour antigens for improved adoptive T-cell therapy



Catalyst Project investigators

• Ottawa The Ottawa Hospital,

University of Ottawa Scientific investigator Dr. John Bell

BioCanRx \$200,001 approved on June 10, 2015

BioCanRx partner

Takara Bio, Inc.\$200,000 for research reagents, plus expertiseand resources for technical and product development

July 1, 2015 • Project starts

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

July 1, 2015 to June 30, 2016

• A new technology to isolate a library of tumourspecific TCRs with a broad range of affinity

Toronto

Princess Margaret Cancer Centre University Health Network

Scientific investigator

Dr. Naoto Hirano Clinical investigator

Dr. Marcus Butler

July 1, 2016 to June 30, 2017

- Create a TCR with minimal cross-reactivity and potent anti-tumour reactivity specific for NY-ESO-1 peptide presented by HLA-A2 molecules
- Create a TCR with minimal cross-reactivity and potent anti-tumour reactivity specific for NY-ESO-1 peptide presented by HLA-DP4 and other class II molecules
- Create a TCR with minimal cross-reactivity and potent anti-tumour reactivity specific for MAGE-A3 peptide presented by HLA-DP4 and other class II molecules

