

Catalyst Program

Development of an oncolytic vaccine for brain cancer

July 1, 2015 to June 30, 2017



Key invess;

Dr. David

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RESEARCH INSTITUT

Dr. Stojdl's lab has developed a new approach to GBM therapy that uses cancer-killing viruses to harness a patient's own immune cells to fight their tumour. This immune activation is critically important during oncolytic virotherapy because patients whose tumours are packed with immune cells have a much better prognosis. These viruses have proven extremely safe in the brain and effective at dealing with issues that frustrate current GBM therapies.

This project will engineer an adapted virus designed to activate immune cell populations that are already established at high levels in the majority of individuals with GBM. Almost all GBM patients in Canada would be eligible for this therapy at the clinical trial phase. The virus will also be designed to act as a beacon that guides these activated immune cells to the tumour site.

With previous success in bringing oncolytic viruses to clinical trial, this streamlined and highly rational project is uniquely positioned to succeed in its goal of bringing this technology to Phase I/IIa trials, and ultimately vastly improving the outlook of GBM patients in Canada.

Catalyst project investigators



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

BioCan Biotherapeutics for Cancer Treatment Biothérapies pour le traitement du cancer