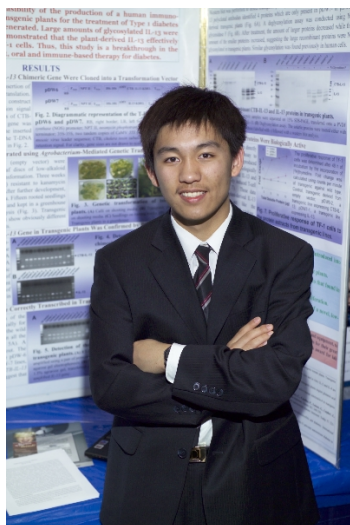


CWSF 2006 - Saguenay, Québec



David Wang

Engineering A Cure for Diabetes

Division: Biotechnology

Category: Senior

Region: London District

City: London, ON

School: A.B. Lucas S.S.

Abstract: This project investigated the feasibility of the cost-effective production of a human regulatory cytokine, IL-13 in transgenic plants for the treatment of Type 1 diabetes (T1D). Transgenic plants producing large amounts of IL-13 were generated. In vitro bioassays demonstrated that the plant-derived IL-13 effectively induced the proliferation of T1D-associated T-lymphocytes. Thus, this study represents a novel, low-cost, oral, immune-based therapy for diabetes.

Awards	Value
Honourable Mention - Biotechnology & Pharmaceutical Sciences Senior Sponsor: Rx&D Health Research Foundation	\$100
Total	\$100