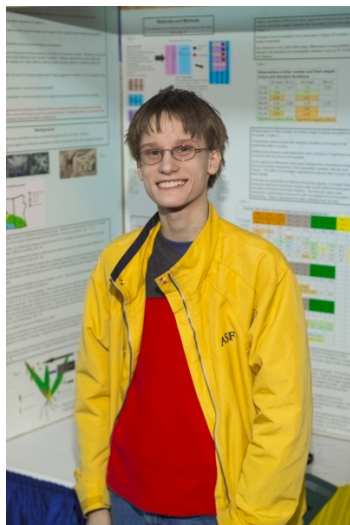


## CWSF 2005 - Vancouver, British Columbia



### Brent Puchalski

#### Plant Defence Pathogen Siege, A Microplot Story

**Division:** Biotechnology

**Category:** Intermediate

**Region:** Lethbridge

**City:** Lethbridge, AB

**School:** Winston Churchill High School

**Abstract:** Exploitation of a plant's natural defence mechanisms can provide opportunities to reduce snowmold losses in winter cereals. A foliar application of salicylic acid pathway activators decreases plant mortality when challenged by snowmold/low temperature stresses. Greater gains in survival occur in susceptible types compared to resistant varieties when defence is stimulated.

Awards	Value
Agriculture and Agri-Food Canada Award - Intermediate Sponsor: Agriculture and Agri-Food Canada	\$750
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Biotechnology & Pharmaceutical Sciences Intermediate Sponsor: Rx&D Health Research Foundation	\$300
Total	\$2 050