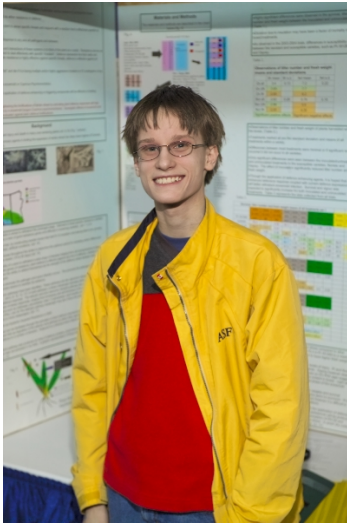


CWSF 2005 - Vancouver, British Columbia



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 |