



CWSF 2012 - Charlottetown, Prince Edward Island



Helping the Grain Industry: Developing a RT-PCR based purity test for Durum

Challenge: Innovation **Category:** Senior

Region: City: School:

Abstract: Purity is a crucial component of the seed grading system; purity determines

a crop's value. The total number of 25 Canadian west durum varieties adds great difficulty to the conventional approach to seed purity determination. The current methodology to determine the purity, protein analysis, is labour intensive and time consuming. In this project, a real-time polymerase chain

reaction (RT-PCR) was explored as an alternative method.

Awards	Value
The Canadian Society for the Weizmann Institute of Science Scholarships Joseph W. and Joel Anthony Leon Kerbel Scholarship	\$9 400
Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Canada)	
Excellence Award - Senior - Silver Medal	\$700
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$18 600



