



CWSF 2011 - Toronto, Ontario



Brittney Allen

Chill Out! Abjotic Stress Tolerance in Plants

Challenge: Discovery
Category: Senior
Region: Fundy

City: Saint John , NB

School: St. Malachy's Memorial High School

Abstract: This experiment evaluated the effectiveness of antioxidant biostimulant

foliar sprays on improving growth and abiotic stress tolerance of lettuce germinants. Foliar sprays were applied eleven days post germination for 4 weeks. Foliar spray combination of Ascophyllum nodosum extract and Vaccinium angustifolium protected plants from chilling and reduced abiotic stress. Antioxidant sprays were less effective at improving abiotic stress

tolerance, although improved growth results were observed.

Biography

Brittney Allen, a grade 11 high honors student, is enrolled in the French Immersion program at Saint Malachy's Memorial High School in Saint John New Brunswick Also a CWSF finalist in 2010, she has successfully competed in numerous district and regional science fairs, and was awarded the Promising Student Award in Biotechnology at the NB Fundy Regional Science Fair (2006). A recipient of the Saint Malachy's Memorial High School Coffee Award for academic achievement and outstanding contribution to school life, she is also a member of her high school girls Field Hockey team, Track & Field team and she also competed with the Cheerleading team winning the N.B provincial title in 2009. Brittney is also an accomplished competitive dancer, competing and training nationally and internationally. Brittney plans to pursue a career in medicine.

Awards	Value
Challenge Award - Discovery - Senior	\$1 000
Sponsor: Youth Science 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)	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$10 200



