



CWSF 2012 - Charlottetown, Prince Edward Island



Brittney Allen

I'm Lichen It! Biotic de-Stress Foliar Spray

Challenge: Discovery
Category: Senior
Region: Fundy

City: Saint John, NB

School: St. Malachy's Memorial High School

Abstract: Lichen extract foliar sprays applied to lettuce germinants suppressed fungal

pathogen growth (Botrytis cinerea), resulting in enhanced growth and increased biotic stress response. A combination spray (Ascophyllum nodossum seaweed and Usnea cavernosa lichen extracts) promoted enhanced biotic stress response and eliminated pathogen growth. In vitro growth inhibition of the fungal pathogen by lichen extracts of Evernia mesomorpha, Cladonia rangifernia and Usnea Cavernosa was also

confirmed.

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Brittney Allen is a grade 12 high honors student enrolled in the French Immersion program at Saint Malachy's Memorial High School in Saint John New Brunswick. A past CWSF finalist in both 2010 and 2011, she has also successfully competed in numerous district and regional science fairs. Brittney was a member of Team Canada MILSET 2011, participating as an ambassador for Canada at this international science event held in Bratislava Slovakia. She is a recipient of the Saint Malachy's Memorial High School Coffee Award for academic achievement and outstanding contribution to school life, Team Captain of her girls Field Hockey team and Envirothon Team, a member of the Track & Field team and she competed with the Cheerleading team winning the N.B provincial title in 2009. Brittney is an accomplished competitive dancer, competing and training nationally and internationally, and she choreographed the MILSET Team Canada closing ceremony presentation. Brittney plans to complete a Bachelor of Science degree and pursue a career in medicine.

Awards	Value
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	\$9 200





