



CWSF 2012 - Charlottetown, Prince Edward Island



Alexandra Ficht

A Study of the Leaf Striping in Barley

Challenge: Discovery Category: Senior

Region: Waterloo-Wellington **City:** Kitchener, ON

School: St. John's-Kilmarnock School

Abstract: This project aimed to determine whether the variegated leaf striping in

barley is controlled by the cytoplasmic genome, nuclear genome or both. Further investigations were made regarding the number of chloroplasts in normal vs. defective leaves to identify the difference in energy production

via photosynthesis.

Biography

My name is Alexandra Ficht and I am a grade 12 student at St. John's Kilmarnock School. I have participated in science fair at my local school since I was in grade 5; however, this is my first CWSF. At my regional science fair, I was awarded with a Gold Medallion, Best in Division (biotechnology), Award of Merit, Google Young Researchers Award and an Award of Excellence. Next year I plan to attend university to study biochemistry and molecular genetics and then pursue a career in the medical field (research doctor). I received the inspiration for my project from my chemistry teacher, who introduced me to one of his graduate professors at the University of Guelph. After CWSF, I plan to continue research at the University of Guelph under the supervision of Dr. Duane Falk, and perhaps publish a paper with him.

Awards	Value
Excellence Award - Senior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$23 500



