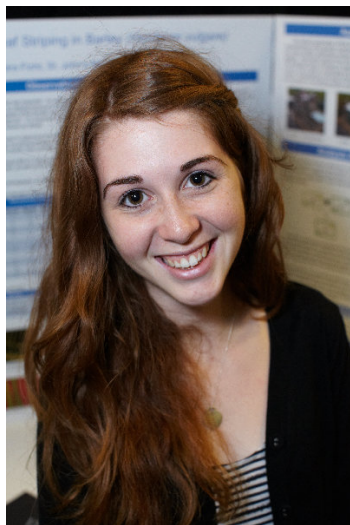


# CWSF 2012 - Charlottetown, Prince Edward Island



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