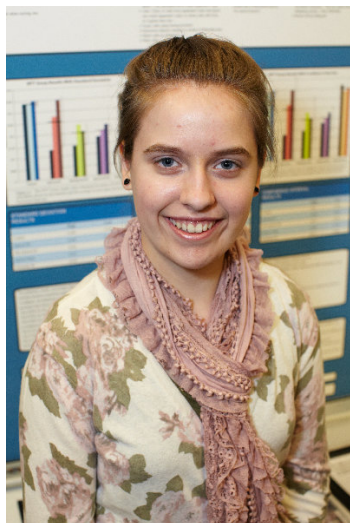


# CWSF 2012 - Charlottetown, Prince Edward Island



## Emily O'Reilly

### The Effects of *Prunus armeniaca* (apricot kernel) on HeLa Cancer Cells

**Challenge:** Discovery

**Category:** Intermediate

**Region:** Central Interior British Columbia

**City:** Prince George, BC

**School:** College Heights Secondary

**Abstract:** This project aims to evaluate the effects of *Prunus armeniaca* kernel extracts on HeLa cancer cells by using a growth assessment method called (3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltertrazolium bromide (MTT) Assay. HeLa cells are a fast and aggressive cancer typically found in the cervix.

#### Biography

My name is Emily O'Reilly, I am 14 years old and in grade 9. This will be my third year attending the CWSF. At the Central Interior Regional Science Fair, my project received a Gold medal, The Darrel W. Dimler Judges Choice Award, The Northern Health Award and the Best in Health Sciences Award. At school I am on the Principals list and participate in the Senior Leadership, Interact, and Debate. This year I was chosen to represent my region at the BC Provincial Speech and Law Foundation Cup Championship. I also play the violin in the senior school band and have played in the Community Northern Orchestra. In addition, I play classical piano - grade 8 repertoire, hold an orange belt in judo, enjoy cross country skiing, and am working towards my Bronze Star in swimming. My project was inspired by a story my grandfather shared with me. My plan for future investigations pending ethics approval would be human participation and the best advice I can give to other students is "You don't know till you try; you have the potential to change the world!" My dream is to find a cure for Alzheimer's disease.

#### Awards

#### Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 700