

CWSF 2016 - Montreal, Quebec



Caitlin Mungall

Maple Syrup can FIX that

Challenge: Discovery

Category: Junior

Region: Greater Vancouver

City: Vancouver, BC

School: Prince of Wales Secondary

Abstract: Formalin is a standard fixative worldwide, however, countless health hazards have left scientists looking for a substitute. The aim of this experiment, was to identify a non-toxic preservative that could replace formalin. Through a six step process, it was determined that maple syrup is a suitable preservative of plant tissue.

Biography

Caitlin, a grade 8 student attending Prince of Wales Mini School, has enthusiasm for dance, literature, and science. For Science Fair this year, she pursued an alternative fixative for formalin, due to the health hazards with those who work with it closely, such as pathologists. Inspiration can be found anywhere, in this case, Maple Syrup was the alternative preservative chosen! As a continuation of this project, nucleic acids could be extracted from the plant tissue preserved with 10% Maple Syrup, to determine if the tissue cells were preserved on a molecular level. For any young scientists planning on participating in Science Fair in the future, remember to follow your passion, and good luck in any and all future endeavors!

Awards

Value

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

