

## CWSF 2015 - Fredericton, New Brunswick



### Evaluating antimicrobial plant-derived compounds

**Challenge:** Innovation

**Category:** Senior

**Region:**

**City:** ,

**School:**

**Abstract:** Observing the inhibition of bacterial communication in *V. fischeri*, seen as decreased luminescence, provides a new method to screen for effective antimicrobial plant-derived compounds. Various compounds in Holy Basil were isolated using HPLC, and screened for their effectiveness. The same was done for its essential oils, but without contact. Interestingly, the volatile compounds are more effective antimicrobials than the compounds which were isolated.

Awards	Value
Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000