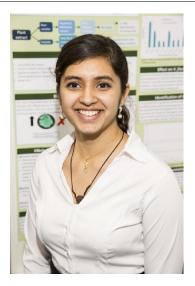




CWSF 2015 - Fredericton, New Brunswick



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 | \$1 000 |
| Senior Bronze Medallist - \$1000 Entrance Scholarship | |
| Sponsor: University of Ottawa | |
| Western University Scholarship | \$1 000 |
| Bronze Medallist - \$1000 Entrance Scholarship | |
| Sponsor: Western University | |
| Total | \$2 000 |



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