

## CWSF 2014 - Windsor, Ontario



### Quorum sensing: A novel approach for identifying anti-microbial herbal plants

**Challenge:** Innovation

**Category:** Intermediate

**Region:**

**City:** ,

**School:**

**Abstract:** Measuring reduction of luminescence in *V. fischeri* due to the addition of 6 medicinal plants (Holy Basil, Cumin, Coriander, Nutmeg, Turmeric & Artemisia) is a new approach for quantifying the efficiency of their anti-bacterial compounds. This research explored the effect of extracts in direct contact with bacteria as well as the volatile effect of fresh leaves and compounds without contact.

Awards	Value
Challenge Award - Innovation - Intermediate Sponsor: BlackBerry	\$750
Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$5 450</b>