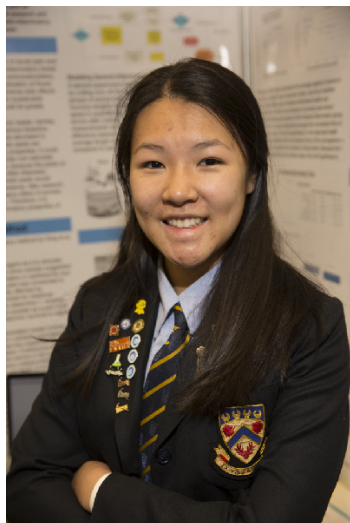


# CWSF 2016 - Montreal, Quebec



## Eva Cai

### Evaluation of Anti-Inflammatory Effects of Flavonoids in Pomelo Peel Extracts

**Challenge:** Health

**Category:** Senior

**Region:** Greater Vancouver

**City:** West Vancouver, BC

**School:** Collingwood School

**Abstract:** This project assesses anti-inflammatory properties of pomelo peel extract (PPE). This is achieved by modelling general and intestinal inflammation in earthworms. The results of this experiment suggests a positive effect of the PPE on intestinal inflammation and an indeterminate effect on wound healing. Through more research and experiment, PPE can be a potential anti-inflammatory drug, giving a novel value to the common organic waste.

#### Biography

Eva Cai is a grade 11 student at Collingwood School in West Vancouver, BC. She enjoys challenging herself, particularly through participating in science fairs and competitions. Eva is also a programmer and project manager for the school's robotics team. Both science fairs and robotics has contributed significantly to Eva's learning experience in science and technology. When she is not working on a robot or an experiment, Eva can be found mentoring younger students, editing the newest issue of her school's Arts Magazine, or playing badminton. For her project this year, she was inspired to determine a novel usage for a common organic waste. In the future, Eva would like to work in a lab to verify the health benefits of pomelo peel extract from various aspects. She hopes to pursue biomedical engineering in university. Eva's advice to fellow students interested in science fairs is to not fear of dreaming big, and to take one step at a time.

#### 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
<b>Total</b>	<b>\$2 000</b>