

# CWSF 2011 - Toronto, Ontario



## Jasmine Cheng

### The Psidium Theorem

**Challenge:** Resources

**Category:** Senior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Sir Winston Churchill Secondary

**Abstract:** This project was carried out to investigate the anti-diarrhoeal properties of Psidium guajava leaf extract through research and experimentation in three main areas of evaluation: antibiotic/antimicrobial action, tannin concentration/astringency of active anti-inflammatory compounds, and quercetin's role as a protein synthesis inhibitor capable of combating effects of endotoxemia by LPS endotoxins.

#### Biography

I am a 11th grade student in the IB program at Sir Winston Churchill Secondary in Vancouver, BC. My favourite subject is science (specifically microbiology), which is also the field in which I'd like to pursue a career (post-secondary). My hobbies include playing violin, reading detective fiction and watching TV. My project deals with investigating the mode of action of the chemical constituents of a plant extract as a potential anti-diarrheal agent.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
<b>Total</b>	<b>\$2 300</b>