

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
Total	\$2 300