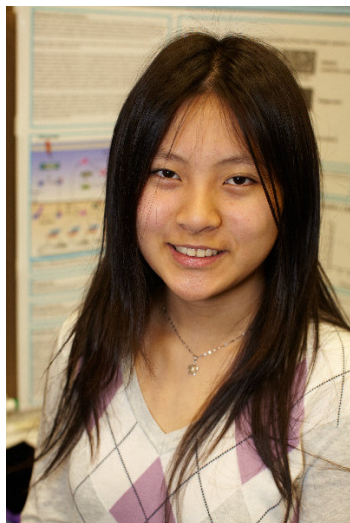


CWSF 2012 - Charlottetown, Prince Edward Island



Maggie Wang

Magnolia: Effects on Breast Cancer Cells

Challenge: Health

Category: Senior

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary

Abstract: Two extracts from the Magnolia family, Magnolol and Honokiol, were tested with breast cancer cell lines, MDA-231, and MCF-7 to determine whether the compounds inhibit cell viability and discover the optimum drug concentration.

Biography

The author of the project, Maggie Wang attends the International Baccalaureate program at Sir Winston Churchill Secondary School. Her favourite subjects are biology and history. Outside of school, she enjoys skiing, lifeguarding and hanging out with friends. Maggie Wang was inspired to do the project after reading an article on the Magnolia family. She has always been curious about the potential of using natural extracts to counter cancer growth. With the help of her mentor, Michael Hughes, she learned more than she could possibly imagine about the process behind doing medical research. Maggie plans on continuing her research through the summer and hopes to test the compounds in vivo.

Awards

Value

University of Ottawa Undergraduate Research Scholarship Award Sponsor: University of Ottawa, Faculty of Science	\$10 000
Excellence Award - Senior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$300
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
Total	\$12 300