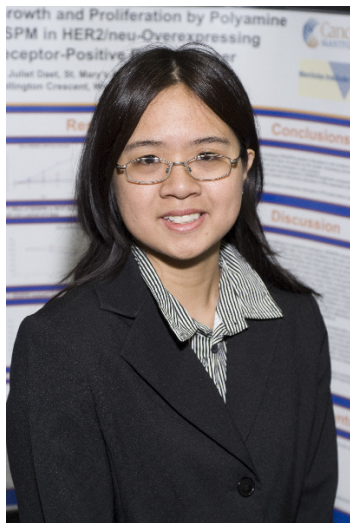


CWSF 2009 - Winnipeg, Manitoba



Juliet Daet

Inhibition of Cell Growth by Polyamine Analogues in Breast Cancer

Division: Life Sciences / None
Category: Senior
Region: Manitoba Schools Science Symposium
City: Winnipeg, MB
School: St. Mary's Academy
Abstract: Polyamines are vital for DNA synthesis and cell growth. Diethylnorspermine (DENSPM), is a polyamine analogue which causes cellular events which inhibit cell growth. Effects of DENSPM were measured in MCF7 cells, which lack or overexpress the HER2 growth factor. A reduction in both cell numbers and ERa expression was observed, suggesting that DENSPM could be a new approach to cancer therapy.

Biography

My name is Juliet Daet, a Grade 12 student from Winnipeg, Manitoba. I've been involved in science fairs since I was in Grade 4, and my fascination with research and innovation has only expanded since then. The science fair experience has allowed me to blossom into the passionate young scientist that I am today. In addition to being a student researcher, I am also an avid public speaker and journalist for my school newspaper. It was also my pleasure to help coordinate my school science fair, and play a part in the mentoring of junior budding scientists. I plan on obtaining a biochemistry degree, and hopefully pursue medical studies.

Awards

Value

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
Bronze Medal - Health Sciences - Senior Sponsor: Canadian Institutes of Health Research	\$300
Total	\$2 300