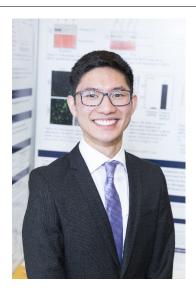




CWSF 2018 - Ottawa, Ontario



Nikko-Johan Lee

A Novel Strategy for Preferential Killing of Breast Cancer Cells

Challenge: Discovery Category: Senior

Region: Calgary Youth City: Calgary, AB

School: St. Mary's High School

Abstract: Treating breast cancer is still a challenge to this day. My goal is to

determine whether the protein, calsyntenin-3, could be targeted to kill breast cancer cells. By depleting calsyntenin-3 from cancer cells, I found that I could increase stress levels and induce death of these cells.

Therefore, elimination of calsyntenin-3 could potentially be used as a new

strategy to treat breast cancer.

Biography

My name is Nikko-Johan Lee. I am a grade 12 student attending St. Mary's High School in Calgary, Alberta. I am a consistent honour student and am working towards a diploma in piano performance. I enjoy ice hockey and have been playing as a goalie since age 8. As a certified ice-hockey referee, I take pride in maintaining safety and order among players and coaches. Off ice, I offer free tutoring in math and physics to friends. As a volunteer for an annual Calgary Health Fair through a Foundation that awarded me a Scholarship for Academic Excellence, I engage in activities that promote health care. Together with my family's support for breast cancer research, I developed my passion for health research and desire to pursue a degree in medicine. I became aware of the need to develop effective treatments for cancer. Therefore, I grabbed the opportunity to perform breast cancer research at the University of Calgary. I collected some exciting data and wish to continue working on my project and hopefully, publish a paper. For students considering to do a project, I suggest that they pursue something that they find exciting. Fascination can bring out extraordinary results.

Awards	Value
Excellence Award - Senior - Silver Medal	
Sponsor: Youth Science Canada	
Challenge Award - Discovery - Senior	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$2 000
Senior Silver Medallist - \$2,000 Entrance Award	
Sponsor: Carleton University	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$10 500





