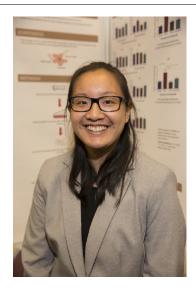




## CWSF 2016 - Montreal, Quebec



## **Janice Pang**

## Macrophage Phenotype and Function: Effects of Islet Hormone Signaling

Challenge: Health Category: Senior

Youth Science Canada

Pickering ON L1V 2R4

PO Box 297

416-341-0040

Region: **Greater Vancouver** City: Coquitlam, BC

School: Pinetree Secondary School

Bone-marrow derived macrophages were treated with insulin or glucagon to Abstract:

> determine the effects of islet hormone receptor signaling on macrophage phenotype and function. This study demonstrates potential novel effects of glucagon on macrophage polarization. A better understanding of islet hormone signaling can potentially lead to future studies investigating the effectiveness of targeting islet hormone signaling in type 2 diabetes.

## **Biography**

Janice Pang is a grade 12 honour roll student at Pinetree Secondary School. Since the age of 13, she has been extremely interested in immunology. For the past four years, her research has focused on type 2 diabetes. Along the way, she competed at the 2012 and 2013 Canada-Wide Science Fair, receiving a gold medal and the Health Challenge Award for both years. Notably, she was honoured to represent Canada at the 2015 Intel International Science and Engineering Fair. Besides pursuing her passion for science, she represented the Coquitlam Curling Club at the 2014 BC Winter Games, and the 2014 and 2015 Tim Hortons BC Junior Provincial Curling Championships. Furthermore, she is passionate about nature, especially sustainability. Since 2015, she has served as one of the Regional Directors for Sustainable Youth Canada. In her spare time, she enjoys reading, listening to music, as well as going on hiking trips. Through her research, she hopes to not only make a difference in the lives of millions of people around the world but she also wants to inspire youth to pursue science at an early age.

Awards	Value
Excellence Award - Senior - Silver Medal	
Sponsor: Youth Science Canada	
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	\$8 500



