



## CWSF 2018 - Ottawa, Ontario



## Biography

William Shen is a research volunteer at Simon Fraser University, a student and school president at Burnaby North Secondary, and an incoming freshman at Harvard University. He began his current research on Dengue virus and vector immunology after thoroughly enjoying other immunology research experiences experiences in immunochromatography at a Burnaby-based pharmaceutical company and feline cancer immunotherapy at Cornell Veterinary School. When he is not conducting experiments in the lab or advocating for student voice around the district, William can be found painting photorealistic portraits, performing violin, hunting for the newest music, learning new culinary dishes, or hitting the ski slopes. He intends to pursue an MD-PhD before becoming a surgeon-researcher.

## William Shen

## Exploring the Genetic Basis of Dengue Virus Transmission

<b>Challenge:</b>	Health
Category:	Senior
Region:	Greater Vancouver
City:	Burnaby, BC
School:	Burnaby North Secondary
Abstract:	The Dengue virus infects 390 million people per year and lacks a specific treatment. Dengue is transmitted primarily by Aedes aegypti mosquitoes; thus, identifying the mosquito genes that aid or hinder viral transmission may allow us to genetically engineer mosquitoes resistant to the virus and develop Dengue-targeting drugs. This project studies the effect of suppressing expression of candidate gene CLIPB34 on Dengue virus transmission.

Awards	Value
The Actuarial Foundation of Canada Award - Senior	
Sponsor: The Actuarial Foundation of Canada	
Excellence Award - Senior - Gold Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$4 000
Senior Gold Medallist - \$4,000 Entrance Award	
Sponsor: Carleton University	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$27 000



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