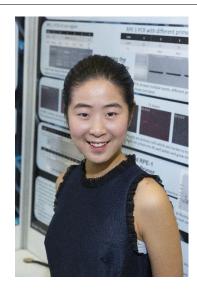




## CWSF 2018 - Ottawa, Ontario



## **Mary Wan**

## Artemis and Recovery After Radiation and Chemotherapy Induced DNA Damage

Challenge: Health Category: Senior

Region: Calgary Youth
City: Calgary, AB
School: Webber Academy

**Abstract:** This project investigates the role of Artemis in the repair of radiation and

chemotherapy induced DNA damage in the hopes of increasing the effectiveness of cancer treatment. These cancer therapies alone introduce two of the most lethal types of DNA damage and combined create the

interstrand crosslink-capped double strand break.

## **Biography**

My name is Mary and I am currently a grade 11 student at Webber Academy. Along with pursuing my interest in molecular biology, I also enjoy playing basketball on the school team and I like to recite poetry. My interest in DNA grew extensively starting in school. I was ecstatic to hear that my teachers were able to find a mentor for me whose main area of study was DNA. I also want to investigate the possibility of altering the genetic code and the tools to achieve that. It's imperative that students like myself stay motivated, passionate, and enjoy their projects like I do.

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$1 000
Senior Bronze Medallist - \$1,000 Entrance Award	
Sponsor: Carleton University	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$3 000



