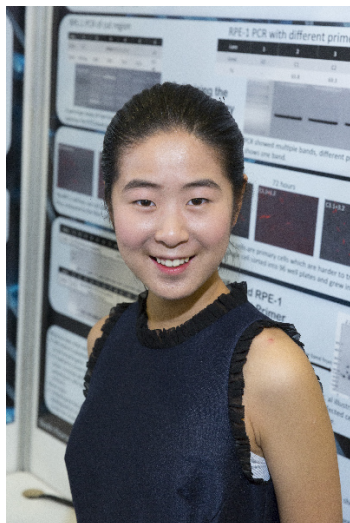


CWSF 2018 - Ottawa, Ontario



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 Senior Bronze Medallist - \$1,000 Entrance Award Sponsor: Carleton University	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$3 000