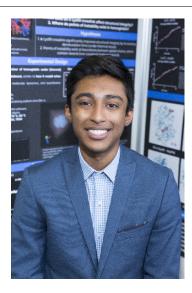




CWSF 2018 - Ottawa, Ontario



Faris Fizal

Computationally Assessing the Structural Stability of HBOCs with MD Stimulations

Challenge: Innovation Category: Senior

Region: Calgary Youth City: Calgary, AB

School: Westmount Charter School

Abstract: Now more than ever, there is a global need for human blood, however,

most don't have access to it. Computational simulations are used to stabilize hemoglobin for use as an alternative to traditional blood

transfusions. Four novel cross-linking targets have been discovered, which

can be used to develop a safe, low-cost blood product for use in

emergencies or in impoverished areas.

Biography

Hi! I'm Faris Fizal and I'm currently a grade 11 student at Westmount Charter School in Calgary, Alberta. My project this year advances an alternative to blood transfusions, which most of the world doesn't have access to, but desperately needs. This is my seventh year participating in science fair, and my third time attending CWSF? each year I've had the opportunity to meet smart, driven peers from across the country and gain valuable skills and knowledge. I would definitely recommend science fair to anyone who loves to explore, learn, and innovate! Ultimately, science fair is about creating opportunities through learning, so anyone can do it!

Awards	Value
Excellence Award - Senior - Silver Medal	
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



