



CWSF 2011 - Toronto, Ontario



Adrian Howie

Searching for Neuroprotectants in Natural Compound

Challenge: Health
Category: Senior
Region: Halifax
City: Halifax, NS

School: Citadel High School

Abstract: The purpose of this project is to identify neuroprotective compounds in

potatoes with potential to reduce the damage and fatalities caused by stroke. Several extracts tested in a stroke model showed neuroprotection.

To better understand mode of action a new zebrafish model was developed. Results included one extract that reduced stroke damage by 40%. This extracts has great potential and merits further investigation.

Biography

My name is Adrain Howie, I'm 18 years old and I live in Halifax Nova Scotia. I'm in grade 12 at Citadel High. I have lived in Halifax most of my life except for grades 5 and 6, when I lived in Ottawa. My favorite sports are tennis and football. I play and coach tennis year round, and was on the provincial champion high school football team. I am active in my community and in my church. Over the last year i have formed a group called "Youth Science and Technology Mentors" and now help run develop programs throughout the province. I did the regional science fair for six years now, and this is the fifth time going to nationals.

Awards	Value
Excellence Award - Senior - Silver Medal	\$700
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)	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Total	\$9 200



