

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 Sponsor: Youth Science Canada	\$700
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Total	\$9 200