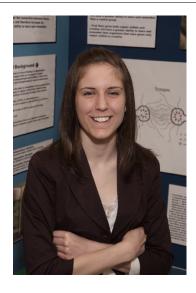




## CWSF 2007 - Truro, Nova Scotia



## Karleigh Turnbull

## Copper or Coincidence?

Division: Physical & Mathematical Sciences / None

Category: Senior

**Region:** Chignecto East **City:** Pictou, NS

School: Pictou Academy-Dr. T. McCulloch School

Abstract: This project studied whether an increase in copper in the brain could

improve an organism's ability to learn and remember. Fruit flies were the test specimen and classical conditioning was used to test memory and learning ability after increasing their copper intake. It was found that an increase in copper can strengthen an organism's ability to learn and

remember.

## **Biography**

I enjoy being involved in many activities in my community. At the Trenton Nazarene Church I am part of the Nazarene Youth International Atlantic Council, nominating committee, and youth group. I have also counselled at the Nazarene Church's summer camp for several years. At my school, Pictou Academy, I have been involved in the school band, Yearbook Committee, Spirit Committee, Math Society, and am co-chair of the Youth Health Committee. I play guitar, flute, sing in the Pictou District Honour Choir and am part of the Trenton Nazarene Church's youth worship band. I was chosen to attend Encounters With Canada, as well as a Science camp at Dalhousie University. In grade eleven I was awarded for having the second highest standing. I have also received many bronze, silver, and gold medals at the New Glasgow Music Festival. At the Chignecto-East Regional Science Fair I was awarded first place and best application of scientific method in the senior division. I have also received a \$1000 and \$12 000 scholarship to Saint Francis Xavier University. After high school I will be attending St FX in their school of nursing. Afterwards, I would like to work in a hospital in the Maritimes.

Awards	Value
Dalhousie University Faculty of Science Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 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	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Life Sciences - Senior	\$700
Sponsor: Pfizer Canada	
Total	\$6 200



