



CWSF 2017 - Regina, Saskatchewan



Caitlin Howard, Chloe Carriere

The effect of Urtica dioica on the Alzheimer profile in Drosophila melanogaster

Challenge: Health
Category: Senior
Region: North Bay
City: North Bay, ON

School: St. Joseph-Scollard Hall

Abstract: Abnormal function of the neuronal protein Tau is associated with

Alzheimer's Disease, which can be modelled in Drosophila by driving human Tau expression within neurons. This study aimed to examine the

ability of an extract of Urtica dioica (stinging nettle) to improve

Alzheimer's-related phenotypes in this model system.

Biographies

Caitlin - My name is Caitlin Howard and I am from North Bay, Ontario. At school, I am the Student Trustee on our Student Administrative Council. I am in grade 12, and currently am deciding between schools for post secondary. The inspiration for this project sprung from our enjoyment of science, and my specific enjoyment for neuroscience. To further our investigation, we plan to draw more conclusions and do more tests on the locomotor function in Drosophila, and to introduce Tau proteins to learn more about other diseases such as MS. My advice for other students thinking about doing a project is to reach out for help from professionals to achieve the be...

Chloe - I'm a grade 12 student at St. Joseph-Scollard Hall, in North Bay, Ontario. I am the vice president of our Student Administrative Council, participate in mission trips to Costa Rica with the Duke of Edinburgh program, and have a strong passion for science. I love to spend my summers and spare time camping, canoeing, volunteering, and composing my own music on the piano. This September I will be attending The University of Ottawa to study political science and women's studies, and wish to eventually become a lawyer. I was inspired to do this project by my love for biology and an interest in the medical field, as well as my passion for making po...

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000



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