

CWSF 2008 - Ottawa, Ontario



Ashley Millette

Ocular pigmentation and longevity in *Drosophila melanogaster*.

Division: Physical & Mathematical Sciences / None

Category: Senior

Region: Quinte

City: Belleville, ON

School: Moira S.S.

Abstract: It has been predicted that in 2008, 73,800 Canadians will die of some form of cancer. Eye colour in *Drosophila melanogaster* is attributed to two types of pigments, pteridines and ommochromes. Pteridines have been found to be effective as anticancer drugs. Are *D. melanogaster* with pteridines in their eyes more protected from UV radiation than those with only ommochromes in their eyes?

Biography

I am currently in the 11th grade, and am currently working towards the completion of a bilingual International Baccalaureate Programme diploma at Moira Secondary School in Belleville, Ontario. I play rugby, volleyball, badminton, and am also on my school's track and field team. I am an active member of my school's EarthCare team, and I am head of the Communications and Community Outreach Committee on student council. I recently organized Random Acts of Kindness Week within my school, as well as a Penny Drive to raise money for HIV/AIDS awareness. When I graduate, I plan on completing an undergraduate degree in Biology before proceeding to medical school where I hope to complete further studies to become an oncologist.

Awards

Value

Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 000
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 - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$3000 Entrance Scholarship Sponsor: University of Ottawa	\$3 000
Silver Medal - Life Sciences - Senior Sponsor: Pfizer Canada	\$700
Total	\$9 200