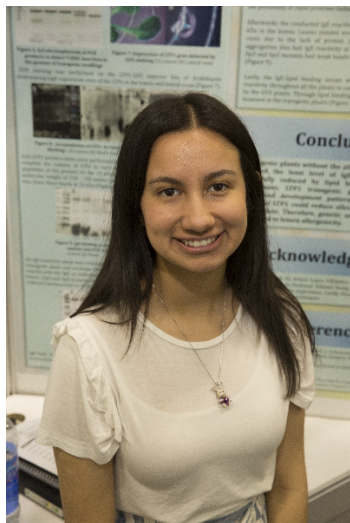


## CWSF 2019 - Fredericton, New Brunswick



### Monica Aida Lopez

#### Lessening Allergic Activities of Lipid Transfer Proteins in Plant Tissue

**Challenge:** Discovery

**Category:** Senior

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** Westmount Charter School

**Abstract:** Lipid transport proteins (LTPs) have been identified as allergenic proteins within plants. Transgenic plants lacking these proteins were demonstrated to be less allergenic without affecting normal growth and development of the plant. Lipid binding was another chemical strategy used in the experiment to further lessen allergenicity of the LTPs.

#### Biography

My name is Monica Aida Lopez Quiroz, I am in Grade 11 and I was born in Ashford, Kent, England. I go to Westmount Charter School and play piano. In the future I would like to go into molecular biology and biotechnology. I hope to continue my project using human sera from allergy patients as samples, in order to more accurately determine allergenicity. I would tell other students that no matter how many failures you endure, if you are passionate about something if you keep trying and working hard, you will reach success. Never give up on your goals just because they aren't easy to accomplish.

#### Awards

#### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	
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
University of New Brunswick Canada-Wide Science Fair Scholarship Silver Medallist - \$2500 Entrance Scholarship Sponsor: University of New Brunswick	\$2 500
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$11 000</b>