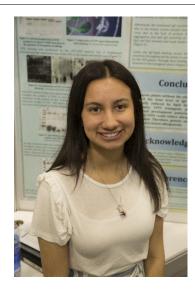




CWSF 2019 - Fredericton, New Brunswick



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	\$2 500
Senior Silver Medallist - \$2500 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)	
University of New Brunswick Canada-Wide Science Fair Scholarship	\$2 500
Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: University of New Brunswick	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$11 000



