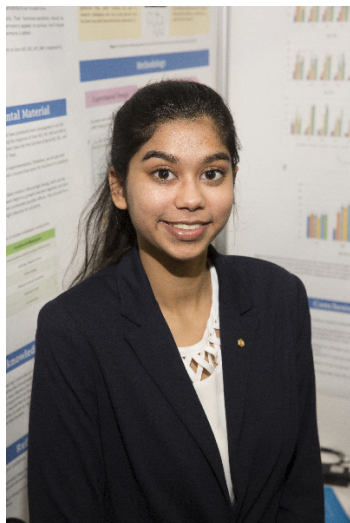


CWSF 2019 - Fredericton, New Brunswick



Guntaas Kaur

Insights into Cytokinin Functions: Characterizing Arabidopsis thaliana Mutants

Challenge: Resources

Category: Intermediate

Region: Peel

City: Mississauga, ON

School: St. Marcellinus

Abstract: Arabidopsis thaliana provides us with the means to identify variations that affect plant growth. Cytokinins are key regulators and much remains to be learned about how these hormone signals are transmitted at the molecular level. Here we exposed different lines of Arabidopsis to varying concentrations of the cytokinin N6-benzylamino-purine. Root responses of these plants could give us insights into potential uses of cytokinins in agriculture.

Biography

Guntaas is a grade 10 student at St. Marcellinus Secondary School in Mississauga. She is an active student leader in her school and local community, she is part of the Visual Art Executive Council and tries to promote the arts in her community. She will also be participating in the SHAD program in the summer of 2019. Guntaas enjoys sports like tennis and writes spoken word poetry. She has won awards in several science, art and sports competitions. Guntaas has been volunteering in a lab at University of Toronto Mississauga for the past year. She worked with her mentor Professor Katharina Braeutigam on her current project. She aspires to pursue the field of research in the future. Students looking into undertaking an experiment should remember that perseverance is the key quality of a scientist as science is a process of progression.

Awards

Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000