

CWSF 2018 - Ottawa, Ontario



Guntaas Kaur

Discovering the Mechanism of Edelfosine, an Anticancer drug, Using α -Tocopherol

Challenge: Discovery

Category: Intermediate

Region: Peel

City: Brampton, ON

School: Port Credit S.S.

Abstract: The mechanism by which Edelfosine (an anticancer therapeutic) causes selective apoptosis in cancer cells is currently unknown. It is crucial for an oncologist to know the biochemical means of a drug in order to prescribe it. This project improves the present understanding of Edelfosine by testing the present foremost hypotheses regarding its therapeutic mechanism.

Biography

Guntaas is a grade 9 student enrolled in the Scitech program. She is an enthusiastic student and passionate about giving back to the community. Her major interests apart from science are public speaking, tennis, and volunteering. Guntaas has participated and placed in several science, poetry and art competitions, these achievements have honed her various skills and talents that continue to help her in her ventures. In her spare time, Guntaas dedicates her time toward volunteering at a cancer hospital. She was inspired to pursue her project when she witnessed cancer patients undergoing treatment with lesser understood clinical chemotherapies. From there, she set out to research such a drug to make it a more reliable therapeutic. She aspires to be engaged in cancer research and drug development in her future career. 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 - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000