

CWSF 2014 - Windsor, Ontario



Catherine Boisvert, Tiffany Mach

Nicotine Overkill?

Challenge: Health

Category: Intermediate

Region: Montreal

City: Westmount, QC, Montreal, QC

School: The Study

Abstract: This experiment examines the effects of nicotine on the proliferation of the human mammary epithelial cells compared to the MCF-7 breast cancer cells, in order to determine if this toxic substance can stimulate the excessive growth of different types of cells.

Biographies

Catherine - My name is Catherine Boisvert and I am a student at The Study School in Westmount, Quebec. I am involved in many school and community activities, such as sports, plays, choir, jazz band, and concert band. In grade 9, I was awarded the Heckler award at my school, which is awarded to a grade 9 student who has proven herself to be a class leader. I have also participated in numerous science competitions, such as the annual Brain Bee competition and the All Science Challenge. We got our inspiration for our project when we were in advanced biology, since we were discussing mutations and genetic disorders. The main reason why I wanted to do this pr...

Tiffany - My name is Tiffany Mach and I am 15 years old. I attend The Study school in Westmount, Quebec. In my spare time, I enjoy reading, playing percussion, volunteering at diverse establishments and events and playing sports, such as basketball and volleyball. This scientific experiment is something that we hold very dear to our hearts, since we have been personally affected by breast cancer. This disease has taken over thousands of lives, therefore we wanted to explore the different factors that could impact its progression. Even though nicotine does not have an effect on the proliferation of the epithelial breast cells or the breast cancer cells,...

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100