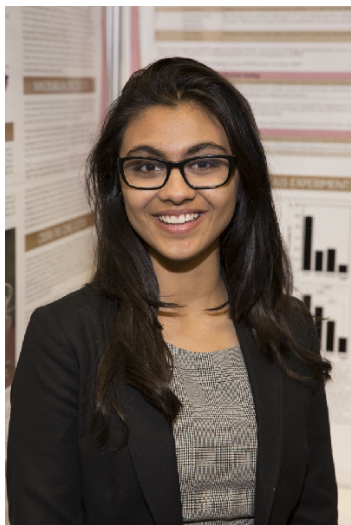


## ESPC 2016 - Montreal (Québec)



### Drishti Thakkar

#### Starving the Cancer

**Défi:** Innovation

**Catégorie:** Sénior

**Région:** Peel

**Ville:** Mississauga, ON

**École:** Port Credit S.S.

**Sommaire:** A two step treatment plan consists of nanoburrs with "drug-eluting core" of a transfection complex of a plasmid expressing Cas9 and gRNA silence gene p53 that causes drug resistance. Step two combines Paclitaxel and curcumin in the drug eluting core of a nanoburr coated with CDC 42 which efficiently targets the tumour while inhibiting tumour growth and reducing side-effects.

#### Biographie

When the doctors said that my mother might have breast cancer, I felt scared, yet inspired to make my mark in cancer research so that more families don't feel the fear I felt. I wanted to make a difference in many lives, like my aunt does as a doctor. So, I set out on a journey to investigate how a spice they forced me to eat, turmeric and nanoburrs, can be used to improve the efficiency and targeting of chemotherapy. As a student wanting to pursue a career in medicine, I'm constantly fascinated by the miraculous functioning of the human body and often find myself hungry to learn more about it. To others thinking of doing a project, go for it. Find a topic that makes you hungry to learn, find your passion, and just do it! As I stand ready to enter university, I feel a rush of excitement to have the opportunity to engage in research in labs to test out my idea. Drishti, my name, means vision. And my vision is to conduct clinical trials with my treatment plan so that it can soothe families receiving bad news or even prevent them from receiving such news.

#### Prix

#### Valeur

Prix d'excellence - Senior - Médaille de bronze Commanditaire: Sciences jeunesse Canada	
Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa	1 000,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
<b>Total</b>	<b>2 000,00 \$</b>