

# CWSF 2016 - Montreal, Quebec



## Surina Grover, Shahmeer Ahmad

### Chemotherapy in a Nutshell

**Challenge:** Health

**Category:** Senior

**Region:** Southeast Alberta

**City:** Medicine Hat , AB, Medicine Hat, AB

**School:** Medicine Hat High School

**Abstract:** We studied the ability of naturally derived compounds to induce cell death on colorectal cancer cells. The anti-carcinogenic properties of our natural compounds were compared to Taxol's ability to induce cell death on the HCT-8 cell. We also tested the differentiation properties of the natural compounds in order to determine the compatibility between exosomal delivery and the use of naturally derived drugs in chemotherapy treatment.

### Biographies

Surina - My name is Surina Grover and I am currently a grade 12 student at Medicine Hat High School. My favourite subjects include: biology, chemistry and anatomy, and I plan to pursue a career in Pediatrics. Apart from academics, I also have a black-belt in Taekwon-Do, and participate in my school's cross country and badminton teams. Additionally, I am an active member of Hat High's: Student Council, Me to We, and Q&A club. This is my first time attending CWSF and I am so grateful to have had the opportunity to complete this research project! For others that are interested in participating in science fair, I suggest you think about a subject or top...

Shahmeer - My name is Shahmeer Ahmad and I'm a grade twelve student at Medicine Hat High School. I've always had a passion for science, sports and finance. Outside of science fair, I actively compete in Tennis, Badminton and Track and Field. I have also obtained a black belt in Taekwondo after three years of rigorous training. Aside from athletics, I am an executive member on my school's debate team, the treasurer on the Hat High Graduate Executive Council, and a member of the Q&A Club where I volunteer as a tutor. During my very limited spare time, I like to relax by hanging out with my friends! Although I'm still not sure on what I want to pursue as a...

### Awards

### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000

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