

# CWSF 2010 - Peterborough, Ontario



## Noorain Shethwala, Sofia Oke

### Chemosensitizers: The Answer to Cancer

**Division:** International

**Category:** Senior

**Region:** Waterloo-Wellington

**City:** Guelph, ON

**School:** Centennial Collegiate & Vocational Institute

**Abstract:** The experiment aimed to reduce the overall side effects of chemotherapy drugs by lowering the dosage of drug used. A BAX tumour suppressor gene and a fowl adenovirus were used as chemosensitizers, to induce apoptosis in colon cancer cells. The experiments proved that chemotherapy side effects can be lowered if patients are administered drug in tangent with a functional BAX gene or a fowl adenovirus.

### Biographies

Noorain - Noorain Shethwala is a dedicated, hardworking grade 12 student at Centennial C.VI. A few activities after school daily transgressed into a plethora of extra-curricular groups, honing various skills and abilities that have continued to help her in all her ventures. Her résumé now boasts of regional, provincial and national awards in the fields of science, business and the arts. Noorain was selected as a youth editor for the city newspaper, the Guelph Mercury. She is on the Ontario Education Minister's Advisory Council where she has participated in forums and conferences in order to dictate how the school system should be run. Through the va...

Sofia - My name is Sofia Oke, and I am a grade 12 student at Centennial C. V. I Guelph. At WWSEF, my partner Noorain and I recieved Gold in Senior Biotech. This past May, we presented our project at the annual Canada-Wide Science Fair and earned the Petro Canada Peer Innovation award. In my spare time I have been fortunate enough to volunteer with are Habitat for Humanity, Canadian Blood Services, St. Joeseph's Hospital and the Canadian Red Cross. I am a passionate member of Global Outreach, my school's humanitarian club, and the Red Cross Youth International Action Group. Also, this year I have had the pleasure of helping to organize my school'...

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Bronze Medal - Health Sciences - Senior Sponsor: Canadian Institutes of Health Research	\$300
<b>Total</b>	<b>\$2 300</b>

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