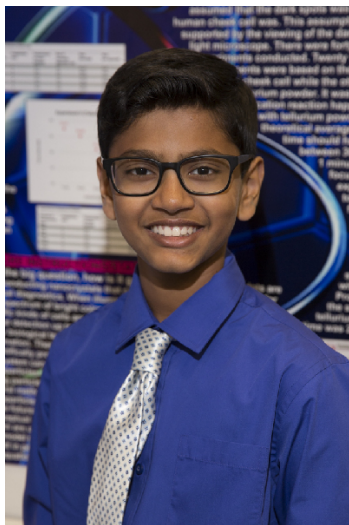


## CWSF 2016 - Montreal, Quebec



### Devarsh Shah

#### Gold Nanoparticles: A novel approach to tumour treatment

**Challenge:** Innovation

**Category:** Junior

**Region:** Lambton County

**City:** Sarnia, ON

**School:** Rosedale E.S.

**Abstract:** This project focuses on a strategy to ameliorate the malignant tumour treatment method, using colloidal gold nanoparticles. Colloidal gold nanoparticles were used in this project because they have the ability to identify a specific cell, by its chemical makeup. Various experiments with different variables were conducted in order to determine the ideal synthesized solution, for this innovative solution.

#### Biography

My name is Devarsh Shah and I am an eighth grade student at Rosedale Public School in Sarnia, Ontario. I enjoy participating in various academic activities, events, clubs, and organizations across my community. Besides academics, I also participate many extracurricular activities such as tennis, badminton, and swimming. I am also a member of the 44 Sarnia Imperial Royal Canadian Air Cadet Squadron. I have gotten many opportunities from the cadet program such as public speaking, debating, and volunteering. My passion for science has driven me to participate in the local science fair and I certainly encourage other students to do the same because, just being in a science fair can give you a great experience! My motivation was a simple question I came up with: If people already know about the negative effects of chemotherapy, why hasn't anyone come up with a better solution? My further plans are to use all of my data to make a conceptual mathematical model and test the solution on a mutated stem cells. My advice to other students is to put all your effort into your project without making the goal of your project about winning awards.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040