



CWSF 2016 - Montreal, Quebec



Adam Martinez

The Effects of Nanosilver on the Ionic Silver Resistant Plasmid (pMG101)

Challenge: Health Category: Junior

Region: Waterloo-Wellington
City: Conestogo, ON
School: Centennial P.S.

Abstract: Ionic silver is an effective antibacterial agent. However, certain bacteria

have developed a resistance to ionic silver. This project's goal was to study whether nanosilver particles, another form of silver, can inhibit the growth of ionic silver resistant bacteria. The results contradicted the hypothesis. Additionally, a control showed that ionic silver at 1mM increases the growth

of resistant bacteria, a result with important medical applications.

Biography

My name is Adam Martinez and I am a grade 8 student from Waterloo, Ontario. My main interests are in the fields of Microbiology and Pure Mathematics. I also like studying foreign languages. I am currently studying Japanese. Other hobbies include fish breeding and playing the piano and violin. I also enjoyed playing Macbeth in a school play this year. I am really excited to be attending the National Science Fair this year!

Awards	Value
Challenge Award - Health - Junior	
Sponsor: AstraZeneca Canada	
Excellence Award - Junior - Gold Medal	\$250
Sponsor: Youth Science Canada	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$4 250



