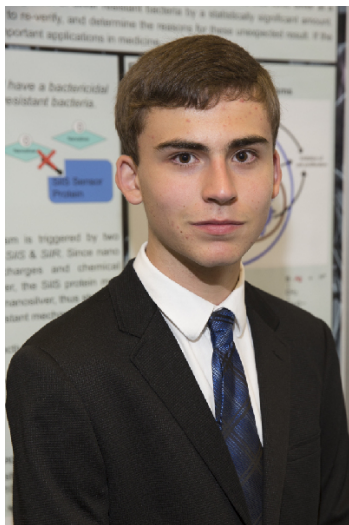


# CWSF 2016 - Montreal, Quebec



## 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 Sponsor: Youth Science Canada	\$250
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$4 250</b>