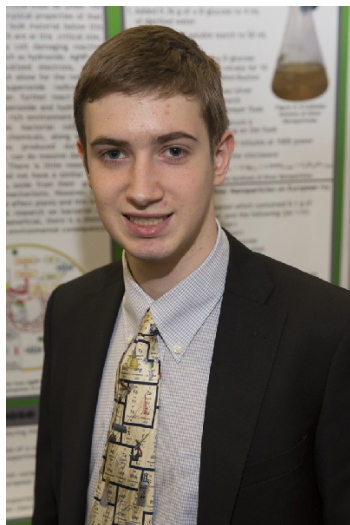


# CWSF 2016 - Montreal, Quebec



## Alexander Waldie

### The Synthesis of Silver Nanoparticles and Their Effects on Plant Growth

**Challenge:** Environment

**Category:** Senior

**Region:** Bay Area

**City:** Mississauga, ON

**School:** King's Christian Collegiate

**Abstract:** Silver nanoparticles have recently been incorporated into clothing and medical products to prevent bacterial growth through a poorly controlled process, that is not solely limited to the intended purpose. This project seeks to determine if silver nanoparticles will have an appreciable impact on the flora exposed to them through the synthesis and testing of silver nanoparticles on plants.

#### Biography

Alex Waldie is currently completing Grade 12 at King's Christian Collegiate in Oakville, Ontario. It was at King's that Alex's interest in chemistry was initiated and where his love of science has grown. Alex's research project was inspired by a washing machine he observed in India that employed silver nanoparticles as a sterilizing agent. Being a follower of science, he began researching silver nanoparticles and completed a school project on them which then grew into a science fair project. Starting this fall, Alex will be studying Physical Sciences at the University of Waterloo. Alex's advice for anyone contemplating a science project is: do it. A project is by no means an easy task, but the experiences and the knowledge you will gain are worth it. Every scientist started somewhere; why not make this project your starting place?

#### 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
<b>Total</b>	<b>\$2 000</b>