

# CWSF 2017 - Regina, Saskatchewan



## Emilie Bordeleau McCallum

### Cancer Free

**Challenge:** Health

**Category:** Junior

**Region:** Ottawa

**City:** Barrhaven, ON

**School:** Bishop Hamilton Private

**Abstract:** Surgery, chemotherapy, and radiation. All are treatments for cancer, none are guaranteed to work. It's time a new treatment was developed, one that can actually cure cancer for good. An experiment was conducted to see if nanobots could identify cancer cells and eliminate them.

### Biography

When I was 4 1/2 my mom was diagnosed with breast cancer. I want to eradicate this disease so no one has to be afraid the way I was. In 2015 I raised almost \$1000 by donating my hair so kids undergoing chemotherapy would have a wig to wear to school. I've attended Bishop Hamilton Montessori School since I was 5 1/2 and I've always been interested in science. I'd like to refine my "Cancer Free" project testing to create a more realistic environment, and someday I want to work with the actual nanobots for live testing. I hope to go to the University of Waterloo and become a software engineer. I am a Pathfinder (a senior branch of Girl Guides of Canada), I play the violin and the ukelin, I sing, I'm earning my blue belt in the martial art of Aikido, I sail and scuba dive, and having completed all eight levels of the Nancy Greene ski program, I'm going into U14 alpine ski racing next winter. My advice to kids about doing a science project is that there is no such thing as a stupid question in science: if you're curious about it, learn about it!

### Awards

### Value

Canadian Artificial Intelligence Association Award - Junior Sponsor: Canadian Artificial Intelligence Association	\$500
Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$1 500</b>