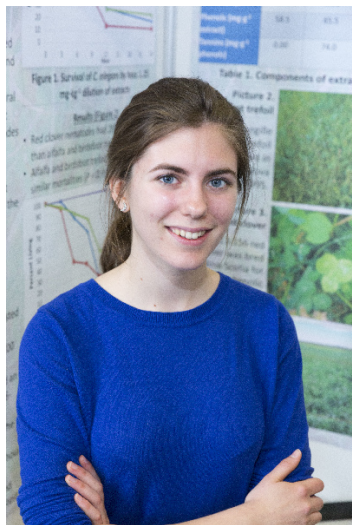


# CWSF 2018 - Ottawa, Ontario



## Maria Duynisveld

### More Than Worms: Local legume phenols and *C. elegans* mortality

**Challenge:** Resources

**Category:** Senior

**Region:** Chignecto East

**City:** Wallace, NS

**School:** Pugwash District High School

**Abstract:** The effects of extracts from Canadian-bred legumes on the mortality of nematodes, a type of stomach worm, were studied. It was found that birdsfoot trefoil had the greatest effect on the nematodes, making this plant desirable for livestock producers to seed, with the goal of improving productivity. This is novel information as it applies to our climate, unlike previous studies, which have an arid focus.

#### Biography

My name is Maria Duynisveld, I am 17 years old, and I am in grade 11 at Pugwash District High School. I competed in the 2015, 2016, and 2017 Canada-Wide Science Fairs, earning two silvers and a gold. I am an active member of 4-H and my local church. In school, I compete in volleyball, basketball, curling, table tennis, and track and field. I also sprint and jump for Pugwash Track Club in the summer. In the future, I plan on operating my family's free-range farm in Wallace Bay, Nova Scotia, and continuing to work toward a more sustainable and efficient farm. My project focuses on natural treatment of parasitic nematodes, through the use of Nova Scotia-raised forages.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
Carleton University Entrance Award Senior Bronze Medallist - \$1,000 Entrance Award Sponsor: Carleton University	\$1 000
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>\$3 000</b>