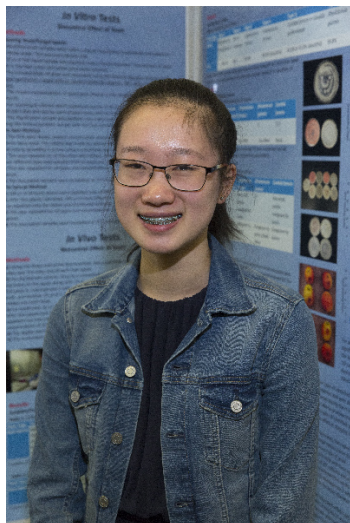


# CWSF 2018 - Ottawa, Ontario



## Michelle Song

### The Use of Yeast to Prevent Fungal Diseases in Horticultural Produce

**Challenge:** Discovery

**Category:** Intermediate

**Region:** Annapolis Valley

**City:** Wolfville, NS

**School:** Horton High School

**Abstract:** A variety of natural yeasts isolated from carrots and grapes were identified and tested for their biocontrol properties for the prevention of *Botrytis cinerea* and *Penicillium expansum*. The yeasts were inoculated along with the fungal spores during in vitro and in vivo tests. The yeast *Candida famata* produced inhibitory zones which indicates that it has biocontrol effects against *B. cinerea* and potential horticultural applications.

#### Biography

I am a Grade 10 student at Horton High School where I participate in numerous extracurricular clubs and activities like the senior concert band and jazz band for which I play alto saxophone. I am also part of the Acadia University Symphonic Band where I play clarinet. I love to play piano and I am currently completing my Grade 10 RCM requirements. I have won numerous competitions for piano and last year I competed in the junior piano category at the Provincial Music Festival. In addition, I volunteer at the local hospital as well as other community events and activities, and I am working on the Silver Level for the Duke of Edinburgh award. I also love sports, I play tennis and was a competitive swimmer, and I came first in provincials on my school's badminton team. In the past I have done multiple science fair projects but this is my first time at the CWSF and I am very excited!

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000