

# CWSF 2015 - Fredericton, New Brunswick



## Bethany Helaine Poltl - Gibb

### Jitter Bug: How HFCS Affects the Longevity, Fertility & Behaviour of Drosophila

**Challenge:** Discovery

**Category:** Junior

**Region:** Niagara

**City:** Niagara on the Lake , ON

**School:** St. Michael Catholic E.S.

**Abstract:** High Fructose Corn Syrup has been increasingly used in food products since the 1970s. Consequently, diagnosis prevalence of ADHD has been rising since the mid-1980s. My project tested numerous generations of Drosophila and found that HFCS does **NEGATIVELY** affect the longevity, fertility, and behavior of Drosophila. Further testing demonstrated that this could be "reversed". Future research will determine a possible link between ADHD and HFCS.

#### Biography

I am an 11 yr old grade 7 student from St. Michael Catholic School in Niagara on the Lake Ontario. I love science and would like to become a doctor or work in the medical field. At school I am involved as the Minister of Arts and Culture and a member of our We Team. I compete on our Mathletes team, sign with our Sign Language club, sing in our Treble Makers choir, and help out lunch monitoring, shelving books for the librarian, and I perform in our school play. I love painting and this year I arranged for all our gr. 7 students to have a gallery showing of our work at our Public Library. Outside of school, I dance competitively! "Athlete + Artist = Dancer" I volunteer for St Vincent de Paul Church. I alter-serve and I am a Crew Leader at our VBS. I believe that kids need to volunteer in their communities, be a part of something and experience all that life has to offer. Being provided with the privilege of attending the CWSF is an honour, I thank the organizers and volunteers for this opportunity and I wish everyone the best of luck!

#### Awards

#### Value

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