

# CWSF 2010 - Peterborough, Ontario



## Jenny Tian, Leslie Bothwell

### The Relation of Total Resistant Starch Concentration in Potatoes

**Division:** Earth & Environmental Sciences

**Category:** Senior

**Region:** Waterloo-Wellington

**City:** Guelph, ON

**School:** Centennial Collegiate & Vocational Institute

**Abstract:** This experiment will determine the effects of variations in environmental conditions to the resulting concentrations of resistant starch in the potatoes tested. Starch concentrations were analyzed using Englyst method and spectrophotometer readings against glucose standards. Results indicate refrigerated potatoes contain higher resistant starch and slowly digestible starch content.

### Biographies

Jenny - My name is Jenny Tian, a grade 12 student in Centennial C.V.I. I enjoy involving myself to gain valuable experiences. In school, I am the executive for Nutrition Club and Prefects. As well, I have been a member of the MBA program, Music knights, OSAID, Mentor program, Chemistry club, Terry Fox committee and DECA. I have also competed in the International Career Development Conference, Kiwanis Music Festival, WWSEF, and Sanofi-Aventis Bio-talent Challenge. During my spare time, I enjoy playing badminton and fencing. Furthermore, as part-time jobs, I am an enthusiastic babysitter and a dedicated piano teacher. I enjoy challenging myself with ev...

Leslie - Leslie Bothwell has been a driving force behind environmental initiatives at community and school levels. In 2008, Leslie was among the youngest applicants selected as one of 270 Canadians to be trained by Al Gore and David Suzuki to deliver the "An Inconvenient Truth" presentation. As the Student Council's Environmental Coordinator, Leslie raises environmental awareness by organizing litter-less lunch campaigns, campus cleanups and recycling awareness programs. She also formed a recycling team and implemented the first functional recycling program at her high school in over 30 years. The model that was developed under Leslie's dynam...

### Awards

### Value

Honourable Mention - Biotechnology & Pharmaceutical Sciences Senior Sponsor: Youth Science Canada	\$100
Total	\$100