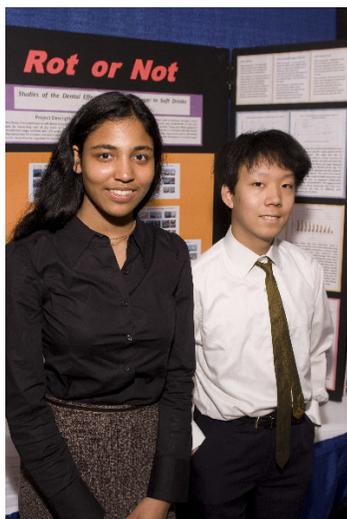


# CWSF 2010 - Peterborough, Ontario



## Bryon Leung, Julia Goyal

### Rot or Not: Studies of the Dental Effects of Acid and Sugar in Soft Drinks

**Division:** International

**Category:** Intermediate

**Region:** Toronto

**City:** Toronto, ON

**School:** Northern S.S.

**Abstract:** Effects of soft drinks on teeth were studied in vitro by first immersing pig's teeth in test solutions and then in a bacteria-containing medium. Damage, measured by teeth's mass reduction, was found to be proportional to acid concentration in immersion, and in infection, sugar content. Exposure to acid in soft drinks can result in damage even with proper hygiene to remove sugar deposits.

#### Biographies

**Bryon** - My name is Bryon Leung. I was born in Toronto, Canada, and was in the gifted program since second grade. I am currently in grade 10 at Northern Secondary School. In school, I do not engage in many extracurricular activities, although I do participate in affairs involving our student council as a class representative. In the community, I work at the school library. My interests are mainly in pure science, but I also am interested in most other forms of academic study (especially social sciences, music and politics). I also enjoy mathematics; I was third place for the ABACUS math challenge in 2008. In my spare time, I like to look up random art...

**Julia** - I am a grade 10 student in the gifted program at Northern Secondary School with a keen interest in math and the sciences and intend to pursue a career in the medical field. I love to sing, to dance and play various musical instruments (i.e. violin, guitar, harmonium, etc.). I am very inquisitive about the world around me and use every life experience as an opportunity to learn something new. Writing is my passion; it's a medium through which I can express my innermost feelings and thoughts. My work has been published in various anthologies and has been placed at the top in various competitions. For two consecutive years, I have been placed ...

#### Awards

#### Value

The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Silver Medal - Health Sciences - Intermediate Sponsor: Canadian Institutes of Health Research	\$700
<b>Total</b>	<b>\$2 700</b>