

# CWSF 2012 - Charlottetown, Prince Edward Island



## Andrea Wong, Shaylee McGuire

### TeloMice: The Effects of Telomere Enhancing Products on Mice

**Challenge:** Health

**Category:** Intermediate

**Region:** Fraser Valley

**City:** Abbotsford, BC

**School:** Yale Secondary

**Abstract:** This project compared results of mice consuming telomere support product (Product B from Isagenix), with mice consuming regular diets. Telomeres are repetitive sequences of nitrogenous bases at the ends of chromosomes (in vertebrates, this sequence is TTAGGG), and contain every person's unique DNA. Product B contains nutrients that stimulate the recessive telomerase enzyme which contains a RNA based template of the repetitive sequence in telomeres.

### Biographies

Andrea - I am a tenth grade student from Yale Secondary in Abbotsford, B.C. My main interests other than science include music and crafts. I have an ARCT Performers as well as an ARCT Teachers diploma in piano, and I am currently in RCM grade 10 for violin. I have toured Scotland with my violin group in 2008. In school, my favorite subjects include psychology, math, and languages. I speak Cantonese as well as English, and have been learning Mandarin as well as Spanish. I love teaching and working with children, and also do clerical work at a child education centre. Some other favorite pastimes include drawing, origami, kirigami, guitar, harmonica, cla...

Shaylee - I'm a grade 10 student from Abbotsford, BC, involved in volunteer work at veterinary hospitals. My hobbies include reading, writing, art, and gaming. This will be my first time competing in the science fair at a national level, and I hope to be back next year. I have always been fascinated by animals and genetics, so our project was perfect for my fields of interest. I plan to become a veterinarian or theoretical physicist when I graduate.

### Awards

### Value

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|---|----------------|
| Excellence Award - Intermediate - Bronze Medal<br>Sponsor: Nuclear Waste Management Organization                | \$300          |
| Western University Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: Western University | \$1 000        |
| <b>Total</b>  | <b>\$1 300</b> |