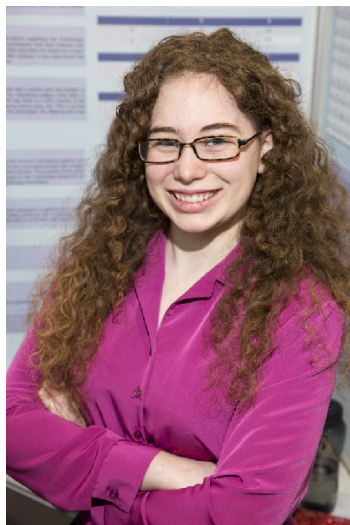


## CWSF 2015 - Fredericton, New Brunswick



### Sara Evans

#### Inheritance of Hair Morphology

**Challenge:** Discovery

**Category:** Senior

**Region:** Quinte

**City:** PICTON, ON

**School:** Prince Edward Collegiate Institute

**Abstract:** Various discrepancies between the theories and the observations regarding hair morphology inheritance patterns inspired this project. By surveying over 35 participants, both their relatives' and their own phenotypes were gathered. When compiled, this data described the likelihood of each phenotype of offspring for each potential pair of parents. After analysis, it was determined that current theories account for as little as 69.95% of inheritance.

#### Biography

I am very excited to be going to the Canada-Wide Science Fair. In addition to loving many aspects of science, I participate in 4-H and am a member of my community theatre group. I love Agatha Christie murder mysteries and enjoy crocheting. While attending university, I want to study science. Although I have always done well at my regional science fair, this year was by far the best. Not only do I get to compete at the National Level, I won a \$1000 scholarship to Loyalist College, the Bell Good Communicator Award, and Viewers' Choice award. My project was inspired by a biology project I did last semester that looked at how we inherited our traits and how we would pass them onto our children. Based on my findings, I should not have the curly hair that I have. In my project, I compared the hair morphology of one generation to the next. In the future, I would like to look at one generation compared to multiple generations. The advice I would give students thinking about doing a science fair project is to choose a topic you are passionate about so you are motivated and do the best work possible.

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