

CWSF 2017 - Regina, Saskatchewan



Darshana Lanke

Comparative Study Characterizing Wheat Allergenicity in Ancient and Modern Wheat

Challenge: Health

Category: Junior

Region: Saskatoon

City: Saskatoon, SK

School: Montgomery

Abstract: The objective of this project was to characterize the gluten fractions for celiac disease (CD) causing epitopes, in ancient and modern wheat varieties. Popular diet books have hypothesized that modern wheat has resulted in the increase of CD as compared to ancient wheat. The study provides scientific proof that modern wheat varieties have not resulted in the increased CD as compared to old varieties.

Biography

My name is Darshana, I am a grade 8 student in the ScienceTrek program at Montgomery School, Saskatchewan. I have a passion for learning, especially in the field of science. I enjoy being in the outdoors and having hands on learning experiences. Along with having a passion and interest in the field of science, I really feel passionate about equality and justice. This year for Law Day, I took part in the Multimedia contest where I won for the visual piece. One of my hobbies is singing, this year I passed my grade 3 Royal Conservatory voice exam with honors. This is my second CWSF that I am taking part in. The inspiration for this project came from my last year's CWSF experience. One of the judges had asked me why I think there is an increase in Celiac Disease patients. This question triggered me to do a study on this topic. My advice to students is, don't underestimate the power of a question. Questions are the inspiration to projects, just like in mine. This study developed a love for the fields of agriculture and biotechnology research and in the future I would like to continue work in these fields.

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