

CWSF 2014 - Windsor, Ontario



Kaeleigh Pasula

Denaturing DNA: Using Common Transcription Factors to Reprogram Cells

Challenge: Health

Category: Senior

Region: Peace Country

City: Fox Creek, AB

School: Fox Creek School

Abstract: This study uses in silico methods to analyze common transcription factors between different cell types, allowing a theory to be developed regarding the reprogramming of one cell type into another based on the number and specificity of transcription factors that two cell types may have in common.

Biography

I am a grade twelve student from Fox Creek, a small town in Northern Alberta. Being my ninth year competing in science fair, I am excited to be attending the national fair for my second and last time. It is my love for science and the influence the fair has had on my life that inspired me to participate one last time—the regional fair and CWSF are where I have met my closest and truest friends! After high school, I plan to attend university to pursue a combined Master of Business Administration and Bachelor of Science in Pharmacy program, in hopes of one day owning my own pharmacy. This decision has come from using science fair to discover the areas of science which truly interested me, work experience at my local hospital and pharmacy, as well as the experience I have gained working in an oncology lab at the University of Alberta. My advice to students considering entering the science fair, choose something you love! When you are talking about a topic you are passionate about, other people become excited about it too. It is much easier to put in the hours when it is something you like.

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