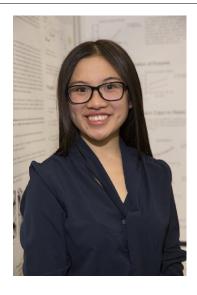




CWSF 2016 - Montreal, Quebec



Allison Cai

Influence of Habitat on Cellobiase Activity in Mushrooms

Challenge: Energy

Category: Intermediate

Region: Waterloo-Wellington

City: Guelph, ON

School: Centennial Collegiate & Vocational Institute

Abstract: Cellulosic ethanol is a biological fuel which can offer a more

environmentally-friendly alternative to fossil fuels. However, this biofuel is disadvantageous as cellulose must be broken down in an inefficient process to create it. The purpose of this research was to evaluate the potential of using the cellobiase enzyme in mushrooms as a catalyst for cellulose degradation, presenting the possibility of more efficient biofuel

production.

Biography

Allison is a grade 10 student studying at Centennial CVI in Guelph, Ontario. She thoroughly enjoys learning at school, and has received awards such as "Top Academic Student" and "Top Science Student". At a young age, Ally believed (and still believes) that "science holds the secrets of the universe". Needless to say, she is captivated by science and its endless possibilities. Aside from doing science fair, participating in Science Olympics, and being a part of Science Club, she is also extremely passionate about music and volunteering. Everyday Ally looks forward to playing piano, and plans to achieve her Grade 10 Royal Conservatory of Music certification this year. She also prides in being a trombonist in an orchestral ensemble and her school's Jazz Band. Ally takes pleasure in improving her school by being a member of Academic Council and Environmental Council. Her favourite part of the week is when she volunteers at the hospital. Nothing is more satisfying to Ally than seeing the smile of a patient. However, the hospital also exposes her to the struggles of many. It is because of this, that Ally's greatest aspiration is to channel her passion for science in a way which can help people.

Awards	Value
Australian National Youth Science Forum Award - Intermediate	\$1 000
Sponsor: National Youth Science Forum Australia	
Excellence Award - Intermediate - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000





