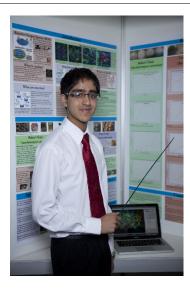




CWSF 2013 - Lethbridge, Alberta



Saad M.A. Alam

Catalase and detoxification

Challenge: Health

Category: Intermediate
Region: Peterborough
City: Peterborough, ON
School: Holy Cross S.S.

Abstract: A catalyst is anything that accelerates a reaction without being consumed

within it. An enzyme is a catalyst that accelerates a chemical reaction. A catalase is a type of enzyme within our bodies that separates a harmful substance called Hydrogen Peroxide (H2O2) into H2O and Oxygen, both essential for our survival. H2O2 is created by the reaction of an Reactive

Oxygen Specie within our body.

Biography

My name is Saad Alam. I'm 15 and I live in Peterborough which is a city full of beautiful people and nature. I have three sisters. One of them is Samiah, who was my main driving force behind this project. She has recently completed her masters in Bio-Chemistry from Trent University. I'm interested in computer science, music, sport and fantasy literature. My interest in my sisters work in biochemistry led me to stumble upon a study on possibly increasing human lifespan using enzymes. Following this, I began researching further about enzymes and came across a certain enzyme called Catalase. Thereafter when an opportunity to present my learnings came up, I chose to do this project for the Science Fair. For the future, my hopes for this project is to actually reach a goal in regards to finding a way of increasing human life span. My advice to other students who are just starting to take interest in the science fair is to choose a project that is developmental and resourceful to the science community. Likewise, it should be a project that the student themselves enjoy materializing in order to ensure greatest potential despite its external appeal.





