

## CWSF 2008 - Ottawa, Ontario



### Komal Siddiqui

#### Biocatalysts

**Division:** Physical & Mathematical Sciences / None

**Category:** Senior

**Region:** Lambton County

**City:** Sarnia, ON

**School:** Northern C.I. & V.S.

**Abstract:** The purpose of this project was to observe how different temperatures, pH, and different concentrations of a substrate and enzyme affect enzymatic activity of biocatalysts. For the first part potatoes were used as a source of the enzyme and H<sub>2</sub>O<sub>2</sub> was the substrate. For the second part amylase was used as a source of the enzyme and starch solutions were used as the substrate.

#### Biography

My name is Komal Siddiqui; I am a student at N.C.I.V.S. in Sarnia, Ontario. 2008 was my third year entering the local science fair and I was very pleased to be selected to go to CWSF once again. I like to participate in competitions that test my abilities and challenge me to push myself further. Some recent contests I have taken part in involve The Royal Canadian Legion Public Speaking Contest, Desktop Publishing Contest, Canadian Mathematics Competitions, and of course the Science Fair! I like to volunteer my time in the community. I have been volunteering since I was 11. I spend most of my time volunteering at the hospital or at the local library where I am a member of the Teen Advisory Group (TAG). Through TAG I help organize events for teens. I have donated my hair to cancer. I am interested in doing calligraphy, writing stories, painting, dance, and drama. I am also on the badminton and tennis team at school. One day I hope to find a job in the medical field, specifically in dermatology or research.