

# CWSF 2015 - Fredericton, New Brunswick



## Maitry Mistry

### Influence of animal and plant hormone to increase Algae biomass production

**Challenge:** Environment

**Category:** Intermediate

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Acadia School

**Abstract:** The experimental work was done to unveil the potential of animal hormone 17  $\beta$ -estradiol and plant hormone Abscisic Acid present in wastewaters to increase *S. quadricauda* biomass and some molecules production. In the experiment, various concentrations of the hormones were tested in Fishery Waste Water, and Hydroponics Waste Water. The algae was able to induce both hormones increasing algae biomass production and targeted molecules.

#### Biography

My name is Maitry Mistry, and I am currently a grade 8 student in Winnipeg, MB. This is my second year doing a science fair project. In the 2 years, I have gone to over 5 science fairs and have achieved outstanding results which have motivated me to go further in my research. The inspiration for my project came from the waste surrounding us. I wanted to use the waste products for something beneficial to our community and environment. As a student, I plan to continue with this topic and study in the Microbiology field. I have not only learnt about the Microbial process but have been fortunate to work with U of M and carry out my experiment. I am very privileged to have an opportunity to share my results and research with huge crowds, passing on my learning and new discoveries.

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000