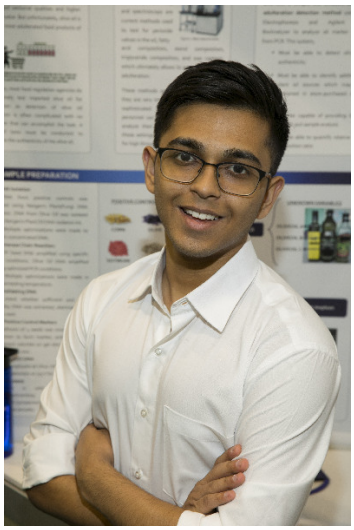
CWSF 2017 - Regina, Saskatchewan



Ajay Patel

A Novel and Efficient Method to Detect Olive Oil Adulteration

Challenge: Innovation
Category: Senior
Region: Niagara
City: St. Catharines, ON
School: Sir Winston Churchill
Abstract: Olive oil is frequently diluted with cheaper oils leaving consumers paying high prices for cheaper oils. This project was conducted to develop and test a novel and efficient olive oil adulteration detection method by comparing oil marker genes of oil seeds and store-purchased olive oils. Experimental results suggest that this method is reliable, and can discriminate and quantify different adulterants in an efficient manner.

Biography

I attend Sir Winston Churchill Secondary School at St. Catharines. At school, I spend most of my time sitting in class, and the little extra time playing team sports, or participating in clubs such as robotics club, or math club. I also started my own Multiculturalism Club in which I commemorate authenticity and help newcomers overcome adversities such as language and or cultural barriers. Most of my friends would define me as the biggest procrastinator. Learning more about cool concepts and reading about our progress in those fields really captivate my interest. These concepts include artificial intelligence, or cracking the genetic code of free will, or string theory, or hyperloops, and basically all new emerging technology. In the future, I want to become a computer scientist and create my own or join a startup software developing company. My passion for biology has driven me to work on my project. I initially got the inspiration for my project from a documentary on Netflix about olive oil adulteration. Advice for students: "it's much better to try and not succeed, than not try at all because if you don't try, then you are guaranteed to not get what you want."