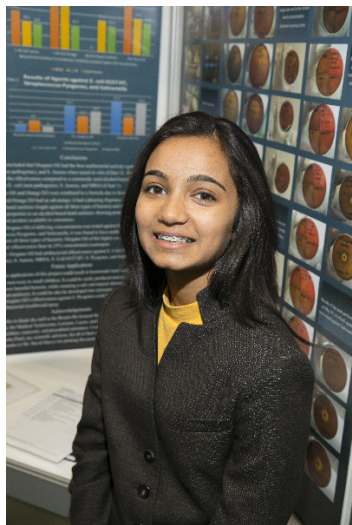


CWSF 2017 - Regina, Saskatchewan



Prutha Patel

Bacteria: Be OreGONE!

Challenge: Discovery

Category: Intermediate

Region: Rideau-St. Lawrence

City: Brockville, ON

School: Brockville Collegiate Institute

Abstract: Oregano Oil was tested, alongside several other natural substances, against Escherichia Coli, Staphylococcus Aureus, and Methicillin-Resistant Staphylococcus Aureus in hopes of achieving an antibacterial agent that had equivalent or greater effectiveness when compared to an alcohol-based hand sanitizer. A formulation was made which was non-toxic if ingested, easily prepared, and had twice the antibacterial effectiveness as the commercial alcohol-based hand sanitizer consumers use today.

Biography

Prutha Patel is an active and passionate Grade 9 scientist, as well as a musician and athlete. She actively participates in sports, such as badminton and soccer. She is a part of the Student Council and Rams United Group at school, where she strives to demonstrate leadership and teamwork. She feeds her thriving interest in music, currently in Grade 8 Piano in the Royal Conservatory of Music program, and loves to strum a few chords on the acoustic guitar. She showcases her musicality in the Brockville Music Festival and earned Gold and Silver this year. At school, she participates in math contests offered by the University of Waterloo, and has been awarded several recognitions for her abilities. This year, she chose to test the antibacterial activity of multiple natural ingredients against different types of bacteria, and found astonishing results. She would like to further investigate the effects of Oregano Oil on different bacteria and develop a commercial product that could be of assistance in effectively killing bacteria and could be available to the general public. She would suggest other students to find a project of their liking and also hopes to pursue a career in the medical field.

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