

CWSF 2011 - Toronto, Ontario



Maya Burhanpurkar

Synthesizing a Novel, Bio-Selective "Smart Antibiotic"

Challenge: Health

Category: Junior

Region: Simcoe County

City: Shanty Bay, ON

School: Codrington P.S.

Abstract: The goal of the project was to develop a new class of antibiotics which do not adversely affect human intestinal symbiotic microbiota, through a first-of-its-kind series of in-vitro experiments exploring the interaction between human intestinal symbiotic microbiota and (a) E-coli, (b) Amoxicillin and (c) a variety of botanical species whose extracts were synthesized from raw plant matter by the author.

Biography

Maya Burhanpurkar is a 12 year old grade 7 student. In 2011 she received the "Junior Citizen of the Year Award" in a ceremony from the Lieutenant Governor of Ontario. In 2009, 2010 and 2011, she won several awards at the Regional Science Fair including Best of Fair Overall, Ontario Ministry of Research and Innovation's "Stepping Stone Award", The Ministry of the Environment's Environmental Innovator Award and several other environmental awards. She also maintains an A+ overall academic average and "First Class Honours with Distinction" at the Royal Conservatory of Music for piano. She also enjoys reading, snowboarding, skiing and playing soccer.

Awards

Value

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| S.M. Blair Family Foundation Award - Junior Sponsor: S.M. Blair Family Foundation | \$500 |
| Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada | \$300 |
| The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario | \$1 000 |
| Total | \$1 800 |