



CWSF 2012 - Charlottetown, Prince Edward Island



Maya Burhanpurkar

Uncovering the Cardiac and Gastrointestinal Safety of Two Amyloid-ß Inhibitors

Challenge: Discovery Category: Junior

Region: Simcoe County
City: Shanty Bay, ON
School: Codrington P.S.

Abstract: The cardiac and gastrointestinal biosafety of two promising Alzheimer's

drugs was assessed through a novel set of in-vivo and in-vitro assays in which Alpha Lipoic Acid and Melatonin were tested on Daphnia magna and Lactobacillus acidophilus. It was discovered that both are cardio-protective and Alpha Lipoic Acid is gastrointestinally toxic. These findings will impact

the treatment of Alzheimer's populations sensitive to cardiac and

gastrointestinal insults.

Awards	Value
The Actuarial Foundation of Canada Award - Junior	\$500
Challenge Award - Discovery - Junior	\$500
Sponsor: Youth Science Canada	
Excellence Award - Junior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Platinum Award - Best Junior Project	\$5 000
Sponsor: Research In Motion	
Total	\$11 500

Biography

I am a 13 year old grade 8 student. My life has been filled with amazing experiences such as receiving the Junior Citizen of the Year Award from the Lieutenant Governor of Ontario, being a TVO Super-Citizen and being the student mayor of Barrie. The two most memorable experiences in my life have been a 3 month trip to India which included volunteering in a rural hospital for 10 weeks and the 2011 CWSF in Toronto. I maintain an A+ academic average in the gifted program and First Class Honours with Distinction at the Royal Conservatory of Music for piano. I also enjoy being a member of the Ontario Education Minister's Student Advisory Council, reading, playing the flute, being on debate teams, public speaking, skiing and playing on several sports teams.





