



CWSF 2010 - Peterborough, Ontario



Sarah Hyslop

Antibacterial Properties of Plant Oils

Division: Earth & Environmental Sciences

Category:IntermediateRegion:Calgary YouthCity:Calgary, AB

School:

Abstract: My project determined whether reputed antibacterial properties of plant oils

are true. Using the disc diffusion method, I tested eight plant oils against three bacterial strains. Based on these results, I tested combinations of five oils to determine whether synergy exists. Results showed that some plant oils have the ability to restrict bacterial growth and that anitbacterial activity

increases when oils are used in combination.

Biography

My name is Sarah Hyslop and I am in grade 9. This is my second year at the Canada Wide Science Fair, and fifth year in the Calgary Youth Science Fair. I have been working at the University of Calgary on my project: "Antibacterial Properties of Plant Oils". At the Calgary Youth Science Fair this project won the Biochemistry and Experimental Biology Award and the Government of Alberta Travel Scholarship. At the Sanofi-Aventis Biotalent Challenge, I placed third and won the elevator pitch with this project. My previous years projects were "Horseshoe Crabs:Beneficial Blue Bloods", receiving a bronze medal at the CWSF and the Biochemistry and Experimental Biology Award at the CYSF, "Bats and their Benefits", winning the Professional Biologists of Alberta Award, "Can Cats See in Color?", receiving the Alberta Teachers Award, and "Spectacular Spider Silk", receiving the Genome Alberta Award. Besides science and animals, I enjoy scuba diving, and have been a junior open water diver for three years. My most exciting dive so far has been seeing a five foot Nurse Shark. Trampoline and tumbling, squash, skiing, playing Wii, travelling and reading keep me busy. I am looking forward to travelling to Italy after the CWSF.

Awards	Value
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Biotechnology & Pharmaceutical Sciences	\$300
Intermediate	
Sponsor: Youth Science Canada	
Total	\$1 300





