

CWSF 2011 - Toronto, Ontario



Katie Van der Sloot

Triclosan: Double Danger

Challenge: Discovery

Category: Senior

Region: Kiwanis Southeast Alberta

City: Medicine Hat, AB

School: McCoy High School

Abstract: Many Triclosan based antibacterial products end up in our waterways. In local water samples we discovered antibiotic resistant bacteria. We then created resistant and cross-resistant bacteria through induction with titer plates, and transformation. The Kirby-Bauer method verified these results. Bacteria from human samples contained significant cross-resistance between antibiotics and Triclosan. This shows the potential for triclosan induced antibiotic resistance to affect the North American population.

Biography

Once upon a time, there lived two young scientists; who enjoyed dreaming up magnificent plans beneath a Newton tree on a hill of daisy's under the smiling sun... the day begins enjoying raspberry lemon scones watching the sunrise on the sandy shores of San Diego. Soon after, the experience of seaweed wraps and hot stone massages relaxes the mind in Tuscany's finest, Tenuta di Spannocchia. Adventures begin on the hide of an elephant overlooking African landscapes on the tip of Pride Rock. Next we find ourselves swinging through trees of the dense and lush tropical Amazon Rainforest. After coming in from the powdery slopes of the Swiss Alps, cappuccino awaits us near the chalet's crackling fire. The last stop to end the super, fun, awesome day involves a dance party with fresh sushi in the electrifying Tokyo Dance Club! Namaste.

Awards

Value

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| Canadian Commission for UNESCO - Science for Peace and Development (MILSET ESI) Award Sponsor: Canadian Commission for UNESCO | \$5 000 |
| Excellence Award - Senior - 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 |
| University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa | \$1 000 |
| Total | \$7 300 |