

CWSF 2013 - Lethbridge, Alberta



Kate Berger, Jasveen Brar

Environmental Distribution of Giardia and Cryptosporidium

Challenge: Environment

Category: Senior

Region: Southeast Alberta

City: Medicine Hat, AB, Redcliff, AB

School: Medicine Hat High School

Abstract: Sewage samples were collected from Medicine Hat and analysed for the protozoan parasites Giardia and Cryptosporidium. A database on the normal concentration of these parasites was developed to be used in the early detection of outbreaks. (Oo)cysts were shown to adhere to the stomata of lettuce and spinach, as well as the tissue of fibrous roots. These parasites were also detected throughout our local watershed.

Biographies

Kate - Kate Berger is a grade 12 student attending Medicine Hat High School. This is her fourth Canada-Wide Science Fair and third with Jasveen Brar. Kate's projects have focused on the link between the environment and health, an area which inspires her to make a difference. At the 2012 CWSF, Kate and Jasveen won gold medals. Kate volunteers at her local hospital and for Praxis Science and Technology Hotline. Kate and Jasveen started an initiative called Operation Lab Coats and Beakers to promote science fair to youth. This program features after school workshops and mentorship for junior high students. Kate has been playing piano for ten years, is ...

Jasveen - Jasveen Brar is a grade 12 student attending Medicine Hat High School. This is her third Canada-Wide Science Fair with Kate Berger. Jasveen is very passionate about biology and our impact on the environment. At the 2012 CWSF, Kate and Jasveen won gold medals. Jasveen volunteers at her local hospital, the Canadian Diabetes Association, the Heart and Stroke Foundation, the Alzheimer's Society and for Praxis Science and Technology Hotline. Kate and Jasveen started an initiative called Operation Lab Coats and Beakers to promote science fair to youth. This program features after school workshops and mentorship for junior high students. Jasveen enj...

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$100
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 100