



CWSF 2012 - Charlottetown, Prince Edward Island



Kate Berger, Jasveen Brar

Environmental Distribution of Giardia and Cryptosporidium

Challenge: Environment

Category: Senior

Region: Kiwanis 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 significant increase in the levels of these parasites was detected at the wastewater treatment plant and was likely due to surface runoff from nearby farms. Spinach was grown and contaminated with these parasites which demonstrated

adhesion of (oo)cysts to stomata. Giardia and Cryptosporidium was found

in commercial spinach.

Biographies

Kate - Kate Berger is a grade 11 student attending Medicine Hat High School. This is her third Canada-Wide Science Fair, and second with partner Jasveen Brar. Kate's projects have focused on the link between the environment and human health, an area which inspires her to make a difference. Kate volunteers at the local hospital and for Praxis Medicine Hat and the Medicine Hat College in an initiative to promote science fair to kids. Recently Kate and Jasveen gave a presentation at the Operation Minerva Conference in support of women in science. Kate has been playing piano for nine years, is a participant in the Rotary Music Festival and is preparing ...

Jasveen - Jasveen Brar is a grade eleven student attending Medicine Hat High School in Medicine Hat, Alberta. This is the second Canada-wide Science Fair she has attended with partner Kate Berger. Jasveen's projects have focused on the link between the environment and human health, an area which inspires her to make a difference. At the regional fair the pair won best for their age group. She is involved with volunteering at the local hospital, Diabetes Association, Heart and Stroke Foundation, Alzheimer's Society as well as helping Praxis Medicine Hat and Medicine Hat College in an initiative to promote science fairs to kids. Recently Kate and Jasveen...

Awards	Value
Challenge Award - Environment - Senior	\$1 000
Sponsor: Encana Corporation	
Excellence Award - Senior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$24 500



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