

CWSF 2009 - Winnipeg, Manitoba



Brent Murphy

What is the effect of garlic when used as a biological seed treatment?

Division: Biotechnology / Environmental Innovation

Category: Intermediate

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Arthur A. Leach School

Abstract: Field and laboratory experiments were conducted to determine whether the yield and vigour-increasing effect of garlic powder used as a seed treatment on wheat, field pea and soybeans is due to protection from fungi or to growth promotion. Results indicate the increased yield of the garlic powder treated seeds is more likely due to growth enhancement than to antifungal activity.

Biography

I am a Grade 9 student at Arthur A Leach Junior High in Winnipeg, where I am a member of the Science Club, debate club and the school badminton team. When I am not at school, I can usually be found reading a book. In the summer, my brother and I grow garlic to sell at the farmer's market. We also sell beets, carrots and sweet corn that we grow on our farm at Fort Whyte, Manitoba. My favourite sports are badminton, curling and golf. My favourite vacation is to go on a cruise- I have been to the east and west Caribbean and to Mexico, so far. I plan to become a food scientist and see myself running my own food product development company by the time I am 30!

Awards

Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Honourable Mention - Biotechnology & Pharmaceutical Sciences Intermediate Sponsor: Youth Science Canada	\$100
Bronze Medal - Environmental Innovation - Intermediate Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$300
Total	\$1 400