



## CWSF 2007 - Truro, Nova Scotia



## **Biography**

In my spare time I enjoy reading, horseback riding and spending time with my friends. I also spend lots of time playing sports, my preference being softball, karate, badminton and swimming. In school my favorite subjects are chemistry and healthy living. I am also active in my school's choir and band in which I play flute. Having always been fascinated by animals I am considering pursuing a career in veterinary medicine.

## **Cayley Linehan**

## Taxe\$ a Pain! Taxus a Cure! Genetic Variation & Propagation of Taxus canadensis

Division: Biotechnology / None

Category: Intermediate

Region: Central Newfoundland
City: Grand Falls-Windsor, NL
School: Exploits Valley High

**Abstract:** Domestication of Taxus canadensis commenced in Newfoundland for the

purpose of supplying a chemical, paclitaxel, used in cancer treatments. The experiment included developing an effective winter propagation system using shoot cuttings and analyzing the genetic variation found in wild clones. Considerable variation exists in traits critical to agronomic performance (rooting success, shoot growth, bud flush) and suggests genetic differences may exist in clonal paclitaxel concentrations.

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: Rx&D Health Research Foundation	
Total	\$1 300



