

CWSF 2009 - Winnipeg, Manitoba



Binudith Warnaraja

Analysis of PL reductase and level of secoisolariciresinol diglucoside in flax

Division: Biotechnology / Environmental Innovation

Category: Senior

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Fort Richmond Collegiate

Abstract: The primary lignan in flax is Secoisolariciresinol and exists as a diglucoside compound (SDG), which is synthesized through pinoselin-lariciresinol reductase enzyme. Two isoforms of this gene were isolated and sequenced. Five significant polymorphisms affect the functionality of the enzyme were identified in a flax world collection. SDG levels were measured in 10 flax accessions with different polymorphisms and significant changes in lignan content were observed.

Biography

I am simple guy (almost). I like to do a variety of activities in my free time including chillin with my friends, going to parties and driving around with people. I am a member of the Environmental Sustainability Committee in my school. I plan to get involved many school activities next year. I like to travel to Europe and Asia and backpack for months. I will do that probably in the summer. I do not play in any sport's team but I am fairly good at basketball, football and cricket. I love people with a good sense of humor. I have really bad grammar and use words and tend to say the wrong thing at the wrong time. I am not that religious but try to work according to my faith. I always want to be close to perfect and work hard for things I aim for.

Awards

Value

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| 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 |
| Bronze Medal - Biotechnology & Pharmaceutical Sciences - Senior Sponsor: Youth Science Canada | \$300 |
| Total | \$2 300 |