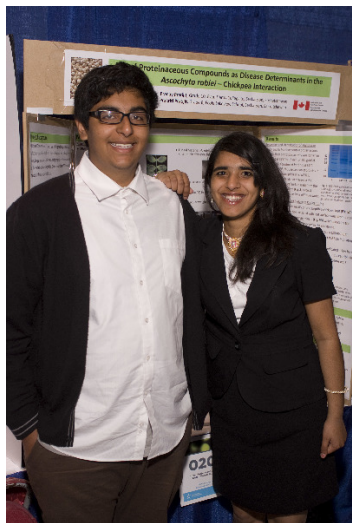


CWSF 2010 - Peterborough, Ontario



Pranay Pratijit, Prakriti Pratijit

Novel Proteinaceous Compounds as Disease Determinants in *Ascochyta rabiei* - chic

Division: Earth & Environmental Sciences

Category: Intermediate

Region: Saskatoon

City: Saskatoon, SK

School: Evan Hardy Collegiate, École Lakeview School

Abstract: To establish the production of phytotoxin in early pathogenesis, spore germination fluid (SGF) of *Ascochyta rabiei* was collected from thin film of inoculum on the leaf surface of susceptible chickpea line. The results show that *A. rabiei* produces a host-specific proteinaceous phytotoxin in SGF. Furthermore, surface protein isolated from leaf surface wash of resistant line showed defensive nature by inhibiting spore germination in compatible interaction.

Biographies

Pranay - Pranay was born in Cambridge, UK and moved to Canada in 2001, after living in UK, Singapore and Switzerland. He is currently in Grade 10 at Evan Hardy Collegiate. He likes doing math, science and social studies. In 2008, he received 150 out of 150 at the Gauss Math Contest. Pranay is a keen sportsman and plays badminton and basketball for his high school. His hobbies include travelling, photography, drawing and producing music. He aspires to be a doctor and wants to use biotechnology to find a cure for cancer.

Prakriti - Prakriti was born in Singapore and moved to Canada in 2001, after living in Singapore and Switzerland. She is currently in Grade 8 at Lakeview School, Saskatoon. She likes doing math, science and language arts. In 2009, she received 136 out of 150 at the Gauss Math Contest. Prakriti is a voracious reader and likes singing and dancing, and hanging out with friends. Her hobbies include baking, drawing and listening to music. She is very fond of pet animals. She aspires to be a vet and wants to use biotechnology to cure animals.

Awards

Value

The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Biotechnology & Pharmaceutical Sciences	\$700
Intermediate	
Sponsor: Youth Science Canada	
Total	\$2 700