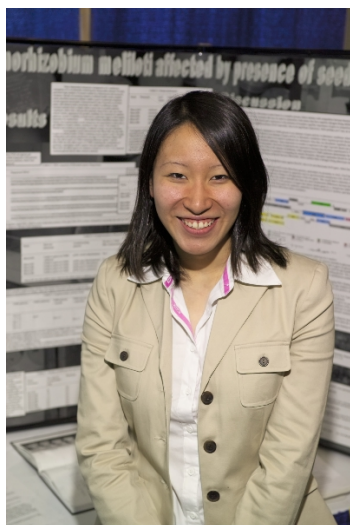


CWSF 2005 - Vancouver, British Columbia



Zexi Wang

Gene Expression in Sinorhizobium meliloti Affected by Plant Exudate

Division: Biotechnology

Category: Senior

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Manitoba Schools Science Symposium

Abstract: The genes *ilvD5*, *leuC* and *carA* in *Sinorhizobium meliloti* are induced in the presence of plant exudates; therefore they are thought to be important to the competition process occurring between different strains of *Rhizobium*, prior to nodulation. *ilvD5* functions in arabinose catabolism; *leuC* functions in leucine synthesis; and *carA* functions in pyrimidine and arginine synthesis.

| Awards | Value |
|---|---------|
| The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario | \$1 000 |
| Bronze Medal - Biotechnology & Pharmaceutical Sciences - Senior Sponsor: Rx&D Health Research Foundation | \$300 |
| Total | \$1 300 |