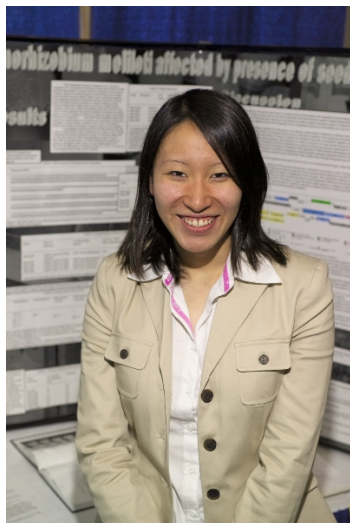


## CWSF 2005 - Vancouver, British Columbia



### 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