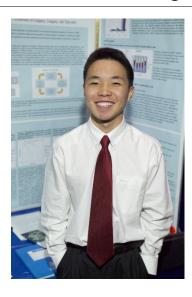




## CWSF 2006 - Saguenay, Québec



## **Harry Zhou**

## **DNA Damage Induced Cell Death in Breast Cancer Cells That Differ in p53 Status**

**Division:** Biotechnology

Category: Senior

**Region:** Calgary Youth City: Calgary, AB

School: Western Canada Senior High School

**Abstract:** I investigate the effect of p53 status on breast tumor cell survival after

exposure to IR, and how inactivation of p53, ATM or DNA-PK contributes to radiotoxicity in breast tumor cells. I found that inhibition of p53 or DNA-PK sensitized p53 wild-type MCF7 cells to IR but had no effect on p53 mutant MDA-MB-231 cells; inhibition of ATM sensitized both cell lines to IR.

Awards	Value
Petro-Canada Peer Innovation Award - Senior - Western Canada	\$200
Sponsor: Petro-Canada	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Biotechnology & Pharmaceutical Sciences - Senior	\$300
Sponsor: Rx&D Health Research Foundation	
Total	\$1 500



