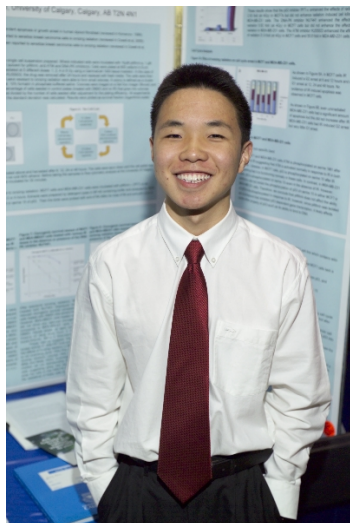


# CWSF 2006 - Saguenay, Québec



## 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 Sponsor: Petro-Canada	\$200
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
<b>Total</b>	<b>\$1 500</b>