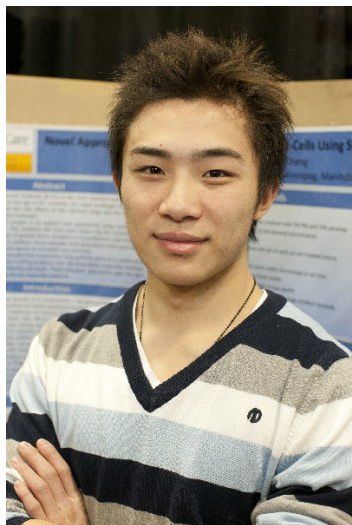


## CWSF 2011 - Toronto, Ontario



### Sam Cheng

#### Novel Approaches of Inducing Death in Leukemic B-Cells Using Synthetic and Biolo

**Challenge:** Health

**Category:** Senior

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Fort Richmond Collegiate

**Abstract:** B-cell chronic lymphocytic leukemia (B-CLL) is the most common type of leukemia. My objective is to explore new approaches using synthetic and natural agents. Two Leukemic cell lines were treated using gefitinib alone and in combination with fludarabine, and three naturally existing bacterial toxin supernatants. Results show high levels of treatment effectiveness and open the door for new methods in fighting cancer, especially leukemia.

#### Biography

A wise man once told me that an hour now is a day in the future. This sentence has motivated me to run faster, jump higher, and shoot for the stars, as there are so many things to do. At school I run the Asian Culture Club; an organization that helps to promote involvement of new immigrants in western schooling, I attend the student council, I voluntarily organize and plan events such as the Post-Secondary Fair and the Asian Talent Show, I am also an active member of the FRC Concert Band, Jazz Band, and Dragon boat Team. In the community, I am a voluntary teaching aid at the Manitoba Academy of Chinese Studies and I volunteer at Victoria General Hospital. One of my passions in life is music. Music is the universal language. I finished piano at level 8 and am currently in level 8 classical guitar. However, I do prefer more modern sounds on a 12 string steel guitar. I have also played flute, tuba, vibes, and various percussion instruments in my school Concert and Jazz bands. I plan on attending University of Manitoba and acquiring a Biochemistry degree as Medicine is my future field of interest.

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