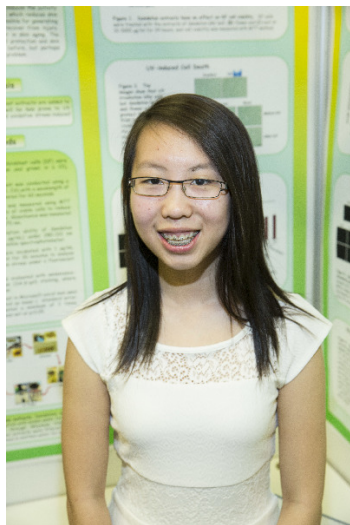


# CWSF 2014 - Windsor, Ontario



## Kelly Yang

### Anti-Aging and UV Protection: Dandelion is the Answer

**Challenge:** Health

**Category:** Intermediate

**Region:** Northwestern Ontario

**City:** Thunder Bay, ON

**School:** Sir Winston Churchill C.V.I.

**Abstract:** Skin Fibroblast cells were treated with dandelion root, leaf, and flower extracts to determine their UV protection and anti aging capabilities. The extracts played a significant role in both protecting from UV when added before irradiation, and also reversing effects when added after irradiation, compared to cells without protection. The extracts also prevented cells from aging after an age provoking chemical (Hydrogen Peroxide) was added.

#### Biography

My name is Kelly Yang, and I am a grade 9 student at Sir Winston Churchill CVI, Thunder Bay, Ontario. My favorite subjects are science, art and gym and I play violin in the Thunder Bay Symphony Youth Orchestra. Some of my hobbies include soccer, snowboarding, reading and art. I participate in many school activities and groups such as Student Council, cross country running, track, soccer and the IB Student Advisory Group. I volunteer at the local art gallery to help run children's camps and at a historical park in Thunder Bay. In the future, I would like to pursue a career in the medical field and I hope to attend an honorable medical school in Canada. This is my second Canadian Wide Science Fair.

#### Awards

#### Value

Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$4 700</b>