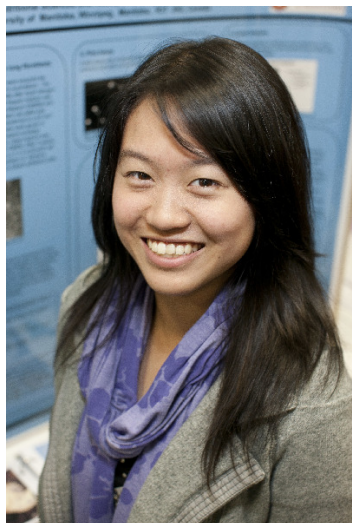


CWSF 2011 - Toronto, Ontario



Daisy Liu

Evaluation of Snow Fungus Polysaccharides on Benzo[a]pyrene-induced DNA Damage

Challenge: Health

Category: Intermediate

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Fort Richmond Collegiate

Abstract: Snow fungus has numerous health benefits including its polysaccharides possessing free radical scavenging ability. Protective effects of these polysaccharides are evaluated on Chinese hamster lung fibroblasts exposed to carcinogen benzo[a]pyrene. An alkaline and in-vitro digestion extracted polysaccharides. DNA damage was measured using single-cell electrophoresis comet assay after exposure of various treatments. Results indicated a trend showing snow fungus could protect against DNA damage.

Biography

My name is Daisy Liu and I am 15 years old. I was born in China and immigrated to Canada with my family when I was 5. My interests include dance, music and also enjoy doing volunteer work in the community and through my school, Fort Richmond Collegiate, as well. I fully intend on attending university after high school which is why academics are high on my priority list but I make it a personal goal of mine to keep my life balanced. However important I believe school is, family and friends come first. I have participated in MSSS for three consecutive years and now have slowly worked my way up from a bronze medal to where I am now. My hopes on a future career involves science and medicine and that is why my experiences with MSSS and CWSF will be so invaluable and rewarding.

Awards

Value

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|---|----------------|
| Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada | \$700 |
| The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario | \$2 000 |
| Total | \$2 700 |

