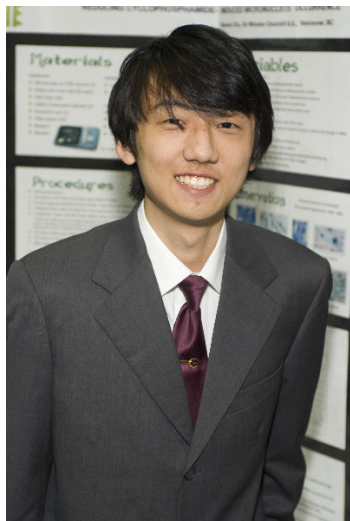


ESPC 2009 - Winnipeg (Manitoba)



Steven Zhu

Fabulous Fiddleheads

Division: Biotechnologie / Innovation environnementale

Catégorie: Sénior

Région: Greater Vancouver

Ville: Vancouver, BC

École: Sir Winston Churchill Secondary

Sommaire: In my experiment, I used cyclophosphamide-induced chromosomal mutations to determine the fiddlehead's anticlastogenic potential on onion root meristem cells. Another aspect of my project involves researching the marketability of the fiddlehead as a commonly-consumed vegetable. This experiment demonstrated that fiddlehead extract seemed to have an anticlastogenic effect and significantly reduced the rate of micronuclei. The cooked fiddleheads were more anticlastogenic than the raw fiddleheads.

Biographie

I am a grade 11 International Baccalaureate student from Sir Winston Churchill S.S., Vancouver. I am extremely interested in biological sciences and mathematics and wish to pursue a career in genetic research. I have been an executive of our school's Dissection Club and a coach of our math club for 3 years. I was also invited to write the Canadian Mathematical Olympiad (CMO) and the USAMO. In May 2008 I ranked in the top 50 of the U of T National Biology Competition, and I'm currently in the International Biology Olympiad Team Canada selection process. I am very interested in current developments in genetic research. My past regional science fair projects (dating back to grade 8) all dealt with general toxicology as well as genotoxicity. I also like writing about science. I am a columnist and editor for our school's science journal The Big Bang. In the DNA Day Essay Competition, I discussed current developments in cutting-edge anti-sense RNA cancer prevention research. My extra-curricular activities include playing for a Vancouver Thunderbirds minor hockey team. I also enjoy playing piano. I won 2nd place at the Kiwanis piano music festival. I also volunteer as a tour guide for VanDusen Botanical Gardens.

Prix

Valeur

Prix de la Société statistique du Canada Commanditaire: Société statistique du Canada	1 000,00 \$
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Bourse de début d'études de 4 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	4 000,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: The University of British Columbia (Vancouver)	4 000,00 \$
Bourse d'études de l'Université Western Ontario Médaille d'or - Bourse de début d'études de 2 000 \$ Commanditaire: Université Western Ontario	2 000,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille d'or, sénior ? Bourse d'études de 20 000 \$ (5 000 \$ par année pendant 4 ans) Commanditaire: Université d'Ottawa	20 000,00 \$
Mention honorable - Innovation environnementale - Sénior Commanditaire: EnviroExpo, présenté par VIA Rail Canada	100,00 \$
Médaille d'or - Biotechnologie et les sciences pharmaceutiques Sénior Commanditaire: Sciences jeunesse Canada	1 500,00 \$
Total	32 600,00 \$