

ESPC 2012 - Charlottetown (Île-du-Prince-Édouard)



Sarah Maccallum

Super Plants: Seed Preconditioning in Bok Choy Plants to Increase Crop Yield

Défi: Ressources

Catégorie: Sénior

Région: Chignecto East

Ville: Pictou, NS

École: Pictou Academy-Dr. T. McCulloch School

Sommaire: This project applied the technique of seed preconditioning using carrot and orange juice to increase crop yield and germination rate by activating the seed's dormant proteins. Eight hundred and fifty seeds were tested in four different dilutions of each juice. The 25% carrot dilution increased first day germination by 72%- a statistically significant increase- and the 75% orange juice dilution increased shoot mass by 10mg.

Biographie

As the top academic student in my grade for the past six years and a member of the 90s club since high school I am very involved in my school both academically and through extracurricular activities. I am the yearbook editor as well on five other committees within the school. Apart from being on school committees I am also captain of the school's basketball team and a team in my district's spring basketball league. Within the community I am a board member of the Hector Heritage Foundation, a Sunday school teacher and volunteer at the Hector Heritage Quay. My post secondary plans are to earn an honours degree in psychology then obtain a degree in medicine specializing in pediatric haematology.

Prix

Valeur

Prix d'excellence - Senior - Médaille de bronze Commanditaire: Société de gestion des déchets nucléaires	300,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa	1 000,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
Total	2 300,00 \$