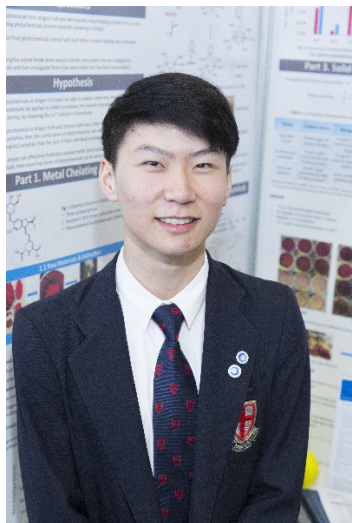


ESPC 2018 - Ottawa (Ontario)



Jason Chen

Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel

Défi: Ressources

Catégorie: Sénior

Région: Greater Vancouver

Ville: Vancouver, BC

École: St George's School

Sommaire: Dragon fruits are structurally unique plants indigenous to the Americas. The objectives of this project were to extract chemically active compounds from dragon fruit peels, test the various properties of the peel chemicals, and propose an alternative method of extracting chemicals using microorganisms. The results showed that dragon fruit chemicals have many unexplored merits and can potentially be used as a food preservative.

Biographie

Jason Chen, currently attending the 11th grade at St. George's School, is thrilled to attend the Canada Wide Science Fair. In school, Jason is part of the STEM club, which hosts weekly meetings and presentations for young, passionate scientific minds. Jason's passion for molecular biology and organic chemistry also compelled him to participate in a variety of science competitions: he competed in the Greater Vancouver Regional Science Fair for the past four years, and ranked 14th in the national Canadian Biology Olympiad. Jason is very grateful for this opportunity, and looks forward to sharing his project with the future young generation of scientists. Jason Chen's project focuses on dragon fruit peel extracts. Dragon fruits are structurally unique, savory plants indigenous to the Americas. The objectives of this project were to extract chemically active compounds from dragon fruit peels, test the various properties of the peel chemicals, and propose an alternative method of extracting chemicals using microorganisms. The results showed that dragon fruit chemicals have many unexplored merits and can potentially be used as a food preservative.

Prix

Valeur

Prix d'excellence - Sénior - Médaille d'or Commanditaire: Sciences jeunesse Canada	
Prix du défi - Ressources - Sénior Commanditaire: Sciences jeunesse Canada	
Bourses de l'Université Carleton Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: Université Carleton	4 000,00 \$
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	5 000,00 \$
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'admission de l'Université du Manitoba Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université du Manitoba	5 000,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: Université d'Ottawa	4 000,00 \$
Bourse d'études de Western University Médaille d'or - Bourse d'admission de 4 000 \$ Commanditaire: Université Western	4 000,00 \$
Total	26 000,00 \$