



## ESPC 2018 - Ottawa (Ontario)



## Biographie

I came to Ottawa, Canada from Kuwait with my parents at the age of seven years and then, moved to a small town, Thunder Bay, in Northwestern Ontario in 2013. Over the course of my school studies, I became interested in mathematics, computer coding, and research. My participation at Northwestern Ontario Regional Science Fair 2017 introduced me to the field of research. During the summer of 2017, I thoroughly enjoyed designing and constructing String Phantoms and Ultrasound Transducer Cases using Solidworks, Dremel and the 3D Printer at Dr Pichardo's lab at Thunder Bay Research Institute. This experience inspired me to design a novel health related experiment for the Northwestern Ontario Regional Science Fair 2018. My project received the Senior award of excellence and University of Ottawa Scholarship Award. My future plan is to conduct more experiments on kelp in the next year to determine why some set of data did not work. This experience with research taught me that results may not match the hypothesis most of the times. But having an inquisitive mind, self reflecting and seeking feedback at every step as well as perseverance are the qualities of a good researcher.

## Ishaan Sachdeva

Promising Future of Algae Based Silver Chloride Nanoparticles as Antibiotics

Défi:	Santé
Catégorie:	Sénior
Région:	Northwestern Ontario
Ville:	Thunder Bay, ON
École:	Sir Winston Churchill C.V.I.
Sommaire:	Silver chloride nanoparticles can kill bacteria. When made using chemicals, they can release byproducts which can be toxic to the human body and environment. I conducted an experiment to make silver nanoparticles using an algae called kelp. Then, I compared their action in killing bacteria to the nanoparticles made by chemical method. This experiment will help in

producing cost effective and environment friendly antibiotics.

Prix	Valeur
Prix d'excellence - Senior - Médaille de bronze	
Commanditaire: Sciences jeunesse Canada	
Bourses de l'Université Carleton	1 000,00 \$
Médaillé de bronze, sénior - Bourse d'admission de 1 000 \$	
Commanditaire: Université Carleton	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	3 000,00 \$



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