



ESPC 2017 - Regina (Saskatchewan)



Biographie

My name is Danish Baig and I live in Waterloo, Ontario. I attend Waterloo Collegiate Institute, a school that in our region is known for excellent math and science programs. Apart from working hard in classes, I enjoy playing football on the city and school team as well as rocking out with my cello in the school orchestra. My inspiration for this project came from discussions I had with my mentors, Fatima Awan and Dr. Michael Tam. I learned that the best way to develop an idea is to consider some criteria you want to meet first. I had to ask myself, can it be commercialized? Am I doing something new? Is it "cool"? And finally, am I interested in what I'm doing? As for advice I would give students considering a project: it doesn't matter if you fail because you've simply found a way that doesn't work. Trial and error are the bread and butter of scientists so do not be afraid to mess up. However, you should understand that time is against you and you need to make the most of it by practicing thorough organization along with planning.

Danish Baig

Bio-friendly Antimicrobial Replacement to 2017 FDA Banned Drugs: Silver NP/CNC

Défi:	Innovation
Catégorie:	Sénior
Région:	Waterloo-Wellington
Ville:	Waterloo, ON
École:	Waterloo Collegiate Institute
Sommaire:	The goal of this project was to develop
	offering an advantage over current com
	nanonarticles on cellulose nanocrystals

mmaire: The goal of this project was to develop a stable antimicrobial system offering an advantage over current commercial systems in the form of silver nanoparticles on cellulose nanocrystals (CNC). The FDA recently, just in 2017, banned 19 drugs found in antibacterial soaps for environmental concerns. I concluded that my synthesized system offers stability and the same antimicrobial performance, allowing it to be a replacement chemical.

Prix	Valeur
Prix d'excellence - Sénior - Médaille d'or	
Commanditaire: Sciences jeunesse Canada	
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	
Médaillé d'or, sénior - Bourse d'admission de 5 000 \$	
Commanditaire: Université Dalhousie, Faculté des sciences	
Prix d'admission en sciences de UBC (Vancouver)	4 000,00 \$
Médaillé d'or, sénior - Bourse d'admission de 4 000 \$	
Commanditaire: The University of British Columbia (Vancouver)	
Bourse d'admission de l'Université du Manitoba	5 000,00 \$
Médaillé d'or, sénior - Bourse d'admission de 5 000 \$	
Commanditaire: Université du Manitoba	
Bourse d'admission de l'Université d'Ottawa	4 000,00 \$
Médaillé d'or, sénior - Bourse d'admission de 4 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	4 000,00 \$
Médaillé d'or - Bourse d'admission de 4 000 \$	
Commanditaire: Université Western	
Total	22 250,00 \$



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