



ESPC 2015 - Fredericton (Nouveau-Brunswick)



Biographie

Austin Wang is a grade 11 student at David Thompson Secondary in Vancouver, BC. He is an aspiring scientist, competitive athlete and passionate musician. He played high school basketball, as well as soccer, track and field, and cross-country. Austin has played piano for 10 years, cello for 3 years, and was part of jazz and concert bands as a flutist and alto saxophonist. In his spare time, Austin enjoys composing original music. Recently, he won the Golden Key International Piano Composition Competition. Austin will perform his composition at the World Young Composer's Recital in Vienna, Austria this summer. Passionate about global issues, and an enthusiastic participant of Model United Nations, Austin is the founding president of his school's Model UN club. Currently, Austin does research into the microbial dynamics of microbial fuel cells (MFCs). As a novel electricity generation technology, Austin believes that MFCs have great potential in reducing our carbon emissions, and in providing power for third world and developing nations. Austin believes his research will yield new insights into the internal functions of MFCs and will lead to improved reactor designs and the eventual commercialization of this technology. Austin plans to study physics or biotechnology in universit...

Austin Wang

A Novel Method to Identify Genes in Electron Transfer of Exoelectrogens

Défi:	Énergie
Catégorie:	Sénior
Région:	Greater Vancouver
Ville:	Vancouver, BC
École:	David Thompson Secondary
Sommaire:	Exoelectrogens are microorganisms
	electron transport (EET) to generate
	This project along to identify manage i

nmaire: Exoelectrogens are microorganisms that are able to engage in extracellular electron transport (EET) to generate power in microbial fuel cells (MFCs). This project aims to identify genes involved in bacterial EET by screening an E. coli fosmid library in MFCs for enhanced clone performance. Analysis of gene inserts carried by these clones may provide new insight into the functions and mechanisms behind bacterial EET.

Prix	Valeur
Le Prix Manning en innovation - Sénior	500,00 \$
Commanditaire: Ernest C. Manning Awards Foundation	
Prix du défi - Énergie - Sénior	
Commanditaire: Sciences jeunesse Canada	
Prix d'excellence - Sénior - Médaille d'or	
Commanditaire: Sciences jeunesse Canada	
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	5 000,00 \$
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 du Nouveau-Brunswick	5 000,00 \$
Médaillé d'or ? Bourse d'admission de 5 000 \$	
Commanditaire: Université du Nouveau-Brunswick	
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	
Prix Platine - Meilleur projet sénior	1 000,00 \$
Commanditaire: Sciences jeunesse Canada	
Prix du meilleur projet	
Commanditaire: Sciences jeunesse Canada	
Total	31 250,00 \$

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