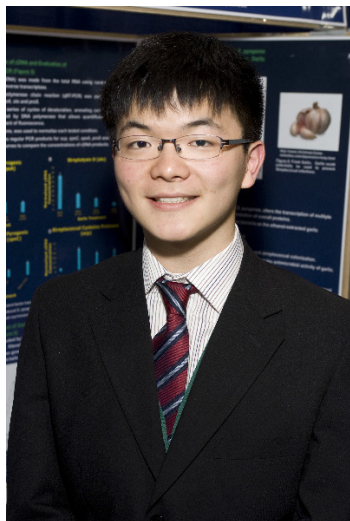


## ESPC 2010 - Peterborough (Ontario)



### Tony Kwon

#### Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect

**Division:** Internationale

**Catégorie:** Sénior

**Région:** London District

**Ville:** London, ON

**École:** A.B. Lucas S.S.

**Sommaire:** This project investigated if a natural product, such as garlic, could be used to prevent or treat Group A Streptococcal infections. It discovered that garlic extract inhibits the growth of *S. pyogenes*, alters the transcription of multiple streptococcal virulence factors and affects the translation of overall proteins. These positive results support the potential of fresh garlic as an economical antimicrobial in especially third world countries.

#### Biographie

I am a grade 12 student in London, Ontario, Canada who attends A.B. Lucas Secondary School. I am currently a string bassist in Lucas Concert Band and a representative of the school music council. To further pursue my interest in music, I have played in a monthly concert at the residential home ever since I was in grade seven. Also, I am in the school badminton team as a men-singles player. My hobbies and interests include scientific experiments, music, and sports. My interest in science (especially Biology) has been channeled through science fair. It has been a wonderful learning opportunity, providing me with academic knowledge, laboratory experience, and presentation skills. In order to promote the benefits of participating in a science fair, I have joined SMARTS, founded a science club at my school, and gave presentations at the local public schools. Thanks to the wonderful experience I had through the local university lab, I hope to become a microbiologist when I grow up.

#### Prix

#### Valeur

Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaillé d'argent, sénior - Bourse de début d'études de 2 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	2 000,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaillé d'argent, sénior - Bourse d'admission de 2 000 \$ Commanditaire: The University of British Columbia (Vancouver)	2 000,00 \$
Bourse d'admission de l'Université d'Ottawa Médaillé d'argent, sénior ? Bourse d'études de 3 000 \$ Commanditaire: Université d'Ottawa	3 000,00 \$
Bourse d'études de l'Université Western Ontario Médaillé d'argent - Bourse de début d'études de 2 000 \$ Commanditaire: Université Western Ontario	2 000,00 \$
Médaille d'argent - Sciences de la santé - Sénior Commanditaire: Instituts de recherche en santé du Canada	700,00 \$
<b>Total</b>	<b>9 700,00 \$</b>