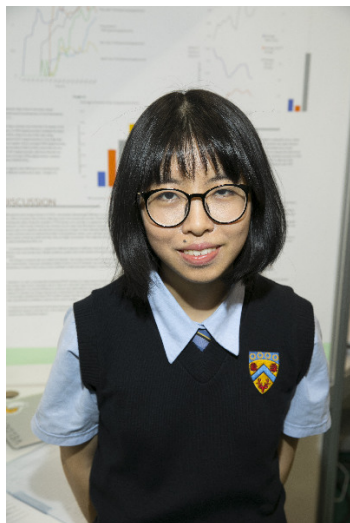


## ESPC 2017 - Regina (Saskatchewan)



### Selina Zhou

#### Changes in Volatile Organic Compounds Emission Under Stressed Conditions

**Défi:** Santé

**Catégorie:** Sénior

**Région:** Greater Vancouver

**Ville:** North Vancouver, BC

**École:** Collingwood School

**Sommaire:** This project attempts to look for a relationship between human mental stress level and biogenic volatile organic compounds(VOC) emission similar to that of plants. Measurements were taken both in group environments and individually. Results suggest a correlation between stress level and VOC emission, but also demonstrate great interpersonal differences in emission level.

#### Biographie

My name is Selina Zhou and I'm a grade 11 student from Collingwood, West Vancouver. I am an active member of my school's science club and enjoy going to competitions with my team. Besides science, I am passionate about art and giving back to my school community through working with the student arts committee and writing in our art publications Arts Mag. In my free time, I enjoy drawing, photography, table tennis, piano, and working on random projects. My project was inspired by the people around me who often complain about stress, which leads me to wonder if there's an easier way to measure people's stress level. I plan on continuing this project by expanding sample size, and if data is supportive, by developing an actual instrument. What I have learned through this project is that you shouldn't be afraid of not having enough knowledge to do what you want, because you can learn so much along the way.

#### Prix

#### Valeur

Prix d'excellence - Senior - Médaille de bronze Commanditaire: Sciences jeunesse Canada	
Bourse d'admission de l'Université d'Ottawa Médaille de bronze, sénior ? Bourse d'admission de 1 000 \$ Commanditaire: Université d'Ottawa	1 000,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
Total	2 000,00 \$