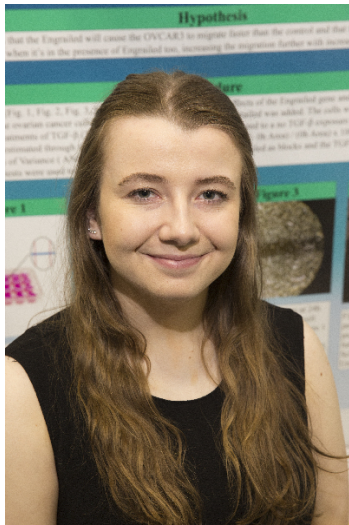


ESPC 2019 - Fredericton (Nouveau-Brunswick)



Juliana Koen Alonso

The Effect of the Engrailed Gene & TGF Beta on the Migration of Ovarian Cancer

Défi: Santé

Catégorie: Sénior

Région: Eastern Newfoundland

Ville: St. John's, NL

École: Holy Heart High School

Sommaire: Mainly, I studied how a gene - Engrailed - affected the movement of cancer cells. My experiment showed that when cells have this gene, they migrate twice as fast; interesting since it was present in almost all the cells I tested. If I can stop this gene from working, I can slow down the cancer and help save a lot of lives in the future.

Biographie

Cancer is something that has affected me a lot within my short life. Before I was even born, my grandfather died of it. Recently, I saw a little boy I knew from before he was even in the womb receive a leukemia diagnosis. When I read a paper about the presence of Engrailed being a biomarker in prostate cancer, I knew I had to investigate - that this could be my chance to contribute to the fight. My plans for further investigation are, of course, to do more replicates of the experiment to make sure they will shield the same result. After I've gathered that information and it's validated, I will move on to investigating if Engrailed has the same affect in other ovarian cancer cell lines and then onto other cancers if that proves the same. If so, I will work on trying to inhibit the gene to slow down migration and metastasis of cancerous cells within a patient. Advice I would give other students when doing a project is to do it on something you're passionate about. With enough passion, you'll be driven forward and you will never think of it as work, but just a new discovery.

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 \$