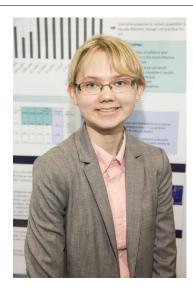




ESPC 2015 - Fredericton (Nouveau-Brunswick)



Kathryn Moeck

Pifithrin and Phenylalanine as a Novel Cancer Treatment

Défi: Santé **Catégorie:** Sénior

Région: Peterborough Ville: Cobourg, ON

École: Cobourg District C.I. West

Sommaire: This project tested the effects of pifithrin and phenylalanine on kidney

cancer cells. Pifithrin targets p53 and HSP70, while phenylalanine can cause damage to sensitive cells. The combination caused high amounts of cell death and cellular membrane disintegration. This treatment holds future promise as a novel targeted cancer therapy with reduced side effects, and

could be a step closer to a cure for kidney cancer.

Biographie

I am a 17 year old, grade 12 student at CDCI West. My interests include digital art and writing, yet my passion is in biochemical and medical sciences. I would describe myself as a dedicated student, and have won multiple awards in my high school years. My mother, a cancer survivor, inspired me to develop a novel cancer treatment after learning how many types of cancer do not yet have definitive treatments. I chose to research the effect of pifithrin and phenylalanine on cancer cells after my CWSF project in 2014, where I studied the impact on aspartame (which contains phenylalanine) on cancer. I plan to study biochemistry in university, and have aspirations to go to medical school and study to become an oncologist. I plan to continue my research about pifithrin and phenylalanine in university and hope to make a significant contribution to the fight against cancer. The best advice I can give to students thinking about doing a project is to go for it! Study what inspires you, and you will find out what a rewarding experience science fairs can be.

Prix	Valeur
Prix d'excellence - Senior - Médaille de bronze	
Commanditaire: Sciences jeunesse Canada	
Bourse d'admission de l'Université d'Ottawa	1 000,00 \$
Médaillé de bronze, sénior ? Bourse d'admission de 1 000 \$	
Commanditaire: Université d'Ottawa	
Bourse d'études de Western University	1 000,00 \$
Médaillé de bronze - Bourse d'admission de 1 000 \$	
Commanditaire: Université Western	
Total	2 000.00 \$





