



ESPC 2015 - Fredericton (Nouveau-Brunswick)



Biographie

I got the inspiration for my project from my dad. My dad has a spine disease, and seeing the consequences of the spine disease, I was interested in getting to know more about it. My future investigations would be geared towards looking at the molecular mechanisms that might be contributing to the back pain that the mice feel when they have disc degeneration due to loss of CCN2 proteins inside their discs. Also, I would like to investigate injecting CCN2 proteins directly to their discs to regenerate the tissue and alleviate back pain. Participating in science fair opens up so many different opportunities for everyone, and disregarding the results, it is such a fun and excellent experience overall. Having enthusiasm is the key point; science should be enjoyable.

SeonHo Jang

Correlation between tissue changes & back pain in a mouse model of intervertebra

Défi:	Santé
Catégorie:	Sénior
Région:	Thames Valley
Ville:	London, ON
École:	A.B. Lucas S.S.
Sommaire:	The purpose of this year's project was to determine whether Ccn2-knockout
	mice demonstrate signs of symptomatic disc degeneration. Three
	behavioural assays for measuring stretch-induced axial discomfort and two
	assays for measuring radiating pain were performed. This project will
	provide further evidence for the potential of CCN2 as a therapeutic target
	for intervertebral disc degeneration and will help develop clinical treatments
	for human patients.

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 \$



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