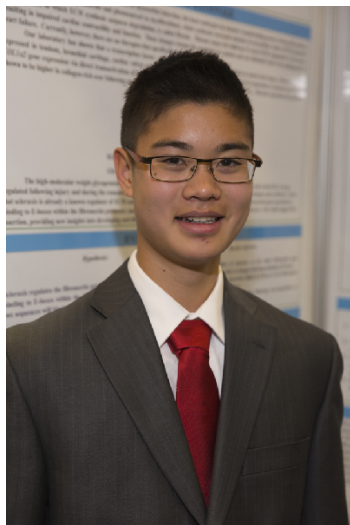


ESPC 2016 - Montreal (Québec)



Justin Xi-Yuan Lin

Regulation of Fibronectin Gene Expression in Fibroblasts by Scleraxis

Défi: Santé

Catégorie: Sénior

Région: Manitoba Schools Science Symposium

Ville: Winnipeg, MB

École: St. John's Ravenscourt School

Sommaire: Cardiac fibrosis is the over-production of extracellular matrix, and poses a significant threat to the health of many individuals worldwide, yet lacks specific therapies. We investigated the role of the transcription factor scleraxis in mediating production of fibronectin, a key constituent of this matrix. We found that scleraxis is both sufficient and necessary for fibronectin expression, providing rationale for anti-fibrotic strategies that target scleraxis function.

Biographie

My name is Justin Lin and I am in Grade 11 at SJR school in Winnipeg, Manitoba. My hobbies include playing piano and debating. I also enjoy playing sports such as soccer, basketball and ultimate frisbee. I hope to pursue a career in medicine. This will be my second time at CWSF! My project this year further elucidated the role of the transcription factor scleraxis in pathological cardiac fibrosis. Specifically, scleraxis was revealed to be a critical regulator of a protein called fibronectin. These discoveries will ultimately bring us closer and closer to developing a drug to target cardiac fibrosis, a deadly disease. My advice to anyone who is considering entering a science fair would be to put in their best effort and enter a field that they are interested in. My experience with science fair has been extremely rewarding, in part due to my amazing mentors. This year, my project allowed me to delve further into research and explore my fascination with science.

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 \$