

ESPC 2019 - Fredericton (Nouveau-Brunswick)



Leah Schwartz

Regulation of Periostin Gene Expression by Scleraxis

Défi: Santé

Catégorie: Sénior

Région: Manitoba Schools Science Symposium

Ville: Winnipeg, MB

École: University of Winnipeg Collegiate)

Sommaire: Cardiac fibrosis is a major health problem. Proteins build up in the walls of the heart, leading to heart failure. We focused on a protein, Periostin, which seems to increase cardiac fibrosis. We found that another protein, Scleraxis, controls Periostin expression. As we gain a better understanding of the process of cardiac fibrosis, this will help us develop effective therapies to treat this serious problem.

Biographie

My name is Leah Schwartz. I am sixteen years old and a recent graduate of the University of Winnipeg Collegiate. I am the second of six children, born, raised and educated in Winnipeg. I have been fortunate to experience a variety of interests growing up, including playing both piano and double bass, participating in several school and community orchestras, playing both soccer and chess at a competitive level, and participating in a hospital-based patho-physiology research laboratory. My future plans include study in the sciences, including research work. An experience which has proved to be instrumental in my education and future goals was my participation at the International Summer School for Young Physicists in Waterloo, Ontario during the summer of 2018. This program brought me into contact with peers from across the globe, who share my interest in the sciences, research, and utilization of knowledge for improvement in global health. My life experience thus far has been varied, stimulating and enjoyable. I would advise other students who are considering a project to involve themselves in laboratory research. This work is exciting, rewarding and provides the student researcher with a first-hand experience that cannot be duplicated in any other way.

Prix

Valeur

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