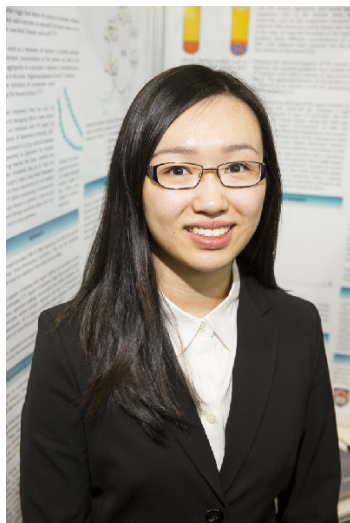


ESPC 2015 - Fredericton (Nouveau-Brunswick)



Hanna Tang

Utilization of aptamers as a novel therapeutic tool for Parkinson's Disease

Défi: Santé

Catégorie: Sénior

Région: Ottawa

Ville: Ottawa, ON

École: Bell Corner High

Sommaire: A novel SELEX technique was used to select an enriched aptamer pool capable of binding with high affinity and specificity to the alpha-synuclein monomer. Previous studies have shown that the aggregation of alpha-synuclein is linked to the progression of neurodegenerative disease including Parkinson's disease (PD). The selected aptamer pool significantly reduces protein aggregation and could deter the progression of PD.

Biographie

My name is Hanna Tang and I am a grade 12 student at Bell High School. I enjoy a variety of sports including cross-country running, swimming, and taekwondo. My passion for science and mathematics began when I was four years old. Some of my notable achievements include leading a team of four students to win gold in the Skills Ontario provincial competition and placing top 60 worldwide in the Fermat math contest. I have always had an interest in neurology and I am so happy to have the opportunity to discover new ways to stop the progression of Parkinson's disease (PD). I hope that my project will progress to clinical trials and be used as a novel therapeutic tool for PD in the future. This would have invaluable implications in the life quality of individuals suffering from this disease. We, as researchers, are all the first humans on the planet to know a piece of information, which is so cool! To other students thinking about doing a project, my advice is to do something for which you have a passion. Undoubtedly, any project will require effort and effort, but the excitement of getting results makes it worth it!

Prix

Valeur

Prix d'excellence - Sénior - Médaille d'or Commanditaire: Sciences jeunesse Canada	250,00 \$
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	5 000,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: The University of British Columbia (Vancouver)	4 000,00 \$
Bourse d'admission de l'Université du Manitoba Médaille d'or, sénior - Bourse d'admission de 5 000 \$ Commanditaire: Université du Manitoba	5 000,00 \$
Bourse d'admission de l'Université du Nouveau-Brunswick Médaille d'or ? Bourse d'admission de 5 000 \$ Commanditaire: Université du Nouveau-Brunswick	5 000,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille d'or, sénior - Bourse d'admission de 4 000 \$ Commanditaire: Université d'Ottawa	4 000,00 \$
Bourse d'études de Western University Médaille d'or - Bourse d'admission de 4 000 \$ Commanditaire: Université Western	4 000,00 \$
Total	27 250,00 \$