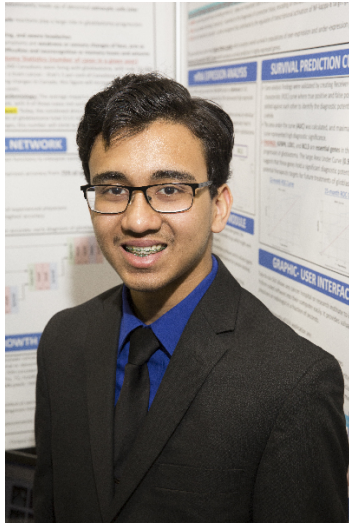


ESPC 2019 - Fredericton (Nouveau-Brunswick)



Dhruv Patel

A Novel Approach to Diagnose Glioblastoma

Défi: Santé

Catégorie: Sénior

Région: Frontenac, Lennox & Addington

Ville: Kingston, ON

École: Loyalist Collegiate Vocational Institute - LCVI

Sommaire: Glioblastoma is an aggressive, stage IV brain cancer, with low survival rates of 15 months. Traditional methods of tumor diagnosis are invasive and expensive. Early tumor detection is crucial for successful treatment and patient survival. My project utilizes artificial intelligence to develop a novel MRI diagnostic tool with integrated systems for tumor growth prediction, detecting responsible genes in glioblastoma, and possible new drug development.

Biographie

Hello! My name is Dhruv Patel, a grade eleven student at Loyalist Collegiate Vocational Institute, Kingston, Ontario. I am an avid science and math fan, participating in science fair since Grade 7 and math competitions since grade 3. I have placed top 6 in Canada for mathematics through Waterloo competitions, solidifying my love for that field. However, my main passion lies in the field of neuroscience, stemming from my previous investigations on therapies for Alzheimer's disease, as well as my participation and success in multiple brain bees. Currently, I am also working on creating an international high school neuroscience course. Through the exploration of this topic, I have come upon my main interest in the intersection of health science and machine learning and have applied this knowledge in this science fair project ? a novel approach to improve the accuracy and efficiency of glioblastoma diagnoses, while further improving prognostic and treatment outlooks for patients. With a variety of interests, I believe CWSF will be an amazing forum for discussion and discovery as I meet like-minded individuals who have the potential to change the future.

Prix

Valeur

Prix d'excellence - Sénior - Médaille d'argent Commanditaire: Sciences jeunesse Canada	
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaille d'argent, sénior - Bourse d'admission de 2 500 \$ Commanditaire: Université Dalhousie, Faculté des sciences	2 500,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaille d'argent, sénior - Bourse d'admission de 2 000 \$ Commanditaire: The University of British Columbia (Vancouver)	2 000,00 \$
Bourse d'admission de l'Université du Nouveau-Brunswick Médaille d'argent ? Bourse d'admission de 2 500 \$ Commanditaire: Université du Nouveau-Brunswick	2 500,00 \$
Bourse d'admission de l'Université d'Ottawa Médaille d'argent, sénior - Bourse d'admission de 2 000 \$ Commanditaire: Université d'Ottawa	2 000,00 \$
Bourse d'études de Western University Médaille d'argent - Bourse d'admission de 2 000 \$ Commanditaire: Université Western	2 000,00 \$
Total	11 000,00 \$