

ESPC 2014 - Windsor (Ontario)



Ankita Saxena

Investigating Protein Aggregation States in AD and TBI using CSM

Défi: Innovation

Catégorie: Sénior

Région: Calgary Youth

Ville: Calgary, AB

École: Westmount Charter School

Sommaire: Alzheimer's Disease is characterized by the accumulation of misfolded Abeta protein into aggregates called amyloids. This study develops novel methods to image such protein structures via conformation specific fluorescent probes and confocal spectral microscopy. Here, emission spectra from the treated sample are correlated with particular aggregation states. This technique can be used to quantitatively and qualitatively analyze, classify, and detect said structures for various uses.

Biographie

Hi, I'm Ankita Saxena. I hail from Calgary, Alberta, Canada and am incredibly excited to be at this years' Canada Wide Science Fair. I've been fortunate enough to work in research labs since I was 14. This experience has been incredibly enriching, and helped me to find what I think is my passion - neuroscience. In the future, I aspire to become a clinician-scientist and run my own biotechnology company. Aside from science, I have an interest in politics and volunteerism - I'm a member of the Minister's Student Advisory Council and chair the Calgary Youth Advisory Council for the Canadian Breast Cancer Foundation. I also edit for the Canadian Young Scientist Journal. I strongly believe that engaged youth can change the world and encourage all students to try their hat at science fair.

Prix

Valeur

Prix d'excellence - Senior - Médaille d'or Commanditaire: Sciences jeunesse Canada	700,00 \$
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 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	22 700,00 \$