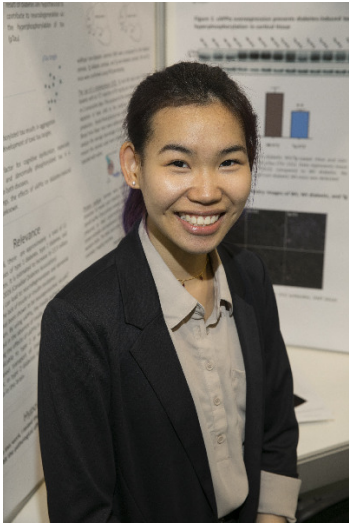


CWSF 2017 - Regina, Saskatchewan



YaWen Huang

Secreted APP? as a Therapeutic for Diabetic Encephalopathy

Challenge: Health

Category: Senior

Region: Winnipeg Schools

City: Winnipeg, MB

School: Grant Park High

Abstract: The insulin pathway is impaired in the case of diabetes, leading to negative effects in the brain. sAPP β overexpressing mice were used to determine its benefits. It was found to decrease toxic tau tangles, as well as the stress response that occurs in the neuronal tissue of diabetic mice. sAPP β was able to inhibit the pathological effects of diabetes in the brain.

Biography

YaWen Huang is a grade 11 student at Grant Park High School, who's interest and passion for neuroscience began in grade 9 upon approaching the lab of Dr. Gordon Glazner at the St. Boniface Albretchen Research Centre. This interest has led to the expansion of skills within, and outside of the lab. YaWen aims to contribute to the exploration of the pathology and mechanisms that occur in the brain in the circumstances of disease. Apart from the lab and science, YaWen enjoys spending time with friends and family, and creating art.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000