



## CWSF 2017 - Regina, Saskatchewan



## 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 Albretchsen Research Centre. This interest has lead 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.

## 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? 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? was able to inhibit the pathological effects of diabetes in the brain.

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



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