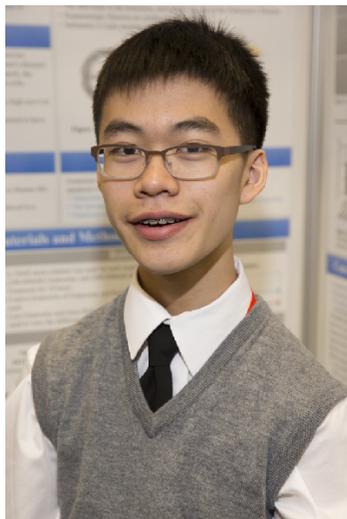


# CWSF 2016 - Montreal, Quebec



## Evan Chan

### The Effects of Guanosine on Essential Neurotoxins in the Parkinson's Disease

**Challenge:** Health

**Category:** Intermediate

**Region:** Winnipeg Schools

**City:** Winnipeg, MB

**School:** Grant Park High

**Abstract:** The Objective of the investigation was to determine if Guanosine reduces levels of rotenone (neurotoxin), and if Rotenone induces higher levels of Alpha-Synuclein(protein). Through Western blot and MTT Assay, Guanosine did not reduce Rotenone levels, Rotenone did not induce higher levels of Alpha-Synuclein, and Guanosine reduced expressions of Alpha-synuclein. The results are an important step towards an effective treatment.

#### Biography

Evan Chan is a grade nine AP student from Grant Park High School. Being a passionate student, he is a member of his school's debate program, green environmental team, student council, Junior/Intermediate jazz bands and Reach for the Top trivia team. Asides from school, Evan is the VP of Health and Safety in his own company. He is also a member of the 170 St. James RCACS. He was involved in the honor band, biathlon, marksmanship, effective speaking competition, drill team, first aid, and ongoing to the Advanced Aerospace course in St. Jean, Quebec. He is also the marketing and financial director of a youth science conference(Project Pulse) in Winnipeg. His love for science began since he began competing in the science fair competitions from grade four. Evan's project idea came when his interests sparked in the field of neuroscience. He developed an idea to target the neurotoxins with Guanosine, to potentially reduce the symptoms of the Parkinson's disease. One suggestion to know that science may not be perfect at first. When performing an experiment, do not always expect the results to be correct on the first trial. With patience, and strive to do something, anyone can succeed!

#### Awards

#### Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000