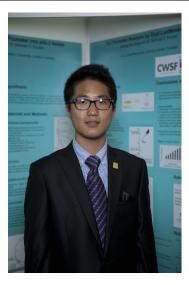


CWSF 2013 - Lethbridge, Alberta



Biography

My name is Jeongho Jang, grade 12 student at A.B. Lucas Secondary School in London, Ontario. I enjoy studying science related subjects such as Chemistry and Biology. Also, I love playing many different kinds of instruments such as clarinet, piano and guitar. I am currently the principal clarinetist in London Youth Symphony. In addition, I am active and I enjoy playing sports such as baseball and soccer. I love volunteering and has been a member of St. John Ambulance student Medical First Responder Team since grade 9. I first got interested in neurological disorders because my grandfather had Alzheimer's Disease. My ultimate goal is to discover innovative therapy that can cure epilepsy which has no side effects unlike current general anti-epileptic drugs, and contribute myself to the field of neuroscience and medicine. I dream of becoming a professor in neurosurgery and continue pursuing research to find better and safer therapies for incurable neurological disorders.

Jeong Ho Jang

Gene Therapy for Epilepsy

Challenge:	Health
Category:	Senior
Region:	London District
City:	London, ON
School:	A.B. Lucas S.S.
Abstract:	The expression of a voltage gated potassium channel (Kv1.6) is inappropriately increased in epileptic brain. Therefore a potential gene therapy that suppresses the expression of Kv1.6 protein may be therapeutic. This project identified a region of the Kv1.6 promoter that enhances expression in neurons but not in skin cells. This gene promot may therefore be useful for the control of Kv1.6 expression.

Awards	Value
Excellence Award - Senior - Bronze Medal	\$100
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	\$2 100



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gene promoter