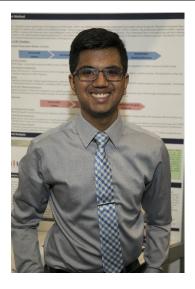




CWSF 2017 - Regina, Saskatchewan



Biography

I have been very passionate about science from a very young age, and have looked to implement it in various avenues from competing in Science Olympiad to publishing research in international peer-reviewed journals. In addition to my work in the sciences, I am passionate about addressing various social issues that I see in the world around me. As chair on Calgary's Mayor's Youth Council (MYC) and as a member of the Youth Employment Centre's Youth Advisory Committee (YAC), I have worked to tackle pressing municipal issues. From curating a database of ways for young people to get involved, to working with youth to ensure they have access to employment and mental health resources, creating stronger communities is a goal I have consistently worked towards. I have also looked to tackle the important issues of physical and mental well-being by creating multiple organizations and registered Canadian non-profits. To date, organizations I have helped create have raised tens of thousands of dollars for local organizations like the Alberta Children's Hospital Brain Health Department. Through these organization I wanted to give youth a way to positively impact their community while building the skills and passion necessary to be successful in the world today.

Mehul Gupta

Liquid Biopsy: A Novel Diagnostic Technique for Atypical Teratoid/Rhabdoid Tumor

Challenge:	Health
Category:	
Region:	Calgary Youth
City:	Calgary, AB
School:	Sir Winston Churchill High School
Abstract:	Atypical Teratoid/Rhabdoid Tumor is an aggressive form of cancer affecting the central nervous system of patients typically 0-36 months of age. Typical diagnosis of this disease and other malignancies requires invasive and often insensitive surgical tissue biopsies. This investigation focused on gene mutation and expression analysis, thereby developing a novel liquid biopsy procedure with a diagnostic sensitivity of 96%.

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



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

