



CWSF 2017 - Regina, Saskatchewan



Nuclei Oxidation Therapy: A New Take on Localized Antineoplastics

Challenge: Health

Category: Intermediate

Region: City: School:

Abstract: The focus of my project is to determine whether the nucleus of a tumor cell

can be oxidized with a hydrogen peroxide solution delivered via a nanoparticle delivery system. Theoretically, the excessive oxidation will inhibit reproduction of the tumor cell. In conclusion, further research will be needed to determine whether an encapsulated oxidant can penetrate the

tumor cell's natural antioxidant defence mechanism.

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



