

CWSF 2005 - Vancouver, British Columbia



Natalie Raso

Using Viruses to Kill Cancer

Division: Health Sciences

Category: Intermediate

Region: Bay Area

City: Hamilton, ON

School: St. Thomas More Catholic Secondary School

Abstract: This experiment investigates the role of a double-mutant HSV-1 (KM110r) to determine if it is a safe and effective oncolytic virus therapy. Thorough in-vitro proliferation assay and morphological analyses prove that KM110r can successfully destroy all cancerous cells under physiological conditions and completely ignore all non-cancerous cells despite induced genetic differentiation.

| Awards | Value |
|---|-----------------|
| Canadian Society for Medical Laboratory Science Award Intermediate Sponsor: Canadian Society for Medical Laboratory Science | \$750 |
| Genome Canada Awards - Intermediate - Third place Sponsor: Genome Canada | \$500 |
| The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario | \$2 000 |
| Gold Medal - Health Sciences - Intermediate Sponsor: Canadian Institutes of Health Research | \$1 500 |
| EnCana Platinum Award - Best Intermediate Project Sponsor: Encana Corporation | \$5 000 |
| EnCana Best in Fair Award Sponsor: Encana Corporation | \$10 000 |
| Total | \$19 750 |