



CWSF 2005 - Vancouver, British Columbia



Janet Freilich

Lighting the Way - Chemiluminescence Predicts Cell Growth

Division: Life Sciences

Category: Senior

Region: Greater Vancouver **City:** Vancouver, BC

School: Sir Winston Churchill Secondary School

Abstract: My project seeks to demonstrate a correlation between chemiluminescence

and growth rate of cells in culture. Chemiluminescence is caused by oxygen radicals, which are produced as a by-product of metabolism. Metabolism is linked to growth rate. My results suggest that chemiluminescence may be

an effective indicator of growth rate.

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Gold Medal - Life Sciences - Senior	\$1 500
Sponsor: Pfizer Canada	
Total	\$8 000



