

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