



CWSF 2005 - Vancouver, British Columbia



Keri Williams

2,3,7,8 Tetrachlorodibenzo-p-dioxin: Targeting Toxins

Division: Biotechnology

Category: Senior

Region: Cariboo Mainline City: Merritt, BC

School: Merritt Secondary School

Abstract: Interaction between the 2,3,7,8 tetrachlorodibenzo-p-dioxin and the Ah and

CD95 cell receptors leads to premature cell apoptosis, birth defects and promotion of cancer cells. In this study toxic steps were identified and potential cytotoxic pathways were developed. The viral Flice Inhibitory Protein (Flip-c) and the flavonoid, Quercetin were identified as potential toxicity inhibitors. These results could help to reduce incidence of cancer.

Awards	Value
The Canadian Society for the Weizmann Institute of Science Scholarships	\$8 000
Louis D. Craig Scholarship Sponsor: The Canadian Society for the Weizmann Institute of Science	
(Weizmann Canada)	
The Manning Innovation Achievement Award	\$4 000
and \$4000 Manning Young Canadian Innovation Award	
Sponsor: Ernest C. Manning Awards Foundation	
Honourable Mention - Biotechnology & Pharmaceutical Sciences	\$100
Senior	
Sponsor: Rx&D Health Research Foundation	
Total	\$12 100



