

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

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