

## CWSF 2010 - Peterborough, Ontario



### **Alkaloids to be, or not to be in Catharanthus**

**Division:** Earth & Environmental Sciences

**Category:** Senior

**Region:**

**City:** ,

**School:**

**Abstract:** Dimeric Alkaloids produced in the Madagascar Periwinkle (*Catharanthus roseus*) continue to be one of the key components of a variety of different chemotherapy regimes, effectively fighting cancerous diseases like leukemia and Non-Hodgkin's Lymphoma. In this experiment it is shown that hypothesis about the production of secondary metabolites necessary for the synthesis of dimeric alkaloids may not stand correct for all varieties of *Catharanthus roseus*.