

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*.