

V. Conclusions

Through our continuing search for anticancer agents from Madagascar rainforests as a part of International Cooperative Biodiversity Group (ICBG), extracts of two plants were received. Their bioassay guided fractionation led to the isolation of six compounds. The structure elucidation and characterization of these compounds was carried out using mass spectrometry and 1D and 2D NMR techniques.

The ethanol extract root, bark, and wood of *Roupellina (Strophanthus) boivinii* exhibited good activity on A2780 human ovarian cancer cell line. Bioassay guided fractionation of this extract yielded three new and one known cardenolide glycosides. The structure of the known cardenolide glycoside was determined after comparison of spectral data to that found in literature for digitoxigenin 3-O- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-acofriopyranoside.

The fractionation of the leaf and flower extract of *Grewia* sp. led to the isolation of one new and one known triterpenoid. The known triterpenoid was identified as 7 β -hydroxy-23-deoxojessic acid and its structure was confirmed by comparison of its 1D and 2D NMR data to that found in literature.