

**THE ISOLATION OF NATURAL PRODUCTS FROM
PLANT EXTRACTS**

by

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(Abstract)

Bioassay-guided fractionation of the ethyl acetate extract of *Virola sp.* (Myristicaceae) using the Sc7 yeast strain resulted in the isolation of the weakly cytotoxic biochanin A (an isoflavone compound). The bioassay of three mutant yeast strains (1138, 1104, and 1353) directed the isolation of DNA-damaging alkaloids from *Solanum hostmannii*. These alkaloids were identified as verazine and (20R) epimer verazine. In addition, three oxoaporphine alkaloids were isolated from the bark of *Papualthia sp.* (Annonaceae). Oxocrebanine and atherospermidine showed DNA-damaging activity whereas liriodenine had cytotoxic activity.

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