THE ISOLATION OF NATURAL PRODUCTS FROM PLANT EXTRACTS

by

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Thesis submitted to the Faculty of the
Virginia Polytechnic Institute and State University
In partial fulfillment of the requirement for the degree of

Master of Science
in
Chemistry

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June28, 2000
Blacksburg, Virginia

Keywords: natural product, DNA-damaging agents, biochanin A, verazines, oxoaporphine

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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.

ACKNOWLEDGMENTS

I would like to express my sincere gratitude and appreciation to my research advisor, Professor Dr. David G. I. Kingston, for his guidance, encouragement, and patience throughout this thesis.

Grateful appreciation is also conveyed to my committee, Dr. James Tanko, Dr. Brian Hanson, and Dr. Richard Gandour, for their valuable suggestions and comments.

Thank also go to the members of the Kingston research group, especially for Dr. Bing-nan Zhou, who taught, guided and suggested me many isolation and NMR techniques. I also thank to John Berker, Dr Youngwan Seo for their help and suggestions in HPLC and NMR techniques. Thanks also go to Dr. Maged Abdel-Kader and Dr. Supada Rojaktar for suggestions about the isolation techniques. Thank also go to Belhu Metaferia, Erkan Baloglu for their help and friendship, as well as Jessica Sharp and Jeannine Hoch for their help in bioassay experiments.

I also thank Tom Glass and Bill Bebout for their help in NMR training and suggestions.

I do greatly appreciate to the Thai government for the financial support. I appreciate to the National Cancer Institute and ICBG program for the plant materials.

Finally, I thank my family and my friends for their support, advice and encouragement.

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