

REFERENCES AND NOTES

1. Auksornkeaw, S. and Panichsukho, S., *Phun Mai Pa Chai Lane*, 1st ed Compute Advertising Press, 1982, 23.
2. Patanapolpaiboon, P., MS. Thesis, Botany Department, Graduate School, Chulalongkorn Univ, 1979.
3. Chanathip, P., Aud Sa Ha Kum Klun Mai, *Jullasarn Saphawawadlom* 1984, 3, 7.
4. Pongboonrod, S., *Mai Tet Muang Thai*, 1st ed. Kasembunakid Press Bangkok, 1976, 30.
5. a) Chavasiri, W., MS. Thesis, Chemistry Department, Graduate School, Chulalongkorn Univ., 1988.
b) Kokpol, U., Chavasiri, W., Chittawong, V., Cunningham, C.N. and Miles, D.H., Long chain Aliphatic Alcohols and Saturated Carboxylic Acids from Heartwood of *Rhizophora apiculata*, *Phytochemistry*, 1993, 33, 1129.
6. Nophakundilokrat, S., MS. Thesis, Chemistry Department, Graduate School, Chulalongkorn Univ., 1991.
7. Minocha, P.K. and Tiwari, K.P., A Triterpenoidal Saponin from Roots of *Acanthus illicifolius*, *Phytochemistry*, 1981, 20, 135.

8. Kokpol, U., Chittawong, V. and Miles, D.H., Chemical Constituents of the Roots of *Acanthus illicifolius*, *J. Nat. Prod.*, 1986, 49, 355.
9. Taylor, D.A.H., *The Chemistry of the Limonoids from Meliaceae*, 1985, 2.
10. Gill, J.S. and Lewis, C.T., Antifeedant Activity in Locusts, *Nature*, 1971, 232, 402.
11. Madhusudana Rao, M., Meshulam, H., Zelnik, R. and Lavie, D. Structure and Stereochemistry of Limonoids of *Cabralea cichleriana*, *Phytochemistry*, 1975, 14, 1071
12. Bevan, C.W.L., Ekong, D.E.U. and Taylor, D.A.H., Extractives from West African Members of the Family Meliaceae, *Nature*, 1965, 26, 1323.
13. Srivastava, S.D., Limonoids from the Seeds of *Melia azedarach*, *J. Nat. Prod.*, 1986, 49, 56.
14. Huang, R.C., Okamura, H., Iwagana, T. and Nakatani, M., The Structure of Azadarachins, Limonoid Antifeedant from Chinese *Melia azedarach* Linn., *Bull. Chem. Soc. Japan*, 1994, 67, 2468.
15. Nakatani, M., Zhou, I.B., Iwagawa, T. and Okamura, H., Isolation of 2 limonoid Antifeedants from *Melia-toosendan*, *Heterocycles*, 1994, 38, 2407.

16. Gunning, P.J., Jeffs, L.B., Towers, G.H.N. and Isman, M.B., Two Limonoids from *Chisocheton-Microcarpus*, *Phytochemistry*, 1994, 36, 1245.
17. Samittanan, T., *Chaew Phan Mai Hang Pra Tet Thai*, Fany Press, Bangkok, 1980, 352.
18. Augsornkaew, S., Maxwell, G.S., Panichsukho, S. and Havanon, S., *Plant in Mangrove (Botany of Mangrove)*, 1982, 125.
19. Okorie, O.A., and Taylor, D.A.H, Limonoid from *Xylocarpus granatum* Koenig., *J. Chem. Soc. (C)*., 1970, 211 .
20. Hoffman, R.V., The Structure of Xylomollin, A Secoiridoid Hemiacetal Acetal, *J. Am. Chem. Soc.*, 1976, 98, 6704.
21. Connolly, J.D. and MacLellan, M., Limonoids from *Xylocarpus moluccensis* (Lam.) M. Roem, *J. Chem. Soc. Perkin Trans. I*, 1976, 1993.
22. Chou, F.Y., Hostetmann, K., Kubo, I. and Nakanishi, K., Isolation of an Insect Antifeedant *N*-methylflindersine and Several Benz [c] phenanthridine Alkaloids from East African Plants; A Comment of Chelerthrine, *Heterocycles*, 1977, 7, 969.

23. Ng, A.S. and Fallis, A.S., Comment: 7- α Acetoxidyhydronomillin and Mexicanolide: Limonoids from *Xylocarpus granatum* (Koenig), *Can. J. Chem.*, 1979, 57, 3088.
24. Taylor, D.A.H. Limonoid Extractives from *Xylocarpus moluccensis*, *Phytochemistry*, 1983, 22, 1297.
25. Hogg, R.W. and Gillan, F.T, Fatty Acids, Sterols and Hydrocarbons in the Leaves from Eleven Species of Mangrove, *Phytochemistry*, 1984, 23, 93.
26. Alvi, K.A., Crews, P., Aalbersberg, B. and Prasad, R, Limonoids from the Fijian Medicinal Plant Dabi (*Xylocarpus*), *Tetrahedron*, 1991, 47, 8943.
27. Mulholand, D.A. and Taylor, D.A.H., Limonoids from Australian Members of the Meliaceae, *Phytochemistry*, 1992, 31, 4163.
28. Raksilp, T., MS. Thesis , Chemistry Department, Graduate School, Chulalongkorn Univ., 1995.
29. Randerath, K., *Thin-Layer Chromatography*, 2nd rev. Academic Press, USA, 1966, 264.
30. Fessenden, R.J. and Fessenden, J.S., *Technique and Experiments for Organic Chemistry*. London:Willard Grant Press, 1983., 227.
31. Leonard, J, Lygo, B, and Procter, G., *Advanced Practical Organic Chemistry*, Blackie Academic & Professional, 1988, 19.

32. Cook, R.P., Reaction of Steroid with Acetic Anhydride and Sulfuric acid, *Analyst*, 1961, 86, 373.
33. Shriner, R.P., Fuson, R.C., Curtin, D.Y. and Morrill, T.C., *The Systematic Identification of Organic Compounds*, 6th ed., New York: John Wiley & Sons, 1980, 178.
34. Panchapattanasiri, P., MS Thesis, Biology Department Graduate School Chulalongkorn Univ., 1995.
34. Punjapattanasiri, P., MS. Thesis, Biology Department, Graduate School, Chulalongkorn Univ., 1995.
35. This bioassay experiment was conducted by the Plant Extract Research Unit, Otago University, New Zealand.
36. Dyke, S.F., Floyd, A.J. and Theobald, R.S., *Organic Spectroscopy: An Introduction*. 1st ed.: Penguin Books Ltd., USA, 1971, 48.
37. William, D.H. and Fleming, I., *Spectroscopic Methods in Organic Chemistry*, 2nd ed., Mc.Graw Hill, 1973, 35.
38. Harbone, J.B., *Phytochemical Methods*, 2nd ed., Chapman and Hill, USA, 1984, 56.
39. The Nist library search
40. Chakrabarty, T., Connolly, J.D., Mccrindle, R., Overton, K.H. and Schwarz, J.C.P., Tetranortriterpenoids-VI [bicyclononanolidesIV] swietenonolide. The Functional Groups, *Tetrahedron*, 1968, 24, 1503.

41. Cooper, J.W., *Spectroscopic Techniques for Organic Chemists*, 1 st ed John-Wiley & Sons; U.S.A., 1980, 227.
42. Olsen, J.I., Schweizer, M.P. and Klocke, J.A., 7-deacetyl-17 β -hydroxy - azadiradione, A New Limonoid Insect Growth Inhibitor from *Azadirachta indica*, *Phytochemistry*, 1988, 27, 2773.
43. Baldwin, M.A., Loudon, A.G. and Maccoll, A., The Mass Spectra of Meliacins and Related Compounds. Part I Gedunin and Related Compounds, *J. Chem. Soc. (C)*, 1967, 1026.
44. Powell, J.W., Nuclear Magnetic Resonance Spectroscopy. A Correlation of the Spectra of Some Meliacin and Their Derivatives, *J. Chem. Soc. (C)*, 1966, 1794.
45. Taylor, D.A.H., ¹³C Nuclear Magnetic Resonance Spectra of Some Limonoids. Part I. The Structure of Procerin, an Extractive from *Carapa procera*, *J. Chem. Soc. Perkin Trans I.*, 1974, 437.
46. Kubo, I. and Klocke, J. Insect Ecdysis Inhibitors, *ACS. Symp. Ser.*, 1986, 296, (Nat. Resisit. Plants Pesta), 206. Through CA 104: 163673b.
47. Pettit, D.R., Barton, D.H.R., Herald, C.L., Polensky, J., Schmidt, J.M. and Connolly, J.D., Evaluation of Limonoids Against the Murine P388 Lymphocytic Leukemia Cell Line, *J. Nat. Prod.*, 1983, 46, 379.

48. Vanucci, C., Lange, C., Lhommet, G., Dupont, B., Vuachot, B., Clement, J.L. and Brunck, F., An Insect Antifeedant Limonoid from Seed of *Khaya Ivorensis*, *Phytochemistry*, 1992, 31, 3003.
49. Connolly, J.D., McCrindle, R., Overton, K.H. and Warnock, W.D.C., Tetranortriterpenoids-VII [Bicyclononanolides-V] The Constitution and Stereochemistry of Swietenolide, *Tetrahedron*, 1968, 24, 1507.
50. Das, K.C., Basak, S.P., Chakaborty, D.P., Taxonomy XVI. 6-Hydroxymethyl Angolensate from *Swietenia mahogani*, *J. Indian. Chem. Soc.* 1969, 46, 273.
51. Furniss, B.S., Hannaford, A.J., Bogers, V., Smith, P.W.G. and Talchell, A.R., *Vogels Textbook of Practical Organic Chemistry*, 4th ed. England: Longman Group, 1978, 292.
52. Lemieu, R.U., Kullming, R.K. and Scheider, W.G., Configuration Effects on Proton Magnetic Resonance Spectra of Six-membered, *J. Am. Chem. Soc.*, 1958, 80, 6098.
53. The bioassay experiment was collaborated with Yonsei University, Korea.
54. Gorgj. N.B., Thakur, M.S., Plant Growth Promotor and Brit. UK. Pat. Appl. GB. 2, 144, 728, March, 1985, 13.
55. Ries, S.K., Regulation of Plant with Triaccontanol, *Neurotoxicology*, 1985, 6, 63. through C.A. 103:66636p.

56. Gisvold, O. and Rogers, C.H., *The Chemistry of Plant Constituents*,
Burgess Publishing Company, USA, 1 st ed., 1938, 53
57. Herr, M.E. and Heyl, F.W. Enamine, Derivatives of Steroidal Carbonyl
Compounds I, *J. Am. Chem. Soc.*, 1952, 74, 3627..
58. Chandler, R.F., Hooper, S.N. and Ismail, H.A., Antihyper-Chloesterolmic
Studies with Sterols, *J. Pharm. Sci.*, 1979, 68, 245.
59. Unplished result



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

VITA

Supara Pinjinda was born on February 21, 1973 in Bangkok, Thailand. She received Bachelor Degree of Science of Chemistry at Chulalongkorn University in 1994. Since 1994, she has been a graduate student studying Organic Chemistry in Chulalongkorn University. During the study towards the Master Degree's, she was awarded as a teaching assistance by Faculty of Science during 1994-1996, supported a research grant for this Master Degree's thesis from the Graduate School, Chulalongkorn University and supported a research grant from the Natural Products Research Unit, Chemistry Department, Chulalongkorn University.



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย