

[*Tetrahedron Lett.*, **42**, 5909-5912 (2001)]

[[Lab. of Pharmacognosy]

**A New Resveratrol Octamer, Vateriaphenol A, in *Vateria indica*.**

Tetsuro ITO, Toshiyuki TANAKA, Ken-ichi NAKAYA, Munekazu IINUMA,\* Yoshikazu TAKAHASHI, Hiroshi NAGANAWA, Masayoshi OHYAMA, Yuka NAKANISHI, Kenneth F. BASTOW and Kuo-Hsing LEE

A novel resveratrol octamer, vateriaphenol A, was isolated from stem bark of *Vateria indica* (Dipterocarpaceae). The structure and the relative configuration were confirmed on the basis of 1D and 2D NMR spectral data. Vateriaphenol A showed cytotoxicity against KB cells.

[*Tetrahedron*, **57**, 7309-7321 (2001)]

[[Lab. of Pharmacognosy]

**A Novel Bridged Stilbenoid Trimer and Four Highly Condensed Stilbenoid Oligomers in *Vatica rassak*.**

Tetsuro ITO, Toshiyuki TANAKA, Ken-ichi NAKAYA, Munekazu IINUMA,\* Yoshikazu TAKAHASHI, Hiroshi NAGANAWA, Masayoshi OHYAMA, Yuka NAKANISHI, Kenneth F. BASTOW and Kuo-Hsing LEE

Vaticanol G and vaticaside D isolated from stem bark of *Vatica rassak* (Dipterocarpaceae) were the first instance of stilbenoid trimers with an unusual tribenzobicyclo[3.3.2]decatiene system. Vaticanols D and H-J were elucidated to be a stilbenoid hexamer of heptamer containing a structurally identical trimeric unit. Their structures and the relative configurations were established on the basis of 2D NMR spectroscopy. The hexamers and heptamer showed cytotoxicity against KB cells.

[*J. Health Sci.*, **47**, 473-477 (2001)]

[[Lab. of Pharmacognosy]

**Inhibitory Effect of Plant Extracts on Production of Verotoxin  
by Enterohemorrhagic *Escherichia coli* 0157:H7.**

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The inhibitory effect of the several plant extracts on the production of verotoxin by enterohemorrhagic *Escherichia coli* 0-157:H7 (EHEC) was investigated. The extracts from four plant species, *Limonium californicum*, *Cupressus lustianica*, *Salvia urica* and *Jussiaea peruviana* were effective on the inhibition for verotoxin production. The inhibition against verotoxin production was observed at a concentration lower than the minimal inhibitory concentration (MIC) of each extract of test plants, indicating that these plant extracts would preferentially prevent the production of verotoxin rather than bacterial effect on EHEC. These findings suggest that the administration of any appropriate plant extracts might prevent the production of verotoxin on EHEC in the human intestines.

[*Heterocycles*, **55**, 557-567 (2001)]

[[Lab. of Pharmacognosy]

**Five New Oligostilbenes with One or Two Dihydrofurans from the Stem Bark of *Vatica rassak*.**

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From the stem bark of *Vatica rassak*, five new stilbenoids (vaticanols E, F and vaticasides A-C) were isolated. The structures including the relative configuration were established on the basis of spectroscopic analysis.