

[Phytochemistry, 37, 889-891 (1994)]

[Lab. of Pharmacognosy]

**Anti-Oral Microbial Activity of Isoflavonoids in Root Bark of  
*Ormosia monosperma*.**

MUNEKAZU INUMA\*, YASUTOSHI OHKAWA, TOSHIYUKI TANAKA, FENG-CHI HO,  
YAKUKO KOBAYASHI, KENICHI MIYAUCHI

From the root bark of *Ormosia monosperma*, 10 isoflavonoids including two new compounds 7,4'-dihydroxy-6",6"-dimethylpyrano-(2",3":5,6)-8-(3-methyl-1,3-butadienyl) isoflavone, named ormosidin and dalbergion 4'-O-glucoside, were isolated. These structures were confirmed by spectroscopic analysis. 2,3-dihydroauriculatin, one of the compounds isolated, showed moderate activities against oral-microbial organisms (*Streptococcus mutans*, *Propyromonas gingivaris* and *Actinomyces actinomycetemcomitans*).

[Phytochemistry, 37, 1157-1159 (1994)]

[Lab. of Pharmacognosy]

**A Flavonostilbene and Two stilbene Oligomers in Roots of *Sophora  
leachiana*.**

MUNEKAZU INUMA\*, MASAYASHI OHYAMA, TOSHIYUKI TANAKA, FRANK A. LANG

In previous papers, we have reported on the phenolic constituents in the roots of *Sophora leachiana*. Among the structures of flavonostilbenes such as sophoraflavanones C and H, and leachianone C were discussed. Furthermore in this paper, a new flavonostilbene, leachianone I, was isolated from the root of *S. leachiana* in addition to two known stilbene oligomer [(−) ε-viniferin and hopeaphenol]. The structure of leachianone I was elucidated by spectroscopic analysis to be a (2S)-5,7,2',4'-tetrahydroxyflavanone condensed with resveratrol through the B ring, and with an (E)-3-hydroxymethyl-2-butenyl group at C-8 as a side chain.

[Phytochemistry, 37, 1153-1155 (1994)]

[Lab. of Pharmacognosy]

**Three New Cinnamylphenols in Heartwood of *Erythrina crista-galli*.**

MUNEKAZU INUMA\*, YASUTOSHI OHKAWA, TOSHIYUKI TANAKA

Three new cinnamylphenols, ercristanols A, B and C *E*-1-[2-hydroxy-5"-hydroxyisopropyl-dihydrofurano (2",3":4,5) benzyl]-2-phenylethylene, *E*-1-[2,4-dihydroxy-3-(2"-hydroxy-3"-methylbut-3"-enyl)benzyl]-2-phenylethylene, and *E*-1-[2,5"-dihydroxy-6",6"-dimethyl-dihydropyrano (2",3":4,5) benzyl]-2-phenylethylene, respectively were isolated from the heartwood of *Erythrina crista-galli* in addition to a known cognate, eryvarietyrene. Their structures were determined by spectroscopic methods.