

[Phytochemistry, 42, 1195-1198 (1996)]

[Lab. of Pharmacognosy]

**Two Xanthenes from Roots of *Cratoxylum formosanum*.**MUNEKAZU IINUMA\*, HIDEKI TOSA, TETSURO ITO, TOSHIYUKI TANAKA,  
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The genus has about six species which are distributed mainly in Southeast Asia. Some species have been used as traditional medicines. From the root of *C. formosanum*, two new xanthenes were isolated in addition to seven known xanthenes and two flavonoids. Among the xanthenes 1,4,7-trihydroxyxanthone was the first isolation from the natural sources.

[Heterocycles, 43, 1521-1527 (1996)]

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**Occurrence of Xantholignoids in Guttifereous Plants.**MUNEKAZU IINUMA\*, HIDEKI TOSA, TOSHIYUKI TANAKA, TETSURO ITO,  
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Further investigation of the chemical constituents of the Guttifereous plants (*Calophyllum inophyllum*, *C. austroindicum* and *Harungana madagascariensis*) led to isolated two new xantholignoids, named calophyllumins A and B, in addition to two known xantholignoids (cadensin C and 6-hydroxycadensin F) and four flavonoids. The structures of these compounds were established by the aids of spectroscopic analysis including 2D NMR technique.

[Tetrahedron Lett., 37, 5155-5158 (1996)]

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**Davidiol D, First Naturally Occurring Resveratrol Pentamer Isolated from *Sophora davidii*.**MASAYOSHI OHYAMA, MICHIE ICHISE, TOSHIYUKI TANAKA, MUNEKAZU IINUMA\*,  
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From the chemosystematic point of view, we have clarified the close relationship between the morphological classification of the genus *Sophora* and the occurrence of flavonoids and stilbenoids, which suggested that stilbene oligomers were abundant in the section Pseudosophora and section Sophora. Further investigation on the roots of *S. davidii* which was classified into section Pseudosophora, resulted in the isolation of a resveratrol pentamer named davidiol D as first instance of a naturally occurring compound.