[Phytochemistry, **39**, 943-944 (1995)]

[Lab. of Pharmacognosy]

A Xanthone from Pericarps of Garcinia mangostana.

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The chemical constituents of *Garcinia subelliptica* and *Calophyllum inopyllum* were dealt with in our previous papers. In continuation of our study oriented to search for xanthone derivatives with bioactive potency in guttiferous plants, we examined the chemical constituents in pericarps of *G. mangostana*. A new geranylated xanthone, mangostinone was isolated from benzene extract of *G. mangostana*. The structure was confirmed to 2-geranyl-1,3,5-trihydroxyxanthone by means of spectroscopic analysis.

[Phytochemistry, **39**, 945-947 (1995)]

[Lab. of Pharmacognosy]

Two Xanthones with a 1,1-Dimethylallyl Group in Root Bark of Garcinia subelliptica.

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Guttiferous plants are known to be an abundant source of xanthones. In previous papers, we elucidated the structures of some new xanthone derivatives from *Garcinia subelliptica* and *Calophyllum inophyllum*. In a further search for biologically active compounds in guttiferaus plants, two new preylated xanthones, subelliptenones H and I, were isolatted from the root bark of *G. subelliptica*. The structures were determined by NMR spectroscopy and chemical transformation. The both had a 1,1-dimethylallyl group and a isoprenyl group cyclize with the O-function.

[Phytochemistry, 40, 267-270 (1995)]

[Lab. of Pharmacognosy]

Two Prenylated Anthrones in Harungana madagascariensis.

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Two new anthrones were isolated from *Harungana madagascariensis* in addition to a known anthrone, two xanthones, four anthraquinones and two flavonooid. The structures of the two anthorones were determined to be 1,3,8-trihydroxy-4,5-diisoprenyl-7-methylanthrone (harunganol A) and 1,3,8-trihydroxy-4,5,7-triisoprenyl-7-methylanthrone (harunganol B) by spectroscopic analysis. The other anthorone, 1,8-dihydroxy-2-isoprenyl-3-methoxy-6-methylanthorone which has been once derived from natural product, and one xanthone, 1,5,6-trihydroxy-7-methoxyxanthone which has been synthesized earlier were isolated for the first time as genuine natural product.