[Phytochemistry, 37, 1713-1716 (1994)]

[Lab. of Pharmacognosy]

## Three isoflavanones from roots of Sophora prostrata.

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In our study of the chemosystematics of the genus Sophora, we have already reported on the occurence of flavonoid compounds in some Sophora species. In this paper, we described the isolation and structure determination of three new isoflavanones from an acetone extract of the roots of S. prostrata, a deciduous shrub native in New Zealand. According to the systematics of Sophora classified by Tsoong and Ma, S. prostrata is included in the subgenus Sophora; section Sophora and series. Tetrapterae.

[Heterocycles, 37, 833-838 (1994)]

[Lab. of Pharmacognosy]

Two New Xanthones in the Underground Part of Calophyllum inophyllum.

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In our previous paper, the structures of new xanthones named caloxanthones A and B in the root bark of *Calophyllum inophyllum* were described. In continuation of our study oriented to search for xanthone derivatives with bioactive potency in Guttiferaeous plant, a new xanthone named caloxanthone C and 4-hydroxyxanthone, and from the heartwood of root, a new xanthone 1-hydroxy-2-methoxyxanthone in addition to three known xanthones [1,2-dimethoxy-, 2-hydroxy-1-methoxy-], and 6-deoxyjacareubin were isolated. These structure were characterized by means of spectroscopic analysis.

[Heterocycles, **39**, 687-692 (1994)]

[Lab. of Phrmacognosy]

Phenolic Compounds in *Erythrin* x *bidwillii* and Their Activity against Oral Microbial Oraganisms.

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The bioasay-directed fractionation of an acetone extract of the root bark of *Erythrina* x bidwilli which show a significant antibacterial activity against oral bacteria led to isolated three new phenolic compounds (bidwillols A and B, and bidwillon C) and a known pterocarpane (erycristagallin), the structures of which were characterized by spectral and physical properties. Among, them, erycristagallin showed potent microbial activity against *Streptococcus mutans*, *Porphyromonas gingivalis* and *Actinobacillus actinomycetemcomitans*.