[Phytochemistry, **36**, 255-256 (1994)]

[Lab. of Pharmacognosy]

A prenylatted Flavanone from Roots of *Maackia amurensis* subsp. buergeri.

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Maackia amurensis subsp. buergeri (Leguminosae) is a deciduous tree widely distributed in Eastern Asia. A prenylated flavanone was isolated from the roots of the plant in addition to seven known compounds, daidzein, formononetin, ononin, maackiain, trifolirhizin, isomedicarpin 9-O-glucoside and 5-hydoxysophoranone. The structure of the new flavanone was characterized a 8,5'-diisoprenyl-5,2',4'-trihydroxy-7-methoxyflavanone (maackiaflavanone).

[Phytochemisry, 36, 393-398 (1994)]

[Lab. of Pharmacognosy]

2,3-Secogermacranolides and Germacranolides from *Pyrethrum* santolionoides.

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Previous study on the chemical constituents of *Pyrithrum sanntolionoides* (Compositae) led to the isolation of hydroridentin, erivanin, heliangolides and some germacranolides from the aerial parts and various compounds including malabaricane-triterpene derivative from the root. Reinvestigation of the chemical constituents of the aerial parts of *P. santolionoides* gave six new sesquiterpene lactones (two 2,3-secogarmacranolids and four germacranolides) in addition to eight known compounds. These structure were determined by spectroscopic analysis.

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[Lab. of Pharmacognosy]

Flavonoids in Fornd Exudated of Pityrogramma tartarea.

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From the frond exudateed of *Pityrogramma tartarea*, a new dihydrochalcone, 2,6'-dihydroxy-3,4,4'-trimethoxydihydrochalcone, and five complex flavonoids (D-2, D-2/a, calomelanols, D, F and H) were isolated in additon to three known chalcones, three dihydrochalcone and three flvanones. Naturaly occurring compounds which are assumed to be transformed from secondary metabolities in vitro by physical factors as found in exudated of species, such *Pityrogrammaa*, *Pentagramma*, *Primula* etc., are defined as tertialy metabolities.