[Chem. Pharm. Bull., **43**, 2253-2255 (1995)] [Lab. of Pharmacognosy]

Clerodane diterpenoids from *Ajuga decumbens*.

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A new *neo*-clerodane diterpene, ajuagcumbin G, was isolated from *Ajuga decumbens* (Labiatae), and the structure was characterized as 6 α -acetoxy-4 α ,17-epoxy-18-(3'-hydroxy-2'-methylenebutyrloy)- *neo*-cleroda-13-ene-15,16-olide by ^{1}H and ^{13}C NMR spectral study and by comparison with the konwn compounds with halogen acid, HX (X= Cl, Br and I) and with Jones reagent were prepared to supply some samples with different substituents at C-4 for insect antifeedant examinations.

[Bio. Syst. Ecol., **23**, 539-545 (1995)] [Lab. of Pharmacognosy]

Chemotaxonoic Approach to the Genus *Euchresta* Based on Prenyl-flavonoids and Prenylisoflavones in Roots of *Euchresta formosana*.

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The distribution of prenylflavonoid compound in the genus *Euchresta* was surveyed and the chemotaxonomic vallue of there compounds assessed. A new prenyl flavanone, euchrenone a_{10}, the separation of which has been unsuccessful up to now, was isolated from the roots of *Euchresta formosana* (Leguminosae) in addion to two known flavanones lupinifolin and sophoranochrome). By means of spectroscopic analysis, the structure of eucrenone a_{10} was determined. Among known flavanones, sophoranochromene in unusual in having two C5-unit on the B -ring. Compounds di-prenylated on the B-ring such as sophoranochromene have been isolated from the genus *Euchresta* for the first time, and the chemotaxonomic value of this is evaluated.

[Tetrahedron Tett., **36**, 8985-8986 (1995)] [Lab. of Pharmacognosy]

Xanthienopyran, A Novel Thienocyclopentapyran in Fruitsef *Xanthium pungens*.

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In previous paper, we characterized the structures of some sesquiterpenes in aerial parts of *Xanthium pungens* (Compositae). In continuation of our phytochemical research of Egyptian Compositaeous plant, we report here the isolation and structural elucidation of a novel sulfur-containing compound, anthienopyran in the fruits of *X. pungens*.The sturcture of xanthinopyran was determined to 5-hydroxy-8-(6-hydroxy-1*E*,3*E*-hexadienyl)-2-methylthieno[3',2':4,5]cyclopenta-[1,2-*c*]pyrran-6(8H)-one.