report herein the isolation and structure elucidation of two new diarylhptanoids and the anti-HIV-1 integrase activity of the C. cordata isolates.

[PD2-26] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

New polyacetylenes from Gymnaster Koraiensis

Park JY°, Jung HJ, Ren-Bo An, Kim YK, Na MK, Chu BY, Kim YH, Bae KH

College of Phamarcy, Chungnam National University, Taejon 305-746, Korea

Gymnaster Koraiensis (Nakai) Kitamura (Compositae) is an endemic species in Korea. The root was extracted with 80% ethanol, then the ethanolic extract was fractionated with dichloromethane and n-butanol. Two new polyacetylenes were isolated from the butanolic fraction with the repeated chromatography on silica gel and preparative HPLC. On the basis of ^{1}H-NMR, ^{13}C-NMR, ^{1}H-^{1}H COSY, HMQC, HMBC and high resolution FAB-MS spectral data, their structures were established as 2(E)-decene-4,6-diyne-8,10-diol-10-β-D-glucopyranoside, 2(E)-decene-4,6-diyne-8,10-diol-10-β-D-apinofuranosyl-(1"-6')-β-D-glucopyranoside.

[PD2-27] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

Isolation of Phytolipids from the Stem Bark of Magnolia sieboldii

Park HJ°, Kwon SH and Lee KT*

Division of Applied Plant Sciences, Sangji University, *College of Pharmacy, Kyung-Hee University

We have reported bioactive costunolide with both differentiation- and apoptosis-inducing activity and nitric oxide synthase inhibitory activity, and isolated a new and six known compounds from the stem bark of Magnolia sieboldii (Magnoliaceae). In a course of obtaining more amount of costunolide, a new monoterpene (1) named deoxygeraniol (1,3-dimethyl-2,6-octadiene) was isolated along with beta-sitosterol 3-O-linoleate (2), 1,2,3-tri-O-linoleoylglycerol (3) and high amount of costunolide (4) in the pure state, respectively. The structure of 1 was determined on the basis of 1H-, 13C-NMR and mass spectra. We are under investigation to reveal whether 1 is an artifact- or a natural form.

[PD2-28] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

Effects of jasmonates on production of volatile components in cultured cells of Isodon japonicus.

Seung-Won Shin°, You-Sun Kim and Chan-Ah Kang

College of Pharmacy, Duksung Women's University

The composition of essential oils produced in cultured cells in Isodon japonicus which is one of the important Korean aromatic plant sources, were changed by treatment of methyl jasmonate and jasmonic acid.

To develop systems for economic production of useful essential oil compounds, callus was induced form the seedlings of this plant and cultured on MS medium. Methyl jasmonate(10-100