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*Dendranthema zawadskii* grows wild in all areas of Korea. Its herb and flower have been used as folk medicine for a long time in Korea. Its usages are related to woman's disease, stomach disease, and appetite-induced drug.

The following monoterpene have been found:

(1R)-alpha-pinene, 1-methyl-3-(1-methylethyl)benzene, trans-1-methyl-4-(1-methylethyl)-2-cyclohexene, 2-methyl-5-(1-methylethyl)-(1-alpha,2-alpha,5-alpha)-bicyclo[3,1,0]hex-3-en-2-ol, 1-methyl-4-(1-methylethenyl)benzene, o-isopropentyltoluene.

The following sesquiterpene have been found:

(1-alpha,4a-alpha,8a-alpha)-1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)naphthalene, (1S-cis)-1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethylidene)azulene.

[PD3-4] [ 10/19/2000 (Thr) 15:00 - 16:00 / [Hall B] ]

### Pharmacognostic Studies on Genus *Gentiana* Plants

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Various species of *Gentianaceae* have been esteemed as restoratives, febrifuges and improvers of the appetite and are recommended in old herbals; the leaves and roots were used medicinally in Korea and China. In this studies, we used 4 kinds of species, such as *Gentiana sutchuenensis*, *Gentiana zollingeri*, *Gentiana squarrosa* and *Gentiana thunbergii* for the anatomical analysis from roots, stems and epidermis. >From that studies, it was proved that all mentioned above are originated from *Gentiana sutchuenensis*. And also we purified from the *Gentiana sutchuenensis* 3-nitro-1,2-benedicarboxylic acid di(2-ethylhexyl)adipeate as essential oils.

[PD3-5] [ 10/19/2000 (Thr) 15:00 - 16:00 / [Hall B] ]

### Coumarin Glycosides from Seeds of *Fraxinus sieboldiana* var. *serrata*

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*Fraxinus sieboldiana* var. *serrata* is distributed in Korea, and the roots and seeds of this species are used as gout, myalgia and rheumatism. The dried seeds of *Fraxinus sieboldiana* var. *serrata* were extracted with hot methanol repeatedly to give an extract (50.6 g), which was chromatographed on silica gel with CHCl<sub>3</sub>-MeOH-H<sub>2</sub>O and sephadex LH-20 (MeOH). They were identified as 3β-hydroxy-urs-12-en-28-oic acid, fraxin (formula, C<sub>16</sub>H<sub>18</sub>O<sub>6</sub>, mp. 204-205°C) and aesculin (formula, C<sub>15</sub>H<sub>16</sub>O<sub>6</sub>, mp. 193°C).

[PD3-6] [ 10/19/2000 (Thr) 15:00 - 16:00 / [Hall B] ]