

Compound 1 is β -sitosterol-3-*O*- β -D-glucopyranoside. Compound 2 (C₄₄H₈₇O₆N) is ceramide (N-acylated phytosphingosine, aglycon of cerebroside). Compound 3 (C₄₄H₈₆O₇) is the long chain ester which has five hydroxy groups and a double bond. Compound 1 showed 99.9 % cytotoxicity for HT-29 cell line at the concentration of 50 μ g/mL. IC₅₀ of compounds 2 and 3 were obtained at 40.3 and 33.9 μ g/mL for HT-29 cell line, respectively.

[PD2-7] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]

Additional Sesquiterpene Lactones from *Ixeris sonchifolia*

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In our previous study, the leaves of *Ixeris sonchifolia* afforded two new and two known guaiane type sesquiterpene lactones by activity-guided fractionation. Now we report additional isolation of sesquiterpene lactones from the roots of *Ixeris sonchifolia*. They are glucozaluzanin C and ixerin H. Ixerin H is germacranolide type sesquiterpene glucoside. Their structures were determined by 1D and 2D NMR spectroscopy.

[PD2-8] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]

Biological Activities and Constituents of the Semen of *Rumex crispus*

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Rumex crispus (Polygonaceae) is a well known perennial plant, which is called So-Ri-Jaeng-Yi, growing in the field and on the roadside. It has been used as a Korean Folk medicine in treating of acute and chronic cutaneous disease, cathartics, fever and jaundice. Also, the seed of this plant has been used as only a folk medicine for the treatment of digestion problems, liver diseases and many sorts of tumor. So we examined analgesic activity, anti-inflammatory activities and hepatoprotective activity using MeOH extraction and BuOH fraction in this plant. From a butanol fraction of semen of this plant, compounds I, II and III were isolated and the structures were elucidated by spectroscopic analysis. These compounds were identified as a mixture of β -sitosterol glycoside, methyl(25R5)-3- β -hydroxy-5-cholesten-26-oate, and stigma-5-en-3-ol

[PD2-9] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]

A new 4-hydroxy-dodec-2*E*-enedioic acid from the stem bark of *Albizia julibrissin*

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Albizia julibrissin Durazz (Leguminosae) is a small domed to flat-topped, spreading tree with smooth, gray-brown bark and doubly pinnate leaves. It grows abundantly in Korea. The dried stem bark of *A. julibrissin* is used as a tonic in China, Japan and Korea. From the stem bark of *A. julibrissin*, a new unsaturated hydroxy fatty acid was isolated and characterized as 4-hydroxy-dodec-2*E*-enedioic acid on the basis of several data including 2D-NMR. The stereostructure of double bond was determined to be 2*E* by coupling patterns of related proton signals in the ¹H-NMR and COSY experiments.

[PD2-10] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]