However, they exhibited minor or even no cross-reactivities with PPD (0.11%) and other ginsenosides tested (G-Re: 0.85%; G-Rg $_1$: 0.51%; G-Rb $_1$: <0.01%; IH-901: 0.03%). The ELISA was compared with HPLC; there was a good correlation (r=0.959). Therefore, this ELISA method can be a very useful tool for measuring trace amounts of G-F $_1$.

[PD2-2] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

Three oligosaccharides from the roots of Rhododendron yedoense var. poukhanense

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The research about hair-growing agents has been a exciting subject since a long time ago. After the side effect, hirsuties, of minoxidil that was developed as depressant had been used treating the depilation, the studies of hair-growing agents have been taken an increasing interest. **Rhododendron yedoense** Max.** et Regel var. **poukhanense** Nakai (Ericaceae) is a deciduous and latifoliate shrub growing in Korea and Japan. The roots of this plant have been known to be effective as hair-growing agents in the traditional medicine. But the phytochemical studies as well as hair growth effect of this plant have never been reported. To inquire into the constituents of this plant, the roots were extracted with 95% MeOH and MeOH Ext. was subsequently fractionated into four parts; chloroform, ethylacetate, n-butanol and water fractions. Chromatographic separation of the n-butanol fraction has yielded three oligosaccharides. Their structures were elucidated by chemical and spectral evidences.

[PD2-3] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

Annoline, Gonionenin and Xylomaticin: A novel and two known bioactive mono – tetrahydrofuran acetogenins from Annona cherimolia seeds

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The large number of research works on acetogenins from the Annonaceae is due to their broad range of potential biological rules, for example, cytotoxic, antitumor, antiparasitic, pesticidal, antimicrobial, and immunosuppressive activities. Currently, their number is more than 350. *Annona cherimolia* (Annonaceae) is a tree native of tropical south America (Peru), now cultivated for its edible fruits ("cherimoya") in a small pseudo-tropical area in the south of Spain. Our previous works on the seeds extract resulted in the isolation of nine novel and seven known acetogenins. Through further fractionation work, directed by the brine shrimp lethality test (BST), we have now isolated a novel (annoline) and two known (gonionenin and xylomaticin) bioactive acetogenins. All of the compounds are acetogenins of annonacin type. Annoline and gonionenin have a mono-THF ring with two flanking hydroxyls and possesses a double bond in their molecules. The structure of gonionenin and xylomaticin were known but were newly isolated from this plant.

[PD2-4] [10/20/2000 (Fri) 11:30 - 12:30 / [Hall B]]

Pyrrole derivatives from Lycium chinense