

suggest that KML-C is a novel lectin related to cytotoxicity of Korean mistletoe, and its cytotoxic activity against tumor cells is due to apoptosis mediated by Ca²⁺/Mg²⁺-dependent endonucleases.

[PD2-21] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

A novel flavonol lyxoside of *Orostachys japonicus* herb

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A novel flavonol lyxoside was isolated from the aerial part of *Orostachys japonicus* (Crassulaceae). Its structure was determined as gossypetin 8-O- α -D-lyxopyranoside using several spectral data and chemical method. Lyxoside of flavonoid was isolated for the first time from the nature.

[PD2-22] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Isolation of biologically active principles from the fruits of *Acanthopanax sessiliflorum*

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In the course of the evaluation of biologically active principles from the fruits of *Acanthopanax sessiliflorum*, seven constituents were isolated from various fractions by repeated column chromatography. Their chemical structures were elucidated as a mixture of β -sitosterol and stigmasterol(1), 6,7-dimethoxycoumarin(2), sesamin(3), hyperin(4), 3,5-dihydroxybenzoic acid(5), 3-hydroxy-12-ursen-28-oic acid(6) and inositol(7) on the basis of physico-chemical and spectral analysis. Among them, compound 2, 4, 5, 7 are first isolated from this plant part.

[PD2-23] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Cytotoxic Polyacetylenes from the Marine Sponge *Petrosia* sp.

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Five new polyacetylenic alcohols (1-5) have been isolated as cytotoxic principles from the marine sponge *Petrosia* sp. These long chain polyacetylenic alcohols were composed of 46-48 carbons. Their structures have been established using combined spectroscopic and mass spectrometric methods and the absolute configuration was determined by the modified Mosher's method. These polyacetylenes have been tested for the cytotoxicity against a number of human cancer cell lines and DNA replication inhibitory effect. The isolation, structure elucidation, and biological activities will be presented.

[PD2-24] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Hepatoprotective effect of emodin isolated from *Rhei Rhizoma*