

To clarify the botanical origin of "Ha Go Cho", the anatomical characteristics of *Prunella vulgaris* L. var. *lilacina* Nakai and *Thesium chinese* Turcz. were studied. As a result, it was clarified that "Ha Go Cho" from Korea was the herba of spica of *Prunella vulgaris* var. *lilacina*, and some was the herba of *Thesium chinese*.

[PD2-50] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Dibenzylbutyrolactone lignans from *Torreya nucifera* Protect Cultured Rat Cortical Neurons from Glutamate-Induced Excitotoxicity

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In the course of our search for neuroprotective compounds against glutamate-induced toxicity from natural sources, a methanolic extract from the barks of *Torreya nucifera* (Taxaceae) exhibited significant neuroprotectivity.

Activity-guided fractionation and further separation using several chromatographic techniques resulted in the isolation of three dibenzylbutyrolactone lignans. By several spectroscopic methods, the structures of isolated lignans were identified to 2-4"-hydroxy-3"-methoxybenzyl-3-3',4'-dimethoxybenzylbutyrolactone (arctigenin), 2-4"-hydroxy-3"-methoxybenzyl-3-3',4',5'-trimethoxybenzylbutyrolactone (traxillagenin) and 2-4"-hydroxy-3"-methoxybenzyl-3-4'-hydroxy-3',5'-dimethoxybenzyl butyrolactone, respectively.

These lignans had significant neuroprotective activity at concentrations ranging from 0.1 μ M to 10.0 μ M on glutamate-induced excitotoxicity in primary cultures of rat cortical cells.

[PD2-51] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Phenolic Compounds of *Phyllanthus ussuriensis*

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The herbaceous species of subgenus *Phyllanthus* are the most widely used medicinal plants in this genus.

For the phytochemical studies *Phyllanthus ussuriensis* (Euphorbiaceae) has been reported on anti hepatitis viral effect.

From the aqueous fraction of methanolic extract, one flavonoid(quercetin-3-O-rutinoside), two phenolic acid(gallic acid, methyl gallate), and two ellagitannin(corilarin, geraniin) were isolated through fractionation and repeated column chromatography using XAD-4, ODS gel, sephadex LH-20.

The structures of these compounds were determined on the basis of IR, FAB-Mass, EI-Mass, ¹H-NMR and ¹³C-NMR spectral data.

[PD2-52] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Leucomentin-5 and -6, Two New Leucomentin derivatives from *Paxillus panuoides*

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