

The Node of the lotus rhizome (*Nelumbo nucifera*, Nymphaeaceae) have been used as a traditional medicine for the remedy of hemorrhage, blood stagnancy and thirstiness. To investigate anti-diabetic drug from traditional medicine, the constituents of *Nelumbo nucifera* (Nymphaeaceae) were studied phytochemically. One alkaloid and three phenolic compounds were isolated from the methanol extract of the rhizome from *N. nucifera*. The structures of these compounds were identified as 1H-Indole-3-propionamide, (+)-catechin, (-)-epicatechin and (+)-gallocatechin by the analysis of spectroscopic evidences and comparison with the data of authentic samples.

[PD2-18] [ 10/20/2000 (Fri) 11:30 - 12:30 / [Hall B] ]

### **Anthocyanins from Black soybean, *Glycine max* L. cv. Geomjeongkong 1.**

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Three anthocyanins were isolated from the acidified ethanol extracts of black soybeans (*Glycine max* L. cv. Geomjeongkong 1) using solid phase extraction and preparative high-performance liquid chromatography. The anthocyanins were characterized using chromatographic and spectroscopic methods as delphinidin 3-glucoside, cyanidin 3-glucoside, and petunidin 3-glucoside.

[PD2-19] [ 10/20/2000 (Fri) 11:30 - 12:30 / [Hall B] ]

### **Phytochemical constituents from *Dendropanax morbifera***

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A number of members of the Araliaceae have been utilized in traditional medicine, especially in *Panax* and *Acanthopanax*. As part of our research efforts in Araliaceae family for biological activity and potential medicinal utility, we found that the crude extract of *Dendropanax morbifera* showed considerable antioxidant and cytotoxic activity. In order to find the active compounds from this plant, we undertook the phytochemical studies with the stem part of *D. morbifera*. The MeOH extract of the stem part of *D. morbifera* was extracted with hexane, ethylacetate, buthanol and water successively. Two polyacetylene compounds (Comp.1. and Comp.2.) were isolated from ethylacetate fraction and one triterpenoid (Comp.3.) from hexane fraction. Additional four lignan compounds (Comp.4 ~ Comp.6) were isolated from ethylacetate and buthanol fraction by repeated silica gel column chromatography and preparative HPLC. Their structures were elucidated by the physicochemical and spectral data such as UV, IR, NMR and MS.



사진 출처: 한국자연정보연구원

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

### **Coumarins Isolated from *Angelica gigas* Inhibit Acetylcholinesterase: Structure - Activity Relationships**

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