Alismatis Rhizoma is originated from the rhizome of *Alisma plantago-aquatica* L. var. orientale Samuelson or *A. canaliculatum* A. Br. et Bouche (Alismataceae). Prostanoids, triterpenes, guaiane-type sesquiterpenes, and kauren-type diterpenes have been reported as the main constituents from these plants. Four prostanoids, triterpenes, alisol B 23-acetate (1), alisol C 23-acetate (2), alisol B (3), and alisol A 24-acetate (4), were isolated from the ETOAc-soluble fraction of this dried rhizome. The structures of compounds were identified by comparison their chemical and spectral data with those reported previously. As anti-complement activity of triterpenes isolated from Alismatis Rhizoma, alisol B (3) and alisol A 24-acetate (4) showed inhibitory activity against classical pathway complement system with 50% inhibitory concentrations (IC50) values of 70.8 and 67.0 μg/ml, respectively. Whereas, alisol B 23-acetate (1) and alisol C 23-acetate (2) were inactive against anti-complement activity system. This result suggested that a hydroxyl group at C-23 of the prostanoid-type triterpenes was a chromophore shown the anti-complement activity.

![PD2-22] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]

**Phenolic Compounds from Barks of Pinus densiflora siebold et Zuccarini and Their NO Production Inhibitory Activities.**

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The barks of Pinus densiflora representative Pinus species grows in Korea, have been used for oriental traditional medicine as the remedies for rheumatitis, hemorrhage and cancer. Water soluble fraction of 50% acetone extracts from the barks of Pinus densiflora (PDB) showed nitrogen monoxide(NO) production inhibitory activity in IFN-γ LPS stimulated RAW 264.7 cell. We also isolated some phenolic compounds from water soluble fraction of PDB and deteminated nitrogen monoxide(NO) production inhibitory activity. These results suggest that barks of Pinus densiflora might be developed as a anti-inflammatory agent.

![PD2-23] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]

**Phytochemical Constituents of Siegesbeckia pubesence Makino**

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*Siegesbeckia pubesence* (Compositae), a perennial herb, is widely distributed in our country and has been used for rheumaic arthritis, hypertension, malaria, neurastenia and snake-bite in traditional Chinese medicine1). On reviewing the literatures of this plant, diterpenoids and alkaloids were isolated and some pharmacological activities were investigated2),3). As part of our systematic study for Korean Compositae plants, we have investigated Siegesbeckia pubesence (7kg), collected from Mt. Odae on Aug. 2001. The aerial parts of this plant were extracted with MeOH three times at room temperature. The extracts (362g) were fractionated with n-hexane, chloroform and butanol. The repeated column chromatographic separation of the chloroform and butanol fractions resulted in the isolation of five diterpenes. Their structures were established on the basis of spectroscopic data and their biological effects are in the progress. In this poster, we demonstrate the isolation and the structure determination of the compounds from *Siegesbeckia pubesence*

1) Kim, J.H., Han, K.D., Yamajaki, K., Tanaka, O., *Phytochemistry*, 18, 894-895

![PD2-24] [10/17/2002 (Thr) 09:30 - 12:30 / Hall C]