

In the course of search for hepatoprotective constituents from medicinal plants, each methanol extract of *Hedyotis diffusa* Willd. and *Gardenia jasminoides* J. Ellis. showed significant hepatoprotective activity using the carbon tetrachloride (CCl<sub>4</sub>) or galactosamine (GalN)-injured primary cultures of rat hepatocytes as screening systems. Six phenylpropanoids from *Hedyotis diffusa* and seven phenyl propanoids including three novel lignans from *Gardenia jasminoides* were isolated as hepatoprotective components by the repetitive column chromatography on silica gel, Sephadex LH 20, MCI and HP 20 gel and further purification using HPLC.

[PD2-42] [ 10/19/2001 (Fri) 14:00 - 17:00 / Hall D ]

### **Torilin from *Torilis japonica*, as a new class inhibitor of testosterone-5 $\alpha$ -reductase**

Park Won Seok<sup>0</sup>, Son Eui Dong<sup>1</sup>, Nam Gae Won<sup>1</sup>, Kim Soo Hyun<sup>1</sup>, Noh Min Soo<sup>1</sup>, Lee Byeong Gon<sup>1</sup>, Chang Ih Seop<sup>1</sup>, Kim Se Eun<sup>2</sup>, Lee Jung Joon<sup>2</sup>, Lee Chang Hoon<sup>1</sup>

1. Skin Research Team, Skin Research Institute, Pacific R&D Center, 2. Natural Product Biosynthesis RU., Korea Research Institute of Bioscience and Biotechnology

The methanolic extract of *Torilis japonica* showed potent 5 $\alpha$ -reductase inhibitory activity in vitro. Bioactivity-guided fractionation of the methanolic extract of the fruits followed by repeated silica gel chromatography led to the isolation of active principle and the structure was identified as torilin with spectroscopic data. IC<sub>50</sub> value of torilin was lower than that of finasteride.

[PD2-43] [ 10/19/2001 (Fri) 14:00 - 17:00 / Hall D ]

### **Screening of Mushrooms for antioxidative activity**

Son HyeJung<sup>0</sup>, Kim SeongEun, Jang HyunJin, Park WhanHee, Yang KiSook

College of Pharmacy, Sookmyung Women's University

This study was carried out to investigate the antioxidative activities of mushrooms for purpose of development of novel antioxidant from natural products. In order to search for antioxidants, MeOH extracts from about 40 kinds of mushrooms were investigated. The DPPH radical scavenging activity and lipid peroxidation inhibitory activity of each extracts were measured. *Inonotus gibba*, *Fomes fomentarius*, cultivated *Phellinus linteus* showed potent antioxidative effects.

[PD2-44] [ 10/19/2001 (Fri) 14:00 - 17:00 / Hall D ]

### **New Quinolone Alkaloid with Antioxidant Activity from the Aleurone Layer of Anthocyanin-Pigmented Rice**

Chung HaSook<sup>0</sup>, Woo WonSick

Duksung Women's University, Natural Products Research Institute, Seoul National University

The anthocyanin-pigmented rice (*Oryza sativa* cv. *Heugjinmi*) having dark purple-colored grains, is broadly known as an enriched rice for taste and health improvements. Cyanidin-3-O- $\beta$ -D-glucoside having oxygen radical absorbing capacity, is most abundant in anthocyanin-pigmented rice grain. As a part of our study on the bioactive components of the aleurone layer of pigmented rice grain, a new