

## Antitumor constituents from the sclerotium of *Poria cocos*

Li Gao<sup>o</sup>, Xu MingLu, Seo ChangSeob, Kim HyoJin, Lee YouJeong, Lee YeunKoung, Lee ChongSoon, Woo MiHee, Son JongKeun

College of Pharmacy, Yeungnam University; Institute of Natural Sciences, Yeungnam University; College of Science, Yeungnam University, Gyongsan 712-749, Korea and College of Pharmacy, Catholic University of Daegu, Gyongsan, 712-702, Korea

The bioactivity-guided fractionation of an active methylene chloride extract of the sclerotium of *Poria cocos* led to the isolation of compounds 1-5. These compounds were tested in the human colon carcinoma and human breast carcinoma cell lines, compounds 3, 4, and 5 exhibited IC<sub>50</sub> values of 10.8, 15.4, and 5.1 µg/ml against human colon carcinoma cell line. In addition, compounds 3, 4 and 5 showed moderate activities as inhibitors of Topoisomerase I and all compounds were inactive in the Topoisomerase II inhibition.

[PD2-7] [ 04/18/2003 (Fri) 13:30 - 16:30 / Hall P ]

### Preventive Agents against Sepsis and New Phenylpropanoid Glucosides from the Fruits of *Illicium verum*

Lee SungWon, Li Gao<sup>o</sup>, Lee KyongSun, Jung JunSub, Xu MingLu, Seo ChangSeob, Song DongKeun, Son JongKeun

College of Pharmacy, Yeungnam University; Institute of Natural Sciences, Yeungnam University, Gyongsan, 712-749, Korea; Department of Pharmacology, Hallym University College of medicine, Institute of Natural medicine, Chunchon, 200-702, Korea

Abstract: The bioassay-guided fractionation of preventive agents against lethality due to septic shock from the fruits of *Illicium verum* lead to the isolation of two known racemic mixtures of phenylpropanoids (1 and 2), along with two known phenylpropanoid glucosides (3 and 5) and two new phenylpropanoid glucosides (4 and 6). Their chemical structures were elucidated on the basis of spectroscopic studies. Among them, 1 exhibited the highest survival rate in dose-dependent manner (100 % with a dose of 10 mg/kg against 40 % for the control experiment) and showed reduction of plasma alanine aminotransferase (ALT) value on the in vivo assay model of septic shock induced by tumor necrosis factor (TNF)- $\alpha$ .

[PD2-8] [ 04/18/2003 (Fri) 13:30 - 16:30 / Hall P ]

### Lignans from fruits of *Schizandra chinensis*

Lee HakJu<sup>o</sup>, Seo SunMi, Lee MyungKoo, Choi DonHa, Paik KiHyon

Div. Wood Chemistry & Microbiology, Korea Forest Research Institute, Department of Forest Resources and Environmental Science, Korea University, College of Pharmacy, and Research Center for Bioresource and Health, Chungbuk National University.

*Schizandra chinensis* known as OMIJA belongs to Schizandraceae family, and is being used in the formulation of traditional medicine. Various column chromatographies with various solvent systems were used to isolate its compounds. To identify compounds isolated, instrumental analysis methods such as NMR and MS were employed.

From fruits of *Schizandra chinensis*, five lignans were isolated and identified as followed : Gomisin N (1), Wuweizisu C (2), Gomisin L1 (3), (+)-deoxyschizandrin (4) and Gomisin J (5).