trimethoxyphenyl)buta-1,3-diene (2), were isolated from the roots of Zingiber cassumunar Roxb. (Zingiberaceae), as active constituents by bioassay-guided fractionation using a cytotoxicity assay against the HT1080 (human fibrosarcoma) cells. The isolates 1 and 2 exhibited a significant cytotoxicity with IC_{50} values of 0.71 and 0.74μg/ml, respectively, which are comparative to the positive control ellipticine (IC_{50} = 1.1μg/ml). To the best of our knowledge, this is the first report on the cytotoxic activity for those compounds 1 and 2. The isolation and cytotoxic activity will be discussed in the presentation.

[PD2-21] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Saucerneol B with Hepatoprotective Effect of the Roots of Saururus chinensis

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In order to find the new hepatoprotective agents from natural products, the isolation and identification of biological active components of the roots of *Saururus chinensis* has been carried out. A MeOH extract of this plant showed the significant hepatoprotective effect on tacrine-induced cytotoxicity in Hep G2 cells. Five lignans including sauchinone, manassantin A, manassantin B, saucerneol B, and di-*O*-methyltetrahydrofuriguaiacin B were isolated and identified by spectroscopic evaluation. Of these saucerneol B exhibited the significant hepatoprotective effect *in vitro*. It showed a dose-dependent hepatoprotective effect.

[PD2-22] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Catechin with Hepatoprotective Effect of the Leaves of Juglans sinensis

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There is now increasing evidence that free radicals and active oxygen species are involved in a variety of pathological events. Free radical-mediated cell damage and free radical attack on polyunsaturated fatty acids result in the formation of lipid radicals. These lipid radicals react readily with molecular oxygen to produce peroxy radicals responsible for initiating lipid peroxidation. The peroxidation of cellular membrane lipid can lead to cell necrosis and considered to be implicated in a number of pathophysiological conditions including liver disease. A MeOH extract of the leaves of *Juglans sinensis* was examined for its scavenging effect on DPPH and hepatoprotective effects on tacrine-induced cytotoxicity in human hepatoma cell line, Hep G2 cells. Assay-guided fractionation has been furnished six phenolic compounds. Of these catechin showed the significant hepatoprotective effect *in vitro*. It showed a dose-dependent hepatoprotective effect *in vitro*.

[PD2-23] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Radical scavenging and tyrosinase inhibitory activities from the herbal drugs

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