

principles.

[PD2-44] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Antilipoperoxidant Activity of Astragali Radix on CCl₄-induced Hepatotoxicity

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The roots of *Astragalus membranaceus* Bunge (Leguminosae) have been used as an antiperspirant, diuretic, or tonics in the folk remedies.

Oxygen free radical injury and lipid peroxidation have been suggested as major causes of atherosclerosis cancer, liver disease, and the aging process.

In this study, we determined effect of CH₂Cl₂, EtoAc, and BuOH fractions of Astragali Radix on CCl₄-induced liver injured rats and measured liver homogenate MDA by TBARS assay and serum parameters.

The results showed that CH₂Cl₂, EtoAc fractions have antioxidative activity on lipidperoxidation.

[PD2-45] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

The effects on renal functions of Phellinus linteus

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Phellinus linteus(Polyporaceae) has been used as anti-tumor and immuno-stimulating agents in folk medicines.

In order to evaluate the effects on renal function of natural and cultivated P. linteus, we measured serum chemical parameter(BUN, creatinine, uric acid), urinary electrolyte(Na⁺, K⁺, Cl⁻) and urine volume in HgCl₂-intoxicated rats.

The results showed that MeOH Ex. of natural and cultivated P.linteus had significant diuretic effects and inhibited increase of BUN, creatinine, uric acid in renal failure rats.

[PD2-46] [04/21/2000 (Fri) 14:50 - 15:50 / [1st Fl, Bldg 3]]

Effects of the Leaves of Zanthoxylum piperitum on the Formation of Lipid Peroxide In Vivo and Their Phenolic Compounds

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The effects on the hepatic lipid peroxide in bromobenzene-induced rats and phytochemical study on the leaves of Zanthoxylum piperitum A.P. DC. (Rutaceae) were investigated. The level of lipid peroxide elevated by bromobenzene was significantly reduced by the methanol extract of Z. piperitum. The air-dried leaves of Z. piperitum were extracted with boiling methanol. The extract was then fractionated into dichloromethane, ethyl acetate, n-butanol and water fractions. Silica gel and