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The antioxidant activity of solvent extracts of leaves, trunk and root Pueraria Radix was determined by measuring the radical scavenging effect on 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical. Extacts prepared from root showed radical scavenging effect on DPPH radical. But, extracts prepared from leaves and trunk did not show activity. The ethyl acetate extract of Pueraria Radix root showed radical scavenging activity at an IC 50 value of 75.7 µg/ml.

[PD3-13] [ 2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function ]

Screening and Isolation of Antioxidant from Medicinal Plants
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On the purpose of development of antioxidative compound from natural sources, medicinal plants known to have antioxidant activity have been examined concerning DPPH radical scavenging activity and SOD-like activities. Among 8 plants exhibiting the activity, Houttuynia cordata THUNB was selected as resources to search for active compounds due to rareness of study. The antioxidative compounds from Houttuynia cordata THUNB, quercitrin was assayed using a DPPH free radical. The DPPH radical scavenging activity of quercitrin was similar to that of BHA and Ascorbic acid.

[PD3-14] [ 2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function ]

Hepatoprotective Effects of Saururus chinensis Baill against 2,3,7,8-tetrachlorodibenzop-dioxin (TCDD) Induced Toxicity
Lee Sang Hun, Kim Hee Jin, Lee Jin Young, Ha Bae Jin⁰
Hepatoprotective effects Saururus chinensis Baill on 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) induced toxicity

Saururus Chinensis Baill (Saururaceae) has been used as folk medicine for analgesics, beriberi, edema, hepatitis, and icterus, etc. Hepatoprotective effects of Saururus chinensis Baill (SCB) administration on function of the biochemical parameters in liver of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) treated rats were investigated. After 7 days from TCDD(1µg/kg) injection, SCB(200mg/kg) was administrated into rats intraperitoneally for 4 weeks. We examined the antioxidative enzymatic activity by measuring the level of AST and ALT in serum and SOD, Catalase, GPx, GSH and GSSG in liver tissue of rats. SCB and TCDD administered (STT) group showed 70.7% of inhibitory effect in AST activity compared to TCDD-treated abnormal (TTA) group. ALT level of STT group was decreased to the level of non treated group (NTT) group. SOD and Catalase in TTA group were lower than in NTT group, but SOD and Catalase in STT group were increased by 82% and 55.45% respectively compared to TTA group. While GSH contents in STT group were increased compared to TTA group by 74.20%, GSSG contents in STT group were decreased compared to TTA group by 61.08%. Our study suggests that SCB might be a potential scavenger of free radicals in the oxidative stress orgenated from TCDD-treated rats.

[PD3-15] [ 2003-10-11 09:00 - 12:30 / Grand Ballroom Pre-function ]

The Effects of Scutellaria baicalensis and Scutellaria baicalensis metabolite on Anxiety in the Elevated Plus-Maze in Rats
Jung Ji Wook⁰, Ahn Nam Yoon, Oh Hye Rim, Park Sung Hwan, Oh Jin Kyung, Lee Bo Kyung, Kim Dong Hyun, Ryu Jong Hoon