

Triterpenoids from the Leaves of *Gentiana sutchuenensis*

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Gentiana sutchuenensis has been used for the sore throat, hepatitis, dysentery, appendicitis, hematuria, and loss of appetite as medicinal plants in China. In this study, ether extracts were subsequently chromatographed on silica gel using the gradient elution of n-hexane-ethylacetate (=20:1→2:1) to give five fractions. Compound I was identified as 3β-hydroxy-12-ursen-28-ol (formula C₃₀H₅₀O₂, mp. 232°C), compound II was identified as 3β-hydroxy-olean-12-en-28-oic acid (formula C₃₀H₄₈O₃, mp. 310°C), and compound III was identified as 3β-hydroxy-urs-12-en-28-oic acid, which is a ursane triterpenoid (formula C₃₀H₄₈O₃, mp. 286–287°C).

[PD3-7] [10/19/2000 (Thr) 15:00 – 16:00 / [Hall B]]

Phellinus linteus as Ethano-medical preparation

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Phellinus linteus (polyporaceae) has been used as anti-cancer agent in Korea. We were studied to evaluate the anti-tumor and immunopotential effect of *Phellinus linteus* (PL) single and mixing administration with three anti-tumor agent in folk medicines (*Ulmus davidiana* var. *japonica*, *Cudrania tricuspidata*, and *Bupleurum pycnostachyum*). Oral administration to tumor bearing mice significantly prolonged survival rate compared to control group with the prolongation ratio of 2% to 9%. Nitrite production of Raw 264.7 cell was increased dose-dependently.

[PD3-8] [10/19/2000 (Thr) 15:00 – 16:00 / [Hall B]]

Inhibitory effect of immediate-type allergic reaction by *Prunella vulgaris*

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We studied the effect of aqueous extract of *Prunella vulgaris* (PVAE) on immediate-type allergic reactions. PVAE (0.005 to 1 g/kg) dose-dependently inhibited systemic anaphylactic shock by compound 48/80 in rats. When PVAE was given as pretreatment at concentrations ranging from 0.001 to 1 g/kg, the serum histamine levels induced by compound 48/80 were reduced in a dose-dependent manner. PVAE inhibited the passive cutaneous anaphylaxis activated by anti-dinitrophenyl (DNP) IgE. PVAE also inhibited the histamine release induced by compound 48/80 or anti-DNP IgE from the rat peritoneal mast cells (RPMC). The level of cyclic AMP in RPMC, when PVAE was added, significantly increased compared with that of normal control. Moreover, PVAE (0.001 to 0.1 mg/ml) had a significant inhibitory effect on anti-DNP IgE-induced tumor necrosis