

Three pseudoguaianolide type sesquiterpenes, bigelovin, 2,3-dihydroaromaticin, and ergolide were isolated as inhibitory constituents against inducible nitric oxide synthase (iNOS) from the flowers of *Inula britannica*. Bigelovin exhibited a highly potent inhibitory activity on iNOS in murine macrophage RAW 264.7 cells with an IC₅₀ value of 0.14 µg/ml, which is about 4 times more potent than the known selective inhibitors of iNOS, L-N⁶-(1-liminoethyl)lysine (IC₅₀ = 0.65 µg/ml). 2,3-Dihydroaromaticin and ergolide also exhibited potent inhibitory activity on iNOS with IC₅₀ values of 0.26 and 0.21 µg/ml, respectively.

[PD2-56] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

Studies on antifungal activities of essential oil components in *Agastache rugosa*

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The antifungal activities of essential oil components in *Agastache rugosa* were investigated by micro broth dilution method and disc diffusion method. As the result, the total oil fraction separated by simultaneous steam distillation-extraction(SDE) from the plants exhibited significant inhibiting activities against *Aspergillus niger*, *A. flavus*, *Trichoderma viride*, *Candida albicans*, *C. utilis*, *C. tropicalis*, *Cryptococcus neoformans*, *Trichosporon mucoides*, *Trichophyton tonsurans* and *Geotrichum capitatum*.

[PD2-57] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

Antitumor activity of Diarylheptanoids from Barks of *Alnus japonica* on mouse melanoma cell line.

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The cytotoxic activity of several diarylheptanoids which were isolated from barks of *Alnus japonica* on mouse melanoma cell line were evaluated by 3-(4,5-dimethylthiazole-2-yl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) colorimetric method. 1,7-bis-(3,4-dihydroxyphenyl)-5-hydroxyheptane, oregonin, hirsutanolol, hirsutenone were shown significant cytotoxic activity at 10-30 µg/ml concentration. Especially, aglycones and monoglycosides of diarylheptanoid showed potent cytotoxic activities on mouse melanoma cell line but diglycosides of diarylheptanoids did not show cytotoxicity.

[PD2-58] [10/19/2001 (Fri) 14:00 - 17:00 / Hall D]

Sesquiterpenes with Hepatoprotective Activity from *Torilidis Fructus* on Tacrine-induced Cytotoxicity in Hep G2 Cells

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