dose-dependent manner.

[PD2-35] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Virus-cell fusion inhibitory activity for the polysaccharides from various Korean edible clams

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In order to find potent virus-cell fusion inhibitory components from Korean edible clams, thirteen prepared polysaccharides were introduced to syncytia formation inhibition assay, which is based on the interaction between the HIV-1 envelope protein gp120/41 and the cellular membrane protein CD4 of T lymphocytes. Among them, Meretrix petechialis showed a potent virus-cell fusion inhibitory activity. Fusion index (FI) and percent (%) fusion inhibition of the polysaccharide of this clam were 0.21±0.02, and 67.52±4.09 at 100 μg/mL, respectively. It exhibited almost equivalent virus-cell fusion inhibitory activity to that of dextran sulfate which was used as a standard control.

[PD2-36] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Antioxidative compounds from Clerodendrii folium

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Clerodendron trichotomum(Verbenaceae) has been used for arthritis, rhumatism, and hypertention as a folk medicine.
In order to evaluate anti-oxidative activity, its fractions(H_2O, 30%, 60%, 100Fr.) were measured with DPPH method. It was revealed that 30% and 60% MeOH fractions have significant antioxidative activity.
From 30% MeOH, five phenolic compounds were isolated by column chromatography and elucidated two flavonoid glycosides and three phenyl propanoids compounds.

[PD2-37] [04/20/2001 (Fri) 13:30 - 14:30 / Hall 4]

Anti-oxidative activity of Ban-Lan-Gen

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Ban-Lan-Gen is the dried root of Isatis indigotica Fort.(Cruciferae) and one of the most commonly-used traditional chinese medicines for antipyretic, antiviral, and detoxyfying purpose in china.
In order to evaluate anti-oxidative activity, Ban-Lan-Gen was fractionated and