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Rhus verniciflua Stokes (RVS) is a widely used herbal plant with various biological properties. Our previous study using in vitro platelet aggregation in whole blood showed that the fractions of RVS had strong anti-aggregatory activity. In this study, using in vitro platelet aggregation in PRP and coagulation parameters, to investigate the anti-platelet activity and anticagulant effects of RVS ethyl acetate layer, the layer was subsequently fractionated by ODS column chromatograph (50% MeOH). As a result, the fraction 4 was most inhibited the aggregation of PRP in rat by collagen and ethyl acetate layer of RVS was detected strong anticoagulant effect. These results suggested that fractions of *Rhus verniciflua* Stokes have potent anti-platelet and anticoagulant activity.

[PD3-4] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Screening of Cytotoxicity of Hexane Extracts from *Cornis fructus*

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Cornis fructus were extracted by successive extraction and then fractionated with hexane extract to get active fractions. This study was performed to determine the cytotoxic effect of hexane extract from *Cornis fructus* on NIH 3T3 fibroblasts and cancer cell lines using MTT assay. Hexane extract showed cytotoxic effect against A549, B16 melanoma and MDA-MB-231. Further fractionation with hexane extract were performed to obtain effective fraction, fraction 3 showed the cytotoxic effect against A549 and MDA-MB-231 cell line.

[PD3-5] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Dopamine β -Hydroxylase Inhibitory Activity of Chinese Herbal Drugs

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Dopamine β -hydroxylase (DBH) synthesizes norepinephrine from dopamine under the presence of ascorbate as a coenzyme. Dopamine is transported into the vesicles of the varicosity, where the synthesis and the storage of norepinephrine take place. Some drugs such as DBH inhibitors, dopaminergic agonists, etc. are known to assist in treating Parkinson's disease. The MeOH extracts of forty Chinese herbal drugs were screened for the inhibitory activities against bovine adrenal DBH, utilizing tyramine as a substrate. Among them, *Biota orientalis*, *Adina pilulifera*, *Dioscorea cirrhosa* showed the strong inhibitory activities against DBH.

[PD3-6] [04/18/2003 (Fri) 13:30 - 16:30 / Hall P]

Hepatoprotective Effects of Chinese Traditional Prescription, Dalwoneum