

defense system against tumors, and that its prophylactic and therapeutic effect on tumor metastasis is associated with NK cell and macrophage activation.

[PA1-49] [ 04/17/2003 (Thr) 14:00 – 17:00 / Hall P ]

### Pharmacological and Adverse Effects of Aloe vera

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Active ingredients, therapeutic and adverse effects of Aloe vera were comprehensively investigated. Aloe vera contains active components, including sugars, proteins, lipids, vitamins, minerals, phenolic compounds and other several compounds like phthalate esters, gibberellin, lectin-like substances, lignin, saponins, salicylic acid and uric acid. These chemicals are responsible for various pharmacological activities such as healing activity in skin diseases, gastric ulcer, inflammation, diabetes and immunologic disorders. Aloe vera is also reported as a chemopreventive agent to be effective in initiation, promotion and metastasis stage of multistage carcinogenesis due to its active compounds like polysaccharide and aloe-emodin. Aloe contains large quantities of phenolic constituents and possesses the antioxidative activity. In addition, there are some adverse effects such as burning sensation, contact dermatitis, mild itching and cytotoxicity.

[PA1-50] [ 04/17/2003 (Thr) 14:00 – 17:00 / Hall P ]

### A Collaborative Study to Establish a Korea National Biological Standard for Antithrombin III Concentrate

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We have carried out a collaborative study to evaluate a candidate preparation of antithrombin III concentrate whether it is suitable to serve as a Korea National Biological Standard. Three National Control Laboratories and three manufacturers participated in this study. The potency of this candidate preparation was determined by using a heparin cofactor chromogenic method described in the Minimum Requirements for Biological Products and the European Pharmacopoeia. The candidate demonstrated an excellent intra- and inter-laboratory correlations when assayed against the second international standard for antithrombin III concentrate coded 96/520. The overall potency estimate was calculated as unweighted geometric means of results from all laboratories. The potency of this candidate was defined as 51.9 IU/vial (95% confidence intervals ; 48.24 ~ 55.98 IU/vial). We also performed the accelerated thermal degradation test and the predicted loss of activity per year at -20°C was 0.227%. In conclusion, the candidate reference standard is proved to be suitable to serve as a Korea National Biological Standard for antithrombin III concentrate.

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### Importance of Cytochrome P450 3A4 Conformation for the Activity Stimulation by