

determining NO and PGE<sub>2</sub>, respectively. As a result, HBT inhibited LPS-stimulated PGE<sub>2</sub> and NO production in a dose-dependent manner. ECC also inhibited PGE<sub>2</sub> production. In addition, we investigated the growth inhibitory effects of HBT, Cordyceps, and the extracts of *Phelinus linteus* (PL) on human lung cancer cells (A549). HBT, the fractions of PL (EtOH and Hexane), and the extract of Cordyceps showed the growth inhibition against A549 cells. These findings show that eugenol conjugated chitosan (ECC), *Phelinus linteus* (PL), the fractions of PL, and HBT might be potential lead candidates for developing cancer chemopreventive and/or anti-inflammatory agents.

[PD2-36] [ 04/18/2003 (Fri) 13:30 – 16:30 / Hall P ]

### Effect of *Polygonum cuspidatum* on renal function

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*Polygonum cuspidatum* has been used as treatments of dermatitis, inflammation, hyperlipidemia and diuretics in folk remedies. In order to evaluate the urinary effect of *Polygoni cuspidati Radix*, its MeOH extract was administered in rats. We determined the total urine volume, chemical parameters (urea nitrogen, creatinine, uric acid), electrolytes (sodium, potassium, chloride) in serum and urine. *Polygoni cuspidati Radix* showed increase in urine volume and electrolytes.

[PD2-37] [ 04/18/2003 (Fri) 13:30 – 16:30 / Hall P ]

### Pharmacological screening of *Alnus japonica* and isolation of active constituent

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An extract of *Alnus japonica* (Betulaceae) cortex has been traditionally used for purifying blood, and curing feces containing blood, enteritis, diarrhea, alcoholism and cut wounds. In the preliminary test was carried out for determining whether it has the novel pharmacological activity, the butanol fraction showed significant inhibitory effect on carrageenan-induced paw edema as an acute inflammation, adjuvant-induced arthritis as a chronic inflammation, HCl-ethanol-induced gastric lesion and aspirin-ligation gastric ulcer. Carrageenan-induced paw edema test was performed with sub-fractionations to determine what constituent has anti-inflammatory activity. Active component is estimated as a flavonoid from H-NMR and C-NMR data, and specifications will be further studied with other spectrometric identification methods.

[PD2-38] [ 04/18/2003 (Fri) 13:30 – 16:30 / Hall P ]

### Fertility effect of chronically administered CBNU-1 on male rats

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