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Head of *Panax ginseng* C. A. Meyer indicates its growth number of years and has been widely used for supplying energy to weaklings or used as vomit. Butanol fraction of *Panax ginseng* head was significantly effective on gastritis and ulcer models in rats, and also had anti-oxidative properties in the previous study.

It has been well established that gastric ulcer is induced by imbalance between aggressive factors and protective factors, and the oxidative reaction makes the lesions on gastric mucosal injury severer. Besides, Helicobacter pylori infection is one of the important pathogen recently. Thus the study was performed focused on these properties.

For further investigation, the butanol fraction of *Panax ginseng* head was systematically isolated with silica gel open column chromatography by activity-guided isolation with HCl-ethanol-induced gastritis. Two active component were identified to ginsenoside Re and ginsenoside Rb1, however ginsenoside Re was dropped because of its insufficient yield for animal test. Ginsenoside Rb1 drastically reduced gastric damages on the tissue induced by HCl-ethanol, indomethacin, gastric ligature (Shay ulcer) and showed significant increase in mucin secretion, but did not affected gastric secretion. Ginsenoside Rb1 showed significant increase in GSH and activation of SOD. Ginsenoside Rb1 protected gastric tissue against mucosal injury by stimulation of mucin secretion as a protective factor and direct anti-oxidative action on irritated gastric tissue.

[PD2-53] [ 10/17/2002 (Thr) 09:30 - 12:30 / Hall C ]

#### The effect of Cordyceps pruinosa on renal failure rats

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Cordyceps has been used as a tonic for replenishing vital function in Chinese traditional medicines. As an attempt to obtain fundamental data for the kidney function, MeOH Ex. and its hexane, ethyl acetate, butanol and water fractions of cultivated Cordyceps pruinosa on mercuric chloride induced renal failure rats were investigated. Urin volume, blood parameters(urea nitrogen, uric acid, creatinine) and urinary electrolytes content (natrium, potassium, chloride) were determined. MeOH extract and butanol fraction showed diuretic effect.

[PD2-54] [ 10/17/2002 (Thr) 09:30 - 12:30 / Hall C ]

#### The effect of Corni Fructus on renal function

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Cornus officinalis has been used as protective drug for liver and kidney function. In order to evaluate the effect on renal function of Corni Fructus, We measured urine volume, chemical parameters(urea nitrogen, creatinine, uric acid), electrolytes(Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>) in serum and urine. Furosemide showed significant urine volume, serum and urine parameters, but Corni Fructus showed normal level parameters by dose increasing in rats.

[PD2-55] [ 10/17/2002 (Thr) 09:30 - 12:30 / Hall C ]

#### Synergistic effect of a mixed herbal extract on bone loss in ovariectomized (OVX) rats

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