

[PD2-61] [10/19/2001 (Fri) 14:00 – 17:00 / Hall D]

The anti-inflammatory activity of *Kalopanax pictus* bark extract (II). Isolation of pictoside A, a new saponin

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In the previous study⁽¹⁾ we have reported that the anti-inflammatory component of kalopanaxsaponin A (1) was isolated from the secondary fraction (Fr. 8-2) of EtOAc fraction of *Kalopanax pictus* bark extract through an activity-guided isolation technique. In the present study a new saponin (2), named pictoside A, was isolated from another secondary fraction of Fr. 8-4 which showed inhibitory activity of vascular permeability at an oral dose of 50 mg/kg in mice. Its structure was elucidated as 3-O- α -L-arabinopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-16 α -hydroxyhederagenin by spectral analyses of 1D and 2D NMR and MS.

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Evaluation of the herbal extract mixture for the effects of Hair Re-growth

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The hair cycle consists of three phase, growth (anagen), involution (catagen) and quiescence (telogen) phases. Herbal extract mixture (STC-2) containing the extracts of *Polygonum multiflorum* radix, *Mori cortex radialis*, *Gingco biloba foilum*, Silk protein, *Cinnamomum camphora* and Pine bud have been subject to investigation with specific interest in hair growth activity. To make sure of the effects on hair re-growth by STC-2, we should evaluate the induction of the anagen phase and/or elongation of the anagen period. Morphological examination of the experimental group treated by STC-2 has shown more active than vehicle in hair re-growth. Enzyme activities as a biochemical marker of hair cycle were investigated in the third hair cycle period of C3H mice after depilation. gamma-Glutamyl transpeptidase (gamma-GT) and alkaline phosphatase activities correlated well with the hair growth cycle and gamma-GT activity changed significantly with the hair cycle of the mice. STC-2 treatment may cause an early initiation of anagen, but both the STC-2 and vehicle-treated group entered telogen at the same time. The activities of glutathione peroxidase (GSH-Px) and glutathione reductase (GSH-Rd) have no decisive effect on hair re-growth. In the effect of human hair follicle cell in vitro, STC-2 treated cells expressed more 2 times phospho-Erk1/2 than control cells.

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Hypoglycemic effect of *Cordyceps militaris* Polymolecules in Streptozotocin-Induced Diabetic Rats.

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Cordyceps militaris(CM) has been used as a tonics traditionally. Recent research has shown the effect of