

[Shoyakugaku Zasshi, 46, 14-18 (1992)]

[Lab. of Herbal Garden]

Pharmacognostical Studies of *Catalpae Fructus* (1)**Relation between the Growth of Fruit and the Iridoid Glycoside Contents.**YUKIO NORO, YOUICHI HISATA, KAZUYO OKUDA, TOMOKO KAWAMURA,
YOSHIHISA HIGUCHI, TOSHIHIRO TANAKA*

For the quality evaluation of the crude drug *Catalpae Fructus*, the amounts of the iridoid glycoside, *i.e.* of catalposide and catalpol in the fruit of *Catalpa* spp. and the commercially obtained crude drug samples were measured. The iridoid glycoside content of the axial placentae of the fruits was high, whereas that of the seed was low. After flowering the fruits grew in length quickly until early July. The fruit weight and the iridoid glycoside content were in their maxima in August-September. Afterwards, the contents decreased. Most of commercial crude drug KISASAGE samples in Japanese market were from China and Hongkong, where had low iridoid glycoside contents.

[Shoyakugaku Zasshi, 46, 98-102 (1992)]

[Lab. of Herbal Garden]

Thermal Effect of the bath Additive of *Citrus iyo* Pericarp.TOSHIHIRO TANAKA*, EIJI SAKAI, NOBUKO KATO,
ATSUSHI TAKADA, TOKIO FUJII

Citrus iyo HORT ex TANAKA pericarp was tested for its usefulness as a bath additive by determining the oral temperature and skin temperature changes after bathing, with a thermograph, and comparing the effect with that produced by *Aurantii Nobilis Pericarpium* of JP XII. Right after the bathing in a bath with *C. iyo*, the body temperature was higher by 0.74 °C and 40 min after bathing by 0.09 °C. In the control warm bath with no additive, they were 0.59 °C and -0.10 °C, respectively. In the case of *C. iyo*, right after the bathing the skin temperature was higher than normal by 4.95 °C and 10 min after bathing, by 1.80 °C, whereas in the case of bathing with no additive the corresponding values were 4.20 °C and 0.55 °C. Therefore the usefulness of *C. iyo* pericarp was found to be as effective as *Aurantii Nobilis Pericarpium* as a bath additive.

[Shoyakugaku Zasshi, 46, 235-239 (1992)]

[Lab. of Herbal Garden]

Pharmacognostical Studies of *Plantaginis Herba* (9)**On the Morphology of *Plantaginis Herba* from China.**TOSHIHIRO TANAKA*, EIJI SAKAI, SANSEI NISHIBE,
MICHIKO SASAHARA, ZHENG TAIKUN

According to the Pharmacopoeia of Japam (J.P. XII), the crude drug, "*Plantaginis Herba*", is defined as whole plant of *Plantago asiatica* L. collected in the flowering season. The drug is used as a diuretic and a cough remedy in the folk medicine in Japan. Today, the drug is prepared also from imported materials, and some of such drugs do not agree with the descriptions given in J.P. XII. In this paper, we reported that among the crude drug imported from China were the crude drugs derived from *Plantago depressa* and *P. hostifolia*.