

Journal of
Tohoku Pharmaceutical University
No.52 (2005)

==== Contents ====

Reviews

Tadashi Katoh :

- Synthetic Studies on Natural Products Possessing Unique Chemical Structures
and Remarkable Biological Activities ----- 1

Originals

Hitomi Baba, Yasunori Yaoita, and Masao Kikuchi :

- Sesquiterpenoids from the Leaves of *Helianthus tuberosus* L. ----- 21

Kazuki Toyoda, Yasunori Yaoita, and Masao Kikuchi :

- Chemical Constituents of the Genus *Ligularia* Plants. II. Triterpenoids
from the Leaves and Roots of *Ligularia stenocephala* Matsum. et Koidz. ----- 27

Erika Matsuoka, Koichi Machida, and Masao Kikuchi :

- Studies on the Constituents of *Hypericum* Species. II. Megastigmane Glucosides
from *Hypericum erectum* THUNB. ----- 33

Yasunori Yaoita, and Masao Kikuchi :

- Constituents of Mushrooms. XXV. Structures of New Aromatic Compounds
from the Fruiting Bodies of *Hericium erinaceum* (BULL.: FR.) PERS. ----- 39

Yasushiro Nishiuti, Masato Hoshino, Hiroshi Tomisawa, and Reiko Fujita :

- Reaction of Pyridinium Salts Having the Functional Group with Active Methylene
Compounds ----- 43

Reiko Fujita, Toshiteru Yoshisuji, Sota Wakayanagi, and Hideaki Wakamatsu :

- Diels-Alder Reactions of 3-Nitro-2(1*H*)-quinolones ----- 51

Kenroh Sasaki, Kumiko Sato, Eikichi Arai, and Fumihiko Yoshizaki:

- Antioxidant Activity of Rosmarinic Acid Contributes to Inhibition of Matrix
Metalloproteinase Activity in Rat Lung ----- 57

Takahiro Nakazawa, Koh-ichi Banba, Ayana Tateoka, and Keisuke Ohsawa :

- Fecal and Urinary Metabolites of Hirsuteine and Hirsutine, the Major Indole Alkaloids
in *Uncaria rhynchophylla*, in Rats ----- 65

Yoshio Okawa, Yoshika Kojima, Mieko Kawashima, and Eiji Okamoto :

- Comparison of Acid Protease Producibility by Different Strains
of Pathogenic *Candida* Species ----- 73

Yoshio Okawa, Tomo Fujiwara, Fumiyuki Seki, Yuki Kawamata :	
Effect of Yeast Mannan on Nitric Oxide Production in Macrophage -----	79
Hideaki Niwata, Kaori Maruyama, Fumiko Takada, Yukisumi Iizuka, Kunio Ito, and Yoriyhis Tanaka :	
Effects of zinc deficiency on rat liver drug-metabolizing enzymes -----	85
Koji Uwai, Noriko Fuse, and Mitsuhiro Takeshita :	
Kinetic Analysis of the Enantioselective Reduction of <i>p</i> -Nitroacetophenone by Earthworm S-9 Fraction. -----	99
Hirokazu Mizoguchi, Minoru Narita, Toshiki Sawai, Chizuko Watanabe, Hiroshi Nagase, Leon F. Tseng, and Shinobu Sakurada :	
Involvement of endogenous β -endorphin and ϵ -opioid receptors in supraspinal site on the cold water swimming-induced antinociception in mice -----	105
Satoko Komatsu, Atsuro Saito, Natsumi Hotta, Mika Yamanouchi, Keiko Ohwada, Kaori Okuyama, Motoaki Takayanagi, and Isao Ohno :	
The roles of lymphocytes and sex hormones in the pathogenesis of allergic airway inflammation -----	111
Mika Sugawara, Yudai Hinai, Masahiro Hiratsuka, Takamitsu Sasaki, Yumiko Konno, and Michinao Mizugaki :	
Tissue distribution of the human CYP4B1 mRNA expression -----	125
Miho Horikawa, Masahiro Hiratsuka, Yumiko Konno, Takamitsu Sasaki, and Michinao Mizugaki :	
Genetic Polymorphisms of the Human 2,4-Dienoyl-CoA Reductase Gene -----	135
Junko Kawakami, Kenji Hoshi, Wataru Sato, Kenichi Sato, Akira Sugawara, Yoshihiko Saito, and Katsumi Yoshida :	
Screening of the patient with hyperthyroidism using routine test data -----	141
Masahiro Kataoka :	
Magnetic Susceptibility and Aromaticity in the Excited States of Naphthalene -----	149
Abstracts of Published Papers -----	153
Titles of Papers Presented at Scientific Meeting -----	179