

## 外国人客員部

## Division of Visiting Professors

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客員教授	Visiting Professor	I Ketut Adnyana (Ph.D.) <i>Institute Teknologi Bandung (ITB), Indonesia</i> (Apr. 1 ~ Jun. 30, 2007)
客員教授	Visiting Professor	Andreanus A. Soemardji (Ph.D.) <i>Institute Teknologi Bandung (ITB), Indonesia</i> (July 2 ~ Sept. 28, 2007)
客員教授	Visiting Professor	Mohan B. Gewali (Ph.D.) <i>Tribhuvan University, Nepal</i> (Nov. 2 ~ Mar. 31, 2008)
客員准教授	Visiting Associate Professor	Penpun Wetwitayaklung (Ph.D.) <i>Silpakorn University, Thailand</i> (May 1 ~ Jun. 30, 2007)
客員准教授	Visiting Associate Professor	Tanomjit Supavita Prince of Songkla University, Thailand (Jul. 2 ~ Dec. 14, 2007)

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### ◇ 研究目的

民族薬物に関する文献学的・生薬学的情報の整理と分析及び民族薬物に関する化学的・薬理学的研究を遂行する。

### ◇ 研究概要

本年度は、インドネシア、タイ、ネパールの伝統薬物の専門家を招聘し、ジャムー薬物の薬理活性、タイ生薬のデータベースや規格化、ならびにネパールの伝統薬物の実際と膵臓癌に有用な薬物の探索等についての研究を行なった。以下に研究概要を示した。

#### I) Evaluation of Pharmacological Efficacy of Jamu Medicine: By Assoc. Prof. I Ketut Adnyana & Prof. Andreanus A. Soemardji

*Jamu* is a general term of Indonesian traditional medicine that is based on empirical data and people's experiences. Almost every area or island in Indonesia possesses its own traditional way of using *Jamu*. Therefore, systematic documentation of the pharmacological indications of *Jamu* is a complicated process. These empirical data on *Jamu* can be called ethnopharmacological or Field-pharmacological data, and are different from Experiment-pharmacological data. Fortunately, many researchers have studied the phytochemical profiles and pharmacological properties of *Jamu* formulas, whether as a component plant or the whole *Jamu* formula. The present work is the continuation of the book written by Prof. Suwidjiyo Pramono "Jamu in Indonesian daily life and industry". In this second part of the book, we explored the pharmacological aspect of Indonesian medicinal plants as components of *Jamu* formulas, providing a rational explanation for the use of *Jamu*.

#### II) Traditional Medical Practices in Nepal: By Prof. Mohan B. Gewali

A handbook on Traditional Medical Practices in Nepal is on progress. The book will introduce Scholarly medical systems (Ayurveda, Tibetan medicine and Homeopathy), Folk medicine, Faith healing systems and

Medicinal plant biodiversity conservation and utilization. As a part of the book writing, a chapter on Folk medicine from Manang is nearing to completion. In this chapter, 91 medicinal plants used in Manang folk medicine, their principal chemical constituents and biological activities are described.

**III) Screening of selected Himalayan conifers for their preferential cytotoxicity against human pancreatic cancer PANC-1 cell line under nutrient deprived condition:** By Prof. Mohan B. Gewali

Himalyan conifers serve as folk medicines in Nepal and they find mention in the Nepali medicinal plant related book called Nighantu. Leaves, bark and wood of two Himalayan conifers, *Taxus wallichiana* and *Abies spectabilis*, were collected from the foot hills of the Himalayas. Ethanolic extracts of these two medicinal plants will be subjected to preferential cytotoxicity test on pancreatic cell line under nutrient-deprived condition. Should the cytotoxicity experiment prove to be successful, search for bioactive constituents from these plants will be investigated.

**IV) Database construction for standardization of Thai traditional crude drugs :** By Assoc. Prof. P. Wetwitayaklung,

**Basic study for standardization of Thai traditional crude dugs :** By Assoc. Prof. T. Supavita

Standard information referring to scientific and traditional data on Thai traditional crude drugs which had been collected and catalogued in the Museum of Materia Medica has been established for constructing a database. The inventory is reorganized to confirm the total of 362 items, which include 351 drugs of plant origin, one each of animal and mineral origin. Revision on some previously identified plant drugs is made.

◇ **Seminars**

- 1) “Antidiabetic Activities and Safety Profiles of Ethanol Extract of *Luffa acutangula* L.” [By Assoc. Prof. I Ketut Adnyana, Institute of Natural Medicine, University of Toyama, June 19, 2007]
- 2) “*Morinda citrifolia* L. Leaves Decoction as a Herbal Medicine for Worm Infection Therapy” [By Prof. Andreanus A. Soemardji, Institute of Natural Medicine, University of Toyama, Aug. 24, 2007]
- 3) “Nepalese Natural Medicinal Resources: Scope and Opportunities” [By Prof. Mohan B. Gewali, Institute of Natural Medicine, University of Toyama, Nov. 20, 2007]

◇ **Book**

“EVALUATION OF PHARMACOLOGICAL EFFICACY OF JAMU MEDICINE” [Author : Assoc. Prof. I Ketut Adnyana and Prof. Andreanus A. Soemardji: published by Institute of Natural Medicine, University of Toyama, Feb. 1, 2008]