

# ネパール産木本植物の内部形態および化学成分の研究

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# 1996 Fiscal Year Final Research Report Summary

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## Histological and Chemical Study on Nepalese Woody Plants

Research Project

### Project/Area Number

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07041132

### Research Category

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Grant-in-Aid for international Scientific Research

### Allocation Type

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Single-year Grants

### Section

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Field Research

### Research Institution

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### Project Period (FY)

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1995 – 1996

### Keywords

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Nepal / woody plants / bark / wood / histology / chemistry / tropics / national park / taxonomy

## Research Abstract

The research works on the Nepalese woody plants were carried out with 6 Japanese and 3 Nepalese scholars mainly in the tropical and subtropical areas from Sept.6 to Nov.18 in 1995, and Aug.21 to Oct.25 in 1996. The collected samples of about 1,000 small bark and wood pieces, and about 33,000 dried herbal specimens were brought to Japan for further studies. The bark samples for anatomical and chemical studies are stocked in the Faculty of Pharmaceutical Sciences, Kanazawa University (KANP), and some of wood samples for anatomical studies in Tohoku Univ. and others in the Museum of Nature and Human Activities, Hyogo. Besides, a full set of herbal specimens are stocked in KANP, and another set in Tokyo Univ. (TI), and others in relative herbariums including the Dept. of Plant Resources (DPR) in Nepal.

The remarkable thing of this research work is that the collection was made in tropical zone of Nepal. Though the southern plains in Nepal are generally utilized as the paddy fields, there are 5 national parks where the wild lives are well reserved by the government. Our research works were mainly done in these parks with permission of the Department of National Parks and Wild Life Conservation. Koshi Tappu Wild Life Reserve is good place for studying the natural renewal of river forest, the Baldia W.L.R. for the habitation of tropical and subtropical plants, Shukrapantha W.L.R. for the habitation of Shorea forest. The herbal specimens collected in these areas were very few in number, and the samples collected in this research are quite invaluable to complete the flora of Nepal.

Because of the difficulty of making the collection of bark and wood samples, the scientific studies such as histotaxonomy and chemotaxonomy of woody plants have scarcely been done. Therefore, it is very difficult to identify the botanical origins of the crude drugs of both bark and wood origins in markets. Those samples collected in this research will be very important to make progress the anatomical and chemical studies in both pharmacognostical and taxonomical fields. ▶ Less

## Research Products (4 results)

All Other

All Publications (4 results)

[Publications] 御影 雅幸: "ヒマラヤ産Ephedra属植物の研究、第1報、草質茎の内部形態的特徴とチベット薬物「TSHE」および「BALU」の基源" 植物研究雑誌. 71.6. 323-332 (1996) ▼

[Publications] Masayuki MIKAGE: "Japan-Nepal Cooperative Medico-Botanical Research in 1995" NEWSLETTER OF HIMALAYAN BOTANY. 19. 1-9 (1996) ▼

[Publications] Masayuki MIKAGE and Naoko KONDO: "Medico-Botanical Studies of Ephedra Plants from the Himalayan Region Part1. Anatomical studies of the Herbal Stem and Botanical Origin of Tibetan Crude Drug "TSHE" and "BALU"" The Journal of Japanese Botany. 71 (6). 322-332 (1996) ▼

[Publications] Masayuki MIKAGE: "Japan-Nepal Cooperative Medico-Botanical Research in 1995." Newsletter of Himalayan Botany. 19. 1-9 (1996) ▼

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