

Phylogenetic Wood Anatomy of Himalayan Woody Plants

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1992 Fiscal Year Final Research Report Summary

Phylogenetic Wood Anatomy of Himalayan Woody Plants

Research Project

Project/Area Number

03041035

Research Category

Grant-in-Aid for international Scientific Research

Allocation Type

Single-year Grants

Section

Field Research

Research Institution

Kanazawa University

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Project Period (FY)

1991 - 1992

Keywords

Nepal / Himalaya / Phylogeny / Wood Anatomy

Research Abstract

Three field researches in 1991 and one field research were conducted in Nepal and Bhutan. In 1991, the main part of this project (three Japanese and one Nepalese investigators) visited the Far-west Nepal and stayed there about 50 days, and the other two Japanese members studied in the East Nepal about 70 days. During the field researches, about 540 wood samples, about 12,000 sheets of dried herbarium specimens and about 200 bottled plant specimens were collected. After the researches in Nepal, four Japanese members did three weeks field research in Bhutan.

In 1992, three Japanese and one Nepalese members went the Far-east Nepal very near of the borders to Tibet and/or Sikkim. During about 70 days field research on this area, we collected 640 wood samples, 10,000dried specimens and 200 bottled specimens.

All of the collection were carried to Japan for the identification and further studies. All of the wood samples were cut by sliding microtome and made as microscopic slides for the photo microscopic observation, and the remaining wood blocks after the cutting are kept in the Department of Biology, College of Liberal Arts, Kanazawa University, for further studies such as maceration, observation by scanning microscope and so on. For each sample, 10 sets of microscopic slides were made. The duplicated sets will be kept in several in institution in the world as follows : National Herbarium and Botanical Laboratories, Kathmandu,Nepal ; USDA Forest Service, Madison, U.S.A.; Rijksherbarium, Leiden, the Netherlands ; Royal Botanic Gardens, Kew, United Kingdom ; University Museum, the University of Tokyo,Tokyo; Forestry and Forest Products Research Institute Tsukuba, and others. The identified herbarium specimens are deposited in the University Museum, the University of Tokyo, and duplicates will be distributed in the herbaria in the World.

Basing on the samples and specimens collected in this projects, many botanical studies are Performed and/or performing as shown in 10. REFERENCES.▲
Less

Research Products (25 results)

All Other

All Publications (25 results)

- [Publications] IKEDA,H.& OHBA,H.: "A systematic revision of *Potentilla lineata* and allied species(Rosaceae)in the Himalaya and adjacent regions." Bot.Journ.Linnean Soc. ▼
- [Publications] MEKAGE,M.,KONDO,N.& SUZUKI M.: "Studies on the crude drugs of bark oribin(I).The botanical oribins of"Kvphal Bokra"produced in Nepal and"Yoh BaiHi"produced in Japan and China." 生薬学雑誌. ▼
- [Publications] AKIYAMA,S.& OHBA,H.: "Notes of *Impatiens* from West Nepal." 植物研究雑誌. 68. (1993) ▼
- [Publications] MIKAGE,M.& SUZUKI,M.: "A morphological study on the rhizomes of *Polygonatum cirrhifolium* and *P.verticilatum*(Lilicaceae)from Far West Nepal." 植物地理・分類研究. 41. (1993) ▼
- [Publications] NOSHIRO,S.& SUZUKI,M.: "Altitudinal and horizontal distribution of *Tetracentron sinense* in East Nepal." 植物地理・分類研究. 41. (1993) ▼
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- [Publications] TOBE,H.,SUZUKI,M.& FUKUHARA,T.: "Pericarp anatomy and evolution in *Coriaria*(Coriariaceae)." Bot.Mag.Tokyo. 105. 289-302 (1992) ▼
- [Publications] YODA,K.SUZUKI,M.: "Comparative wood anatomy of *Coriaria*." Bot.Mag.Tokyo. 105. 235-245 (1992) ▼
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- [Publications] SUZUKI,M.,JOSHI,L.,FUJII,T.& NOSHIRO,S.: "The anatomy of unusual tracheids in *Tetracentron* wood." IAWA Bull.n.s.12. 23-33 (1991) ▼
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- [Publications] Ikeda, H. Ohba, H.: "A systematic revision of *Potentilla lineata* and allied species (Rosaceae) in the Himalaya and adjacent regions." Bot. Journ. Linnean Soc. ▼
- [Publications] Mikage, M. Kondo, N. Suzuki, M.: "Studies on the crude drugs of bark origin (I). The botanical origins of "Kaphal Bokra" Produced in Nepal and "Yoh Bai Hi" produced in Japan and China." Shoyaku-gaku Zasshi. ▼
- [Publications] Akiyama, S. & Ohba, H.: "Notes of *Impatiens* from West Nepal." J. Jpn. Bot.68. (1993) ▼
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