



Training Workshop on Tropical Plant Identification



GUIDE BOOK

SEAMEO BIOTROP, Bogor, Indonesia
31 October – 5 November 2022



Royal
Botanic
Gardens

Kew GA

GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN



IPB University
— Bogor, Indonesia —

Contents

Foreword	2
Background	3
Objectives	4
Course Content and Activities	4
List of Participant	5
List of Lecturer	8
List of Instructors	9
Program	10
About SEAMEO BIOTROP	14
About Bogor	16
Gede Pangrango National Park	17
Cibodas Botanic Garden	18
Bogor Botanic Garden	19
Transportation	21
Indonesian Currency	22
Bogor Traditional Food	23
Shopping Market	24

Foreword

It is a great pleasure to welcome all the participants of the Training Workshop on Tropical Plant Identification, held at SEAMEO BIOTROP campus 31 October – 5 November 2022. The previous workshop, the first one conducted in 5 years ago, 11 – 15 September 2017.

The training is organized to cover lecturers, practical works, and field work. Field work will be organized to Mt. Gede Pangrango National Park, Cibodas Botanic Garden, and Bogor Botanic Garden. The field work will be conducted to apply the plant identification learned so far during the workshop on living plants in their natural environment.

It is expected to foster a close cooperation among participants, lecturers, staff, and instructors to share their experience in maximizing the benefit of the training.

Committee

Background

CRC990-EFForTS project is a large international and interdisciplinary research program of the universities of Goettigen, Jambi, Tadulako and Bogor funded by the German Research Foundation (DFG = *Deutsche Forschungsgemeinschaft*). The EFForTS project and SEAMEO BIOTROP are going to conduct Regional Tropical Plant Identification Workshop in Bogor 31 October – 5 November 2022. This workshop is based on the annual Kew Tropical Plant Identification Course and is carried out by experts from the Royal Botanic Gardens Kew (UK) who kindly agreed to share their knowledge in tropical plant identification.

In 2017 CRC990-EFForTS and SEAMEO BIOTROP organize the first Tropical Plant Identification Workshop for the Indonesian participants from the following university and institutions involved in EFForTS project: IPB, UNJA, UNTAD, UNIPA, LIPI, Harapan Rainforest and SEAMEO BIOTROP. There were 22 participants from universities and institutions in Indonesia.

The participants got an overview of about 39 of the most commonly encountered tropical vascular plant families, as well as an introduction to plant morphology and identification tools. Kew's botanist and scientist of the CRC990-EFForTS project demonstrate the key characters of each family, sharing their tips for identification and participants joint identification session focused on Tropical Southeast Asia plants. A visit to the living collections in Bogor Botanic Garden provides the participants a chance to apply the knowledge "in the field".

During the training Dr. J. C. Fernandez the deputy director of BIOTROP at that time approached Dr. Katja Rembold coordinator of the training workshop and Dr. Timothy Utteridge from Kew Garden U.K. for the possibility of conducting the same training in 2019. Dr. Fernandez proposed if the training workshop could be expanded for the ASEAN member countries not only Indonesian participants. Dr. Katja Rembold said that she will propose it to CRC 990-EFForTS project phase 3. Since CRC990-EFForTS project still has to be evaluated if it can be approved for

the 3rd phase and the training workshop will be propose for 2020. Dr. Katja Rembold was resigned from CRC990-EFForTS project in 2018 and her position replaced by Dr. Fabian Brambach. On 22 November 2019 Dr. Brambach got the news from Prof. Dr. Stefan Scheu the speaker of CRC990-EFForTS project that Phase 3 of the project approved including the proposal for Training Workshop on Plant Identification.

However due to the pandemic Covid, The Training Workshop on Tropical Plant Identification workshop cannot be conducted in 2019. During the Science Retreat of CRC990-EFForTS in Germany 3-5 July 2022, there was a green light news that the CRC990-EFForTS can be conducted in 2022. The training will be conducted at SEAMEO BIOTROP Campus 31 October – 5 November 2022.

Objectives

- a. To provide participants basic knowledge on plant morphology and terminology
- b. To give the skill to the participants on using identification key
- c. To give the skill to the participants in identifying the plants up to the family level
- d. To develop further interest, and enhance professional linkage among participants engaged in plant taxonomy and identification

Course Content and Activities

The training workshop will involve: lecture-discussions, practical works, and field trip. The coverage of the topics is as follow:

- a. Introduction on plant taxonomy and identification
- b. Plant morphology and terminology
- c. Keys to plant's families
- d. Identification to family level through herbarium specimens
- e. Identification of plants in the fields: Field trip to Mt. Gede Pangrango National Park, Cibodas Botanic Garden, and Bogor Botanic Garden

List of Participant

No.	Name	Institution/ Phone / Email
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1.	Ade Adriadi	Jambi University (UNJA) Phone: - Email: adeadriadi@unja.ac.id
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List of Lecturer

No.	Name	Institution/Phone/Email
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List of Instructors

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Program

Time (Jakarta Time GMT +7)	Program	PIC
Monday, 31 October 2022		
08.00 – 08.20	Registration	Committee
08.20 – 08.30	Opening Ceremony: 1. Indonesian National Anthem “Indonesia Raya” 2. SEAMEO Colours 3. SEAMEO Song	Committee
08.30 – 08.35	Safety Induction	Committee
08.35 – 08.40	Report by Coordinator	Dr. Sri S. Tjitrosoedirdjo M.Sc. Dr. Fabian Brambach
08.40 – 08.50	Remarks by Vice Rector for International Affairs, Collaboration and Alumni Relations / University Consortium Coordinator and Speaker for Research Cooperation CRC990-EFForTS	Prof. Dr. Ir. Dodik Ridho Nurrochmat, M.Sc.F.Trop
08.50 – 09.00	Overview of SEAMEO BIOTROP’s Program and Opening Remark by Director of SEAMEO BIOTROP	Dr. Zulhamsyah Imran
09.10 – 09.20	Photo Group Session (Class Room)	Committee
09.20 – 10.30	General Introduction	Dr. Fabian Brambach
	ID tools	Dr. Andre Schuiteman
10.30 – 10.45	Photo Group Session (Outdoor)	Committee
10.45 – 11.00	Coffee Break	Committee
11:00 – 12:00	Introduction of Morphology	Carmen Puglisi
12.00 – 13.00	Lunch	Committee

Time (Jakarta Time GMT +7)	Program	PIC
13.00 – 14.00	Magnoliids Annonaceae Myristicaceae Lauraceae	Dr. Fabian Brambach Dr. Deby Arifiani
14.00 – 15.00	Rosales & Fagales Moraceae Fagaceae	Dr. Fabian Brambach
15.00 – 15.30	Break	Committee
15.30 – 16.30	Magnoliids, Rosales, Fagales	Dr. Fabian Brambach Dr. Deby Arifiani
Tuesday, 1 November 2022		
09.00 – 10.30	Monocots 1 Monocot intro Poaceae Cyperaceae	Dr. Andre Schuiteman Dr. Alex Sumadijaya
10.30 – 11.00	Break	Committee
11.00 – 12.00	Monocots 2 Orchidaceae Marantaceae Zingiberaceae Araceae	Dr. Andre Schuiteman Dr. Wisnu Ardi
12.00 – 13.00	Lunch	Committee
13.00 – 14.00	Monocots	Dr. Andre Schuiteman
14.00 – 15.00	Malpighiales Euphorbiaceae Phyllanthaceae Clusiaceae	Dr. Fabian Brambach
15.00 – 15.30	Break	Committee
15.30 – 16.30	Malpighiales	Dr. Fabian Brambach
Wednesday, 2 November 2022		
09.00 – 10.30	Sapindales Anacardiaceae Bursleraceae Meliaceae Sapindaceae	Dr. Fabian Brambach Dr. Carmen Puglisi

Time (Jakarta Time GMT +7)	Program	PIC
	Rutaceae incl. PS	
10.30 – 11.00	Break	Committee
11.00 – 12.00	Ericales Ebenaceae Sapotaceae Ericaceae incl. PS	Dr. Carmen Puglisi Mr. Wendy Mustaqim
12.00 – 13.00	Lunch	Committee
13.00 – 14.00	Malvales Dipterocarpaceae Malvaceae	Ms. Laura Jennings
14.00 – 15.00	Fabaceae Papilionoideae Caesalpinioideae Mimosoideae	Mr. Wendy Mustaqim
15.00 – 15.20	Break	Committee
15.30 – 16.30	Fabaceae	Mr. Wendy Mustaqim
Thursday, 3 November 2022		
07.00 – 17.00	Fieldtrip to Cibodas Botanical Garden	Committee
Friday, 4 November 2022		
09.00 – 10.30	Lamiales Lamiaceae Acanthaceae Gesneriaceae incl. PS	Dr. Carmen Puglisi
10.30 – 11.00	Break	Committee
11.00 – 11.30	Opposite leaves Rubiaceae Apocynaceae Myrtaceae Melastomataceae	Dr. Andre Schuiteman Ms. Laura Jennings
11.30 – 13.00	Friday Prayer and Lunch	Committee

Time (Jakarta Time GMT +7)	Program	PIC
13.00 – 14.00	PS opposite leaves	Ms. Laura Jennings
14.00 – 15.00	Revision time (flexible to attend)	Dr. Fabian Brambach
15.00 – 15.30	Break	Committee
15.30 – 16.30	Identification test	Dr. Fabian Brambach
Saturday, 5 November 2022		
09.00 – 10.30	Closing Ceremony	Committee
	Report and Course feedback by Coordinator	Dr. Sri S. Tjitrosoedirdjo M.Sc. Dr. Fabian Brambach
	Remarks on behalf of the participants	
	Closing Remarks by Director of SEAMEO BIOTROP	Dr. Zulhamsyah Imran
10.30 – 11.00	Break	Committee
11.00 – 15.00	Field trip Bogor Botanical Garden	Committee

NOTES:

PS: Practical ID sessions: mix all the herbarium specimens for the families into one practical session, i.e., have up to seven families at one time.

Opening ceremony and first day lecture at Jati Room

Closing ceremony at Jati Room

Other session at practical room

About SEAMEO BIOTROP



The Regional Centre for Tropical Biology of SEAMEO (BIOTROP) is established based on the decision of the Third SEAMEO Conference in Singapore, 6 - 9 February 1968, under the name of Regional Centre for Training, Research and Post Graduate Study in Tropical Biology. The proposal for establishing BIOTROP was based on the findings and recommendations of the Feasibility Team and the Task Force appointed in 1967 to consider the four Indonesian proposals submitted to the Second SEAMEC Conference in Manila 25 -28 November 1966. The Second Advisory Council Meeting of BIOTROP held in Bandung, Indonesia on 30 September – 2 October 1968 agreed on the new name of BIOTROP, i.e. SEAMEO Regional Centre for Tropical Biology which can be abbreviated to BIOTROP.

Bogor in Indonesia is chosen as BIOTROP's headquarter because at that time in Bogor there are many existing famous tropical biological institutions, such as Bogor Botanical Gardens, the Herbarium Bogoriense, The Treub Laboratories and the Zoological Museum which those three institutions are now belong to the National Biological Institute of the Indonesian Institute of Sciences. Besides, Bogor is the center of scientific activities in agriculture, where the Forest Research Institute, the Central Research Institute for Agriculture, the

Central Research Institute for Estate Crops, the Animal Husbandry Research Institute, the Inland Fisheries Research Institute, the Soil Research Institute and Institut Pertanian Bogor (IPB University) are located.



BIOTROP completed its interim period in the first half of 1973 and started its First Five-Year Permanent Operational Period (1973-1978) in the second half of 1973. Starting from this moment, it was considered important for BIOTROP to have its own headquarter, built in accordance with its needs.

Thus, a master plan for BIOTROP physical facilities was designed and submitted to the Ninth Governing Board Meeting, Singapore 17-19 May 1973. At that time, the Government of Indonesia provided BIOTROP with a piece of land of approximately 3.5 ha for the construction, located in Tajur, Bogor.

The newly built headquarter will accommodate BIOTROP's training and research activities, administration, clearing house, as well as living quarters for trainees and foreign staff. BIOTROP officially moved to the new location in January 1978.

About Bogor



Bogor conveniently located in the western part of Java. Bogor is a city located 60 km south of Jakarta, the capital city of Indonesia. The area is mainly residential, home to thousands of commuters who travel back and forth every day to make a living in the capital city. However, during the weekend, it is the Jakarta residents who flock to Bogor. They come to shop at numerous factory outlet stores, or to enjoy the cool air of Puncak, a highland area in the outskirts of Bogor.

At the center of the city lies the Bogor Palace, one of 6 Presidential Palaces in Indonesia. The palace is famous for its collection of artworks such as paintings and statues from around the world. Within the palace precincts, hundreds of spotted deer are living peacefully, feeding on the green grass that covers the ground.

Adjoining the palace is the lush Bogor Botanical Garden, which offers a refreshing sight and atmosphere amid the bustling commercial area. The garden houses more than 15,000 species of trees and plants, including some 3,000 varieties of orchid. It is a must-visit for travelers.

Bogor has been called "Rainy City", although in the recent years it's not as rainy as it used to be. You can still expect heavy rain in the middle of dry season, so always prepare an umbrella just in case. Bogor has a mild climate with two seasons that are summer and rainy with average temperature 26°C. When

summer weather can be very warm with temperature around 30.4°C in March to October. In winter seasons can be very cold with the average of temperature around 21.8°C most commonly happen in November to March.

Here are some historical facts about Bogor:

1. It was originally named Buitenzorg by the Dutch during the colonial era.
2. Governor General van Imhoff built his country estate by the same name here as early as 1745, and it became a favorite place of retreat for later governors as well.
3. Sir Stamford Raffles made Bogor his country home during the short British rule of Indonesia from 1811 to 1816.
4. A railway was completed in 1873 between Batavia and Buitenzorg.
5. Raffles called Bogor a "romantic little village", but it has today grown to be almost a suburb of Jakarta, with a population of more than 700.000. It is still growing quickly, maybe faster than Jakarta itself.

Gede Pangrango National Park

Gunung Gede National Park Pangrango (TNGGP) has an important role in the history of conservation in Indonesia. It was as one of the 5 first national park in Indonesia by the Indonesian government through Decree of the Minister of Agriculture in 1980.

Only few people know about the early history of conservation in this region, although the forests and mountains are part of the legends in the land of Sunda. There seems a history track the history from the old city of Cianjur to the Bogor through Cipanas. The Japanese tea have been planted since 1728, and the plantation was extended from Ciawi until Cikopo in 1835. Assam tea was introduced in 1878, and it changed the economic and environmental conditions in the villages in the mountain valley.

The long history of conservation and research activities began in 1830 with the establishment of a small botanical garden near the Palace of the Governor-General of the Dutch Colonial in Cipanas, and then a small botanical garden is being expanded to become Cibodas Botanical Garden at present.

In 1889, the forest area between the Botanical Garden and Hot Water Cibodas designated as a Nature Reservation. The main commitment began in 1978, when an area of 14,000 hectares, which consists of 2 main peak and its wide slopes are designated as a Biosphere Reserves of Mount Gede Pangrango.

Legend and Belief

In Cibereum, there is a large stone at Cikundul waterfall. According to local legend, a rock formation was a place where a holy man meditated for a long time until shifted into a stone. On the day of Judgement, it is believed that he would be shifted into a human again.



Cibodas Botanic Garden

Cibodas Botanic Garden was founded in Dutch time. Johannes Ellias Teijsmann, curator of 'sLands Plantentuin te Buitenzorg (now Bogor Botanic Garden) planted *Chincona calisaya* on 11 April 1852 in an area called Pasir Tjibodas and developed this area into Bergtuin te Tjibodas. Initially, as quinine and high-economic value plants plantation, this garden expanded until the top of Mount Gede and Pangrango. Now, this garden only occupies 85 hectares land at the foot of the mountain and exhibits tropical and highland flora of western Indonesia.



Plant collections are planted in two areas: garden and plant houses for Orchid, fern, Succulent and Cacti. This garden also has herbarium and seed collection. The newest collection is Bryophyte which displays resemble of Mt. Gede Pangrango.

Amorphophallus titanum or Carcass Flower is another interesting plant. Last Flowering in 2007 with more than 3 m height. *Castanopsis argentea*, *Altingia excelsa* are some of the representatives of high-altitude plants that planted here. Also, *Araucaria* spp stands in the queue, forming *Araucaria* Avenue become an interesting place to look in to.

Bogor Botanic Garden

The Bogor Botanic Garden was founded on May 18, 1817. The garden was inspired by Sir Thomas Stamford Raffles, design by Professor Reinhardt. It is the largest botanic garden in the Southern Hemisphere and also the richest in tropical plant collection.

It is located in the heart of the city of Bogor, at an elevation of 260 m above sea level, covering an area 87 ha, with an undulating topography. The annual rainfall is 4,000 mm.

The Bogor Botanic Garden also serve as the center for 3 other satellite gardens, namely the Cibodas Mountain Garden (1, 400 m) in West Java, Purwodadi (250m) in East Java and Eka Karya in Bali (1, 400 m).



Bogor Botanical Garden

The garden maintains a collection of 3, 422 species, belonging to 1, 254 genera in 198 families. The orchids collection mostly wild species. Other collections worth to be mentions are the Fabaceae, Arecaceae, Araceae, Dipterocarpaceae and the bamboo.

From the botanical point of view, all collections are of high scientific value. Special interest found in the garden are *Victoria amazonica* (Poepp.) Sowerby, the well-known water lily from Amazone, *Lichi chinensis* Sonn (lichi tree), planted in 1823 which becoming the oldest trees in the collections; *Maniltoa grandiflora* Scheff, the young leaves hanging down like a handkerchief, *Koompasia exelsa* (Becc.) Taub, a legume tree from Kalimantan known as king tree; *Vatica bantamensis* (Hassk.) B. & H. ex Miq. one of the living type specimens in the garden. (Sources: Leaflet of the Bogor Botanical Garden).

Transportation

Local Bus Network: Shuttle buses are a safe and convenient way to visit the major sights of the city. BisKita Trans Pakuan mulai resmi beroperasi pada tanggal 2 November 2021, and offers its services for free with stops at Kebun Raya Bogor, Padjajaran, Botani Square, and many more strategic stop point. E-money card that can be bought in the nearest mini mart are required to use its service.



Car or Motorcycle Online: Download the GO-JEK or Grab app on Your smartphone, enter your pick-up address and destination. The driver will arrive within the estimated time, equipped with an extra helmet. You'll need Wi-Fi or data to operate the apps.



Rent: There are numerous companies that rent out cars, bicycles and motorbikes. Renting a car here is simple if one has an international or Indonesian license. But driving along the winding roads of Bali might not be very easy. Experienced bike riders can rent out bikes at a negotiable price.



Indonesian Currency



1 USD is approximately IDR 15.500 (as of 28 October 2022)

Bogor Traditional Food



Soto Kuning is a typical food from Bogor, West Java. This dish is made from beef and offal. Its bright yellow color from turmeric mixed with the rich flavor of coconut milk makes it an interesting dish especially when combined with the texture of various beef parts.



Asinan is a pickled vegetable or fruit dish, commonly found in Indonesia. Asin, Indonesian for "salty", is the process of preserving the ingredients by soaking them in a solution of salty water. Asinan is quite similar to rujak', which is usually served fresh, while asinan is preserved vegetables or fruits.beef parts.

Shopping Market



Toko Lapis Bogor Sangkuriang is one of the most popular cake stores in Bogor. Their speciality is “*Kue Lapis*” a cake made from taro flour with many variant flavour such as original, greentea, brownies, etc. Beside kue lapis they also provide variety of local speciliaties such as nutmeg sweets and syroup, mochi cake, chips, etc sweets and syroup, mochi cake, chips, etc.



SKI Tas Tajur can be the right choice if you are looking for a place to shop for bags in Bogor. This place is famous for the concept of one stop shopping and recreation because there are many shops and play facilities for children. Located in Jalan Raya, this area has the concept of one stop shopping combined with family recreation.

Notes: