

# Scientific seminar and workshop on “Data digitalization and mobilization to GBIF, new approach for lichen and bryophyte research”

On 27th–30th November 2018, VNUHCM – University of Science held a scientific seminar and workshop on “Data digitalization and mobilization to GBIF, new approach for lichen and bryophyte research”. This is an extraordinary event during the mid-project meeting of BIFA3-32 project, including 2 key activities that are scientific seminar and training workshop. The seminar provides a brief introduction to GBIF and how digitalization and mobilization of data would help to enhance biodiversity research, focusing on bryophytes and lichens. The workshop aims to provide basic knowledge and skill in bryophytes and lichens taxonomy and identification. Details are shown in the poster below.

The poster features logos for GBIF (Global Biodiversity Information Facility), the Ministry of the Environment Government of Japan, and the University of Science. The main title is "DATA DIGITALIZATION & MOBILIZATION TO GBIF" with the subtitle "New approach for lichen & bryophyte research". The event is held at the University of Science, 227 Nguyen Van Cu, District 5, HCMC.

**SCIENTIFIC SEMINAR** P.F102 8:15–12:15  
27/11/2018

- 8:35** LUONG Thien Tam (HCMUS)  
*Data mobilization of the Cryptogam collection of the Herbarium PHH*
- 9:05** Prof. Emeritus Tamás PÓCS (Eszterházy Károly University, Eger, Hungary)  
*Dispersal, distribution and diversity of bryophytes*
- 9:50** Prof. Emeritus NGUYEN Kim Phi Phung (HCMUS)  
*Cytotoxic compounds from lichens collected in Vietnam, results and perspective.*
- 10:40** Dr. Gothamie WEERAKOON (The Natural History Museum, United Kingdom)  
*The significance of collections of lichenized fungi in the “Anthropocene”*
- 11:25** Dr. Sanna HUTTUNEN (University of Turku, Finland)  
*Herbaria as source of data for biodiversity research and nature conservation*

**WORKSHOP ON IDENTIFICATION**  
Botany Lab

**Lecture: Anatomy, morphology of main groups of Liverwort in Viet Nam**  
Prof. Tamás Pócs  
15:15–17:15  
28/11

**MOSS**  
8:30–12:00, 28/11  
Dr. Weerakoon, Dr. Phi Giao

**LICHEN**  
8:30–12:00 & 13:30–17:00, 30/11  
Dr. Huttunen, Thien Tam

**LIVERWORT**  
8:30–12:00 & 13:30–17:00, 29/11  
Prof. Pócs, Thien Tam

Please register before 25/11/2018 at: <https://goo.gl/NEHet1>  
Email: [viptgiao@hcmus.edu.vn](mailto:viptgiao@hcmus.edu.vn) 090 1190675 (Dr. Giao)

Figure 1. Details programs of Scientific seminar and workshop on “Data digitalization and mobilization to GBIF – new approach for lichen and bryophyte research”

Attending the seminar were scholars from University of Turku (Finland), Eszterházy Károly University (Eger, Hungary), Natural History Museum (London, The United Kingdom), staffs and students of VNUHCM – University of Science (Vietnam). The seminar covered variety of topics

from ecology, biodiversity to their application such as biochemistry. Simultaneously, speakers also presented their opinions on how to transfer data into GBIF, as well as the role of digitalized database and herbarium in scientific research. This was also a chance to discuss the gaps of lichens and bryophytes research in Vietnam, partly due to poor collecting and collection management. Therefore, digitalization and mobilization of the existing collection is considered as a desirable approach to promote biodiversity data use of bryophytes and lichens in Vietnam to the world.



Figure 2. Discussion during the scientific seminar.



Figure 3. Participants of the scientific seminar on 27 November 2018.

The seminar was followed by a series of workshops on taxonomy and identification of bryophytes and lichens. During the 3-day workshops (28-30 November 2018), experts gave short lectures and practical guidance on identifying method of bryophytes and lichens to students and participants from outside university. The workshop was supported by world leading experts in the field, such as Prof. Tamás Pócs (Eszterházy Károly University, Eger, Hungary) for liverworts, Dr. Sanna Huttunen (University of Turku, Finland) for mosses and Dr. Gothamie Weerakoon (Natural History Museum, UK) for lichens. Identification skill is important for a nature-lover and correct name is essential in databasing. We hope that after this workshop, people will have better idea on the species that they might find in nature.





Figure 4. Participants of the identification workshop on bryophytes and lichens.



Figure 5. Dr. Sanna Huttunen (white t-shirt) was showing students how to identify mosses.



Figure 6. Dr. Gothamie Weerakoon was giving lecture on lichens classification.





Figure 7. A practical session during workshop on liverwort identification, given by Prof. Pócs Tamás.