

PBIO-161

Biological collections course

Lichen practicals, Wednesday 1 September 2020, 1-3 pm.

Purpose: Demonstration of the workflow of the museum specimen = collecting specimens, species identification, secondary chemistry (excluding TLC), preparing herbarium specimens, labels, digitization, incorporating specimens into general collections, loan requests of specimens, including those dealing with the type specimens

1. Collecting

To have in field:

paper bags, hand lens, knife, map, colour reagents, compass, note book

Collection data:

Country, province (biogeographic province in Finland), municipality, village or other more exact locality, altitude, habitat, vegetation type, substrate (for instance tree species, twig/branch/trunk, the type of rock), exposition, associated species, coordinates (in field: Maastokartat-app), preliminary identification, date, collector(s), collection number.

2. Identification

Literature, microscope, colour reagents, reference material (herbarium)

3. Preparing the herbarium specimen

Freezer!

Label: see collection data. English is the recommended language.

Useful links:

Karttapaikka (coordinates):

<https://asiointi.maanmittauslaitos.fi/karttapaikka/>

The International Plant Names Index

<http://www.ipni.org/ipni/plantnamesearchpage.do>

Index fungorum (author names):

<http://www.indexfungorum.org/names/names.asp>

Digitizing: Kotka database

Incorporating the specimen into collections

4. Taxonomic study: loan request of types and other material

How to locate the type material:

Literature

JSTOR: <https://plants.jstor.org/search?asf=&>

Index fungorum:

<http://www.indexfungorum.org/names/names.asp>

Sending a loan request:

Index herbariorum: <http://sweetgum.nybg.org/science/ih/>

