



IPS-161 Biological Collections

Group 2 - Practicals

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Lichens practical

Introduction

- Symbiosis of two components: **Phycobiont** (Algae) and **Mycobiont** (Fungi)
- Classification of lichens
- Macrolichens & microlichens



Steps in lichen collection

1. Sample collection:

- Field requirements: paper bags, hand lens, knife, map, colour reagents, compass, notebook & pencil/pen
- Collection data:
 - ✓ Location information
 - ✓ Coordinates (Maastokartat app)
 - ✓ Preliminary identification
 - ✓ Date
 - ✓ Descriptions of collection area
 - ✓ Exposition (using compass)
 - ✓ Collector name
 - ✓ Collection number

Picture: red colour reaction of *Xanthoria parietina* with KOH



2. Identification:

- Microscope, literature, colour reagents, reference material (herbarium)

3. Preparing the herbarium specimen:

- Storage in freezer
- Placed in brown paper envelopes
- Preparing the label (important references: Karttapaikka, Index fungorium, International Plant Names Index)

D

Physcia caesia / VOUCHER FOR MOLECULAR STUDY.
[ITS and LSU sequences generated, but not yet submitted to GenBank]
DNA extraction #83. Ahti 69360, with Soili Stenroos
Ester Gaya, 9 February 2022

FINNISH MUSEUM OF NATURAL HISTORY
Botanical Museum, Helsinki (H)

Physcia caesia (Hoffm.) Fűrnr.

FINLAND. UUSIMAA. Kirkkonummi: Porkkala,
Vetokannas. On rocks along sea shore, abundant.
Natl. Grid Ref.: ~~66~~653:343 [Loc. Ahti 81/09]
59°59'N, 24°24'E. Alt. 2 m.
16 Oct 2009 **Teuvo Ahti 69360, Soili Stenroos**
& **Raquel Pino**

BOTANICAL MUSEUM, HELSINKI (H)

Xanthoria parietina (L.) Th. Fr.

FINLAND. UUSIMAA. Helsinki. Found growing on twigs of *Sambucus nigra* on the ground inside the botanical garden. Associated growth with *Hypogymnia physodes* (L.) Nyl. 1896.

31st August 2022

Mihika Sen 310822_1_1

60.1745°N, 24.9449°E (WGS84). Alt. 0-5 m.

K+ red

- Digitization (Kotka)
- Incorporating the specimen into the museum collections



Submission <http://id.luomus.fi/HA.H9500503>

Collection: Type specimens of lichen-forming fungi (H)

Collection quality: Professional / professionally curated

Notes: I. Hiitonen 1955: Not a type although from same localities [orig. in Finnish].

Keywords: <http://tun.fi/GX.22>, H9500503

Observer(s)/ Collector(s): Räsänen, V.

Time: 1938-07-28

Locality names: Russian Federation, PsL

Species: *Xanthoria parietina*



Comments:

Identifications: *Xanthoria parietina* (L.) Th.Fr. det. 2011

Xanthoria parietina var. *subreticulata* (L.) Th.Fr.

Type specimens: syntype *Xanthoria parietina* var. *subreticulata* Räsänen

