

THE JOURNAL OF JAPANESE BOTANY.

EDITED BY

TOMITARÔ MAKINO, Sc. D.

LECTURER OF BOTANY IN THE FACULTY OF SCIENCE,
IMPERIAL UNIVERSITY OF TOKYO.

Vol. VIII. No. 1.

January 25, 1932.

(Whole No. 71.)

Published by the Tsumura Laboratory, Tokyo, Nippon.

Notes on Japanese Lichens. I.

By **Yasuhiko Asahina**.

1. *Chaenotheca stemonea* (ACH.) MÜLL. ARG.

The Determination of Mat. I, No. 35¹⁾ *Coniocybe gracilentia* Ach. is incorrect. On studying with more complete specimens, afterwards found in various localities No. 35 belongs also to this species. On bark of *Cryptomeria japonica*.

Localities. Prov. Idzu; Prov. Musashi; Prov. Shimosuke (Nikko).

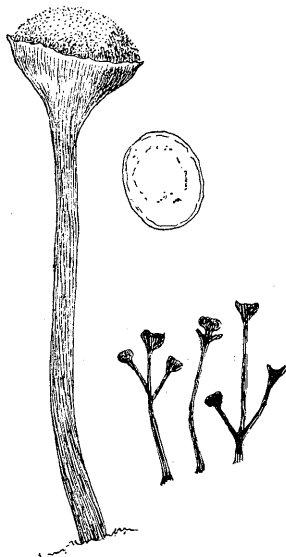


Fig. 1.

Chaenotheca brunneola (ACH.)
MÜLL. ARG.

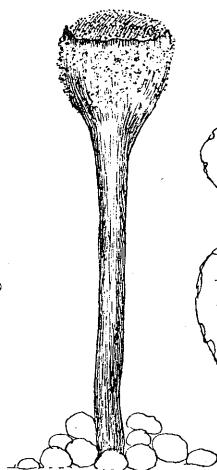


Fig. 2.

Chaenotheca chrysocephala
(TURN.) TH. FR.

2. *Chaenotheca brunneola* (ACH.) MÜLL. ARG.

Thallus evanescent, apothecia with long stalks, stalk 2-2.5 mm long, 0.08-0.17 mm thick, brownish black, naked, often bi- or trifurcate, capitulum 0.3 mm across, excipulum black and naked or very thinly

1) Materials for a Lichen Flora of Japan. I. Sendai (The Saito Gratitude Foundation) 1931.

brownish pruinose, sporal mass deep brown, spore globose, light brown, globose, simple, $3-3.5\mu$ thick. On decayed wood.

Localities. Prov. Shimotsuke (Nikko).

3. **Chaenotheca chrysocephala** (TURN.) TH. FR.

On bark. Localities. Prov. Shimotsuke (Nikko)

4. **Calicium Floerkei** A. ZAHLBR.

Thallus very thin, greyish white or evanescent. Apothecia black, non pruinose, stalk about 1 mm high, naked, capitulum globose or cup-shaped, 0.2-0.3 mm wide. Sporal mass black, spore oblongo-ellipsoidal or subfusiform,

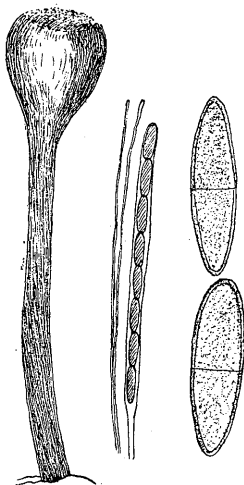


Fig. 3.
Calicium Floerkei A.
ZAHLBR.

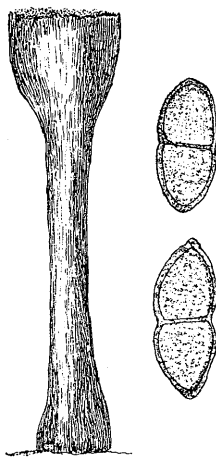


Fig. 4.
Calicium minutum KÖRB.
Apothecium and Spores.

brownish, both ends rounded, 1-septate, not constricted in the middle, sometimes simple, $7-10 \times 3-3.5\mu$ large. On decayed wood.

Localities. Prov. Shimotsuke (Nikko).

5. **Calicium minutum** KÖRB.

Thallus very thin, whitish or evanescent. Apothecia black, non pruinose, stalk naked, 0.9 mm high, 0.1-0.24 mm thick, sporal mass black, spore ellipsoid, dark brown, both ends obtuse, 1-septate, slightly constricted in the mid-

dle, $10-13 \times 5-7\mu$ large. On decayed wood.

Localities. Prov. Shimotsuke (Nikko). Prov. Suruga (Mt. Fuji)

6. **Calicium trabinellum** ACH.

Mat. I, No. 32 (*Calicium curtum* Borr)

The former determination is doubtful. Apothecia are light yellowish pruinose and other properties correspond with those of this species.

7. **Calicium adpersum** PERS.

Calicium sp. Mat. I, No. 34.

8. **Calicium subquercinum** nov. sp.

Calicium sp. Mat. I, No. 33.

Thallus tenuis, verruculosus, minutis, aut subleprosogranulosus, aut fere evanescens, glaucescentialbidus vel albidus. Gonidia protococcoidea. Apothecia (cum stipite) 0.75–1.2 mm alta, capitulo turbinato aut demum lenticulari, 0.2–0.4 mm lato. Excipulum extus plus minusve albo-pruinoseum aut in nonnullis apotheciis omnino nigrum. Stipes ater 0.1–0.2 mm crassus, hyphae stipitatis I+ intense coerulescentes. Paraphyses simplices, 1–1.5 μ crassae. Gelatina hymenialis I–. Sporae olivaceo-nigricantes, ellipsoideae, apicibus rotundatis, 1-septatae, medio non aut vix constrictae, 9–11 μ longae, 5–6 μ , crassae. Pycnidia atra punctiformia, Pycnoconidia oblonga, long. 4 μ , crass. 15 μ . Ad lignum emortuum nudum.

Localities. Prov. Idzu (Amagi), Sagami (Hakone), Shimotsuke (Nikko), Tosa.

Closely allied to *Calicium quercinum*, from which easily distinguished by the iodine reaction of hyphae of the stalk.

The capitulum becomes often difform and the disc irregularly turgid.

On examining LÖSCH's collection of German lichens I could, among specimens identi-

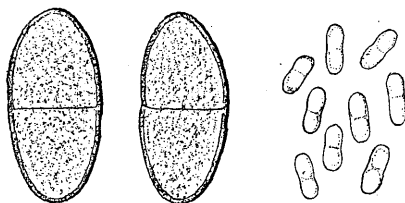


Fig. 5.

Calicium subquercinum n. sp.

a. Two spores

b. Pycnidiospores

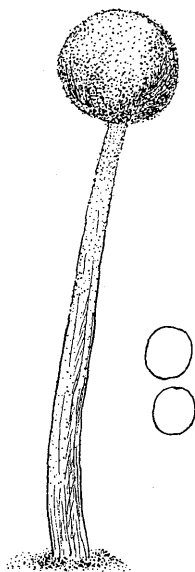


Fig. 6.

Coniocybe furfuracea ACH.

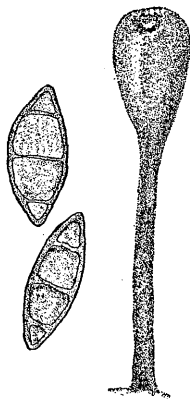


Fig. 7.

Stenocybe major NYL.



Fig. 8. a.

Cyhelium tigillare (PARS.)
TH. FR. Plants on wood

fied as *C. quercinum*, pick up several ones, which gave blue iodine reaction and no doubt belong to this new species.

9. *Coniocybe furfuracea* ACH.

Thallus thin, greenish yellow, powdery. Apothecia greenish yellow pruinose, stalk about 2.5 mm long, 60 μ thick in the middle part, capitulum globose, 0.25 mm wide, sporal mass brown, spore pale yellow, 3-3.5 μ wide. On bark.

Localities. Prov. Shimotsuke (Nikko).

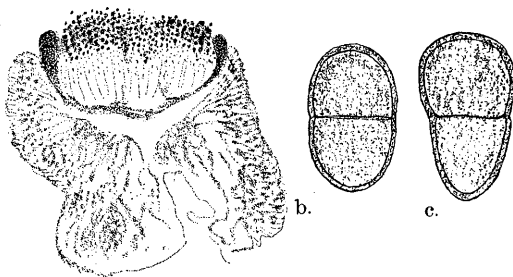


Fig. 8. b. c.

Cyphelium tigillare (PERS.) TH. FR.

b. Vertical section of apothecium
c. Two spores

10. *Stenocybe major* NYL.

Stenocybe euspora NYL. Lich. Jap. p. 16.

On bark.

Localities. Prov. Sagami (Hakone).

11. *Cyphelium tigillare* (PERS.) TH. FR.

On decayed wood.

Localities. Prov. Shimotsuke (Nikko).

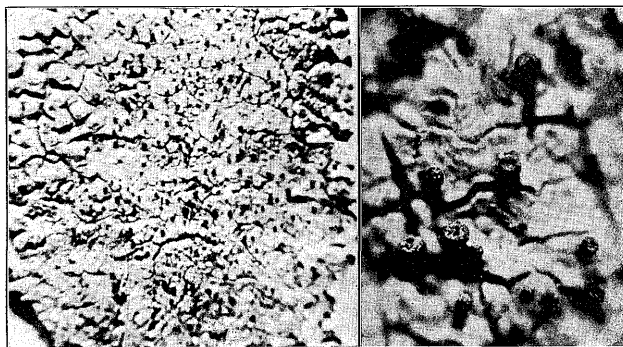


Fig. 9.

Sphinctrina tubaeformis MASS.

a. Plants on thallus of *Pertusaria*, ca $\times 5$
b. Apothecia $\times 15$

12. **Sphinctrina tubaeformis** MASS.
Mat. I, No. 36.

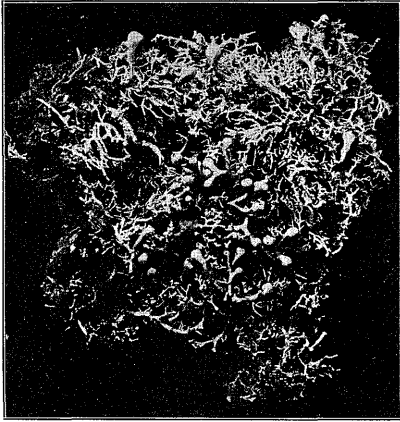


Fig. 10. a.
Sphaerophorus meiophorus
(NYL.) WAIN.
Plants on bark

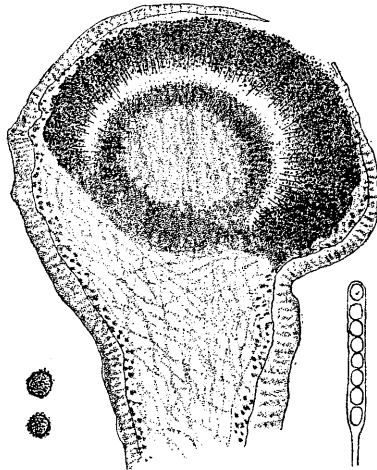


Fig. 10. b.
Sphaerophorus meiophorus
(NYL.) WAIN.
Vertical section of apothecium

13. **Sphaerophorus meiophorus** (NYL.) WAIN.
Tokyo Bot. Mag. XXXV, p. 74. 1921.
Sphaerophoron coralloides meiophorum NYL. Lich. Jap. p. 16.
Localities. Prov. Suruga (Mt. Fuji), Prov. Shimotsuke (Nikko).
14. **Sphaerophorus compressus** (ACH.) KOERB. Mat. I, No. 37.
Sphaerophoron compressum ACH. NYL. Lich. Jap. p. 16.

All the figures and photographs are delineated and taken by the author.
