

Fungal Flora in Bamboo Forests of Korea(II)

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韓國竹林產高等菌類(II)

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Abstract: More than 100 of higher fungi were collected and identified at the bamboo forest of Damyang, Chonlanam-Do, during July to October, 1979. They include two classes, four orders, 13 families, 21 genera and 25 species. Among them, *Leucocoprinus otsuensis* Hongo, *Lepiota atrosquamulosa* Hongo and *Rhodophyllus mycenoides* Hongo were found to be new in Korea.

Shidei (1974 and 1976) reported that the higher fungi belonging to *Aphyllphorales* were found, and those species of *Tricholomataceae*, *Agaricaceae* and *Hygrophyoraceae* were dominant species, but those species of *Amanitaceae* were not found in the bamboo forests. But in this study the fungi belonging to *Tricholomataceae* were dominant, and those of *Aphyllphorales* were not found except *Amanitaceae*.

I. Descriptions of new species in Korea

Leucocoprinus otsuensis Hongo 우산각지버섯(新稱)

Agaricaceae 주름버섯科

Hongo, *J. Jap. Bot.* 28, 70, f. 2, 1953.

Imazeki and Hongo, *Coloured Illustrations of Fungi of Japan*, Vol. 2, 48, Pl.21, f.114, 1965.

Pileus 4~5cm broad, plane but upcurved at margin, white, light brown at center, lustrous, scales of brown scattered toward center, furrow, easily fragil, flesh white, thin, taste and odor none. Lamellae 3~4mm wide, white, crowded, adnate. Stipe 3.5~5cm long, 3~5mm thick, white, equal, brown scales scattered on surface, scales of white scattered upward, bent, hollow white. Spores 8.5(7.2)-10.0(11.4)×4.3(3.6)-5.7(6.4) μ m, darkish brown under microscope, scope, nonamyloid, truncate, germ pore present, enclosed one or two oildrops.

Habitat: Clustered on roots of bamboo.

Dister.: Korea(Damyang), Japan.

Lepiota atrosquamulosa Hongo 검은비늘갓버섯(新稱)

Agaricaceae 주름버섯科

Imazeki and Hongo, *Coloured Illustrations of Fungi of Japan*, vol. 2, 49, pl. 15, f.92, 1965.

Pileus 2.1~2.3cm broad, round mountain-shaped to plane, cellulous, scales of dark yellowish brown or dark scattered on surface, deep dark toward center, flesh thin, white. Lamellae 3.5mm or more wide, white mixed gray or reddish brown, crowded, sinuate. Stipe 3.3~4cm long, 1.5~2mm thick, equal, smooth, white, bent, annulus white, membranous, easily vanished, hollow. Spores 5.0-7.2×2.9-4.3 μ m, elliptical or subglabulor, yellowish brown under microscope, pseudoamyloid, basidia 15.7-18.6×5.7-7.2 μ m, fusoid.

Habitat: Clustered on soils of bamboo forests.

Dister.: Korea (Damyang), Japan.

Rhodophyllus mycenoides Hongo 잣꼭지외대버섯(新稱)

Rhodophyllaceae 외대버섯科

Hongo, *J. Jap. Bot.* 31:253, f.2, c-f, 1956.

Imazeki and Hongo, *Coloured Illustrations of Fungi*

of Japan, vol. 2, 87, pl. 26, f. 168, 1965.

Pileus 1.4~3mm broad, conic-shaped to round mountain-shaped, papillate, cellulose, dull yellow orange or grayish yellow brown, yellowish brown toward center, lamellae visible through flesh when wet, vividly, irregular at margin, flesh thin, white. Lamellae 1.5~4mm wide, light gray or pale brown, crowded, adnexed but sinuate when young. Stipe 2.7~5.5cm long, 1~2mm thick, equal, bent, concolorous with the pileus, smooth, hollow, white. Spores 6.7~10.0×5.7~8.6μm, angular, white under the microscope, spore print reddish brown, nonamyloid, enclosed one oil drop, basidia 30.7~40.8×10.0~12.9 μm, clavate.

Habitat: Clustered on leaf of bamboo forests and soils.

Dister.: Korea (Damyang), Japan.

II. The List of Higher Fungi

Basidiomycetes 擔子菌綱

Homobasidiae 同擔子菌亞綱

Hymenomycetes 菌蕈類

Agaricales 주름버섯목

Tricholomataceae 송이목

1. *Collybia maculata* (Fr.) Kummer 결박이 애기 버섯
2. *Crinipellis stipitaria* (Fr.) Pat. 털가죽버섯
3. *Laccaria amethystina* (Fr.) Berk. et Br. 자주 졸각 버섯
4. *Lepista subnuda* Hongo 자주 방망이 버섯 아재비
5. *Mycena pura* (Pers. ex Fr.) Que' l. 맑은애 주름 버섯
6. *M. alcalina* (Fr.) Que' l. 약취 애주름 버섯
7. *Marasmius maxmus* Hongo 큰 낙엽 버섯

Amanitaceae 광대버섯목

8. *Amanita griseofarinosa* Hongo 잿빛가루 광대버섯
9. *A. inaurata* Secr. 결박이 광대버섯

Agaricaceae 주름버섯목

10. *Agaricus campestris* Fr. 주름버섯
11. *A. subrutilescens* (Kauffm.) Hotson et Stuntz. 진갈색 주름버섯
12. *Leucocoprinus otsuensis* Hongo 우산각시버섯

13. *Lepiota atrosquamulosa* Hongo 비늘 갓버섯 Copriniaceae 먹물버섯목

14. *Psathyrella hydrophila* (Fr.) A.H. Smith
다람쥐 눈물버섯

Bolbitiaceae 소똥버섯목

15. *Conocybe lactea* (Lange) Metrod 노란똥버섯
16. *Agrocybe arvalis* (Fr.) Sing. 에기뻗질 버섯

Strophariaceae 독청버섯목

17. *Pholiota spumosa* (Fr.) Sing. 노란갓 비늘버섯

Cortinariaceae 끈적버섯목

18. *Cortinarius salor* Fr. 푸른 끈적 버섯

Rhodophyllaceae 외대버섯목

19. *Rhodophyllus mycenoides* Hongo

Russulaceae 무당버섯목

20. *Russula adusta* (Fr.) Fr. 흑갈색 무당버섯
21. *R. emetica* (Fr.) S.F. Gray 무당버섯

Gastromycetes 腹菌類

Lycoperdales 말불버섯목

Lycoperdaceae 말불버섯목

22. *Lycoperdon perlatum* Pers. 말불버섯

Phallales 말뚝버섯목

Phallaceae 말뚝버섯목

23. *Phallus rugulosus* (Fisch.) Kunze 붉은 말뚝버섯

Clathraceae 바구니버섯목

24. *Linderia bicolumnata* (Lloyd) Cunn.
계발톱 버섯

Ascomycetes 子囊菌綱

Sphaeriales 콩버섯목

Xylariaceae 콩꼬투리버섯목

25. *Xylaria polymorpha* (Pers.) Grev. 콩꼬투리버섯

摘 要

1979年 7月부터 10월까지 全南 潭陽郡內의 竹林에서 高等 菌類 100餘點을 採集하여 同定한 結果 *Leucocoprinus otsuensis* Hongo, *Lepiota atrosquamulosa* Hongo, *Rhodophyllus mycenoides* Hongo의 韓國 未記錄種을 包含하여 2綱 4目 13科 21屬 25種을 確認하였다.

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Explanation of Plate

Leucocoprinus otsuensis Hongo

A-1, Carpophores $\times 1/3$ A-2, Spores

Lepiota atosquamulosa Hongo

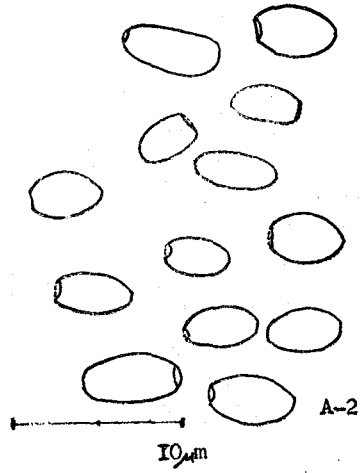
B-1, Carpophores B-2, Spores B-3, Basidia

Rhodophyllus mycenoides Hongo

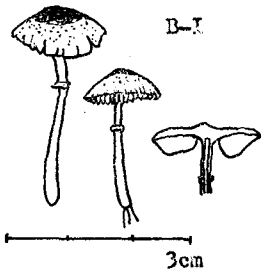
C-1, Carpophores C-2, Spores C-3, Basidia



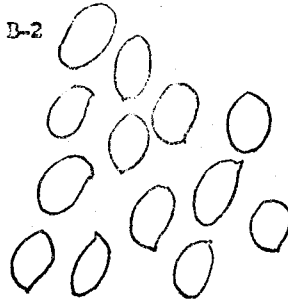
A-1



A-2

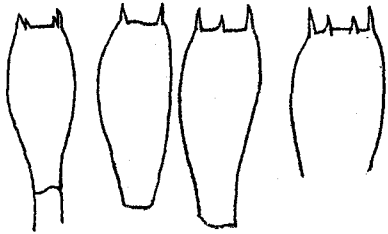


B-1

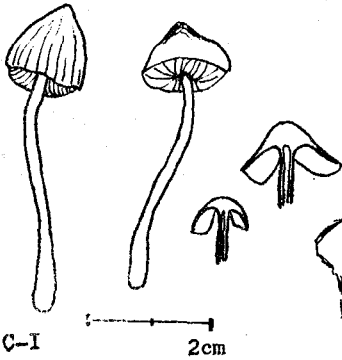


B-2

B-3

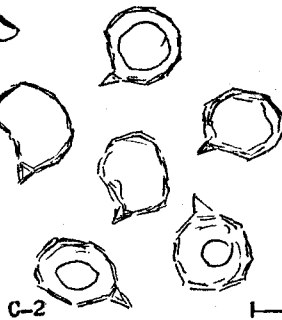


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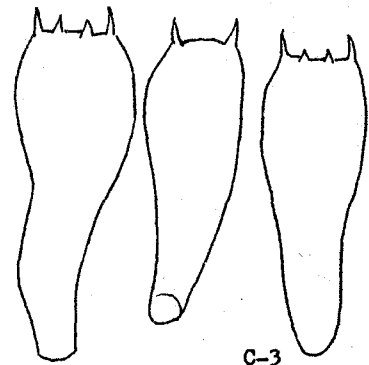


C-1

2cm



C-2



C-3

30µm