

Notes on the Korean Higher Fungi (IX)

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韓國產 高等菌類記 (IX)

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Abstract

Many higher fungi were collected at Mt. Manduck, Mt. Duckyo and Mt. Jiri from June, 1990 to October, 1991. These higher fungi were identified. According to the resulting, following genus and species are newly to Korea : genus of *Strobilurus* and species of *Strobilurus oshimae*, *Mycena chlorophos*, *Marasmius pulcherripes*, *Pholiota astragalina*, *Cortinarous subedibutus* and *Boletellus schichanius*.

Keywords : *Strobilurus*, *Strobilurus oshimae*, *Mycena chlorophos*, *Marasmius pulcherripes*, *Pholiota astragalina*, *Cortinarous subedibutus* and *Boletellus schichanius*.

Genus *Strobilurus* 솔버섯속 (신칭)

Singer, *Persoonia* 2 : 409, 1962

Carpophores collyboid, epicutis hymeniform, dermatocystidida present in the pileus and stipe, spore print white, nonamyloid, small to medium size, ellipsoid to oblong, clamp connection absent, often muricate cystidia present pleuro- and cheilocystidia.

Habit & Habitat : Cones of conifers, fallen branch of tree, fruit.

Strobilurus oshimae (Hongo & Matusda) Hongo 가지솔버섯 (신칭)

Imazeki & Hongo, Coll. Ill. Mush. Jap. Vol. I, 99, P.22, Fig.156, 1987.

Pileus 2.0-4.0cm broad, broad convex to palne convex, disc depressed, fine downy, viscid absent, white, grayish white. lamellae free, white, more or less crowded, sparse. Stipe 3.5-8.0 long, 1.5-3.5mm thick, yellowish brown, fine downy, hollow, base bulbous.

Spores 6.0-7.5×3.0-4.0 μ M, elliptical, rarely with one oil drop. Basidia 16.3-20×5.0-6.3 μ M, clavate, fusoid. Pleurocystidia 37.5-52.5×11.3-15 μ M, ventricose, clavate, flask-form. Cheilocystidida 45-55×11.3-17.5 μ M, flask-form, ventricose, slender at end.

Habit and habitat : Clustered on fallen trees of conifers from early summer.

Distribution : Mt. Manduck(Korea).

Specimens studied : CHO-2058 collected at Mt. Manduck from on the 15th, June of 1991.

Discussions : Hongo reported that this species developed from autumn to early winter

Mycena chlorophos (Berk. & Curt.) Sacc. 야광애주름버섯(신칭)

Saccardo, *Syll. Fung.* 50 : 301, 1887.

Agaricus chlorophos Berk. et curt. *Proc. Am. Acad. Arts Sci.* 4 : 113, 1858.

Pileus 1.0-3.0cm broad, broad convex to plane, light gray striate when wet from margin to disc, gelatinous, very viscid. Lamellae free, more or less crowded, white to gray. Stipe 1.5-2.5cm long, 1-2mm thick, fine farinaceous, cartilaginous, white, hollow, fibrinous.

Spore 7.0-9.0×4.2-5.5 μ M, broad elliptical, amyloid. Basidia 20-30×3.8-6.3 μ M, subhymenium suboblong. Cheilocystidia 70-87.5×25-30 μ M, fusoid-form, ventricose.

Habit and habitat : Clustered on rotten wood or fallen branch tree during summer, luminous at night.

Distribution : Mt. Manduck(Korea).

Specimens studied : CHO-2112 collected at Mt. Manduck on the 4th, July of 1991.

Marasmius pulcherripes Peck 예쁜낙엽버섯(신칭)

Imazeki & Hongo, *Coll. Ill. Mush. Vol. I.* 101, p1.23, fig.160, 1987.

Plileus 8.0-15mm broad, bell-sharped, convex to plane, disc small papillose, brownish pink to purple pinkish, soil brown, rarely yellowish brown, striate of fine furrow from margin to disc. Context thin, cortical. Lamellae very sparse, adnate, free. Stipe 4.0-7.0cm long, 0.5-0.7mm thick, cylindrical, tough, smooth, darkish brown, upwards white.

Spores 13-16×3.0-4.0 μ M, clavate, kidney-form. Basidia 27.5-37.5×5.0(-2.5)-6.3 μ M, clavate. Cystidia 12.5-22.5×5.0-10(-3.8) μ M, broom-form. Hyphae from lamellae trama 20-45×3.8-5.0 μ M, filamentous, rarely branching.

Habit and habitat : Clustered on fallen leaves of mixed forests.

Distroibutions : Mt. Duckyoo National Park.

Specimens studies : Cho-2103 collected at Duckyoo National Park on the 16th, June of 1991.

Pholiota astragalina (Fr.) Sing. 빨강비늘버섯(신칭)

Singer, *Agaricales*, 516, 1949.

Agaricus astragalina Fr. *Syst. Myc.* 1 : 251, 1821.

Pileus 5.0-8.0cm broad, convex to palne, disc small papillose, reddish pink, margine light reddish pink, viscid when wet, margin attaching whitish scales, vanish with age. Context light yellowish, bitter. Lamellae adnate, crowded, light yellow. Stipe 6.0-9.0cm long, 5.0-8.0mm thick, cylindrical, whitish yellow, downwards reddish pink, floccose, fibrinous.

Spore 6.0-7.5-4.0-5.0 μ M, elliptical, prominent, nonamyloid, spore print brown. Basidia 15-18.8×5.0-6.3 μ M, clavate. Cystidia 22.5-35×7.5-11.3 μ M, flask form, ventricose.

Habit and habitat : Cespitose or solitary on trunk of tree and rotten wood from early summer to autumn.

Distributions : Mt. Manduck(Korea)

Specimens studied : CHO-2081 collected at Mt. Manduck on the 26th June of 1991.

Cortinarius subdelibutus Hongo 물근적버섯아재비(신칭)

Imazeki & Hongo, Coll. Ill. Mush. Jap. Vol. I . 235, pl.59, fig.421, 1987.

Pileus 2.0-6.3cm broad, broad convex to palne, light yellowish brown, disc brown, viscid. Context yellowish brown, none taste, none odor. Lamellae sinuate, adnat with decurrent, yellow to cinnamon, more or less sparse. Stipe 3.0-8.5cm long, 3.5-7.0mm thick, base more or less bulbous, yellowish brown, viscid, upwards fine farinaceous, hollow.

Spore 7.0-8.5×4.5-5.5(-6.0) μ M, elliptical, with fine warts. Basidia 25-30×5.0-6.3 μ M, clavate, often with pigment. Hyphae from lamellae trama 30-65×5.0-7.5 μ M at filament, with clamp connection, 42.5-75×10-20 μ M at bulb, flask-form, fusoid, with clamp connection.

Habit and habitat : Clustered on soil of *Pinus densiflora* or among moss at autumn. Edible.

Distribution : Manduck(Korea).

Specimens studied : CHO-1060 collected at Mt. Manduck on 25th, June of 1991.

Discussions : This species is smilier to *C. delibutus* which pileus is light yellow, lamellae purple at first.

Boletellus shichianus (Teng & Ling) Ting 가시노랑그물버섯(신칭)

Imaz & Hongom, Coll. Ill. Mush. Vol. I , 283, pl.72, fig.514, 1987.

Pileus 2.0-3.0cm broad, convex to plane, yellowish brown, disc yellowish brown with purple, with fine scale, fine granular. Context thin, light yellowish, light brown, color not changing when cut with knife. Rerely more or less blue when cut with knife. Pore larger, adnate more or less decurrent, yellowish to olive color, color not changing when cut with knife, multi-angular, bluish purple becoming when bruised, Stipe 4.0-7.0cm long, 2.0-4.0mm thick, base more or less bulbous, elsewhere cylindrical, fibrinous, ambiguity striate, ambiguity net, yellowish brown or brown, upwards yellow, base attaching light yellow hyphae, solid.

Spore 9.0-14.3×6.5-8.0 μ M broad elliptical, with blunt projection, spore print olive, net, fine warts, nonamyloid. Basidia 32.5-45×7.5-10 μ M, clavate. Cheilocystidia 60-85×10-12.5 μ M, subcylindrical. Spore wall Pellicle. Pleurocystidia 82.5-120×10-12.5 μ M, pellicle. Hyphae from pore trama 37.5-70×8.8-11.3 μ M, cylindrical, globose cell 22.5-27.5×20-22.5 μ M. Clamp connection absent.

Habit and habitat : Solitary or clustered on soils of mixed forests.

Distributions : Manduck(Korea).

Specimens studied : CHO-2169 collected at Mt. Manduck on the 11th, July of 1991.

摘 要

많은 고등균류가 1990년 9월부터 1991년 10월 까지 만덕산, 덕유산, 지리산에서 채집되었다.

이 고등균류들을 동정한 결과 *Strobilurus*(술버섯속)은 한국산 미기록속이었다. 그리고 *Strobilurus*

oshimae(가지술버섯), *Mycena chlorophos*(야광애주름버섯), *Mmarasmius pulcherripes*(예쁜낙엽버섯), *Pholiota astragalina*(빨강비늘버섯), *Cortinarius subdelibutus*(물근적버섯아재비), *Boletellus shichianus*(가시노랑그물버섯)은 한국산 미기록종으로 확인되었다.

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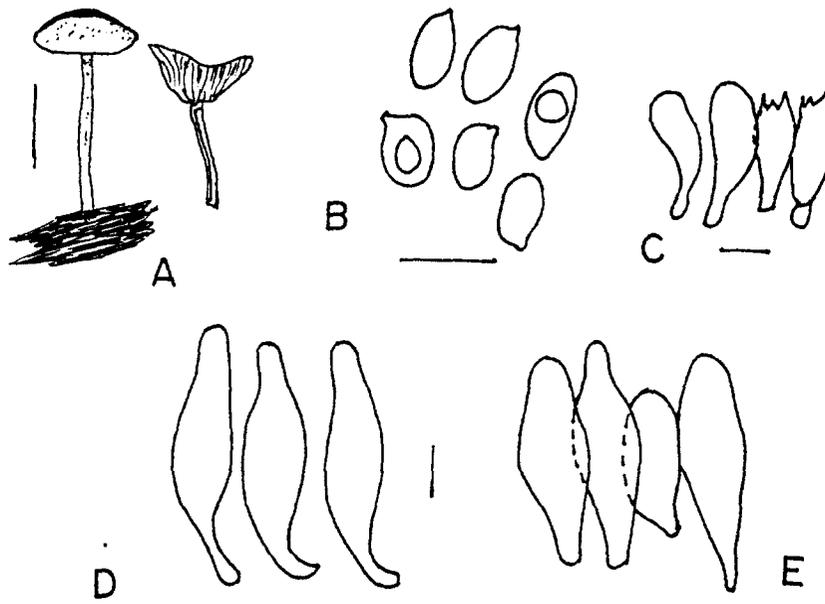


Fig. 1. *Strobilurus oshimae*

A. Carpophores (bar : 1cm), B. Spores, C. Basidia,
D. Cheilocystidia, E. Pleurocystidia (B-E, bar : 10 μ M)

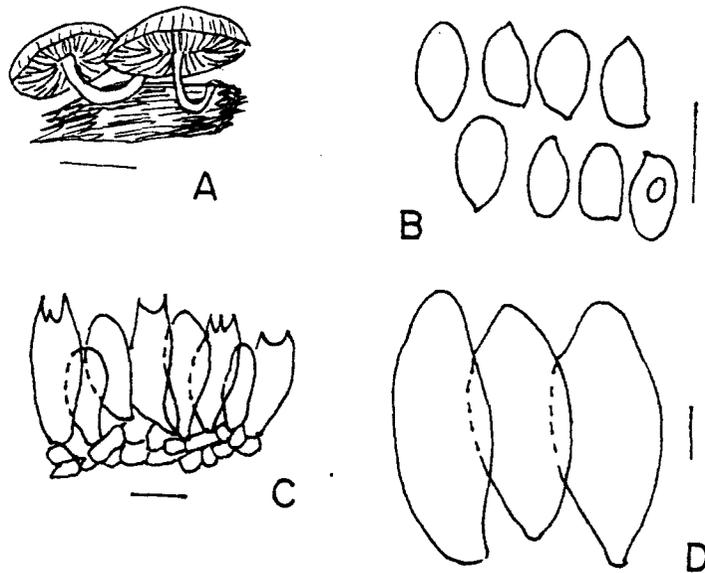


Fig. 2. *Mycena chlorophos*

A. Carpophores (bar : 1cm), B. Spores, C. Basidia,
D. Cheilocystidia (B-D, bar : 10 μ M)

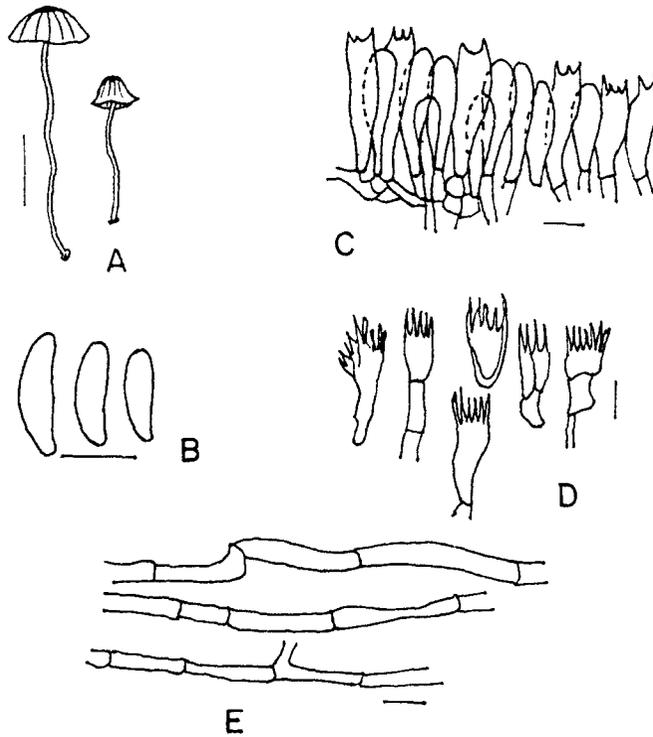


Fig. 3. *Marasmius pulcherripes*
 A. Carpophores (bar : 1cm), B. Spores, C. Basidia,
 D. Cystidia, E. Hyphae from lamellae trama (B-E, bar : 10 μ M)

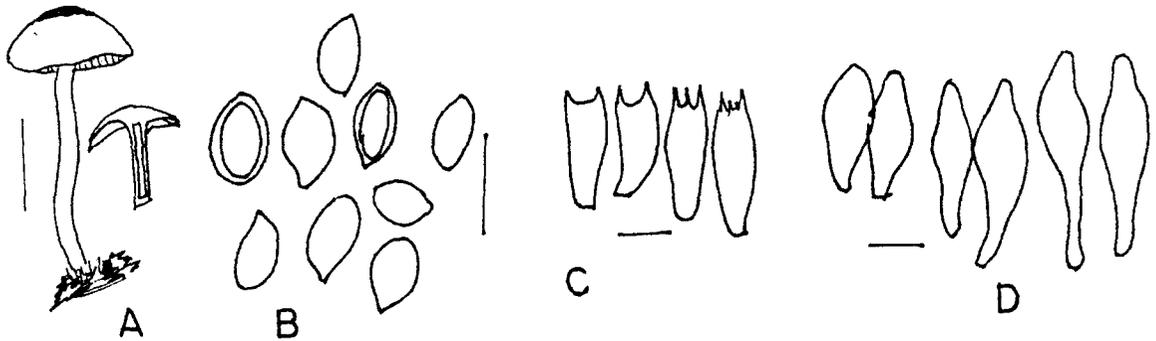


Fig. 4. *Pholiota astragalina*
 A. Carpophores (bar : 1cm), B. Spores, C. Basidia
 D. Cystidia (B-D, bar : 10 μ M)

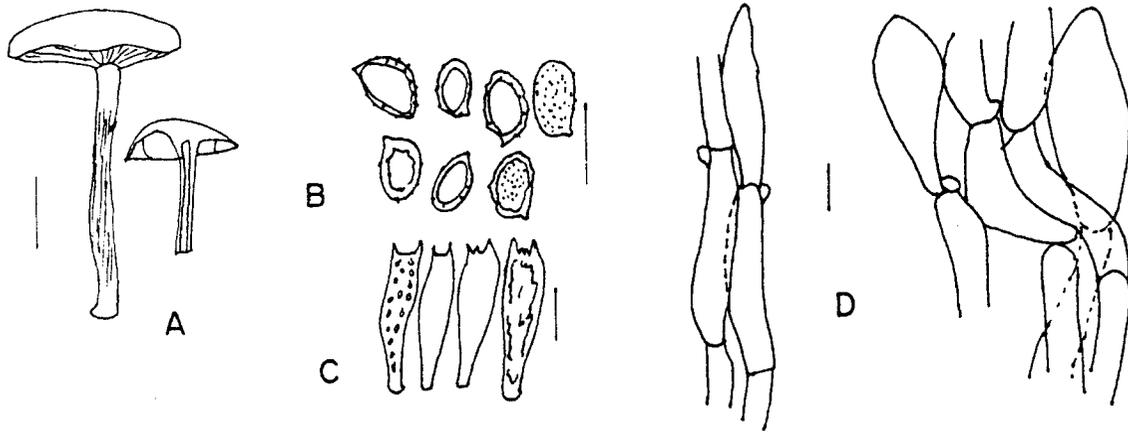


Fig. 5. *Cortinarius subdelibutus*
 A. Carpophores (bar : 1cm), B. Spores, C. Basidia
 D. Hyphae from lamellae trama (B-D, bar : 10 μ M)

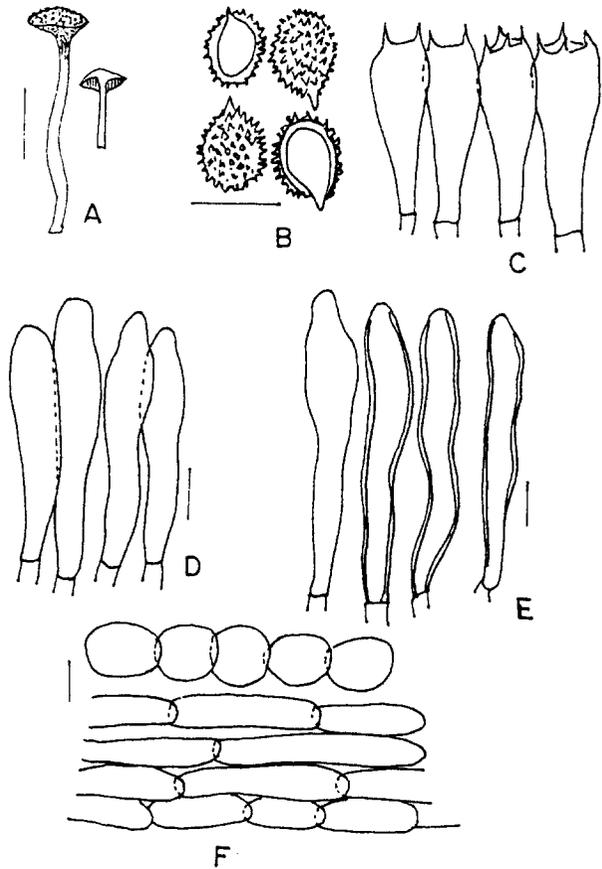


Fig. 6. *Boletelus shichianus*
 A. Carpophores (bar : 1cm), B. Basidia, C. Chilocystidia
 D. Pleurocystidia, E. Hyphae from lamellae trama (B-E, bar : 10 μ M)