

Taxonomical Studies on Discomycetes in Korea(II)

Pyoung-Jae Park, Ji-Yul Lee* and Yoshio Otani**

Suweon Girl's High School, Suweon 170, Chonju National Teacher's College*,
Chonju 520, Korea and National Science Museum,** 7-20 Ueno, Daito-Ku, Tokyo, Japan

韓國產 盤菌綱의 分類學的 研究(II)

朴平濟·李址烈*·大谷吉雄**

水原女子高等學校·全州教育大學*·日本 東京都 國立科學博物館**

Abstract: Thirty specimens of Discomycetes collected at Mt. Chiri and Gwang-neung from April to October, 1985 were identified and classified into two orders, six families, nine genera and 10 species. Among them, *Otidea alutacea* (Fr.) Bres. var. *alutacea*, *Galiella celebica* (P. Henn.) Nannf., *Microglossum rufum* (Schw.) Underw. and *Cyathicula aquilina* (Rehm) Sacc. were newly recorded in Korea. These species were described and their Korean names were designated.

Keywords: Discomycetes, *Otidea alutacea* var. *alutacea*, *Galiella celebica*, *Microglossum rufum*, *Cyathicula aquilina*.

Pezizales

Pyronemataceae 피로네마과

Otidea 재진귀버섯屬(新稱)

Otidea alutacea (Fr.) Bres. var. *alutacea* 주머니재진귀버섯(新稱)

Otidea alutacea (Fr.) Bres. var. *typica* Kano-use, *Mycol.* 41:667, 1949. *Otidea alutacea* (Pers.) Masee, *Brit. Fung. Fl.* 4:446, 1895—Dennis, *Brit. Cup Fungi* 17, Pl. V(B), 1960; *Brit. Ascom.* 25, Pl. V(B), 1968. Otani, *Tran. Myc. Soc. Jap.* 9:103, 1969.

Apothecia solitary, splitting down to the base one side, with split edge rolled inward, short stipitate, 3.0~4.0 cm in diam., 6 cm in height, exterior ochre, hymenium pale ochre, fragile. Ectal excipulum 70.0~75.0 μ m in thickness, *textura angularis*, cells being 15.0~25.0 μ m in diam.: medullary excipulum 450~500 μ m, sept-

ate, branched. Asci cylindrical, uni-seriate, containing 8-ascospores, not blued at the tip by Melzer's reagent, 9.0~12.0 \times 150.0~200.0 μ m. Ascospores elliptical, smooth, hyaline, usually with 2-oil drops, 14.0~16.0 \times 6.0~7.5 μ m. Paraphyses filiform, septate, 3.0 μ m in diam., with granules, hooked at the tip.

Hab. On the ground in woods, August.

Distr. Korea (Mt. Chiri), Japan, North America and Europe

Sarcosomataceae 털고무버섯과

Galiella 털고무버섯屬(新稱)

Galiella celebica (P. Henn.) Nannf. 갈색털고무버섯(新稱)

In Korf, *Mycol.* 49:108, 1957. Otani, *Tran. Myc. Soc. Jap.* 21:173, 1980.

Apothecia solitary, sessile, hemispherical or turbinate, up to 6.5 cm in diam., 5 cm in height, hymenium slightly concave, brown, outer surface dark brown, covered with dark brownish hairs.

Ectal excipulum 40~60 μm in thickness, textura angularis, consisting of 2~3 layers of the angular cells. Cells 15~20 μm in size, dark brown; medullary excipulum 1,000~1,200 μm thick, loosely textura intricata. Hairs arising from the ectal layers, purplish brown or dark brown, septate, some swollen, 600~900 \times 40~50 μm . Asci cylindrical with gradually tapering bases, uni-seriate, containing 8-ascospores, not blued at the tip by Melzer's reagent, 500~550 \times 12.5~17.5 μm . Ascospores elliptical, often unequal-sided, hyaline, containing one large oil drop and two smaller ones, warty, 32.5~39.0 \times 12.5~17.0 μm . Paraphyses filiform, septate, up to 5.0 μm thick at the tip, filled with brown granules.

Hab. On slightly decayed sticks in woods,

August

Distr. Korea (Mt. Chiri), Japan, North America and Europe

Helotiales

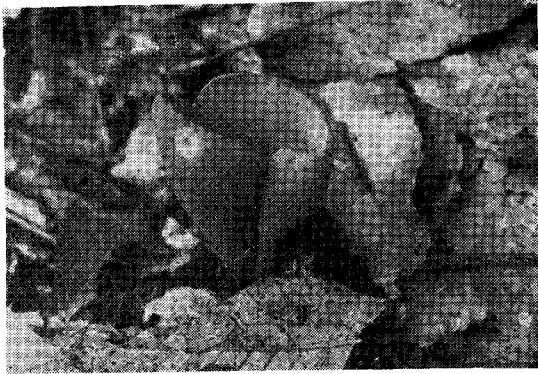
Geoglossaceae 콩나물버섯 科

Microglossum 줌콩나물버섯屬(新稱)

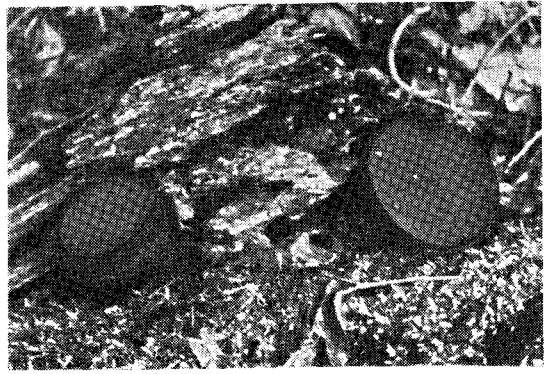
Microglossum rufum (Schw.) Underw. 노란 줌콩나물버섯(新稱)

Minn. Bot. Studies 1:496, 1896.

Fruit bodies solitary or gregarious, clavate, 4~5 cm in height, fertile head occupying about one-half the total length, continuous with the stalk but sharply delimited by color, yellow to orange or pale orange, usually compressed,



A



B



C



D

Plate I

A. *Otidea alutacea* (Fr.) Bres. var. *alutacea*
C. *Microglossum rufum* (Schw.) Underw.

B. *Galiella celebica* (P. Henn.) Nannf.
D. *Cyathicula aquilina* (Rehm) Sacc.

longitudinally furrowed, up to 2 cm long, 5~7 mm wide. Stalk slende, cylindrical, light yellow to ochre. Asci clavate-cylindrical, bi-seriate, containing 8-ascospores, blued at the tip by Melzer's reagent, 125.0~132.0×10.0~12.0 μm. Ascospores cylindric or slightly narrowed toward the obtuse ends, straight or curved, smooth, hyaline, 6~7 septate, 22.5~35.0×4.0~5.0 μm. Paraphyses filiform, septate, branched, slightly swollen and curved at the tip.

Hab. On rottenwood, August

Distr. Korea (Mt. Chiri), Japan and North America

Helotiaceae 고무버섯과

Cyathicula 자루술잔버섯屬

Cyathicula aquilina (Rehm) Sacc. 이자루술잔버섯 (新稱)

Syll. Fung. 8:307, 1889. *Myc.* 39:635-689, 1947.

Apothecia gregarious, sessile, at first subglobose, gradually expanding and becoming discoid, up to 6 mm in diam., 2.5 mm deep, hymenium white or pale orange throughout, translucent, marginal hairs in tooth-like fascicles, measuring up to 22.5×340~580 μm, outside of the apothecium smooth. Asci cylindrical, uni-seriate or

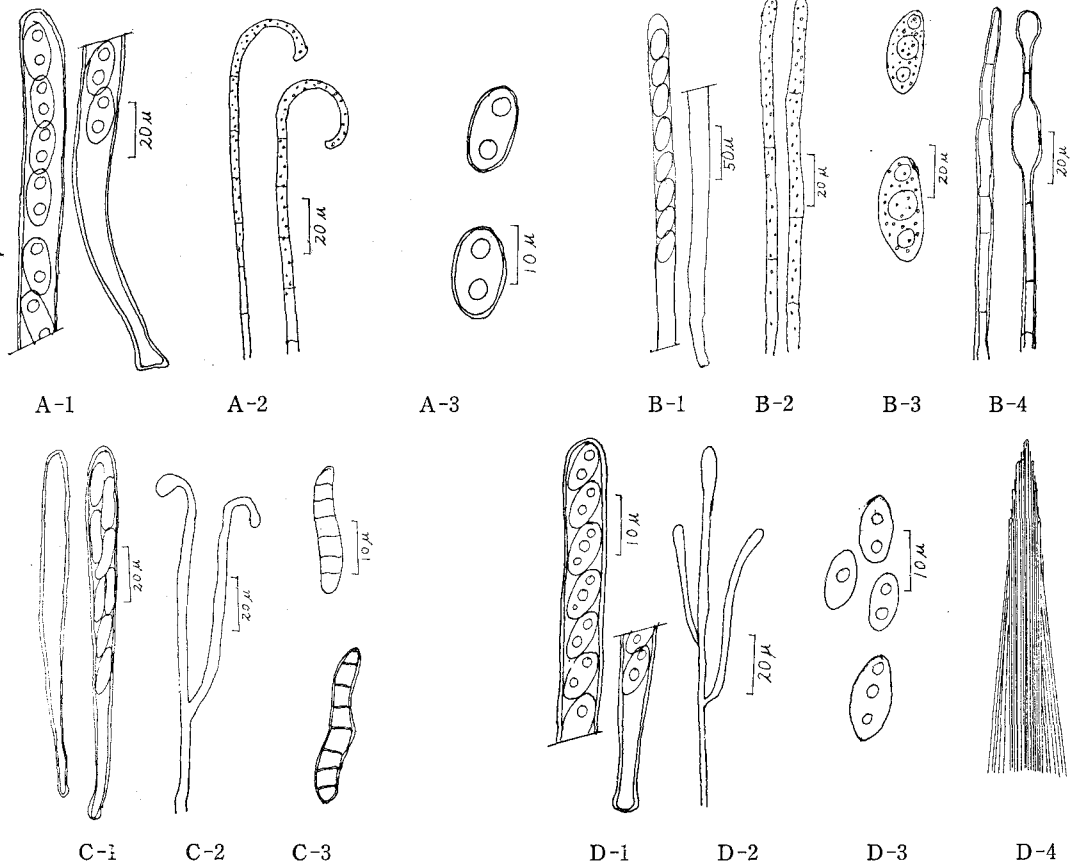


Plate II

- A. *Otidea alutacea* (Fr.) Bres. var. *alutacea*: A-1 ascus; A-2 paraphyses; A-3 ascospores.
- B. *Galiella celebica* (P. Henn.) Nannf.: B-1 ascus; B-2 paraphyses; B-3 ascospores; B-4 hairs.
- C. *Microglossum rufum* (Schw.) Underw.: C-1 ascus; C-2 paraphyses; C-3 ascospores.
- D. *Cyathicula aquilina* (Rehm) Sacc.: D-1 ascus; D-2 paraphyses; D-3 ascospores; D-4 fasciculate hair.

bi-seriate, containing 8-ascospores, blued at the tip by Melzer's reagent, $70.0\sim 86.0\times 6.0\sim 7.5\ \mu\text{m}$. Ascospores elliptical-fusiform, smooth, hyaline, with 1~3 oil drops, $10.0\sim 15.0\times 4.0\sim 4.5\ \mu\text{m}$. Paraphyses filiform, septate, branched, $2.0\sim 2.5\ \mu\text{m}$ at the tip.

Hab. On the soil in *Pinus koraiensis* woods, decayed leaf of *Pinus koraiensis*, October

Distr. Korea(Gwangneung) and North America
Aleuria aurantia (Fr.) Fuckel, *Leotia lubrica* (Scop.) Pers., *Cudonia circinans* (Pers.) Fr., *Scutellinia scutellata* (L. ex St. Amans) Lambotte, *Humaria hemisphaerica* (Wiggers ex Fr.) Fuckel, *Trichoglossum hirstum* (Pers. ex Fr.) Boud. (These were collected at Mt. Chiri.)

摘 要

1985년 4월부터 10월까지 智異山과 光陵에서 採集한 30점의 盤菌綱중에서 일부를 同定한 結果 2目 6科 9屬 10種으로 分類되었는데, 그중에서 *Otidea alutacea* (Fr.) Bres. var. *alutacea*, *Galiella celebica* (P. Henn.) Nanff., *Microglossum rufum* (Schw.) Underw. and

Cyathicula aquilina (Rehm) Sacc.는 韓國 未記錄種이며, 그 普通名과 記載를 報告한다.

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