

## Taxonomical Studies on Discomycetes in Korea(III)

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## 韓國產 盤菌綱의 分類學的研究(III)

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**ABSTRACT:** Twenty three specimens of Discomycetes were collected at Gwangneung, Mt. Chiri, Mt. Halla and Mt. Odae from June, 1986 to October, 1987. These Discomycetes were identified and classified into 2 orders, 5 families, 10 genera and 10 species. Among them, *Pachyella clypeata*(Schw.) Le Gal, *Microstoma floccosa*(Schw.) Raitvii and *Microglossum viride*(Pers. ex Fr.) Gill. were newly recorded in Korea. These species were described and their Korean names were designated.

**KEYWORDS:** Korean Discomycetes, *Pachyella clypeata*, *Microstoma floccosa*, *Microglossum viride*

### Pezizales 주발버섯目

#### Pezizaceae 주발버섯科

*Pachyella* 정반버섯속(新稱)

*Pachyella clypeata*(Schw.) Le Gal 방패꼴 쟁반버섯(新稱)

Prodr. Flore Mycol. Madagascar, 4:27. 1953-Pfister, Can. J. Bot, 51:2016. 1973. *Peziza clypeata* Schw., Schrift. Naturf. Ges. Leipzig, 1:117. 1822. *Discina clypeata*(Schw.) Sacc., Syll. Fung. 8:101. 1889. *Psilopeziza orbicularis*(Peck) Dodge, Trans. Wis. Acad. Sci. 17:1052. 1914.

Apothecia discoid, sessile, becoming somewhat undulating, furrowed toward the center, broadly attached along the base nearly to the margin, solitary, hymenium dark brown, outer surface golden grey.

Ectal excipulum textura golbulosa, 3-5 cells thick, 130-150  $\mu\text{m}$  thick, terminating in hyphoid hairs up to 400-600  $\mu\text{m}$  long. Medullary excipulum textura intricata, 1200-1300  $\mu\text{m}$  thick. Asci cylindric, uni-seriate, containing 8-ascospores, upper part diffusely blued by Melzer's reagent, 375-390  $\times$  17.5-20  $\mu\text{m}$ . Ascospores elliptical, smooth, hyaline, containing two-large oil drops and guttules, 22. 5-25.0  $\times$  12.5-15.0  $\mu\text{m}$ . Paraphyses slightly clavate,

septate, extending beyond the asci, up to 7.0  $\mu\text{m}$  thick at the tip, filled with greenish yellow granules.

Hab. On wet bark of *Salix*, October

Distr. Korea(Gwangneung), Japan and North America

#### Sarcoscyphaceae 솔잔버섯科

*Microstoma* 작은입술잔버섯속(新稱)

*Microstoma floccosa*(Schw.) Raitvii 털작은입술잔버섯(新稱)

Eesti NSV Teaduste Akad. Toimetised, Biol. ser. 14:529, 1965-Otani, in Picture Encycl. Gakuken(Tokyo) 10:109, 206. 1972. *Peziza floccosa* Schw., Trans. Amer. Phil. Soc. II, 4:172, 1834.-Cooke, Mycogr. 56, 1876. *Sarcoscypha floccosa*(Schw.) Sacc., Syll. Fung. 8:156. 1889-Kawamura, Icon. Jap. Fung. 7:743, 1954-Tai, Syll. Fung. Sinicorum 305. 1979. *Geopyxis floccosa*(Schw.) Morgan, J. Mycol. 8: 188. 1902. *Plectania floccosa*(Schw.) Seaver, N. Amer. Cup fun.(operc.) 192. 1928-K. Ito, Bot. and Zool.(Japan) 11:671. 1943. *Anthopeziza floccosa*(Schw.) Kanouse, Mycol. 40:491. 1948.

Apothecia clustered, arising from pseudorhiza (usually attached to buried sticks), cup shaped with a concave disc about 0.7-1 cm in diam., 0.8-1 cm deep, hymenium reddish, exterior light orange,



Plate 1.

- A. *Pachyella clypeata*(Schw.) Le Gal  
 B. *Microstoma floccosa*(Schw.) Raitviiir  
 C. *Microglossum viride*(Pers. ex Fr.) Gill

externally clothed with long, rigid and white hairs, then the apothecium with shaggy appearance, stem slender, 1.2-2.0 cm long. Hairs 12.5-17.5 mm in diam. at the base, gradually tapering into an apex, septate, thick walled. Ectal excipulum textura angularis, medullary excipulum 40 mm in thickness, textura intricata, subhymenium textura porrecta. Ascii cylindric, rather abruptly narrowed into

a long stem-like base, uni-seriate, containing 8 ascospores, not blued at the tip by Melzer's reagent, 350-400×15-20 mm. Ascospores elliptical or long elliptical, containing 4-6 large and small oil drops, smooth, 22-30×12.5-17 mm. Paraphyses slender, branched 2-4 times, septate.

Hab. On buried sticks in a broad leaved forests, July

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

### Helotiales 고무버섯목

#### Geoglossaceae 콩나물버섯과

##### *Microglossum* 좀콩나물버섯속

##### *Microglossum viride*(Pers. ex Fr.) Gill. 녹색좀 콩나물버섯(新稱)

Champ. France, Discom. 25, 1879-Durand, Ann. Myc. 6:411, 1908-Nannfeldt, Ark. Bot. 30A:47, 1942-Mains, Mycol. 47:853, 1955-Batra and Batra, Univ. Kansas Sci. Bull. 44:150, 1963-Maas Geesteranus Persoonia 4:41, 1965-Otani, Cup fungi collected in Nepal I:86. 1982.

*Geoglossum viride* Pers. ex Fr., in Fries, Syst. Myc. 1:489, 1821. Fruit bodies solitary, clavate, 6-8 cm in height fertile head longitudinally furrowed, compressed, greyish green, but turned pale gradually. Stalk slender, cylindrical, pale orange. Excipulum composed with textura prismatica.

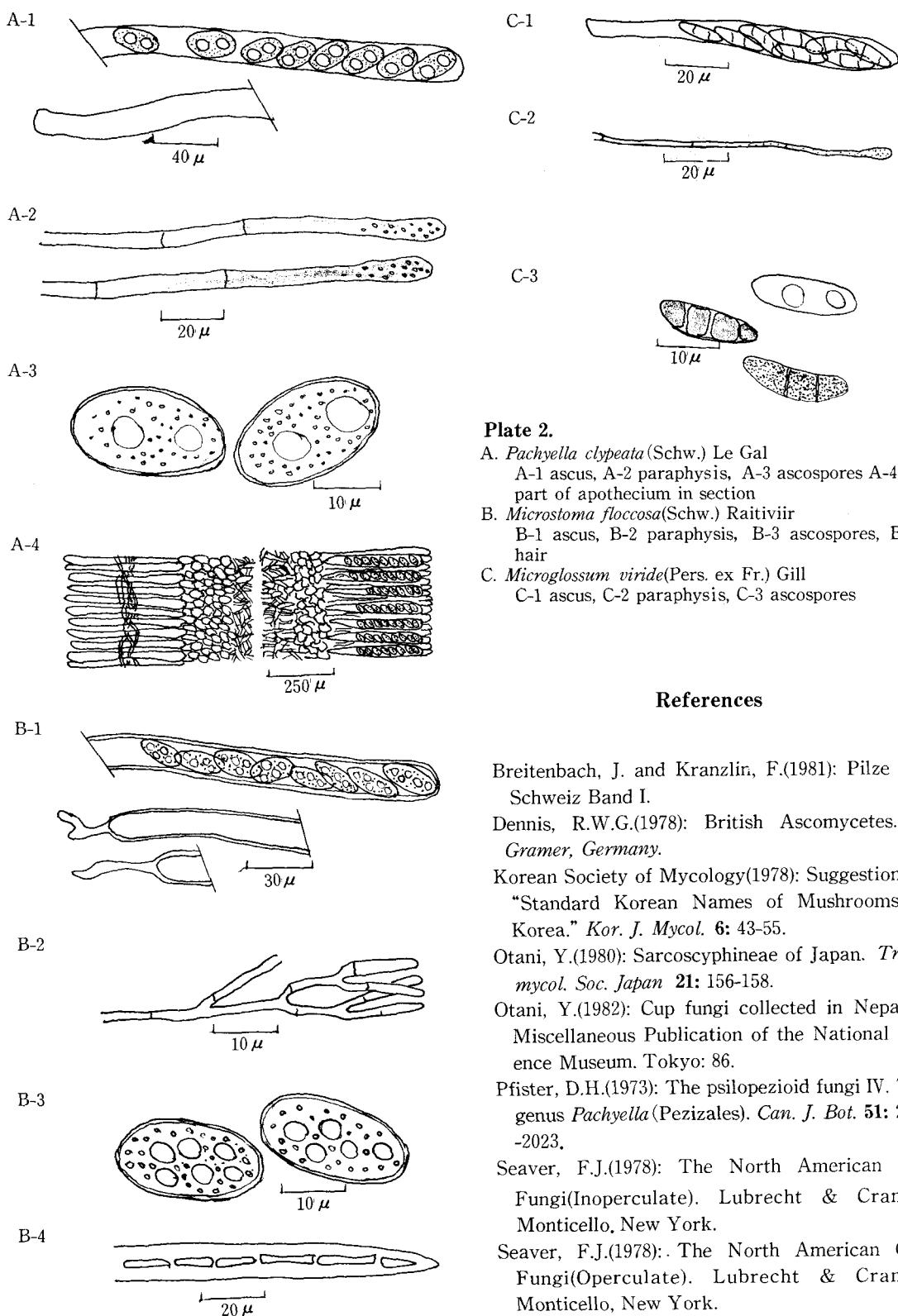
Asci cylindrical-clavate, bi-seriate, containing 8 ascospores, blued at the tip by Melzer's reagent, 75-87.5×7.5  $\mu$ m. Ascospores fusiform, straight or slightly curved, smooth, hyaline, 2-3 septate, 12.5-15×3.5-5  $\mu$ m. Paraphyses filiform, septate, slightly swollen at the tip.

Hab. On soil in a broad leaved forests, August

Distr. Korea(Mt. Chiri), Japan, Europe, India, Nepal and the Americas

### 摘 要

1986년 6월부터 1987년 10월까지 광동, 지리산, 한라산, 오대산에서採集된 23점의 반균강을同定한 결과 2目 5科 10속 10種으로分類되었는데, 그중에서 *Pachyella clypeata*(Schw.) Le Gal, *Microstoma floccosa*(Schw.) Raitviiir과 *Microglossum viride*(Pers. ex Fr.) Gill은韓國未記錄種이며, 그普通名과記載를報告한다.

**Plate 2.**

- A. *Pachyella clypeata*(Schw.) Le Gal  
A-1 ascus, A-2 paraphysis, A-3 ascospores A-4, a part of apothecium in section
- B. *Microstoma floccosa*(Schw.) Raitivirr  
B-1 ascus, B-2 paraphysis, B-3 ascospores, B-4 hair
- C. *Microglossum viride*(Pers. ex Fr.) Gill  
C-1 ascus, C-2 paraphysis, C-3 ascospores

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