

## Wood-Rotting Fungi Collected in Suweon Campus of Seoul National University (I)

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### 서울大學校 水原ampus에서 採集한 木材腐朽菌(1)

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**Abstract:** Wood-rotting fungi were collected in Suweon campus of Seoul National University from September 1981 to October 1982. These fungi were classified into 2 orders, 8 families, 22 genera and 34 species. Of these, *Gloeoporus adustus* (Willd. ex Fr.) Pilát and *G. dichrous* (Fr.) Bres. were found to be new species that belong to unrecorded genus in Korea. Korean common names of these two new species were designated by the authors. List of the wood-rotting fungi was given with the generic name of host trees on which the fungus was collected.

### Description of the New Species in Korea

#### Polyporaceae

*Gloeoporus* 무른구멍장이버섯屬(新稱) Montagne, Ann. Sci. Nat. Bot. II. 17:126. 1842.

*Gloeoporus adustus* (Willd. ex Fr.) Pilat 그을음 무른구멍장이버섯(新稱)

*Boletus adustus* Willd., Flora Berol. Prod., p. 392. 1787.

*Polyporus adustus* Willd. ex Fr., Syst. Myc. 1: 363. 1821.

*Bjerkandera adusta* (Willd. ex Fr.) Karst., Soc. Fauna Flora Fenn. Meddel. 5: 38. 1879.

*Polyoporus burtii* Peck, Torrey Bot. Club Bul. 24: 146. 1897.

*Polystictus hirsutus* var. *calvens* Clements, Crypt. Form. Colo., no. 168. 1905.

*Coriolus alabamensis* Murr., North Amer. Flora 9: 19. 1907.

Sporophore sessile or effused-reflexed, tough to corky, rigid when dry, reviving, usually imbricate; pileus 1~6×3~10×0.1~0.8cm, white or cinereous

to smoke-grey or pale tan, rarely with reddish blotsches or zones, finely tomentose to short villose-tomentose or nearly glabrous, or at times short striate behind and the margin fibrillose or fibrillose-striate, the margin thin, even, often black in dried specimens, sterile below; context white or in dried specimens ochraceous or pale brown, 1~6mm thick, in large specimens separated from the tube layer by a narrow dark line; pore surface at first gray or grayish black, darker where bruised, often changing to black or rarely sordid brown in age and in herbarium specimens, the tubes 2 mm long or less, the mouths very minute, subcircular then angular, averaging 5~7 per mm, scarcely visible to the unaided eye; trama tissue decidedly brown under the microscope; spores oblong or oblong-ellipsoid, rarely slightly curved, smooth, hyaline, 3.5~5×2~3μ; basidia quite small, 8~10×4~5μ; cystidia and hyphal pegs none; hyphae hyaline, considerably branched, with cross walls and clamps, 3~6μ in diameter.

Habitat: Usually on dead wood of deciduous trees, noted on *Paulownia* and *Quercus*.

Distribution: Suweon.

*Gloeoporus dichrous* (Fr.) Bres. 겹무른구멍장이버섯  
(新稱)

*Polyporus dichrous* Fr., Syst. Myc. 1: 364. 1821.  
Sporophore sessile or effused-reflexed, often imbricate, very coriaceous when fresh, rigid when dry, reviving; pileus 0.5~4×1~8×0.1~0.5cm, white or whitish, rarely ochraceous in herbarium specimens, villose-tomentose or compactly tomentose, then velvety to nearly glabrous, the margin often narrowly sterile below and white; context white, 1~4mm thick; pore surface waxy and separable from the context in a thin elastic layer when fresh or when soaked, pale buff to flesh color, reddish purple or purplish black, the tubes less than 1mm long, the mouths circular to angular, rather thin-walled, entire, averaging 5~8 per mm, in vertical microscopic sections showing a context of closely interwoven hyphae of the usual type, separated from the hymenium by a narrower darker zone, the entire hymenial region composed of strongly gelatinized nonstaining hyphae contrasting sharply with the context; spores allantoid, 3~4.5×0.5~1μ; basidia 2.5~3μ in diameter; cystidia none; context hyphae somewhat branched, the walls partially thickened, with conspicuous clamps and cross walls, 3~6μ in diameter.

Habitat: On dead wood, usually of deciduous trees, noted on *Salix*.

Distribution: Suwon.

### List of Wood-Rotting Fungi with Their Host Trees

Basidiomycotina 擔子菌亞部

Hymenomycetes 帽菌綱

*Holobasidiomycetidae* 同擔子菌亞綱

Agaricales 주름버섯目

Pleurotaceae 느타리科

*Panellus stipticus* (Fr.) Karst. 부채버섯  
on *Pinus*

*Schizophyllum commune* Fr. 치마버섯  
on *Cercis, Pinus, Prunus, Prunus, Pyrus, Quercus, Salix, Wistaria*

*Pleurotus ostreatus* (Jacq. ex Fr.) Quél. 느타리  
on *Quercus*

*P. cornucopiae* (Pers.) Rolland 노랑느타리  
on *Quercus, Wistaria*

*Panus rufus* Fr. 참버섯  
on *Platanus*

Tricholomataceae 송이科

*Armillariella mellea* (Vahl. ex Fr.) Kummer 뽕나무  
버섯

on *Quercus*  
*Flammulina velutipes* (Curt. ex Fr.) Karst. 팽나무버섯  
on *Platanus, Populus, Quercus, Wistaria*

Coprinaceae 먹물버섯科

*Coprinus atramentarius* (Bull. ex Fr.) Fr. 두엄먹물버  
섯

on *Populus*  
*C. disseminatus* (Pers. ex Fr.) S.F. Gray 고깔먹물버섯  
on *Populus, Quercus*

*C. micaceus* (Bull. ex Fr.) Fr. 갈색먹물버섯  
on *Populus, Quercus*

Strophariaceae 독청버섯科

*Pholiota adiposa* (Fr.) Quél. 검은비늘버섯  
on *Quercus*

*P. squarrosa* (Müll. ex Fr.) Kummer 비늘버섯  
on *Populus*

*P. squarrosoides* (Peck) Sacc. 침비늘버섯  
on *Populus*

Aphyllophorales 민주름버섯目

Corticaceae 고약버섯科

*Stereum ostrea* (Bl. ex Nees) Fr. 갈색꽃구름버섯  
on *Prunus*

Meruliaceae 아교버섯科

*Phlebia strigoso-zonata* (Schw.) Lloyd. 털가는주름버  
섯

on *Quercus*

Mucronoporaceae 진흙버섯科

*Phaeolus schweinitzii* (Fr.) Pat. 해면버섯  
on *Platanus, Populus*

Polyporaceae 구멍장이버섯科

*Trametes dickinsii* Berk. 등갈색송편버섯  
on *Salix*

*T. gibbosa* Fr. 대합송편버섯  
on *Salix*

*T. trogii* Berk. 토끼털송편버섯  
on *Salix*

*Pycnoporus sanguineus* (L. ex Fr.) Murr. 간버섯

on *Quercus**Gloeoporus adustus*(Willd. ex Fr.) Pilát 그을음무른구

명장이버섯

on *Paulownia, Quercus**G. dichrous* (Fr.) Bres. 겹무른구명장이버섯on *Salix**Gloeophyllum abietinum* (Fr.) Karst. 전나무조개버섯on *Pinus**Lenzites betulina* Fr. 조개껍질버섯on *Paulownia, Platanus, Quercus, Salix**Daedaleopsis tricolor* (Fr.) Schroet. 삼색도장버섯on *Alnus, Salix**Hirschioporus abietinus* (Dicks. ex Fr.) Donk 웃솔버

섯

on *Pinus**Coriolus consors* (Berk.) Imaz. 송곳니구름버섯on *Robinia, Quercus**C. hirsutus* (Wulf. ex Fr.) Quél. 흐구름버섯on *Prunus, Salix**C. pubescens* (Schum. ex Fr.) Quél. 흰용털구름버섯on *Quercus**C. versicolor*(L. ex Fr.) Quél. 구름버섯on *Alnus, Castanea, Paulownia, Pinus, Populus,**Prunus, Pyrus, Quercus, Robinia, Salix**Fomitopsis officinalis* (Vill. ex Fr.) Bond. et Sing. 말

굽잔나비버섯

on *Pinus**F. cytisina*(Berk.) Bond. et Sing. 후잔나비버섯on *Alnus**Grifola gigantea* (Fr.) Pilát 왕잎새버섯on *Quercus**Elfvingia appplanata*(Pers. ex Wallr.) Karst. 잔나비

걸상

on *Quercus*

## 摘要

1981年 9月부터 1982年 10月까지 서울大學校 水原캠퍼스內에서 木材腐朽菌을 採集하였다. 이들은 2目, 8科, 22屬, 34種으로 分類되었으며, 그 中 韓國產 未記錄屬 *Gloeoporus*와 未記錄種 *G. adustus*(Willd. ex Fr.) Pilát 및 *G. dichrous*(Fr.) Bres.가 發見되었다. 이들新種에 대해 우리말 버섯이름이 주어졌으며, 子實體에 대한 記述을 덧붙였다. 採集된 34種에 대해 각各 棲息하는 나무의 屬名을 記載하였다. 各 標本은 서울大學校 農科大學 農生物學科에 保存되어 있다.

韓國產 未記錄種의 同定에 協助하여 주신 美國 Virginia州立大學校 Orson K. Miller, Jr. 教授에게 感謝를 드린다.

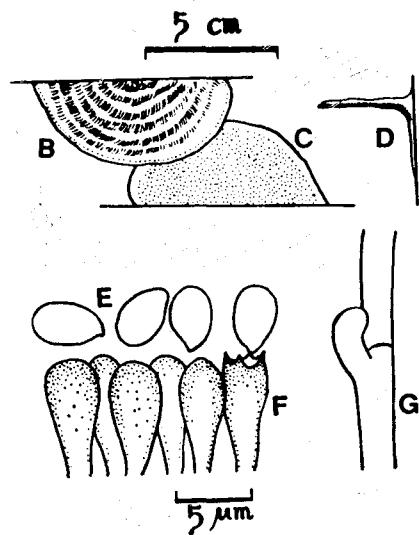
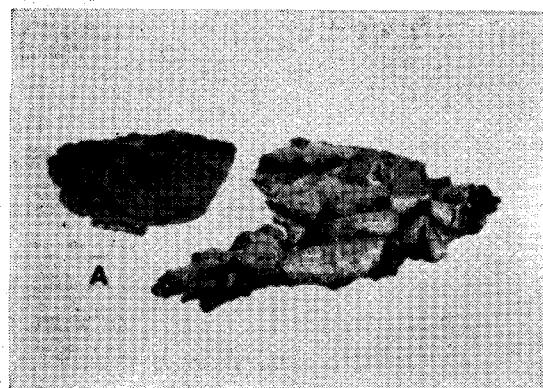
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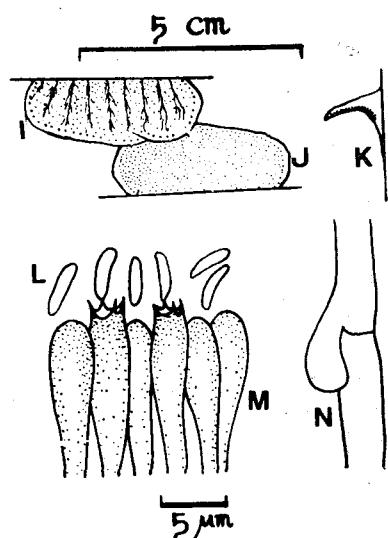
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〈Received October 26, 1982〉

**Explanation of the Plates**



**Fig. A~G.** *Gleoporus adustus* (Willd. ex Fr.) (0.5×)  
Pilát A: sporophores, lower-surface view (left)  
and upper-surface view (right), B: upper-surface  
view, C: lower-surface view, D: side cut-down  
view, E: spores, F: basidia, G: hypha with  
clamp connection



**Fig. H~N.** *Gloeoporus dichrous* (Fr.) Bres. (1.5×)  
H: sporophores, I: upper-surface view,  
J: lower-surface view, K: side cut-down view,  
L: spores, M: basidia, N: hypha with clamp  
connection