

The Flora of Higher Fungi in Mt. Jiri Areas (III)

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智異山一帶의 高等菌類(III)

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ABSTRACT: Higher Fungi were collected in Mt. Jiri National Park areas from May, 1987 to October, 1988. These higher fungi were identified. As a result of identification, *Boletellus linderi* Sing., *Lactarius corrugis* Peck, *L. gerardii* var. *gerardii* Hesler & Smith, *L. gerardii* var. *fagicola* Hesler & Smith and *L. subgerardii* Hesler & Smith were newly recorded in Korea.

KEYWORDS: *Boletellus linderi*, *Lactarius corrugis*, *L. gerardii* var. *gerardii*, *L. gerardii* var. *fagicola*, and *L. subgerardii*.

Boletellus linderi Sing. 참피나무 밤그물 버섯(新種)

Singer, Agaricales, 752, pl. 78, f. 10, 1975.

Pileus 5.0-8.0 cm broad, convex to broadly convex, flat with age, cardinal red or venetian red to chestnut brown, smooth, margin overhanging the pores, context whitish to yellowish tinted, unchanged, firm, taste mild and odor slightly. Tubes deeply depressed around stipe, 1.0-1.5 cm long, pore large, angular, orange yellow to yellowish unchanged. Stipe 12.0-25.0 (-35.0)cm long, 2.0-4.0 cm thick, enlarging toward base, club-shaped to bulbous, longitudinally lined, dry, but sticky when wet, flesh whitish to yellowish tinted, pinkish-brown or reddish-brown to cinnamon-tan.

Spores (13.5)15.0-19.5(-21.0) × (-7.5)9.0-10.5 (-12.0) μm, longitudinally ridged by thin wing arranged in slightly spiraled pattern, basidia 37.5-45.0 × 13.5-18.0 μm, clavate, spore print olive brown.

Habitat: Solitary to rare several, on the grounds of broad-leaved and conifers forests Summer to autumn.

Distribution: Korea (Mt. Jiri) and North America.

Lactarius corrugis Peck 주름젓버섯(新種)

Peck, Ann. Rep. N.Y. State Mus. 32:31. "1879" [1980].

Hesler & Smith, North American Species of *Lactarius*, 160, pl. 28, 151, f. 58, 59, 61, 75, 210, 1983.

Lincoff, G.H., The Audubon Society Field Guide to North American Mushrooms, 682, pl. 293, 1981.

Miller, O.K., Mushrooms of North America, 74, pl. 61, 1986.

Pileus 5.0-12.0 cm broad, convex with margin in curved, finally expanding, oxblood red to dark vinaceous-brown, at time orange-cinnamon to rust brown, conspicuously velvety, central portion more or less corrugated, margin sometime conspicuously wrinkled, azonate, dry, context firm, white staining brown, taste mild, latex white unchanged. Lamellae adnate to subdecurrent, pale cinnamon-buff to ochraceous-buff, brown when injured, close, medium broad, some forking. Stipe 5.0-8.0 cm long, 0.8-1.5 cm thick, greyish brown at time tinged reddish brown usually pale than the pileus, velvety, dry, equal, solid.

Spores 9.0-12.0 × 9.0-11.5 μm, globose or

subglobose, prominences 0.4-0.7 μm high, reticulum, with occasional narrow bands and fine lines, basidia 45.0-70.0 \times 9.0-12.0 μm , pleurocystidia 51.0-120.0 (-150.0) \times 6.0-9.0(-15.0) μm , subfusoid, apical portion tapered, wall thick, cheilocystidia 30.0-75.0 \times 4.5-9.0 μm , similar to pleurocystidia or more rarely aciculate, wall thick, spore print white.

Habitat: Scattered to groups in hardwood or mixed conifer-hardwoods forests. Summer to autumn. Edible.

Distribution: Korea (Mt. Jiri) and North America.

***Lactarius gerardii* var. *gerardii* Hesler & Smith** 주름검은 젓버섯 (新種)

Hesler & Smith, North American Species of *Lactarius*, 111, pl. 19-20, f. 37-38, 180, 1983.

Pileus 3.0-6.0 cm broad, convex with a small umbo, expanding to plane or finally depressed, dark brown, brownish black to yellowish brown, or at time fading out to golden brown, dry, azonate, margin wavy. Context firm, thin, white, and unchanged from context with the air, odor not distinctive, taste mild, becoming slightly acrid, latex white, unchanging. Lamellae adnate, becoming decurrent, white finally golden yellow or pale yellow, subdistant when young, some distant, thick, moderately broad. Stipe 3.0-5.0 cm long, 0.4-0.8 cm thick, concolorous with pileus, stuffed, becoming hollow, the surface dry and velvety.

Spores 7.5-10.2 \times 7.5-9.0 μm , subglobose, globose or broadly ellipsoid, prominences 0.5-0.7 μm high, whitish broad bands forming a reticulum, occasionally a few fine lines also present, spore print white, basidia 45.0-60.0 \times 7.5-9.0 μm , clavate, pleurocystidia 40.5-64.5 \times 6.6-11.5 μm , clavate to cylindric, cheilocystidia 25.0-34.5 \times 4.5-6.0 μm , cylindric to subfusoid.

Habitat: Scattered in moss or on well-decayed wood in wet areas under conifers.

Distribution: Korea (Mt. Jiri) and North America.

***Lactarius gerardii* var. *fagicola* Hesler & Smith** 검은밤색 젓버섯 (新種)

Hesler & Smith, North American Species of *Lactarius*, 112, pl. 17, f. 40, 46, 49-51, 195, 1983.

Pileus 3.0-5.0 cm broad, broadly convex with

a small umbo, margin spreading and disc shallowly depressed, surface radiate-wrinkled over the disc and merely uneven near the margin, snuff-brown, grayish brown or darker over the disc when moist, paler and grayer near the margin, context white, thin, brittle, slowly staining brownish when injured, dull brownish in FeSO_4 solution, taste mild, latex white, scanty, unchanging. Lamellae adnate or subdecurrent, distant, moderately broad, white, staining brownish at time especially on the edges. Stipe 3.0-5.0 cm long, 0.5-0.8 cm thick, solid, the surface dry and velvety to unpolished, evenly concolorous with the pileus.

Spores 7.5-11.5 \times 7.5-9.7 μm , subglobose to broadly ellipsoid, with ornamentation in the form of a partial or complete reticulum of lines and bands, prominences 0.3-0.5 μm high, spore print white, basidia 40.0-55.0 \times 9.0-13.5 μm , clavate, as revived in KOH, pleurocystidia 50.0-63.0 \times 10.2-15.0 μm , macrocystidia, present as widely, cheilocystidia 21.0-35.0 \times 4.5-6.0 μm , filamentous.

Habitat: Single to scattered in moss or on the grounds of conifers woods.

Summer to autumn. Edibility unknown.

Distribution: Korea (Mt. Jiri) and North America.

***Lactarius subgerardii* Hesler & Smith** 검은 젓버섯 아재비 (新種)

Hesler & Smith, North American Species of *Lactarius*, 107, f. 42, 45, 48, 194, 1984.

Pileus 1.0-2.0 cm broad, broadly convex to neraly flat or with broad knob, dark brown to smoky brown, minutely velvety, azonate, dry, margin even, context whitish, thin, latex white, unchanging, not staining promptly, acrid. Lamellae adnate, white, becoming cream colored, medium broad, nearly close. Stipe 1.5-2.5 cm long, 0.2-0.4 cm thick, evenly concolorous with the pileus, minutely velvety.

Spores 7.5-9.0 \times 6.0-7.5 μm , ellipsoid to subglobose, prominences 0.4-0.7 μm high, bands and lines forming a partial reticulum, or none, spore print white, basidia 40.0-48.0 \times 6.7-8.2 μm , clavate, pleurocystidia 40.0-52.5 \times 6.0-10.2 μm , clavate to subventricose, cheilocystidia 30.0-40.5 \times 3.0-4.5 μm , subfusoid.

Habitat: Scattered or in groups under hard-

woods and in moss. Summer to autumn. Edibility unknown.

Distribution: Korea (Mt. Jiri) and North America.



Plate 1. 1. *Boletellus linderi* Sing. 2. *Lactarius corrugis* Peck 3. *L. gerardii* var. *gerardii* Hesler & Smith 4. *L. gerardii* var. *fagicola* Hesler & Smith 5. *L. subgerardii* Hesler & Smith

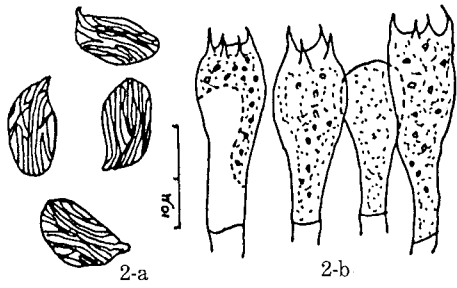


Plate 2. *Boletellus linderi* Sing.
2-a, spores 2-b, basidia

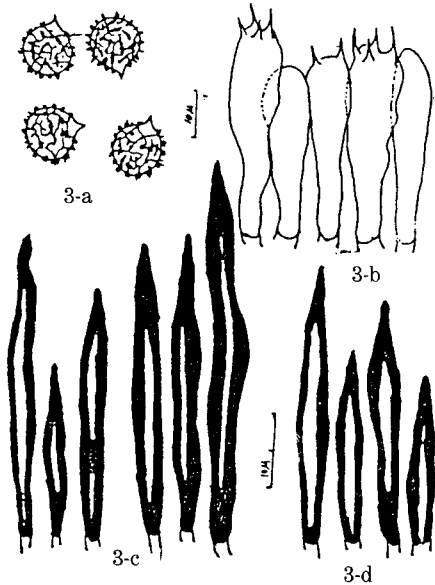


Plate 3. *Lactarius corrugis* Peck.
3-a, spores 3-b, basidia 3-c, pleurocystidia
3-d, cheilocystidia

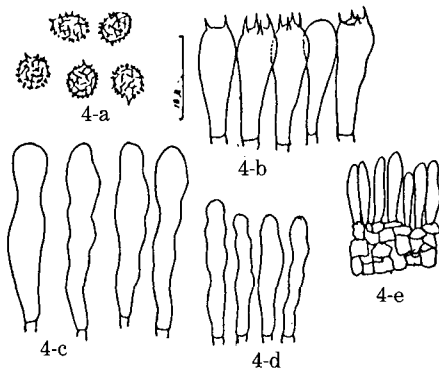


Plate 4. *Lactarius gerardii* var. *gerardii* Hesler & Smith
4-a, spores 4-b, basidia 4-c, pleurocystidia
4-d, cheilocystidia 4-e, pileus trama

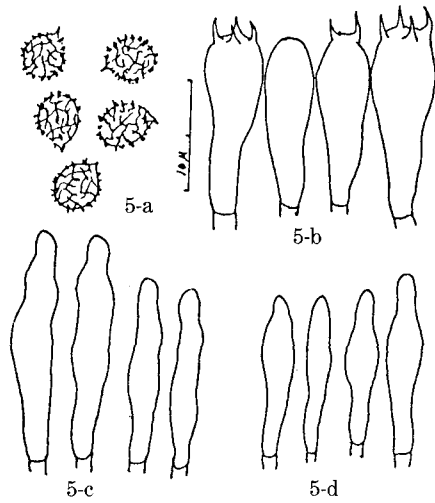


Plate 5. *Lactarius gerardii* var. *fagicola* Hesler & Smith
5-a, spores 5-b, basidia 5-c, pleurocystidia
5-d, cheilocystidia

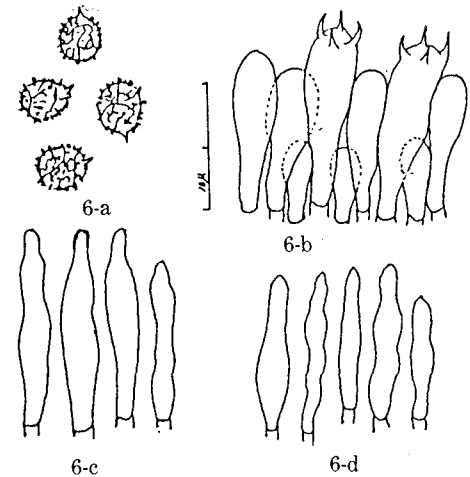


Plate 6. *Lactarius subgerardii* Hesler & Smith
6-a, spores 6-b, basidia 6-c, pleurocystidia
6-d, cheilocystidia

摘 要

1987年 5月부터 1988年 10월까지 智異山 國立公園一帶에서 自生하는 韓國產 高等菌類 60餘種을 採集하여 同定한 結果 韓國產 未記錄種으로 確認한 것은 다음과 같으며 이들에 대하여 普通名을 新稱하였다.

Boletellus linderi Sing. 참피나무 밤그물버섯

Lactarius corrugis Peck. 주름젓버섯

L. gerardii var. *gerardii* Hesler & Smith 검은밤색 젓버섯

L. gerardii var. *fagicola* Hesler & Smith 주름검은 젓버섯

L. subgerardii Hesler & Smith 검은 젓버섯아재비

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