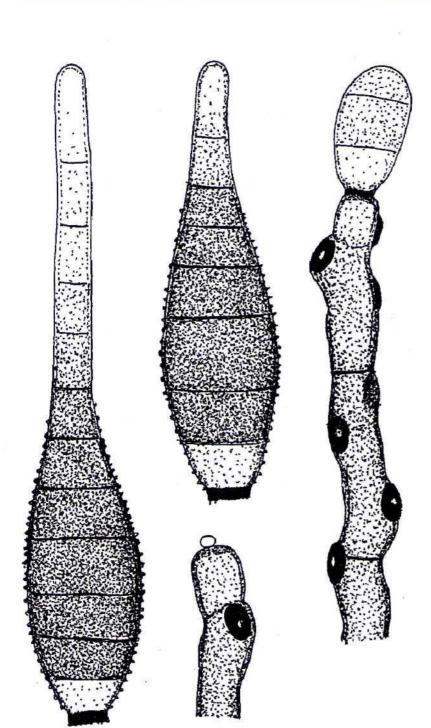


A JOURNAL ON TAXONOMIC BOTANY, PLANT SOCIOLOGY AND ECOLOGY



REINWARDTIA

A JOURNAL ON TAXONOMIC BOTANY, PLANT SOCIOLOGY AND ECOLOGY

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A NEW JAVANESE SPECIES OF MARASMIUS (TRICHLOMATACEAE)

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ABSTRACT.

RETNOWATI, A. 2008. A new Javanese species of *Marasmius* (*Tricholomataceae*). *Reinwardtia* 12(4): 335 – 336. — *Marasmius xenopellis* is described as a new species based on material collected from Mt. Halimun National Park, West Java.

Keywords: Maramius xenopellis, Mt. Halimun National Park, Java

ABSTRAK

RETNOWATI, A. 2008. Suatu jenis baru dari marga *Marasmius* (*Tricholomataceae*) dari Jawa . *Reinwardtia* 12(4): 335 – 336. — *Marasmius xenopellis* dipertelakan sebagai jenis baru berdasarkan material yang dikoleksi dari Taman Nasional Gunung Halimun, Jawa Barat.

Kata Kunci: Maramius xenopellis, Taman Nasional G. Halimun, Jawa

INTRODUCTION

During a fieldwork to Mt. Halimun National Park, West Java (Indonesia), an interesting collection of a species of *Marasmius* was made, which at first sight appeared to belong to section *Globulares*, but upon further closer examination revealed that it had also *Siccus*-type pileipellis. It seems that the present species is allied with another species that has intermediate pileipellis type, viz. *Marasmius nexus* Desjardin & Horak from Papua New Guinea (Desjardin & Horak 1997) which they placed in section *Sicci*. The latter species differs in forming smaller basidiomata (pileus 10–50 mm, stipe 20–75 x 1.5–3 mm) and smaller basidiospores (5.5–8 x 2.5–3 μm).

Since the combination of these macroscopic and microscopic characters cannot be matched with any described taxa, this colletion is proposed to be made the type specimen of a new species.

Marasmius xenopellis Retnowati, *spec. nov.* — Fig. 1.

Pileus 43–87 mm latus, convexus ad umbonatus, sulcatus, glabrus. Lamellae adnexae, subdistances, brunneus marginatae. Stipe 135–195 x 4–6 mm, eccentricus, aequalis, pruinosus, ad basim tomento albo. Odor saporque nulli. Basidiosporae (10.4)11.2–12 x (5.6)6.4–7.2(8) μm, ellipsoideae, leves, hyalinae, inamyloideae, tenui-tunicate. Cheilocystidia a) Cellulae typi *Sicci*, 5.6–32 x 4.8–8 μm, setulosae, cylindricae, 2–4 setulae ad apicem 5.6–17.6 x 2.4–3.2 μm, crassetunicatae; b) Cheilosetae 32–144 x 2.4–5.6 μm.

Pleurocystidia rarus, 8–16 x 3.2–4 μm, cylindricae. Pileipellis hymeniformis, a) polymorphicae (clavatae, pyriformae vel subglobosae), 12–17.6 x 9.6–16 μm; b) cellulae typi *Sicci*, 9.6–14.4 x 4.8–9.6 μm, crassetunicate; c) Setae 9.6–14.4 x 1.6 μm. Trama pilei irregulare. Stipes cellulis typy Sicci et caulosetis obtectus. Fibulae presentes. Gregarius ad terram. Holotypus: Indonesia, Java, West Java, Mt. Halimun National Park, 8 July 2000, *A. Retnowati* 288 (BO).

Pileus 43-87 mm diameter, convex with broad umbo, sulcate, hygrophanous; margin crenate, straight to wavy; surface moist, wrinkle, glabrous; pale brown to brown (6-E7) (Kornerup & Wanscher 1978). Context moderately thick up to 2 mm, off-white. Lamellae adnexed, subdistant (16–18 reaching stipe) with 1 series of lamellulae; brown marginated, up to 11 mm breadth; pale Stipe 135–195 x 4–6 mm, eccentric, equal, hollow, central, smooth, pruinose mostly at the apex; reddish brown; with a very thick white tomentose base. Odor and taste not distinctive. Basidiospores (10.4)11.2–12 x (5.6)6.4–7.2(8) um, ellipsoid, thin-walled, hyaline, inamyloid. Basidioles unobserved. Basidia unobserved. Cheilocystidia abundant in the form of 1) siccustype broom cells with 2-4 setulae; main body 5.6-32 x 4.8–8 µm, cylindrical, thick-walled; setulae 5.6-17.6 x 2.4-3.2 µm, cylindrical, thick-walled, yellowish brown.; 2) setae with pointed apex, 32-144 x 2.4–5.6 μm, thick-walled, yellowish brown. Pleurocystidia uncommon, 8–16 x 3.2–4 µm, cylindrical, capitate, thick-walled, perpendicular, yellowish brown. **Pileipellis** hymeniform, composed of 1) globulares-type, smooth cells, clavate to broadly clavate, pyriform or subglobose

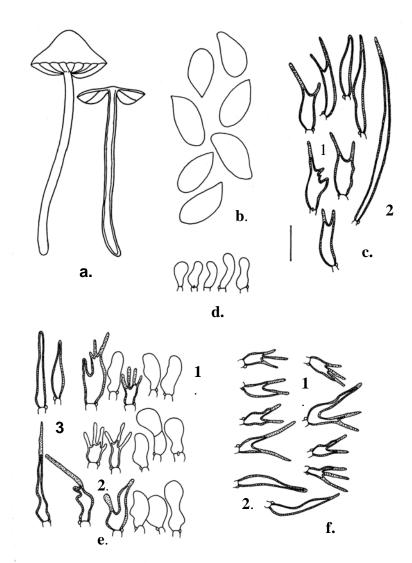


Fig. 1. *Marasmius xenopellis* (A. *Retnowati* 288, Holotype): a. Basidiomes (1/2 x); b. Basidiospores; c. Cheilocystidia: 1. *Siccus*-type cheilocystidia; 2. Cheilosetae; d. Pleurocystidia; e. Pileipellis: 1. *Globulares*-type of pileipellis; 2. *Siccus*-type of pileipellis; 3. Pileosetae. f. Stipe vesture: 1. *Siccus*-type caulocystidia; 2. Caulosetae. Scale bar = $12 \mu m$ for figure b and scale bar = $15.7 \mu m$ for figures c, d, e and f.

cells, thin-walled,12–17.6 x 9.6–16 µm, hyaline to yellowish brown; 2). Siccus-type broom cells with 2-4 setulae; main body 9.6-14.4 x 4.8-9.6 μm, cylindrical, thick-walled; setulae 9.6-14.4 x 1.6 μm, cylindrical, thick-walled, yellowish brown; 3) setae with pointed apex, 20–30.4 µm long, thickwalled, yellowish brown. Pileus trama irregular, 3.2-12 µm diam, hyaline to yellowish brown. Stipe tissue monomitic; cortical hyphae 4.8–13.6 um diam, parallel, cylindrical, dextrinoid, yellowish brown; medullary hyphae 5.6-8.8 µm diam, parallel, hyaline, thin-walled, strongly dextrinoid. Stipe vesture common, composed of numerous siccus-type broom cells and caulosetae; siccustype broom cells similar to those of cheilocystidia; main body 15.2-38.4 x 2.4-4 µm, irregular shaped, cylindrical, thin-walled to thick-walled,

yellowish brown; setulae $5.6-16.8 \times 1.6-2.4 \mu m$, irregular, cylindrical, clavate, with pointed apex; caulosetae often present at the upper part of stipe, $29.1-31.4 \mu m$, lanceolate to fusoid-ventricose, acute, dextrinoid, thick-walled, pale yellow. Clamp connection present.

HABIT, HABITAT AND DISTRIBUTION. Gregarious on soil of mountain forest in West Java.

SPECIMEN EXAMINED. Indonesia: Java, West Java, Mt. Halimun National Park, 8 July 2000, *A. Retnowati* 288.

ETYMOLOGY. – xeno (L.): strange; pellis (L.): pileipellis, referring to the presence of two types of pileipellis, *Globulares* and *Siccus*- types.

ACKNOWLEDGEMENT

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