

한국산 낙엽버섯류의 새로운 한국어 일반명

1. 낙엽버섯속

류리¹ · 블라드미르 안토닌² · 기강현¹ · 신현동³

¹국립산림과학원, ²체코 모라비안 박물관, ³고려대학교

Note on the New Korean Common Names of Marasmoid Fungi. 1. The Genus *Marasmius*

Rhim Ryoo¹, Vladimír Antonín², Kang-Hyeon Ka^{1*} and Hyeon-Dong Shin³

¹Division of Wood Chemistry and Microbiology, Korea Forest Research Institute, Seoul, 130-712, Korea

²Department of Botany, Moravian Museum, Zelnýtrh 6, CZ-65937, Brno, Czech Republic

³Division of Environmental Science and Ecological Engineering, Korea University, Seoul, 136-701, Korea

ABSTRACT: 47 species was reported in the genus *Marasmius* in Republic of Korea up to now. 26 of total 47 species previously recorded from Korea were made up a list. Korean common names of 10 new species and 11 species newly recorded in Korea were introduced in study with synoptic key. These names were followed by the Romanization rule to express Korean common name.

KEYWORDS :Korean common name, *Marasmius*, Synoptic key

낙엽버섯과(Marasmaceae)에 속하는 낙엽버섯속(*Marasmius*)에는 약 700여종과 1,900여 개의 종소명이 발표되었다(<http://www.indexfungorum.org>). 한국에서는 2007년 이전까지 26종의 낙엽버섯이 기록되었고 이 종들의 목록을 표 1에 제시하였다(Ryoo and Shin, 2007). 위의 저자들은 2007년부터 2010년까지 한국-체코 공동연구를 통해 낙엽버섯 10종의 신종과 11종의 미기록종을 발표하였고, 6종의 형태적 특징을 재기재하였을 뿐만 아니라 그들의 계통학적 분석도 추가하여 분류학적 특징을 발표하였다(Antonín et al., 2010a; 2010b; 2011; 2012; 2013).

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*Corresponding author

E-mail: kasymbio@forest.go.kr

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“낙엽버섯속”이라는 한국어 일반명은 낙엽분해균인 *Marasmius*을 생태적 특징에 따라 한국산균류목록(Lee and Lee, 1957)에서 처음으로 기록하였다. 이 문헌은 *Marasmius androsaceus*와 *M. siccus*를 연잎낙엽버섯과 애기낙엽버섯이라 지칭하고 간단한 형태적 특징과 함께 기록하였다. 그 후 한국의 여러 균류학자들에 의해 발표되었던 26종의 낙엽버섯을 표 1에 발표된 문헌과 함께 제시하였다. 2007년 이후 새롭게 발표된 종과 기존에 발표되었던 종들을 그들의 형태적 특징에 따라 분류키로 요약하여 제시하였다. 형태적 특징에 의해 *Marasmius*속으로 분류되었다가 DNA 분자 분석과 계통 분석에 의하여 *Gymnopus*속으로 이동한 *Androsacei*절 1종, *Mycetina*속으로 독립한 *Alliacei*절 4종과 *Physalacriaceae*과로 이동한 *Epiphylli*절 1종, *Leveilleani*절 1종은 분류키에서 제외하였다(Antonín and Norrdeloos, 2010). 이 논문의 목적은 현재까지 한국어 일반명이 명명되지 않은 21종의 낙엽버섯에 대한 새로운 일반명을 제시하기 위함이다.

Key to sections and species of the genus *Marasmius* in Korea

1 Lamellae attached to a distinct collarium; stipe always fffiform (sect. *Marasmius*) 2

Table 1. List of *Marasmius* species previously recorded from Korea

Section	Species	Korean Common Name	Reference
Androsacei	<i>Marasmius androsaceus</i> (L.) Fr.	연잎나엽버섯	Lee and Lee (1957)
	<i>M. buxi</i> Fr.	키다리나엽버섯	Cho (2002)
Hygrometrici	<i>M. hudsoni</i> (Pers.) Fr.	주름나엽버섯	Cho (2002)
	<i>M. minutus</i> Peck (as <i>M. capillipes</i> Sacc.)	털나엽버섯	Lee et al. (1994)
Leveilleani	<i>M. leveilleanus</i> (Berk.) Sacc.	주름나엽버섯 중복. 참고 <i>M. hudsoni</i>	Cho (1995)
Epiphylli	<i>M. epiphylloides</i> (Rea) Sacc. & Trotter	표피나엽버섯	Cho (2002)
	<i>M. bulliardii</i> Quél.	실나엽버섯	Lee et al. (1987)
Marasmius	<i>M. crinis-equi</i> F. Muell. ex Kalchbr.	밀총나엽버섯	Park and Lee (1991)
	<i>M. graminum</i> (Lib.) Berk.	풀잎나엽버섯	Lee (1975)
	<i>M. limosus</i> Boud. & Quél.	진흙나엽버섯	Cho and Cho (2001)
	<i>M. rotula</i> (Scop.) Fr.	나사나엽버섯	Cho and Kim (1995)
	<i>M. wettsteinii</i> Sacc. & P. Syd.	물나엽버섯	Cho and Yoo (1999)
Sicci	<i>M. cohaerens</i> (Alb. & Schwein.) Cooke & Quél.	동백나엽버섯	Kim et al. (1986)
	<i>M. delectans</i> Morgan	환희나엽버섯	Cho and Kim (1995)
	<i>M. pulcherripes</i> Peck	앵두나엽버섯	Seok et al. (1991)
	<i>M. siccus</i> (Schwein.) Fr.	애기나엽버섯	Lee and Lee (1957)
Alliacei	<i>M. torquescens</i> Quél.	목걸이나엽버섯	Cho (1998)
	<i>M. calopus</i> (Pers.) Fr.	오목나엽버섯	Lee et al. (1995)
	<i>M. epidryas</i> Kühner	애기선녀나엽버섯	Lee et al. (1994)
	<i>M. scorodonius</i> (Fr.) Fr.	미늘나엽버섯	Lee et al. (1987)
Globulares	<i>M. prasiosmus</i> (Fr.) Fr.	흰나엽버섯	Lee and Cho (1975)
	<i>M. aurantioferrugineus</i> Hongo	황소나엽버섯	Kim et al. (1990)
	<i>M. maximus</i> Hongo	큰나엽버섯	Hong and Jung (1975)
	<i>M. oreades</i> (Bolton) Fr.	선녀나엽버섯	Lee and Lee (1957)
	<i>M. prasiosmus</i> (Fr.) Fr.	흰나엽버섯	Lee and Cho (1975)
	<i>M. purpureostriatus</i> Hongo	줄무늬나엽버섯	Cho and Lee (1981)
	<i>M. wynneae</i> Berk. & Broome	보리나엽버섯	Kim et al. (1996)

- 1* Lamellae not attached to a distinct collarium; stipe basal mycelium or not 11
 2 Cheilocystidia and pileipellis broom cells in the form of Siccus-type (**subsect. Sicciformes**) 3
 2* Cheilocystidia and pileipellis broom cells in the form of Rotalis-type (**subsect. Marasmius**) 4
 3 Lamellar edge concolorous with sides; growing on dead twigs *M. ruforotula*
 3* Lamellar edge coloured; growing on dead leave *M. crinis-equi*
 4 Basidiospores 7.0-10 × 3.75-5.0 µm, ellipsoid to ellipsoid-fusoid *M. wisteriae*
 4* Basidiospores 12-13.5(-14) × 2.5-3.25 µm, fusoid, narrowly lacrimoid 5
 5 Pileus up to 5 mm broad; lamellae distant (L=(4) 6-8) *M. graminum*

- 5* Only few lamellae present (L=6-9) 6
 6 Basidia 2-spored, oblong-ellipsoid to slightly amygdaliform *M. limosus*
 6* With more lamellae present (L>10) 7
 7 Pileus white to cream-coloured when fresh with greyish centre (papilla), 4-14 mm, with 17-21 lamellae; on dead wood (sticks, branches, bark) *M. rotula*
 7* Pileus beige-brown when fresh, or when white or whitish, then with distinctly delimitated, darker, brown or blackish central papilla 8
 8 Pileus white when fresh with grey to grey-brown papilla; L=(12) 13-17 (19), projections of broom cells in pileipellis 1.0-2.0 (3.5) µm long; on needles and litter of coniferous trees *M. wettsteinii*
 8* Pileus beige-brown to pale brown-orange 9
 9 Pileus ochraceous brown except for whitish centre;

- lamellae moderately distant ($L=15-17$); basidiospores $8.5 \times 5.5 \mu\text{m}$; pileipellis cells $20-35(-45) \times 17-25 \mu\text{m}$ *M. cf. bulliardii*
- 9* Pileus pale greyish or light brown to brownish orange; basidiospores $2.5-4.5 \mu\text{m}$ 10
- 10 Pileus light brown to brownish orange; lamellae distant ($L=6-7$); basidiospores $(7.0-)8.0-10 \times 3.75-4.5 \mu\text{m}$, on twigs *M. tubulatus*
- 10* Pileus pale greyish; lamellae more close ($L=13-16$); basidiospores $7.5-9.0 \times 4.5-5.0 \mu\text{m}$; on dead leaves *M. rotalis*
- 11 Pileipellis composed of smooth cells; carpophores larger; stipe basal mycelium; context hyphae dextrinoid; thick-walled setae absent (**sect. Globulares**) 12
- 11* Pileipellis composed of broom-cells with numerous digitate projections 19
- 12 Pileus distinctly sulcate, striped, centre and striae violet brown, sulcae whitish; lamellae distant ($L=12$); basidiospores large, $21-25 \times 5.0-6.5 \mu\text{m}$; pleurocystidia absent; caulocystidia absent *M. purpureostriatus*
- 12* Pileus sulcate or not, but never striate, colour different; lamellae closer ($L>16$); basidiospores distinctly smaller, less than $15 \mu\text{m}$ long; pleuro- and caulocystidia absent or present 13
- 13 Pleurocystidia present 14
- 13* Pleurocystidia absent 15
- 14 Stipe long and slender, up to $110 \times 3 \text{ mm}$; basidiospores $8.5-10 \times 3.5-4.0 \mu\text{m}$; cheilocystidia $12-23 \times 5.0-12 \mu\text{m}$; pleurocystidia fusoid, sometimes pedicellate; caulocystidia absent *M. fusicystidiatus*
- 14* Stipe shorter and more robust, $30-60 \times 2.5-6 \text{ mm}$; basidiospores $6.0-8.0 \times 3.0-4.0 \mu\text{m}$; cheilocystidia $21-42 \times 7.0-10(-14) \mu\text{m}$; pleurocystidia fusoid, subcylindrical, sublageniform; caulocystidia present, numerous *M. brunneospermus*
- 15 Pileus orange-ferrugineous; basidiospores $11.5-15 \times (4.0-)4.5-6.0 \mu\text{m}$ *M. aurantioferrugineus*
- 15* Pileus differently coloured, never orange-ferrugineous; basidiospores smaller, never over $10 \mu\text{m}$ long 16
- 16 Pileus pale ochraceous, cream-coloured, strongly paler to almost white; stipe concolorous with pileus, tomentose, rather elastic; spores $(7.0) 8.0-10.5 (11.5) \times 4.0-6.0 \mu\text{m}$; cheilocystidia absent *M. oreades*
- 16* Basidiocarps (less) robust; basidiospores $6.5-8.0 \times 3.7-5.0 \mu\text{m}$; caulocystidia not forming a compact layer 17
- 17 Basidiocarps robust, basidiospores $7.0-9.5(-10) \times 4.5-6.0 \mu\text{m}$; caulocystidia numerous, forming a compact layer of interwoven, cylindrical, narrowly clavate, subfusoid, narrowly cylindrical, often irregular or branched, up to $10 \mu\text{m}$ wide cells *M. maximus*
- 17* Pileus and stipe differently coloured; cheilocystidia present; spore smaller 18
- 18 Pileus white-off, whitish to yellowish white or pale yellow with brownish or greyish tinge at centre, never violaceous tinged; lamellae distinctly anastomosed already when young, white, pale yellow, greyish cream or pale cream; basal tomentum forming a solid mycelial mat around stipe base *M. nivicola*
- 18* Pileus white or grey-ochraceous when young, then milky white, grey, or grey-violaceous; lamellae not intervenose or only when old, white to cream or grey, sometimes with violaceous tinge; basal tomentum never forming a solid mycelial mat around stipe base .. *M. wynneae*
- 19 Pileipellis composed of broom-cells of the Rotalis-type; stipe filiform; trama hyphae non-dextrinoid (**sect. Hygrometrici**) 20
- 19* Pileipellis composed of broom-cells of Siccus-type (**sect. Sicci**) 24
- 20 Pileocystidia and Caulocystidia present 21
- 20* Pileocystidia present and Caulocystidia absent .. 22
- 21 Lamellae well-developed ($L=(0)3-9$); spores $6.0-9.5 \times 2.0-5.0 \mu\text{m}$ *M. minutus*
- 21* Pileocystidia $21-25 \times 5.0-6.5 \mu\text{m}$; pileus greyish orange; basidiospores $(7.0-)8.0-9.5 \times (4.2-)4.5-5.0 \mu\text{m}$; stipitipellis mostly smooth *M. junipericolus* ad interim
- 22 Pileocystidia $(12-)15-25(-30) \times 4.0-8.0 \mu\text{m}$; pileus in various shades of brown; caulocystidia absent; stipe longer, $20-65 \text{ mm}$; basidiospores $6.0-9.0 \times 3.0-4.5 \mu\text{m}$; stipitipellis diverticulate ... *M. aucubae* (= *M. crescentiae* s. Antonín et al., 2012)
- 22* Cheilocystidia of lageniform type 23
- 23 Cheilocystidia of one type: lageniform or tibiiform; pleurocystidia absent; on leaves of *Buxus* *M. buxi*
- 23* Cheilocystidia of type: lageniform to lecithiform; pleurocystidia absent; on dead leaves of *Ilex* *M. hudsonii*
- 24 Setae on pileus and stipe surface present (**ser. Spinulosi**) 25
- 24* Setae absent 27
- 25 Pileipellis of smooth cell with well-developed setoid broom cells and setae and present caulosetae *M. orientalis*
- 25* Pileipellis with broom cells of the Siccus-type ... 26
- 26 Basidiocarps with pale whitish, yellowish, cream, becoming somewhat wrinkled at surface; Lamellae with

- dextrinoid cystidia *M. delectans*
 26* Basidiocarps with brownish 27
 27 Lamellae pale yellow to yellow-brown with conspicuous brown setiform cystidia on pileus lamellae and stipe; pileipellis with broom cells of the *Siccus*-type, Stipe, lamellae, and pileus with brown, thick-walled *M. cohaerens*
 27* Hyphae of context dextrinoid, Thick-walled setiform cystidia present on pileus and stipe; cheilo- and pleurocystidia present *M. torquescens*
 28 Caulocystidia present (ser. *Atrorubentes*) *M. strobiluriformis*
 28* Caulocystidia always absent 29
 29 Pleurocystidia absent (ser. *Leonini*) 30
 29* Pleurocystidia present (ser. *Haematocephali*) 33
 30 Basidiospores small, $7.0\text{-}8.5 \times 3.5\text{-}4.5 \mu\text{m}$; lamellae moderately close ($L=25$) with lamellulae ($l=2\text{-}3$) *M. occultatiformis*
 30* Basidiospores larger, $12\text{-}15 \mu\text{m}$ long; lamellae with or without lamellulae 31
 31 Basidiospores $12\text{-}15 \times 4.0\text{-}5.5(6.0) \mu\text{m}$; lamellae with lamellulae ($l=2\text{-}3$) *M. occultatus*
 31* Basidiospores $3.0\text{-}4.75 \mu\text{m}$ wide; lamellulae absent or scattered ($l=0\text{-}1(2)$) 32
 32 Pileus small, 4-10 mm broad, in various shade of brown, brownish orange to reddish brown; lamellulae absent or scattered; basidiospores $12\text{-}15 \times 3.0\text{-}4.75 \mu\text{m}$.. *M. graminicola*
 32* Pileus larger, 13-33 mm broad, brownish orange or reddish orange; lamellulae present ($l=1\text{-}2$); basidiospores $11\text{-}14.5 \times 3.25\text{-}4.5 \mu\text{m}$ *M. koreanus*
 33 Basidiocarps with purple tinge 34
 33* Basidiocarps without purple tinge 35
 34 Lamellae 10-14; pleurocystidia $35\text{-}42 \times 5.0\text{-}7.0 \mu\text{m}$; on needles of *Pinus strobus* *M. rhodopurpureus*
 34* Lamellae 16-20; pleurocystidia $37\text{-}55 \times 7.0\text{-}12 \mu\text{m}$; on fallen leaves and twigs of broadleaved trees *M. pulcherripes*
 35 Pileus large, 15-65 mm large, never sulcate or striate-sulcate; stipe (1)3-4(5) mm; basidiospores $10\text{-}14 \times 4.5\text{-}5.7 \mu\text{m}$ *M. confertus* var. *tenuicystidiatus*
 35* Pileus smaller, up to 25 mm broad, always sulcate or striate-sulcate; stipe narrower, up to 2 mm wide; Basidiospores shorter than $20 \mu\text{m}$ 36
 36 Basidiospores $14\text{-}20 \times 4.0\text{-}5.5 \mu\text{m}$ *M. ferrugineus*
 36* Basidiospores longer than $20 \mu\text{m}$ 37
 37 Basidiospores up to $16 \mu\text{m}$ long 38
 37* Lamellae and stipe never with purplish tinge; basi-

dioles $15\text{-}26(31) \times 3.0\text{-}8.0 \mu\text{m}$; pleurocystidia $32\text{-}41 \times 7.0\text{-}10 \mu\text{m}$ *M. subtangerinus*

38 Pileus 3-10 mm; stipe very long, up to 200 mm; basidiospores very large, $22\text{-}27 \times (3.0)3.5\text{-}5.0 \mu\text{m}$; pleurocystidia $7.0\text{-}15(19) \mu\text{m}$ *M. crinipes*

38* Pileus 10-25 mm broad; stipe shorter, up to 95 mm long; basidiospores smaller, $(15)18\text{-}25 \times 3.5\text{-}5.0 \mu\text{m}$; pleurocystidia $5.0\text{-}12(15) \mu\text{m}$ wide *M. siccus*

*굵은 글씨체는 새로운 한국어 일반명을 명명한 종

한국어 일반명이 새롭게 제시된 낙엽버섯

한국어 일반명은 ICBN 명명법을 준수하여 형태적 특징 (M), 특이적인 기주(H), 최초 발견 지역(L)을 기준으로 하여 명명하였다. 또한 어원의 이해도를 높이기 위해 명명 기준을 한국어 이름 뒤에 함께 기록하였다. 낙엽버섯 종들은 화려한 색깔이 분류 기준이 되기 때문에 한국어 명명에도 이들의 갓 색깔을 주요하게 반영하였다. 새롭게 명명된 한국어 일반명의 명확한 설명을 위하여 그림 1을 덧붙였다.

sect. *Marasmius* (Antonín et al., 2013)

subsect. *Marasmius*

Marasmius cf. bulliardii Quél., Bull. Soc. bot. Fr. 24: 323, 1878

Korean common name; 쑥빛가락지낙엽버섯 (M)

Marasmius rotalis Berk. & Broome, J. Linn. Soc., Bot. 14: 40, 1873.

Korean common name; 은빛가락지낙엽버섯 (M)

Marasmius tubulatus Petch, Tr. Brit. Mycol. Soc. 31: 42, 1947.

Korean common name; 놋쇠빛가락지낙엽버섯 (M)

Marasmius wisteriae Antonín, R. Ryoo & H. D. Shin, sp. nov., ined.

Korean common name; 등나무가락지낙엽버섯 (H, M)

subsect. *Sicciformis*

Marasmius ruforotula Singer, Sydowia 2(1-6): 34, 1948.

Korean common name; 호박꼴낙엽버섯 (M)

sect. *Hygrometrici* (Antonín et al., 2012)

Marasmius aucubae Neda, in Neda & Doi, Mem. Natn Sci. Mus, Tokyo 31: 92, 1998 (= *M. crescentiae* s. Antonín et al., 2012)

Korean common name; 무더기낙엽버섯 (M)

Marasmius junipericola ad interim

Korean common name; 향잎위낙엽버섯 (H)

sect. *Sicci*

ser. *Spinulosi* (Antonín et al., 2012b)



Fig. 1. Photos of basidiocarps of the genus *Marasmius*, sect. *Marasmius*; A, *Marasmius bulliardii* (쪽빛기락지낙엽버섯); B, *M. rotalis* (은빛기락지낙엽버섯); C, *M. tubulatus* (놋쇠빛기락지낙엽버섯); D, *M. wisteriae* (동나무기락지낙엽버섯); E, *M. ruforotula* (호바끌낙엽버섯); sect. *Hygrometrici*; F, *M. aucubae* (무더기낙엽버섯); sect. *Sicci*; G, *M. orientalis* (밤색털낙엽버섯), H, *M. strobiluriformis* (솔잎위낙엽버섯); I, *M. crinipes* (키다리낙엽버섯); J, *M. occultatus* (민주름낙엽버섯); K-a, *M. occultatiformis* (주홍빛민주름낙엽버섯); K-b, 주홍빛민주름낙엽버섯의 갓 표면; L-a, *M. graminicola* (벽돌빛주름살낙엽버섯); L-b, 벽돌빛주름살낙엽버섯의 주름살; M, *M. confertus* var. *tenuicystidiatus* (얇은낭상체낙엽버섯); N, *M. ferrugineus* (단풍빛낙엽버섯); O, *M. koreanus* (갈구빛낙엽버섯); P, *M. rhodopurpureus* (흑자주빛낙엽버섯); Q, *M. subtangerinus* (남귤빛머리낙엽버섯); sect. *Globulares*; R, *M. brunneospermus* (홍릉낙엽버섯); S, *M. nivicola* (눈빛낙엽버섯).

Marasmius orientalis Antonín, R. Ryoo & H. D. Shin, Mycotaxon 111: 370, 2010.
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적 요

나媪버섯속 47종이 현재까지 한국에서 보고되었다. 47종 중 26종이 기존에 보고되었고, 10종의 신종과 새롭게 기록된 11종의 일반명이 이 연구에서 분류키와 함께 보고하였다. 일반명은 로마자표기법에 따랐다.

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