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CHECK LIST OF EUROPEAN HYMENOMYCETOUS HETEROBASIDIAE

Supplement and corrections

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This continuation of the "Check list of European hymenomycetous Heterobasidiae" (published in Persoonia 4: 145–335. 1966) contains supplementary matter as well as corrections. — *Ypsilonidium* (Donk) Donk is published as a new genus. Two new specific combinations are made with this generic name. — *Muribasidiospora* Rajendren is at least tentatively reduced to *Exobasidium*. — Following Parmasto, *Exobasidiellum* Donk is removed from the Tulasnellales.

This supplement is composed along the same lines as the "Check list of European hymenomycetous Heterobasidiae" (Donk, *1966*); the reader is referred to the Chapter "Method of presentation" for details (*1966*: 147–150). I want to stipulate once more that I do not regard the Dacrymycetales and Exobasidiales as belonging to the true Heterobasidiae. These orders were included because they have often been placed among the Heterobasidiae. Moreover, the Exobasidiales in the present sense are doubtfully homogeneous.

Specific epithets of species treated before are not printed in bold face or (in case of synonyms), not spaced, as are the specific epithets of new entries.

The original 'Check list' is referred to as 'Ch. 1.'.

Supplement and corrections

SPECIAL LITERATURE.—Raitviir, *1967a* & *1969*, *1967c*, *1968*; Warcup & Talbot, *1967*.

AURICULARIINEAE

AURICULARIA Bull. per Mérat

SPECIAL LITERATURE.—Govi, *1968*; Lowy, *1951*.

mesenterica (Dicks. per S. F. Gray) Pers.

Auricularia tremelloides Bull. — *Thelephora* (Bull.) per St-Am. 1821; Laterr. 1821.

Merulius violaceus Thore apud Pers. 1825: 21 (France), not ~ Pers. 1797 (d.n.), not ~ Fr. 1818 (d.n.), not ~ (O. F. Müll. per Fr.) Secr. 1833; fide Fr. 1838: 555. — ≡ *Cantharellus thorei* Duby 1830: Fr. 1832 Ind.: 68, 118.

EOCRONARTIUM Atk.

SPECIAL LITERATURE.—Pilát, *1959*.

muscicola (Pers. per Fr.) Fitzp.
Clavaria falcatispora Velen. — Velen. 1947: *pl. 2 f. 20*.

HELICOBASIDIUM Pat.

SPECIAL LITERATURE.—Patouillard, *1886*.

brebissonii (Desm.) Donk. — McNabb 1966 (NZB 4): 533 *f. 1a, b*.
Helicobasidium purpureum Pat. — Pat. 1886 (BbF 33): 336 (var. *barlae* Pat.).
Hypochnus violaceus Erikss. — ≡ *Corticium eriksonii* Maubl. 1926: 144.

HIRNEOLA Fr.

1848 (nom. cons.), not ∽ Fr. 1825 ('Stereaceae') (nom. rej.)
Laschia Fr. 1830: Fr. 1832 (nom. rej.), not ∽ Jungh. 1838.

SPECIAL LITERATURE.—Møller, *1961*; Sappin-Trouffy, *1896*.

auricula-judae (Bull. per St-Am.) Berk. — Møll. 1961 (Fr. 6): 384 *f. 1, pl. 5* (*Auricularia*); D. Reid 1970 (TBS 55): 440 [var. *lactea* (Quél.) D. Reid].

PHLEOGENA Link

Martindalia Sacc. & Ell. apud Sacc. & Berl. 1885 (AIv VI 3): 726. — Monotype: *Martindalia spironema* Sacc. & Ell. apud Sacc. & Berl.

SPECIAL LITERATURE.—Barr & Bigelow, *1968*; Pilát, *1956*; Tallasch & Jahn, *1970*.

faginea (Fr. per Fr.) Link.
Martindalia spironema Sacc. & Ell. apud Sacc. & Berl. 1885 (AIv VI 3): 726 *pl. 11 f. 31* (U.S.A., New Jersey); fide Barr & Bigelow 1968 (M 60): 456–457.

TREMELLINEAE

SPECIAL LITERATURE.—Reid, *1970*.

APORPIUM Bond. & Sing. ex Sing.

SPECIAL LITERATURE.—Aoshima *& al.*, *1962*.

BASIDIODENDRON J. Rick

cinereum (Bres.) Luck. — McNabb 1966 (NZB 4): 540 *f. 10–r* (*Sebacina*); D. Reid 1970 (TBS 55): 433 *fs. 2d–f* (*Basidiodendron*).

BOURDOTIA (Bres.) Trott.

galzini (Bres.) Trott. — *Tremella* E. Krause 1933; *Elvelus* E. Krause 1934 (generic name n.v.p.).

EICHLERIELLA Bres.

Eichleriella Raitv. 1967: 64 / 1969: 50 ("Bres."; lacking Latin description), not ∽ Bres. 1903. — [≡ *Eichleriella* Bres. sensu Raitv. ll. cc., exclusive of type]. — Only species: *Eichleriella spinulosa* (B. & C. apud Berk.) Burt sensu Raitv. [= *E. deglubens* (B. & Br.) D. Reid].

deglubens (B. & Br.) D. Reid 1970. — D. Reid 1970 (TBS 55): 436, note
leucophaea Bres. — Malenç. 1968 (CbB 7): 710.

EXIDIA Fr.

Tremella S. F. Gray 1821: 593 ("Dillenius"), not ∽ L. 1753 (d.n.; 'Nostocaceae heterocysteae'), not ∽ Pers. per St-Am. 1821: Fr. 1822 (Tremellaceae). — Monotype: *Tremella recisa* Ditm. per S. F. Gray.

albida (Huds. per Hook.) Bref. (**142**). — *Elvelus* E. Krause 1934 (generic name n.v.p.). — D. Reid 1969 (RM 33): 353 *tpl. 8 f. 19?*
Tremella thuretiana Lév. — D. Reid 1970 (TBS 55): 418 *fs. 1f–h* (*Exidia*).

cinnamomescens Raitv. — *Myxarium* Raitv. 1967 (incomplete ref.: n.v.p.). — Raitv. 1967: 65 *f. 54* / 1969: 51 *f. 54* (*Myxarium*). — The basidia were too insufficiently described to be recognized with certainty as being myxaroid sphaeropedunculate [cf. Donk 1966 (Pe 4): 232].

compacta Lowy 1956 (Louisiana, U.S.A.). — Lowy 1956 (Ll 18): 164 *tpl. 4 fs. 1, 2, tpl. 5*; Raitv. 1967: 67 / 1969: 53, recorded from U.S.S.R., Armenia.

glandulosa (Bull. per St-Am.) Fr. — *Tremella* Bull. per St-Am. 1821; Laterr. 1821.
Tremella papillata Kunze. — *Elvelus* E. Krause 1934 (generic name n.v.p.).
Exidia truncata Fr. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

pithya (A. & S.) per Fr. — *Tremella* E. Krause 1932 ("*pitya*"); *Elvelus* E. Krause 1934 ("*pitya*") (generic name n.v.p.).

plana (Wigg. per Schleich.) Donk
Exidia plicata Kl. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

recisa (Ditm. per S. F. Gray) Fr. — *Elvelus* E. Krause 1934 (generic name n.v.p.). — Nannf. & Du R. 1952: *textplate f. 175.*
Tremella sagarum Retz. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

repanda Fr. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

saccharina (A. & S.) per Fr. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

HETEROCHAETE Pat. apud Pat. & Lag.

Hirneolina (Pat.) Bres. apud Sacc. & D. Sacc. 1905; fide Wells 1969 (M 61): 80 = *Heterochaete* emend. Bodm. 1952.

HETEROCHAETELLA (Bourd.) Bourd. & G.

brachyspora Luck. — D. Reid 1970 (TBS 55): 439 *fs. 5d–e.*

dubia (Bourd. & G.) Bourd. & G. — D. Reid 1970 (TBS 55): 437 *fs. 5a–c* ("*Heterochaete*" [= *Heterochaetella*]).

MYXARIUM Wallr.

hyalinum (Pers.) Donk (**143**).

Myxarium nucleatum Wallr. — D. Reid 1970 (TBS 55): 421 *fs. 1a, b.*

M.—*Tremella nucleata* Schw. sensu Berk. — McNabb 1966 (NZB 4): 535 *fs. 1c–e*, spores 10–13.5 (—17.5) × 4–5.8 μ.

laccatum (Bourd. & G.) D. Reid 1970 [transferred from *Sebacina*, Ch. 1. p. 177]. — D. Reid 1970 (TBS 55): 428 *fs. 3e, f.*

Sebacina mesomorpha Bourd. & G. — *Tremella* E. Krause 1932; *Elvelus* E. Krause 1934 (generic name n.v.p.). — [See further under *Sebacina laccata*, Ch. 1. p. 177].

subhyalinum (A. Pears.) D. Reid 1970. — *Sebacina* A. Pears. 1928 (England). — A. Pears. 1928 (TBS 13): 70, 71 *f. 3* (*Sebacina*); D. Reid 1970 (TBS 55): 426 *fs. 4f–i* (*Myxarium*).

Sebacina sublilacina G. W. Mart. (U.S.A., Iowa); fide D. Reid 1970 (TBS 55): 426. — *Myxarium* Raitv. 1967: 66 / 1969: 52 (incomplete ref.: n.v.p.) — [See further under *Sebacina*, Ch. 1., p. 178].

M.—*Sebacina fugacissima* Bourd. & G. sensu G. W. Mart. — [See further under *Sebacina subhyalina*, Ch. 1., p. 178].

PROTODONTIA Höhn.

SPECIAL LITERATURE.—Pilát, *1958.*

piceicola (Kühner ex Bourd.) G. W. Mart. — Nannf. & Du R. 1952: *text-plate f. 173* (*Protohydnum*).

PSEUDOHYDNUM P. Karst.

1868, not ∽ J. Rick 1904.

SEBACINA Tul.

calcea (Pers. per St-Am.) Bres. — *Thelephora* Pers. per St-Am. 1821; Laterr. 1821; *Stereum* E. Krause 1928.

Sebacina letendreana Pat. — *Sebacina* Pat.; Cost. & Duf. 1891: 207 ("*Letendrea*"); *Tremella* E. Krause 1930 ("*Letendrea*"), misapplied; 1932; *Elvelus* E. Krause 1934

(generic name n.v.p.). — Sensu E. Krause → *Tremella epigala* E. Krause, see "List of omitted names".

calospora (Bourd. & G.) Bourd. & G. — D. Reid 1970 (TBS 55): 432 *fs. 1c–e.*

crozalsii Bourd. & G. — Malenç. 1968 (CbB 7): 707, note.

effusa (Bref. ex Sacc.) Pat. — D. Reid 1970 (TBS 55): 429 *fs. 3a–d* (*Exidiopsis*).

Sebacina quercina (Vuill.) ex Maire. — *Tremella* E. Krause 1930, not ~ Pollini per Pollini 1824; *Elvelus* E. Krause 1934 (generic name n.v.p.).

epigaea (B. & Br.) Neuh. — McNabb 1966 (NZB 4): 538.

Exidiopsis glaira (Lloyd) Wells.

Sebacina opalea Bourd. & G. — D. Reid 1970 (TBS 55): 431 *fs. 2g–l* (*Exidiopsis*).

incrustans (Pers. per Fr.) Tul.

Thelephora sebacea Pers. — *Sebacina* Maire apud Maire & Pol. 1940.

laccata Bourd. & G. — Transfer to *Myxarium q.v.*

letendrea, see *Sebacina letendreana* under *S. calcea.*

molybdea McGuire. — D. Reid 1970 (TBS 55): 431, in obs. & as syn. of *Exidiopsis opalea* → [*Sebacina*] *Exidiopsis glaira* [Ch. 1., p. 175].

mucedinea Pat. apud Pat. & Lag. 1895 (Ecuador). — *Thelephora* Sacc. 1899; *Sebacina* Pat. 1900 ("*mucedina*"); *Exidiopsis* Wells 1957. — G. W. Mart. 1944 (Ll 7): 68 *f. 4*; (*Sebacina*); Wells 1957 (Ll 20): 46 *f. 1* (*Exidiopsis*); L. Olive 1958 (BTC 85): 23 (*Sebacina*); Wells 1960 (M 51): 560; 1961 (M 53): 346 (*Exidiopsis*); McNabb 1966 (NZB 4): 541 *fs. 2a–d* (*Sebacina*); reported from Armenia and Azerbaydjan by Raitv. 1967: 52 / 1969: 40 (*Exidiopsis*).

podlachica Bres. — *Myxarium* Raitv. 1967: 66 / 1969: 52 (incomplete ref.: n.v.p.). — D. Reid 1970 (TBS 55): 426, in obs.

Sebacina subhyalina A. Pears. — Transfer to *Myxarium q.v.* as a distinct species.

sublilacina G. W. Mart. — Transfer to *Myxarium q.v.* as a syn. of *M. subhyalinum.*

vermifera Oberw. — Warc. & Talb. 1967 (NPh 66): 638 *f. 7*, no clamps (same species ?).

SIROBASIDIUM Lag. & Pat.

SPECIAL LITERATURE.—Ramakrishnan & Subramanian, *1951.*

TREMELLA Pers. per St-Am.

SPECIAL LITERATURE.—Bandoni, *1965*; Jahn, *1969*; Pilát, *1928*; Slodki, *1966*; Slodki *& al., 1966*; Torkelsen, *1968.*

Elvelus E. Krause 1934 M.B.: 109 (nom. nud.: n.v.p.) (**144**). — Lectotype: *Helvella mesenterica* Schaeff.

aurantia Schw. 1822: Fr. 1822 (U.S.A., North Carolina). — *Dacrymyces* Farl. 1883, misapplied; *Guepiniopsis* Pat. 1893, misapplied; *Dacryopsis* Lloyd 1920 (error for *Dacrymyces*: n.v.p.), excl. of type; *Naematelia* Burt 1921, misapplied. — Sensu Bandoni 1961 (AMN 66): 326 *f. 4*; ? Raitv. 1967: 74 / 1969: 57, record for

Armenia, descr. poor. — Sensu Fr. 1828 (nomen) & Weinm. 1836 = *Tremella elegans* (nom. dub.) [Ch. 1., p. 312], fide Fr. 1874: 691; sensu Farl. → *Dacrymyces palmatus*; sensu Lloyd 1908 (LMW 3, O.S.): 11 *f.* 225 (*Tremella*) = *Tremella tremelloides* (Berk.) Mass. (extra-European).

encephala Pers. per Pers. — *Elvelus* E. Krause 1934 (generic name n.v.p.). — Tork. 1968 (NyM 15): 228 *fs. 1h, 3, 4, 6.*

exigua Desm.

Tremella genistae Lib. ex Roum. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

foliacea (Pers. per S. F. Gray) Pers. — Tork. 1968 (NyM 15): 232 *fs. 1i, 8, 10.*

Tremella undulata Hoffm. — *Tremella* Hoffm. per Pollini 1824, Zant. 1824.

frondosa Fr. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

globospora D. Reid 1970 (England). — D. Reid 1970 (TBS 55): 414 *fs. 4j,*

? *Sebacina globospora* Whelden, 1935 (Rh 37): 126 *pl. 331* (U.S.A., Kentucky); fide G. W. Mart. 1944 (SIa 183): 54 = *Tremella tuberculariа* [sensu Bourd. & L. Maire], but cf. Donk 1966 (Pe 4): 254 and D. Reid 1970 (TBS 55): 415.

M.—*Tremella tuberculariа* Berk. sensu Bourd. & L. Maire 1920. — [See further under this name in Ch. 1., p. 183].

indecorata Sommerf. — Elvelus E. Krause 1934 (generic name n.v.p.). — Tork. 1968 (NyB 15): 229 *fs. 1g, 5, 7.*

mycophaga G. W. Mart. — Tork. 1968 (NyM 15): 226 *f. 1a.*

obscura (L. Olive) M. P. Christ. — Tork. 1968 (NyM 15): 232 *f. 1j.*

polyporina D. Reid 1970 (England). — D. Reid 1970 (TBS 55): 416 *fs. 1i–k.*

simplex Jack. & Mart. apud G. W. Mart. — Tork. 1968 (NyM 15): 226 *fs. 1b, c, 2.*

tuberculata Berk. — Transfer to "List of omitted species" *q.v.* — Sensu Bourd. & L. Maire → *Tremella globospora.*

virescens (Schum. per Fr.) Bref. — *Elvelus* E. Krause 1934 (generic name n.v.p.).

Incertae sedis: 'Microtremella'

fusispora Bourd. & G. — *Sebacina* Raitv. 1967 (incomplete ref.: n.v.p.); 1968, misapplied ? — Identification doubtful: Raitv. 1967: 60 f. 49 / 1969: 46 *f. 49*; 1968 (TÜT 211): 96 *f. 2* (*Sebacina*).

TREMELLODENDROPSIS (Corner) D. A. Crawf.

SPECIAL LITERATURE.—Corner, *1966.*

TREMISCUS (Pers.) Lév.

SPECIAL LITERATURE.—Noguti, *1934*; Pilát, *1930.*

helvelloides (DC. per Pers.) Donk. — *Tremella* DC. per Pers. 1822, not ~ (Schw.) Lloyd 1919 (n.v.p.).

Tremella rufa Jacq. per Pers. — Noguti 1934 (JJB 10): 120 *fs. 1–3* (*Gyrocephalus*).

M.—*Craterellus cochleatus* Fr. sensu Strauss 1853 (StP Hfte 33–34): 7 *pl. 4* (**146**).

TULASNELLACEAE

SPECIAL LITERATURE.—Warcup & Talbot, *1967*.

CERATOBASIDIUM D. P. Rog. (**147**)

SPECIAL LITERATURE.—Castellani, *1936*; Hussain & McKeen, *1963*; Parmeter, Whitney, & Platt, *1967*.

Ceratobasidium **sp.** — Parmeter *& al.* 1967 (Ph 57): 220 *fs. 3, 5 at bottom, 6 at bottom* (**147**).

Rhizoctonia fraxini E. Cast. [Ch. 1., p. 189]; fide Parmeter *& al.* 1967 (Ph 57): 221, "mycelium binucleate and resembles *Ceratobasidium* sp".

Rhizoctonia pini-insignis E. Cast. [Ch. 1., p. 189]; fide Parmeter *& al.* 1967 (Ph 57): 221, "mycelium binucleate and resembles *Ceratobasidium* sp".

Rhizoctonia callae E. Cast. [Ch. 1. p. 189]; fide Parmeter *& al.* 1967 (Ph 57): 221, "mycelium binucleate and resembles *Ceratobasidium* sp".

Rhizoctonia munerati E. Cast. 1936 (NGi II 43): 563 *f. 1, pl. 7* (Italy) (lacking Latin descr.: n.v.p.) (nom. anam.); fide Parmeter *& al.* 1967 (Ph 57): 221, "mycelium binucleate and resembles *Ceratobasidium* sp".

Rhizoctonia endophytica Saks. & Vaar. 1960 (CJB 38): 936 *fs. 1–3, 16, 17* (Canada, Saskatchewan) (nom. anam.); fide Parmeter *& al.* 1967 (Ph 57): 222, "mycelium binucleate and resembles *Ceratobasidium* sp".

Rhizoctonia fragariae Hussain & McKeen 1963 (Ph 53): 533 *fs. 1–6* (Canada, Ontario) (nom. anam.); fide Parmeter *& al.* 1967 (Ph 57): 221, "mycelium binucleate and resembles *Ceratobasidium* sp".

Ceratobasidium **sp.** (Scotland). — Warc. & Talb. 1967 (NPh 66): 635 *f. 3*.

EXOBASIDIELLUM Donk

Transfer to Exobasidiales.

OLIVEONIA Donk

atrata (Bres.) Talbot.

? *Hypochnus subviolaceus* Peck 1894 (RNS 47): 151 (Canada); cf. M. Lars. 1966 (M 58): 603. — M. Lars. 1966 (M 58): 601 *f. 2* (*Hypochnus*).

THANATEPHORUS Donk (**148**)

SPECIAL LITERATURE. — Bracker & Butler, *1963*, *1964*; Dodman *& al.*, *1968*; Flentje, Dodman, & Kerr, *1963*; Flentje, Stretton, & McKenzie, *1967*; Hauerslev *1969*; Nakai *& al.*, *1968*; Parmeter, Sherwood, & Platt, *1969*; Parmeter, Whitney & Platt, *1967*; Shatla & Sinclair, *1966*; Tu *& al.*, *1969*; Whitney & Parmeter, *1963*

cucumeris (Frank) Donk. — Warc. & Talb. 1967 (NPh 66): 632, notes (*Thanatephorus*); Parmeter *& al.* 1967 (Ph 57): 220 *fs. 1, 2; & 5 at top, 6 at top* (basidia), cult. char.; Hauersl. *1969* (*Thanatephorus*).

orchidicola Warc. & Talb. 1966 (England). — Warc. & Talb. 1966 (TBS 49): 432 *f. 2*; 1967 (NPh 66): 633.

praticola (Kotila) Talbot; fide Talbot apud Parmeter *& al.* 1967 (Ph 57): 219 = *Thanatephorus cucumeris.*

sterigmaticus (Bourd.) Talbot. — Transfer to *Ypsilonidium q.v.*

Nomina anamorphosium

Rhizoctonia callae E. Cast. — Transfer to *Ceratobasidium* sp. Parmeter *& al.*

Rhizoctonia fraxini E. Cast. — Transfer to *Ceratobasidium* sp. Parmeter *& al.*

Rhizoctonia pini-insignis E. Cast. — Transfer to *Ceratobasidium* sp. Parmeter *& al.*

Rhizoctonia repens N. Bern. (**148**).

TULASNELLA J. Schroet.

allantospora Wak. & Pears. — Warc. & Talb. 1971 (NPh 70): 36 *f. 1.*

calospora (Boud.) Juel. — Warc. & Talb. 1967 (NPh 66): 635 *f. 4* (**148**).

violea (Quél.) Bourd. & G. — Warc. & Talb. 1971 (NPh 70): 37 *f. 2*, spores too small ?, 4.5–6.5 × 4–5.5 μm.

YPSILONIDIUM (Donk) Donk (**149**)

sterigmaticum (Bourd.) Donk. — Donk 1972 (PNA 75): 371 (**149**). — Warc. & Talb. 1967 (NPh 66): 633 *f. 1* (*Thanatephorus*). — Transferred from *Thanatephorus*, Ch. 1., p. 188.

langlei-regis (D. Reid) Donk. — Donk 1972 (PNA 75): 371 (**149**). — *Thanatephorus* D. Reid 1969. — D. Reid 1969 (TBS 52): 22 *fs. 3a, b* (*Thanatephorus*).

DACRYMYCETALES

SPECIAL LITERATURE.—Donk, 1964 (correction).

CALOCERA (Fr.) Fr.

furcata (Fr.) Fr. — D. Reid 1969 (RM 33): 346 *tpl. 8 fs. 18a–c.*

viscosa (Pers. per Fr.) Fr. — *Corallium* Hahn 1883.

DACRYMYCES Nees per Fr.

chrysocomus (Bull. per St-Am.) L. Tul. — Malenç. 1968 (CbB 7): 711 *f. 3.*

enatus (B. & C. apud Berk.) Mass.

Dacrymyces deliquescens var. *castaneus* Bourd. & G. (France). — Malenç. 1968 (CbB 7): 712.

estonicus Raitv. — D. Reid 1969 (RM 33): 350 *tpl. 7 fs. 22a–c.*

Ditiola nuda B. & Br. — Cf. McNabb 1966 (NZJ 4): 554.

Ditiola fagi Oud. — Cf. McNabb 1966 (NZB 4): 553.

Ditiola ulicis Plowr. — Cf. McNabb 1966 (NZB 4): 554.

tortus (Willd.) per Fr.

Dacrymyces punctiformis Neuh. — Nannf. & Du R. 1952: 226 *textplate f. 174.*

DITIOLA Fr.

SPECIAL LITERATURE.—McNabb, *1966.*

radicata (A. & S.) per Fr. — McNabb 1966 (NZB 4): 548 (**150**).

GUEPINIOPSIS Pat.

1883. — Published again as "Gen. nov." by Pat. 1885 (JMi 9): 120 with "Ex. *Guepiniopsis tortus* (Willd.), sp. nov. (*Guepinia*, de By)".

buccina (Pers. per Pers.) L. Kenn. — Delete '*Guepinia* Sacc. 1873' as a recombination under this name. Add as a synonym:

Guepinia b u c c i n a Sacc. 1873 (Italy). — Sacc. 1873 (ASv 2): 108 *pl. 8 fs. 1–6.*

EXOBASIDIALES

Muribasidiosporaceae Kamat & Rajendren apud Rajendren 1970 (M 61): 1159.
Dicellomycetaceae Parmasto 1968 (EAT 17): 226.

SPECIAL LITERATURE.—Norberg, *1968*; Parmasto, *1968*; Raitviir, *1967*; Rajendren, *1968, 1970a, 1970b.*

DICELLOMYCES L. Olive

1945 [1956 (Re 4): 115]. — Holotype: *Dicellomyces gloeosporus* L. Olive.

SPECIAL LITERATURE.—Olive, *1945*; Parmasto, *1968.*

scirpi Raitv. apud Parm. 1968 (Estonia). — Parm. 1968 (EAT 17): 223 *f. 1.*

EXOBASIDIELLUM Donk

culmigenum Webster & Reid apud D. Reid 1969. — D. Reid 1969 (TBS 52): 20 *f. 2.*

graminicola (Bres.) Donk [Ch. 1., p. 186]. — Parm. 1968 (EAT 17): 224 *f. 2.*

EXOBASIDIUM Woronin

≡ *Exobasidiotus* E. Krause 1934 M.B.: 109.

Muribasidiospora Kamat & Rajendren apud Rajendren 1968 (Myp 36): 219. — Holotype: *Muribasidiospora indica* Kamat & Rajendren apud Rajendren (**151**).

SPECIAL LITERATURE.—Norberg, *1968*; Pilát, *1936* (n.v.); Raitviir, *1967b.*

On Ericaceae

arctostaphyli Harkn. 1884 (BCA 1): 30 (U.S.A., California). — Linder 1947: 272, in obs., *f. 5f–h* (*Exobasidium*); Savile 1959 (CJB 37): 649 *f. 2* (*E. vaccinii* var.). — This European record is based on Liro, Mycoth. fennica No. 624.

discoideum J. B. Ell. — Siemaszko 1915 (MMR 1[3]): 30 *f. 10*, no descr.

rhododendri (Fuck.) Cramer apud Geyler.

Exobasidium rhododendri Quél. — Pat. 1886 (BbF 33): 336 ("Doass." in litt.).

vaccinii (Fuck.) Woronin. — *Exobasidiotus* E. Krause 1934.

On other families

citri Siemaszko. — Transfer to "List of omitted names", *q.v.*

Notes

TREMELLINEAE

Exidia

(**142**). Reid [1970 (TBS 55): 420] rejected the name *Exidia albida* [Ch. 1., pp. 166, 223] in favour of *E. thuretiana* mainly because Hudson's original description was thought to be insufficient for certain recognition or even based on something different. This exchange of names would upset the use of the often accepted name *E. albida*, although the name *E. thuretiana* is also in use. After a renewed study of Hudson's description I am now inclined to agree with Reid that it is far from certain that Hudson described *E. thuretiana*, although I am not yet completely convinced. Moreover, *E. albida* has been applied in different senses and *E. thuretiana* has not. The use of *E. thuretiana* appears preferable.

Myxarium

(**143**). Reid [1970 (TBS 55): 423] believed that Donk [Ch. 1., pp. 171, 234] "has upset the nomenclature by resurrecting an old epithet of Persoon which is tied to an inadequate diagnosis". This in connection with my use of the name *Myxarium hyalinum* instead of *M. nucleatum* Wallr. I gave my reasons for so doing. First, I followed the interpretation accepted by Bourdot & Galzin and Neuhoff; secondly, the same description scorned by Reid was considered to be just sufficient. I see no reason to change my mind. The fact that Wallroth mentioned the nuclei is of course undeniable, but the species often does not form them, and this seems to have been the case with Persoon's fungus.

Tremella

(**144**). Krause (1934 M.B.: 109) published "*Elvelus*" as a nomen nudum. He gave no reference or description and merely added "Tremelleae aut"., and invalid refer-

ence to an unspecified group above the rank of a genus. He included not only *Tremella* but all Tremellineae. In order to be able to place the name in synonymy *Helvella mesenterica* Schaeff. is herewith selected as 'type'. The genus is not to be identified with *Elvela* L. (1753: 1180, devalidated name) per St-Am. (1821: 537, "*Helvella*"), the well-known genus of Pezizales (Ascomycetes).

(**145**). The record of *Tremella aurantia* from Armenia by Raitviir requires some scepticism. His description is brief and does not mention a whitish and firm core at the inside of the fruitbody. Such a core is characteristic of species formerly referred to the genus *Naematelia*, which appeared to be based on a species of *Tremella* parasitizing a species of *Stereum*. Raitviir does mention this connection in a somewhat tentative manner: 'together with *Stereum hirsutum* Fr. and probably parasitizing it' (translated). Confusion with *T. mesenterica* seems not altogether impossible.

Specific delimitations between these parasitizing tremellas are apparently not too well settled. For this reason it was tentatively suggested [cf. Ch. 1., p. 244] to restrict *T. encephala* to material growing on coniferous wood and consistently parasitizing *Stereum sanguinolentum*. Raitviir recorded *T. aurantia* from wood of deciduous trees and as growing together with *Stereum hirsutum*. Apart from certain collections on hardwoods (deciduous trees) that were tentatively referred to *T. encephala* by American authors (for instance, *Naematelia cerebriformis* J. B. Ell. apud Peck on *Carpinus*, by Bandoni [1961 (AMN 66): 323]) North American collections on hardwood have been often referred to *Naematelia quercina* Coker = *Tremella tremelloides* (Berk.) Mass. = *Tremella aurantia* Schw. "in the sense of various authors" (inclusive of Lloyd). According to Bandoni [1966 (AMN 66): 325–326] the true *T. aurantia* is different from *T. tremelloides*.

Tremiscus

(**146**). The identity of what Fries (1838: 534) described as *Craterellus cochleatus* is unknown (cf. also Corner 1966: 92). The plate published by Strauss was commented upon by Fries (1863 M. 2: 341) thus: "Icon eximia, at color magis, quam in meo, roseus". I have little doubt that Strauss depicted *Tremiscus helvelloides*, but I still find it difficult to recognize this fungus from Fries's original description.

TULASNELLACEAE

Ceratobasidium

(**147**). The number of species of *Ceratobasidium* is rapidly increasing in connection with strains isolated from orchids and the study of previously described *Rhizoctonia* isolates. These rhizoctonias fall apart into two groups, one with hyphal cells with only a single dikaryon (*Ceratobasidium*) and one with coenocytic cells apparently containing several dikaryons (*Thanatephorus*). Parmeter & *al.* (1967) con-

centrated all strains of *Ceratobasidium* into a single species, their "*Ceratobasidium* sp". which may not be homogeneous. Warcup & Talbot (1967, 1971) obtained no less than five species from orchids of which *C. cornigerum* and C. sp. were represented by isolates from Scotland.

Thanatephorus

(**148**). *Rhizoctonia repens* has been repeatedly isolated from orchids. Warcup & Talbot [1967 (NPh 66): 636, 640] referred some of the more recent isolates placed under this name to *Tulasnella calospora*. They also remarked that the moniliform blastospores of their interpretation of *Sebacina vermifera* Oberw. are similar in form and size to those of *Rhizoctonia repens*.

Ypsilonidium

(**149**). *Ypsilonidium* Donk 1972 (PNA 75): 371.

Ypsilonidium sterigmaticum (Bourd.) Donk was placed by Donk [1958 (Fu 28): 21] in *Uthatobasidium* but with some hesitation which will explain why he placed it in a special section of that genus and did not make a new combination. Talbot [1965 (Pe 3): 390] transferred it to *Thanatephorus*. I am not sure that this is a better disposition. It is as yet not known whether the hyphal cells are coenocytic as they are in the typical species of *Thanatephorus*, or dikaryotic as in the species of *Ceratobasidium* investigated in this respect. *Thanatephorus* comprizes species that may act as typical parasites and regularly form *Rhizoctonia* stages. *Ypsilonidium sterigmaticus* is saprobic and lacks a *Rhizoctonia* state.

Another fungus has been described with similar basidia and sterigmata, also lacking a *Rhizoctonia* state, and doubtfully an active parasite. This second species, *Ypsilonidium langlei-regis* (D. Reid) Donk differs in its closed, palisadic hymenium which reminded me of *Corticium terrigenum*. However, Talbot [1965 (Pe 4): 401 *f. 19*] found that its spores were not repetitive; they also become septate and the basidia are 3–4-spored with relatively much less strongly developed sterigmata. Both Reid and Talbot (*apud* Reid) believed the species closely related to *Corticium sterigmaticum*. I now agree with them that this is the more likely relationship of *Ypsilonidium langlei-regis* and that the structure of the fruitbody is merely of a more strongly developed and condensed structure than in *Corticium sterigmaticum*. The two species seem worthy of generic separation from both *Uthatobasidium* and *Thanatephorus*. However, further investigation is much desired.

DACRYMYCETALES

Ditiola

(**150**). McNabb [1966 (NZJ 4): 550] included *Coryne gyrocephala* B. & C. and its synonyms as a distinct variety in *Ditiola radicata*. All his records of the latter are

from Europe while those of the former are from North America. For the time being I treat the two taxa here as if they were distinct species. For *Coryne gyrocephala*, see "List of omitted names".

EXOBASIDIALES

Exobasidium

(**151**). The genus *Muribasidiospora* (Rajendren, *1968*) was primarily based on an Indian species, *M. indica* Kamat & Rajendren *apud* Rajendren, growing on *Rhus mysorensis* (Anacardiaceae). It produces basidiospores that become muriformly septate; the basidia protrude in fascicles through stomata of the host. Two other species that had been referred to *Exobasidium* and produce muriformly septate spores were also included in the new genus. One of these species is *E. hesperidum* Maire on *Rhus oxyacantha* (Anacardiaceae) described from Morocco. Like *M. indica* it forms tufts of basidia protruding from stomata; the fascicles finally destruct the epidermis and become confluent into patches. The other species is *E. celtidis* T. & K. Ramakr. which grows in India on *Celtis tetrandra* (Ulmaceae); it forms hymenia at the underside of leaves. Both these species were included in *Muribasidiospora* but this assumption of relationship appears ill-founded as far as *E. celtidis* is concerned.

Later Rajendren (*1970a*) published a special family (Muribasidiosporaceae) for his genus after he had obtained the fungus in culture (*1970b*) and found its growth radically different from the usual yeast colonies developing in cultures of other species of *Exobasidium* (such as parasitize Ericaceae). I am convinced that the mycelial state described by him must be a contamination; there is little doubt that it belongs to that ubiquistous 'black mould' and imperfect fungus *Aureobasidium pullulans* (Bary) Arnaud. On my request Dr. J. A. von Arx kindly wrote me that in his opinion the figures indicate in every respect this fungus. There is no reason to assume that Rajendren established the true connection between this imperfect fungus and a basidiferous state.

Rajendren (*1968*: 221) also thought that after the exclusion of the muriformly spored species *Exobasidium* became a genus with transversally septate spores and inciting hypertrophy in their hosts. He is wrong on both counts because even if confining the genus to species on Ericaceae some of them are not known to form septa and several do not cause hypertrophy. As long as *Exobasidium* is maintained in a wide sense including also species growing on hosts belonging to various other families than Ericaceae, I cannot find sufficient arguments not to reduce *Muribasidiospora* to *Exobasidium*. That *Muribasidiospora* should not cause galls is certainly not true for *E. hesperidum*, of which Maire [1917 (BfA 1): 183] wrote, "Il y a donc là de véritables cécidies".

List of omitted names

albida, Tuberculariа, Berk.; ≡ *Tremella tuberculariа* Berk. [Ch. 1., p. 183]; ≡ *Endostilbum albidum* (Berk.) D. Reid 1970 (TBS 55): 413, an imperfect state, and the correct name for *E. cerasi* (Bourd. & G.) Malenç. [Ch. 1., p. 308]. — Sensu Bourd. & L. Maire → *Tremella globospora* D. Reid.

aurantiaca, Dacrymycetella, D. Reid 1969 (RM 33): 347 *tpl. 8 fs. 21a–c* (France, Corsica). — An imperfect fungus considered by the author to be a state of some species of *Dacrymyces*.

brunnea, Dacryomitra, G. W. Mart. 1934 (M 26): 263 *pl. 31 fs. 11–14* (Canada, Ontario). — L. Kenn. 1964 (M 56): 302 and McNabb 1966 (NZB 4): 550, 551 referred this to *Ditiola radicata* var. *gyrocephala* (= *Coryne* [*Ditiola*] *gyrocephala*, see this list), cf. also (**150**).

caesia, Sebacina, (Pers.) Tul. [Ch. 1., p. 307]; *Tremella* E. Krause 1930, misapplied; *Elvelus* E. Krause 1934 (generic name n.v.p.), misapplied.

camelliae, Exobasidium, Shirai [Ch. 1., p. 307]. — D. Reid 1969 (TBS 52): 19 *f. 1a–d, pl. 3 f. 2*.

candidus, Tremellodon, (Schmidt per Fr.) Quél. 1888; *Hydnum* Schmidt 1817 (MH 1): 89 (Germany) (d.n.) per Fr. 1821, not ~ Willd. 1788 (d.n.); *Sarcodon* Quél. 1886; *Malacodon* Bataille 1924. — Nomen dubium.

cerasi, Sirobasidium, Bourd. & G. [Ch. 1., p. 308] = *Endostilbum albidum*, see this list.

citri, Exobasidium, Siemaszko 1915 (MMR 1[3]): 30 *fs. 5–9* (U.S.S.R., Caucasia). — I saw the original publication and recognized *Aureobasidium pullulans* (Bary) Arnaud from it. This determination was confirmed by Dr. J. A. von Arx, Baarn.

clavariaeformis, Tremella, Wulf. 1788 [Ch. 1., p. 309]; *Tremella* Arth. 1901.

culmigena, Dacryopsis, (Mont. & Fr. apud Mont.) Höhn. 1909; *Pistillaria* Mont. & Fr. apud Mont. 1836 (ASn II 5): 337 *pl. 12 f. 1* (France); *Clavaria* P. Karst. 1881; *Typhula* J. Schroet. 1888; *Dacryopsella* Höhn. 1915. — A species of Clavariaceae, cf. Donk 1933: 96; Corner 1950: 479.

Epidochiopsis P. Karst. [Ch. 1., p. 313]; 1892 (BFi 51): 499 ("n. sl.").

epigala, Tremella, E. Krause 1932 B.r.: 146 (Germany); *Elvelus* E. Krause 1934 (generic name n.v.p.); [≡ *Tremella letendreana* (Pat.) E. Krause sensu E. Krause 1930 B.r.: 104 ("Letendrea")]. — Nomen dubium. — The specific epithet has no connection with that of *Sebacina 'epigaea'*.

esculenta, Tremella, Rox. Clem. 1864: 63 (Spain). — Nomen nudum.

fuciformis, Tremella, Berk. [Ch. 1., p. 315]. — McNabb 1966 (NZB 4): 536 *f. 1f, g*, New Zealand. — Special literature: Pilát, *1928*.

gyrocephala, Coryne, B. & C. 1849 (HJB 1): 239, Berk. 1873 (G 2): 20 (U.S.A., South Carolina); *Dacryopsis* Mass. 1891; *Dacryomitra* Pat. 1900; *Ditiola radicata* var. L. Kenn. 1964. — Referred to *Ditiola radicata* as a var. by L. Kenn. and McNabb 1966 (NZB 4): 550 f. 1b (with descr.) but cf. (**150**).

japonicum, Exobasidium, Shirai [Ch. 1., p. 318]; *Exobasidiotus* E. Krause 1934 ("Ulbrich").

juniperina, Tremella, L. 1753 [Ch. 1., p. 318]; *Tremella* Arth. 1901.
mespili, Tremella, Arth. 1901 [Ch. 1., p. 321] (nom. nud.).
penicillata, Tremella, Arth. 1901 [Ch. 1., p. 325] (nom. nud.).
pezizoides, Tubercularia, Schum. in herb. (Denmark). — Rostr. 1885 (OdF 1884[3]): 150 studied Schumacher's specimen of which he wrote: "Expl. i Samlingen tilhøre *Dacrymyces chrysocomus* (Bull.), og er irst nok den samme som i Enum. p. 416 er beskreven under Navn af *Peziza subplana*".
rolleyi, Exidia, L. Olive 1958 (BTC 85): 95 (Society Is.) — Cited with doubt as a syn. of *Sebacina* [*Tremella*] *fusispora* by Raitv. 1968 (TÜT 211): 96, an unlikely guess.
rosea, Tremella, E. Krause 1930 B.r.: 104 (Germany), not ~ (Schreb.) Plan. 1788 (d.n.), not ~ Höhn. 1903; *Elvelus* E. Krause 1934 (generic name n.v.p.). — Nomen dubium.
sabinae, Tremella, Dicks. 1785 [Ch. 1., p. 328]; *Tremella* Arth. 1901.
sanguinea, Tulasnella, (Fr.) E. Krause 1934 ≡ *Peniophora* [*Phanerochaete*] *sanguinea* (Fr.) Höhn. & L. — 'Corticiaceae'.
spathularia, Dacryopinax, (Schw.: Fr.) G. W. Mart. [Ch. l., p. 329]. — The syns. of this species (an alien in Europe) are fully listed by McNabb 1965 (NZB 3): 63. — Special literature: Goldstrohm & Lilly, *1965*; Vall & Lilly, *1968*.
squamosa, Tremella, Schum. [Ch. 1., p. 330]. — Rostr. 1885 (OdF 1884[3]): 157 studied Schumacher's specimen and concluded that it was without doubt a conidial form (unknown until then) of *Onygena equina* (Willd.) per S. F. Gray. [?]
stipitata, Tremella, Peck 1875 (RNS 27): 100 *pl. 2 fs. 22, 23* (U.S.A., New York), not ~ Willd. 1787 (d.n.), not ~ Bosc per Schw. 1822; *Dacryomitra* Burt 1921. — Referred by L. Kenn. 1959 (M 50): 893 to *Dacryopinax spathularia* (as a "phase"), but McNabb made it a syn. of *Ditiola radicata* var. *gyrocephala* = *Coryne* [*Ditiola*] *gyrocephala* (see this list), cf. also (**150**).
tubercularia, Tremella, Berk. → *Tubercularia albida*, see this list.
tuberculariodes, Ditiola, Lib. "Herb. n. 470" (Belgium) (n.v.p.); *Ciliciopodium* (Lib.) ex Sacc. 1881 F.d.: *f. 755*. — Fide Booth 1959 (MPa 73): 32 = *Nectria aurantiaca* (Tul.) Jacz., stat. imp. — Deuteromycetes.
uvida, Thelephora viscosa var. Fr. 1828 E. 1: 218 (Sweden); *Tremella* E. Krause 1930, misapplied; *Elvelus* E. Krause 1934 (generic name n.v.p.), misapplied; = *Phlebia livida* (Pers. per Fr.) Bres. (Corticiaceae).
violacea, Tremella, Pers. — *Dacrymyces* "*violascens* C.D" [=*D. violacea* sensu Tul.; Cost. & Duf.] of E. Krause 1925 (ANM 78): 135, 1928 B.r.: 59 is fide E. Krause 1930 B.r. 105, "zu streichen; vgl. . . . *Stereum* [*Gloeocystidiellum*] *lividocaeruleum*. Die übrigen Exemplare waren Konidienträger von *Coryne purpurea* Fuckel".
violascens → *violacea, Tremella*, Pers.

Explanation of strongly reduced bibliographic references

(**ANM**), Arch. Freunde NatGes. Mecklenb. — (**ASv**), Atti Soc. ven.-trent. Sci. nat. (**BfA**), Bull. Stn Rech. for. N. Afr.

(**CbB**), Collnea bot., Barcinone — Corner **1966**, Monogr. cantharelloid Fungi. — Cost. & Duf. **1891**, Nouv. Fl. Champ.

Ell. & Ev. **N.A.F.**, N. Am. Fungi [exs.] II

S. F. Gray **1821**, Nat. Arr. Br. Pl. 1

(**JJB**), J. Japan. Bot. — (**JMi**), J. Microgr.

E. Krause **B.r.**, Basidiom. rostock.; **M.B.**, Mecklenb. Basid.

(**LMW**), Lloyd, Mycol. Writ.

Maubl. **1926**, Maladies paras., 3e Ed. (Delacr. & Maubl., Maladies Pl. cult.).

Nannf. & Du R. **1952**, Vilda Växt. Norden, Uppl. 2. — (**NPh**), New Phytol. — (**NyM**), Nytt Mag. Bot.

(**OdF**), Overs. K. danske Vidensk. Selsk. Forh.

Raitv. **1967**, Opred. geterob. Grib. / 1969, Key Heterobas. USSR [English translation]. — (**Rh**), Rhodora. — Rox. Clem. **1864**, Plantas Titáguas **in** Revta Progr. Ci. exact. fis. nat. **14** [Reprint cited; ed. Colm.; "Rojas"]

Sacc., **F.d.**, Fungi ital. autogr. delin.

Velen. **1947**, Novit. mycol. nov.

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