

SHORT NOTE

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Index of unidentified ectomycorrhizae**V. Names published 1995–1997**

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Abstract This latest instalment of the index of unidentified ectomycorrhizae lists binomials and reference specimen characterizations of ectomycorrhizae first described in 1995–1997.

Key words Ectomycorrhizae · Systematics · Taxonomy

Introduction

The “reference specimens” quoted below are preserved as fixed material in the following herbaria:

Eberswalde: Centre for Agricultural Landscape and Land Use Research Müncheberg, Institute of Microbial Ecology and Soil Biology, Dr.-Zinn-Weg 18, D-16225 Eberswalde, Germany

KRA: Herbarium, Institute of Botany, Jagiellonian University, Lubicz 46, PL-31-512 Kraków, Poland

LG: Herbarium, Department de Botanique, Université de Liège, Sart Tilman, B 22, B-4000 Liège, Belgium

M: Botanische Staatssammlung München, Menzingerstr. 67, D-80638 Munich, Germany

PAD: Erbario Patavinum, Centro Musei Scientifici, Università degli Studi di Padova, Via Orto Botanico 15, I-35123 Padua, Italy

Binomial Index

“*Alnirhiza atroverrucosa*” (Pritsch 1996:117; Pritsch et al. 1997:213)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km

south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Aatr (in *M*).

“*Alnirhiza cana*” (Pritsch 1996:80; Pritsch et al. 1997:207)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Acan (in *M*).

“*Alnirhiza cremicolor*” (Pritsch 1996:112; Pritsch et al. 1997:213)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Acre (in *M*).

“*Alnirhiza cystidiobrunnea*” (Pritsch 1996:89; Pritsch et al. 1997:209)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Acys (in *M*).

“*Alnirhiza lilacina*” (Pritsch 1996:59; Pritsch et al. 1997:203)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.9.1994, Alil (in *M*).

“*Alnirhiza suffusa*” (Pritsch 1996:76; Pritsch et al. 1997:207)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Asuf (in *M*).

“*Alnirhiza texta*” (Pritsch 1996:84; Pritsch et al. 1997:207)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.9.1994, Atex (in *M*).

“*Alnirhiza violacea*” (Pritsch 1996:64; Pritsch et al. 1997:205)

Reference specimen: Germany, Schleswig-Holstein, 60-year-old black alder stand at Lake Belau, 30 km south of Kiel, soil core exc., myc. isol. K. Pritsch, 30.8.1994, Avio (in *M*).

“*Nothofagirhiza vinicolor*” (Palfner and Godoy 1996:65)

Reference specimen: Chile, X. region, Provincia de Osorno, Cordillera de los Andes, Parque Nacional Puyehue, Antillanca (lat. 40°42' S, long. 72°18' W), mountain forest of *Nothofagus pumilio* (*Carici minutissimae-Nothofagetum pumilionis*), alt. 1100 m, soil volcanic ashes (Andosol), annual precipitation 4500–5000 mm, soil core exc., myc. isol. G. Palfner, 18.3.1995 (late summer, end of dry period), GP 1204c (in *M*).

“*Piceirhiza cornuta*” (Montecchio and Agerer 1997:31)

Reference specimen: Italy, Trentino-Alto Adige Region, Siror (TN), alt. 1220 m, lat. 46°14' N, long. 11°48'32' E, vermimull, pH 6.5, superficial organic layer rich in stones, soil core exc., myc. isol. L. Montecchio, 14.9.1996, in herb L. Montecchio LMP1 (in *PAD*).

“*Piceirhiza stagonopleres*” (Beenken and Agerer 1996:71)

Reference specimen: Germany, Bayern, Regierungsbezirk Oberbayern, Landkreis Starnberg, forest in the north of the city Tutzing, called “Kalkgraben”, in litter of needles, on *Picea abies* roots, lat. 47°55' N, long. 11°17' E, alt. 680 m, soil core exc., myc. isol. L. Beenken, 22.10.1994, MBL 76 (in *M*).

“*Pinirhiza arachnorosea*” (Wöllecke et al. 1997a:37)

Reference specimen: Germany, Brandenburg, Biosphärenreservat Schorfheide-Chorin, Revier Hubertusstock, *Pinus sylvestris* forest, soil core exc., myc. isol. J. Wöllecke, 11.10.1996, in herb. J. Wöllecke fwrH-3 (in *Eberswalde*).

“*Pinirhiza granulosa*” (Golldack et al. 1996a:77)

Reference specimen: Germany, Brandenburg, Lausitz, Landkreis Elbe-Elster, near Tröbitz, Revier Domsdorf, on *Pinus sylvestris* roots, soil core exc., myc. isol. J. Golldack, 24.11.1995, JGM 1a (in *M*).

“*Pinirhiza lactariosimilis*” (Golldack et al. 1997a:43)

Reference specimen: Germany, Brandenburg, Landkreis Oberspreewald-Lausitz, Meuro (near Hörlitz/Senftenberg) in a *Pinus sylvestris* stand on a reclamation site (lignite mining), soil core exc., myc. isol. J. Golldack, 22.4.1996, JGM 14 (in *M*).

“*Pinirhiza lactogelatinosa*” (Golldack et al. 1997b:49)

Reference specimen: Germany, Brandenburg, Landkreis Oberspreewald-Lausitz, Meuro (near Hörlitz/Senftenberg) in a *Pinus sylvestris* stand on a reclamation site (lignite mining), soil core exc., myc. isol. J. Golldack, 3.6.1996, JGM 20a (in *M*).

“*Pinirhiza lutea*” (Mleczo 1996:83)

Reference specimen: Poland, Parzniewice near Belchatów, *Pino-Quercetum* forest, under a 30-year-old *Pinus sylvestris* tree, soil core exc. M. Langer, 30.8.1994, myc. isol. P. Mleczo, PM 22 (in *KRA*).

“*Pinirhiza luteoalba*” (Wöllecke et al. 1997b:55)

Reference specimen: Germany, Brandenburg, Biosphärenreservat Schorfheide-Chorin, Revier Hubertusstock, *Pinus sylvestris* forest, soil core exc., myc. isol. J. Wöllecke, 11.10.1996, herb. J. Wöllecke fwgH-3 (in *Eberswalde*).

“*Pinirhiza stellannulata*” (Golldack et al. 1996b:89)

Reference specimen: Germany, Brandenburg, Lausitz, Landkreis Elbe-Elster, near Tröbitz, Revier Domsdorf, on *Pinus sylvestris* roots, soil core exc., myc. isol. J. Golldack, 24.11.1995, JGM 1b (in *M*).

“*Populirhiza pustulosa*” (Mleczo 1997:61)

Reference specimen: Poland, Parzniewice near Belchatów, *Pino-Quercetum* forest, close to 30-year-old *Pinus sylvestris* tree and a *Populus tremula* tree 3 m apart, soil core exc. M. Langer, 14.10.1994, myc. isol. P. Mleczo, herb. P. Mleczo PM 37 (in *KRA*).

“*Pseudotsugaerhiza baculifera*” (Müller and Agerer 1996:95)

Reference specimen: USA, Oregon, Lane County, Andrew's Experimental Forest, Road No. 1506, near concrete bridge, alt. 600 m, under *Tsuga heterophylla*, *Thuja plicata*, and *Pseudotsuga menziesii*, on *P. menziesii*, soil core exc., myc. isol. R. Agerer, 23.8.1994, RA 12099 (in *M*).

“*Quercirhiza argenteobrunneola*” (Fischer and Agerer 1996:101)

Reference specimen: Spain, Vivero Forestal Central, de la Junta de Castillo y Leon, Valladolid, peat, pH 6.2, soil core exc., myc. isol. C. Fischer 17.11.1995 (in *M*).

“*Quercirhiza fibulocystidiata*” (Jakucs et al. 1997:67)

Reference specimen: Hungary, Gödöllő Hills (Zöld haz) in mixed broad-leaved forest, under 4- to 5-m high *Quercus* sp., soil core exc., myc. isol. R. Agerer, E. Jakucs, Z. Bratek, 3.10.1995, RA 12220 (in *M*).

“*Quercirhiza squamosa*” (Palfner and Agerer 1996:138)

Reference specimen: Slovenia, Krakovski Gozd, on *Quercus robur*, soil core exc., myc. isol. G. Palfner, 23.9.1993, GP 501b (in *M*).

“*Tetraberliniaerhiza bicolor*” (Moyersoen 1996a:137)

Reference specimen: Cameroun, Korup National Park, along transect P, in top of mineral soil below litter, soil core exc., myc. isol. B. Moyersoen, 20.4.1995, herb. B. Moyersoen BM 955 Ma (in *LG*).

“*Tetraberliniaerhiza cerviformis*” (Moyersoen 1996b:143)

Reference specimen: Cameroun, Korup National Park, along transect P, in top of mineral soil below litter, soil core exc., myc. isol. B. Moyersoen, 20.4.1995, herb. B. Moyersoen BM 955 Mb (in *LG*).

“*Tetraberliniaerhiza heterocystidiae*” (Moyersoen 1996c:149)

Reference specimen: Cameroun, Korup National Park, along transect P, in top of mineral soil below litter, soil core exc., myc. isol. B. Moyersoén, 20.4.1995, herb. B. Moyersoén BM 955Mc (in *LG*).

“*Tsugaerhiza luteoannulata*” (Agerer and Molina 1997:79)

Reference specimen: USA, Oregon, Cougar Pass, state highway 126, lat. 44°5' N, long. 123°35' W, soil core exc., myc. isol. R. Agerer, 26.6.1995, RA12210a (in *M*).

“*Tsugaerhiza tripigmentata*” (Agerer and Trappe 1997:85)

Reference specimen: USA, Oregon, Crabtree-lake, old-growth stand of *Pseudotsuga menziesii* and *Tsuga heterophylla*, on *Tsuga heterophylla*, soil core exc., myc. isol. R. Agerer, 25.6.1995, RA 12205a (in *M*).

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