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Redisposition of species from the Guignardia sexual state of *Phyllosticta*

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Abstract

Several species named in the genus "Guignardia" have been transferred to other genera before the commencement of this study. Two families and genera to which species are transferred are Botryosphaeriaceae (Botryosphaeria, Vestergrenia, Neodeightonia) and Hyphonectriaceae (Hyponectria). In this paper, new combinations reported include Botryosphaeria cocöes (Petch) Wulandari, comb. nov., Vestergrenia atropurpurea (Chardón) Wulandari, comb. nov., V. dinochloae (Rehm) Wulandari, comb. nov., V. tetrazygiae (Stevens) Wulandari, comb. nov., while six taxa are synonymized with known species of *Phyllosticta*, viz. *Phyllosticta effusa* (Rehm) Sacc.[(= Botryosphaeria obtusae (Schw.) Shoemaker], Phyllosticta sophorae Kantshaveli Botryosphaeria ribis Grossenbacher & Duggar], Phyllosticta haydenii (Berk. & M.A. Kurtis) Arx & E. Müller [= Botryosphaeria zeae (Stout) von Arx & E. Müller], Phyllosticta justiciae F. Stevens [= Vestergrenia justiciae (F. Stevens) Petr.], Phyllosticta manokwaria K.D. Hyde [= Neodeightonia palmicola J.K Liu, R. Phookamsak & K. D. Hydel and Phyllosticta rhamnii Reusser [= Hyponectria cf. buxi (DC) Sacc.]. In this paper, identification of "Guignardia" species is based on morphological characteristics. A large number of taxa labeled as "Guignardia" in literature, could not be loaned from various herbaria, or are lost or untraceable are listed as 'doubtful species' in view of insufficient supportive taxonomic data. Fresh collections, cultures and molecular sequence data are needed to clarify the phylogeny and taxonomy of cryptic species.

Key words – Dothideomycetes – Guignardia – plant diseases – saprobes – taxonomy

Introduction

In a recent work, 34 species in the genus *Phyllosticta* are accepted (Wulandari et al. 2013). The sexual state of *Phyllosticta*, "Guignardia", has previously been studied by several authors (Van der Aa 1973, Punithalingham 1974, Sivanesan 1984, Hyde 1995, Okane et al. 2001, Van der Aa & Vanev 2002, Okane et al. 2003, Motohashi et al. 2008, Wulandari et al. 2009, Motohashi et al. 2010). The species of *Guignardia* have earlier been synonymized in genera such as *Botryoshaeria*, (Yamamoto 1961) and *Glomerella* (Arx & Müller 1954). Presently, species of *Guignardia* are synonymized with 24 different genera. These include, *Apioplagiostoma*, *Laestadia*, *Hyphonectria* (Hyponectriaceae: Incertia sedis), *Glomerella* (Phyllachoraceae?: Phyllachorales), *Apiosporopsis*

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(Sordariales), Polystigma., Obryzum, Discosphaerina, Physalospora, Gelatinopsis, Lichenosticta, Didymella (Dothideales: Incertae Sedis), Plectosphaera, Verrucaria, Haloguignardia, Phyllachora (Phyllachoraceae: Phyllachorales), Botryosphaeria (Botryosphaeriaceae: Dothideales), Diaporthe (Diaporthales), Mycosphaerella (Mycosphaerellaceae: Dothideales), Rosselliniella, Puiggarina, Tellogalla, Catapyrenium, Isothea, Plectosphaera, Valsella (Valsaceae: Diaporthales) and Turgidosculum (Index Fungorum-http://www.indexfungorum.org/; accessed December 2012). This is primarily because this genus had a wide inclusiveness and any fungus with unicellular ascospores, any type of asci and simple ascomata were placed in this genus.

In this paper, we dealt with 304 species of sexual *Phyllosticta* ("Guignardia") and transferred several of them to appropriate species, but a large number are listed as doubtful species in view of insufficient supportive data. The aim of this paper is to redescribe some of the valid species which otherwise were not listed as "Guignardia" and to list those labeled as "Guignardia" but unable to be loaned, lost, traceable or doubtful species.

Materials & Methods

Holotype specimen in the name of "Guignardia" were loaned from various International herbaria worldwide. Morphological examinations were done following the procedure described by Wulandari et al. (2010). Melzer's solution was used to identify the J- and J+ for unitunicate asci. All line drawings and photo-plates are prepared by the first author. Annotations were made for the loaned holotype specimen.

In Section I which includes all redisposed taxa, for each species, taxonomic nomenclature with citation, synonymy, MycoBank number (for new combinations only), species diagnosis, details of examined specimen and brief notes are given. In Section II which accommodates doubtful, untraceable, missing and invalid species of "Guignardia", details on taxonomy, citation, synonymy, herbarium, present status and needful notes are provided in tabular form. Wherever possible, descriptions are supported with photo-plates and line drawings of fungi.

Results

In this study of 304 taxa of sexual *Phyllosticta* ("Guignardia"), 14 species are transferred to 4 genera in 3 families and described in detail. The order and families to which species transferred include Botryosphaeriaceae (*Botryosphaeria* spp., *Vestergrenia* spp., *Neodeightonia* sp.) in Botryosphaeriales and Hyphonectriaceae (*Hyponectria* sp.). Of the remaining, 107 species are considered doubtful, lost or untraceable. The rest 183, so called "Guignardia" species, found in literature including Index Fungorum-http://www.indexfungorum.org/ could not be loaned during the time frame of the study. These 290 species of "Guignardia" are tabulated in Table 2 with details sourced from literature. It is hoped that the facts provided here will encourage and facilitate future workers to recollect fresh specimens and undertake further morpho-molecular studies.

Taxonomy:

Redisposition of species of Guignardia

Section 1: Transfered species

Botryosphaeriales C.L. Schoch, Crous & Shoemaker, in Schoch, Shoemaker, Seifert, Hambleton, Spatafora & Crous, Mycologia 98(6): 1050 (2007) [2006]

Botryosphaeriales presently comprises three families, *Botryosphaeriaceae* (29 genera), *Phyllostictaceae* (5 genera), and *Planistromataceae* (2 genera) (Liu et al. 2012, Hyde et al. 2013, Monkai et al. 2013).

Botryosphaeriaceae Ces. & De Not., Comm. Soc. crittog. Ital. 1(4): 211 (1863)

Botryosphaeria Theiss. & Syd. [as 'Botryosphaeriacae'], Annls mycol. 16(1/2): 16 (1918)

Botryosphaeria cocöes (Petch) Wulandari, comb. nov.

(Fig. 1a-g)

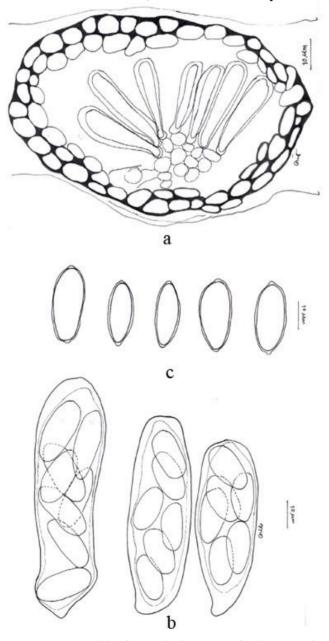
Index Fungorum: IF550638

- = Guignardia cocöes (Petch) K.D. Hyde (1995); MycoBank: MB 447509
- *Desmotascus cocöes* Petch [as 'cocoes'] 1922

Pathogenic causing leaf spots. *Leaf spots* brown, necrotic, with concentric rings of blackened dots. *Ascomata* developing under raised, carbonaceous, slightly darkened areas, occasionally erumpent and cracking the host surface, mostly solitary, in vertical section 250–300 μm diam., subglobose, immersed beneath the host cuticle, ostiolate. *Peridium* up to 25 μm wide, composed of a few layers of brown-walled angular cells. *Pseudoparaphyses* not observed. *Asci* 75–125 \times 20–25 μm, 8-spored, clavate, pedicellate, bitunicate, fissitunicate, apically rounded, with an ocular chamber. *Ascospores* 23–26.5 \times 9–10 μm, 2–3-seriate irregularly ellipsoidal, 1-celled, hyaline, with apical button-like germ pores and remnants of mucilage on the surface.

Material examined – SOLOMON ISLANDS, on leaves of *Cocos nucifera*, June1917, Petch (K, from holotype of *Guignardia cocöes*).

Notes – This species is not a *Guignardia* but a species of *Botryosphaeria*. It is different from other species in the genus *Botryosphaeria* by ornamented, thick-walled ascospores. Known distribution of the fungus is in Solomon Islands (Sivanesan 1984, Hyde 1995).



Figs 1a–c – *Botryosphaeria cocöes* (K, from holotype of *Guignardia cocöes*). a, Peridium comprising one strata of 2–4 cells *textura angularis* with thickened brown walls. b, Asci. c, Ascospores. – Scale bars a-c = $10 \, \mu m$.

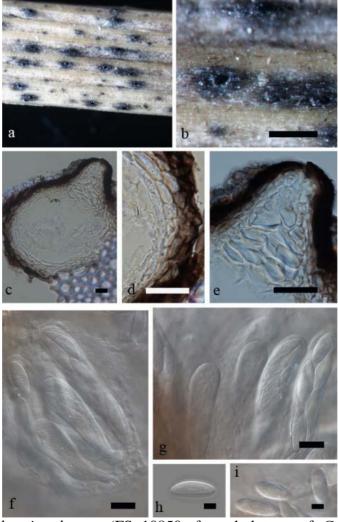
Botryosphaeria obtusae (Schw.) Shoemaker, Canadian Journal of Botany 42: 1298 (1964) (Fig. 2a-i)

- = Guignardia effusa (Rehm) Sacc., Syll. fung. (Abellini) 24(2): 784 (1928) MycoBank: MB 213834
- ≡ Laestadia effusa Rehm (1915), Annls mycol. 13(1): 4 (1915)

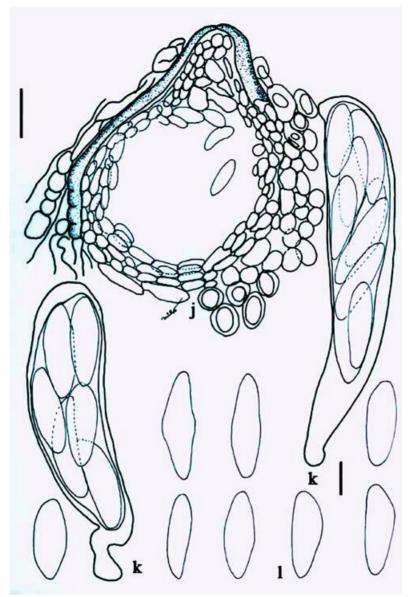
Ascomata 150–200 µm diam., 155–200 µm high, scattered, solitary, dark brown to black, globose to subglobose, immersed to semi-immersed in plant tissues. *Peridium* 15–20 µm wide, one strata of 2–4 layers of cells *textura angularis* with thickened brown walls around ostiole. *Asci* 70–145 × 11–25 µm ($\bar{x} = 100 \times 20$ µm, n = 20), 8–spored, bitunicate, cylindrical to cylindric-clavate, rounded at the apex where the diam. is 10–20 µm, tapering gradually to 15–26 × 5–7 µm long pedicel attached to the basal peridium. *Ascospores* 20–30 × 7–10 µm ($\bar{x} = 25 \times 10$ µm, n = 20), irregularly biseriate, fusoid, wider around the mid region, hyaline to greenish, 1–celled, guttulate, smooth-walled, without mucilaginous sheath at the ends.

Material examined – UK, London, on stems of *Milium effusum*, 31 January 1914 (F 10850, from holotype of *Guignardia effusa*).

Notes – *Botryosphaeria obtusae*, conforms its identity, as the morphological characters are similar with the description given by Sivanesan (1984). The asexual state is *Diplodia seriata* (Sivanesan 1984). *Botryosphaeria obtusae* is responsible for one of important plant diseases in Tunisia, olive tree branch dieback (Chattaoui et al. 2012). ITS 1 and ITS 4 were used to identify this species from dieback and olive root rot symptoms in Tunisia (Chattaoui et al. 2012).



Figs 2a–i – *Botryosphaeria obtusae* (FS 10850, from holotype of *Guignardia effusa*). a, b Ascomata on host surface. c-e Peridium comprising one strata of 2–4 cells *textura angularis* with thickened brown walls. f, g Asci. h, i Ascospores. – Scale bars b, c = 100 μ m, d = 40 μ m, e, f = 10 μ m, g = 20 μ m.



Figs 2j–l – *Botryosphaeria obtusae* (F 10850, from holotype of *Guignardia effusa*) line drawing. j, Peridium comprising one strata of 2–4 cells *textura angularis* with thickened brown walls. k, Asci. l, Ascospores. – Scale bars = $25 \mu m$.

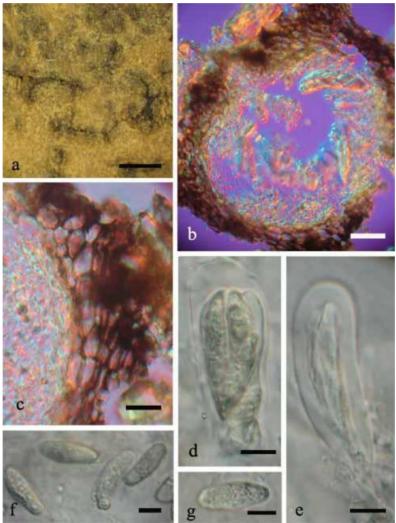
Botryosphaeria ribis Grossenbacher & Duggar, Technical Bulletin New York Agricultural Experiment Station 18: 128 (1911) (Fig. 3a-g)

= Guignardia sophorae Kantshaveli, Morbi plantarum 17: 84 (1928) MycoBank: 278408

Ascomata 125–200 µm diam., 125–205 µm high, on surface of the leaves, black, globose to subglobose, immersed to semi-immersed in plant tissues. *Peridium* 38–63 µm wide, one strata of 2–4 layers of cells *textura angularis*, with thickened brown walls around ostiole. *Asci* 55–90 × 13–23 µm ($\bar{x} = 71 \times 19$ µm, n = 20), 8–spored, bitunicate, cylindrical to cylindric-clavate, rounded at the apex where the diam. is 13–20 µm, tapering gradually to a 8–23 × 8–15 µm long pedicel attached to the basal peridium. *Ascospores* 18–25 × 5–10 µm ($\bar{x} = 21 \times 7$ µm, n = 20), uniseriate to biseriate, ellipsoidal, widest 2/5 near the apex (obtrullate), hyaline to greenish, 1–celled, coarse-guttulate, smooth-walled, without mucilaginous sheath at the ends.

Material examined – GEORGIA, Tiflis on stems of *Sophora japonica* (Fabaceae), 25 October 1936, Kantshaveli, V. L. Komarov Botanical Institute. Prof. Popov Street 2. Saint Petersburg 197376, Russia (LE 34626, from holotype of *Guignardia sophorae*).

Notes – Morphologically the specimen labeled as *Guignardia sophorae* is similar to *Botrysphaeria ribis* (Sivanesan 1984) and hence the transfer was done. The asexual state is *Fusicoccum ribis* (Macedo & Baretto 2008). Three genes sequenced (ITS, EF and β-tubulin) showed two distinct phylogenetic assemblages within two asexual morphs (*Fusicoccum* and *Diplodia*) (Slippers et al. 2004).



Figs 3a–g – *Botryosphaeria ribis* (LE 34626, from holotype of *Guignardia sophorae*). a, Ascomata on host surface. b, c Peridium comprising one strata of 2–3 cells *textura angularis* with thickened brown walls. d, Asci. e, Immature asci. f, g Ascospores. – Scale bars $a = 200 \mu m$, b, $c = 40 \mu m$, d, $g = 10 \mu m$.

Botryosphaeria zeae (Stout) von Arx & E. Müller, (Fig. 4a–i) Beitr. Krypt.– fl. Schweiz 11: 40 (1954)

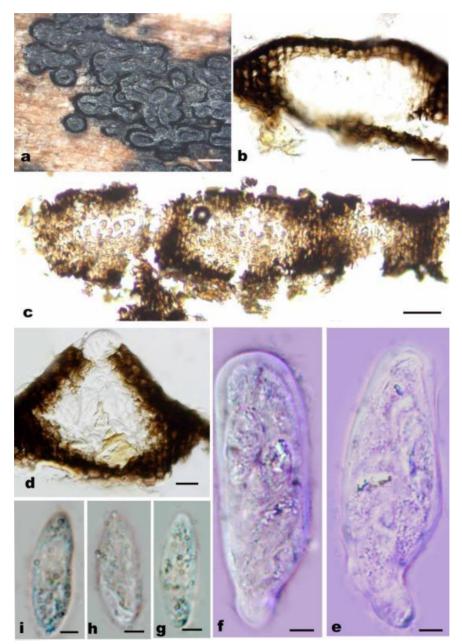
- = Guignardia haydenii (Berk. & M.A. Curtis) Arx & E. Mull. (1954) MycoBank: MB 344112
- ≡ Dothidea haydenii Berk. & M.A. Curtis, Grevillea 4 (no. 31): 104 (1876)

Ascomata in groups and connected to each other, individually 28–80 μ m diam., 90–200 μ m high, black, globose to rectangular, immersed in plant tissue; in vertical section subglobose, with an indistinct ostiole. *Peridium* 13–67 μ m diam. in the upper region, 11–13 μ m in the base, comprising two strata of thickened black-walled cells *textura angularis*, with inner wall layer cells paler and vertical. *Asci* 41–66 \times 12–16 μ m, 6–8–spored, bitunicate, with ocular chamber, attached to the basal peridium, cylindrical to slightly clavate, rounded at the apex where diam. is 7–10 μ m, tapering gradually a to 15–26 \times 5–7 μ m short pedicel attached to the basal peridium. *Ascospores* 14–17 \times 4–

6 μm, biseriate, overlapping, ellipsoidal to cylindrical, slightly fusiform, hyaline, 1–celled, guttulate, smooth-walled, without a mucilaginous sheath.

Material examined – Near Fargo, N. Dak., on stems of *Aster paniculatus* (Asteraceae), 5 June 1915, Brenckle and Stevens, Fungi Dakotensis Brenckle (BPI 845200, from isotype of *Guignardia haydenii*).

Notes – Morphology of *Guignardia haydenii* is similar to *Botryosphaeria zeae* (Sivanesan 1984) and therefore this transfer was done. So far, no molecular study has been done for this taxon.



Figs 4a–i – *Botryosphaeria zeae* (BPI 845200, from isotype of *Guignardia haydenii*). a, Ascomata on host surface. b-d. Peridium comprising one strata of 2–4 cells of *textura angularis* with thickened brown walls. e, f Asci. g-i. Ascospores. – Scale bars a = 100 μ m, b, c = 100 μ m, d = 40 μ m, e, f = 10 μ m, g-i = 10 μ m.

Vestergrenia Rehm, Hedwigia 40: 100 (1901)

Vestergrenia atropurpurea (Chardon) Wulandari, comb. nov.

(Fig. 5a-g)

Index Fungorum: IF550639

⁼ Guignardia atropurpurea Chardón, Mycologia 32(2): 177 (1940) MycoBank: MB 286749

Parasitic leaves with irregular leaf spots, with ascomata visible on the surface as numerous black dots. *Ascomata* 200–250 μm diam., 175–250 μm high, epiphyllous, black, pseudothecium, globose to subglobose, immersed in plant tissues, coriaceous, solitary to clustered, ostiolate, with ostioles as a black dots in the centre. *Peridium* 12.5–37.5 μm wide, comprising one strata of 2–3 layers of cells *textura angularis* with thickened brown walls. *Pseudoparaphyses* not observed. *Asci* 74–154 × 20–26 μm (\bar{x} = 118 × 22 μm, n = 20), 8–spored, bitunicate, without a distinct ocular chamber subclavate to cylindrical, rounded at the apex where the diam. is 12–22 μm, tapering gradually to a 16–92 × 4–6 μm long pedicel attached to the basal peridium. *Ascospores* 14–18 × 6–10 μm (\bar{x} = 16 × 8 μm, n = 20), biseriate, ellipsoidal, hyaline to greenish, 1–celled, coarse-guttulate, smooth-walled, without a mucilaginous sheath.

Material examined – BRAZIL, Viçosa, on dead leaves of *Miconia* sp. (Melastomataceae), 4 January 1933, Fungus de Minas Geraes, Müller 443 (BPI 598138, from holotype of *Guignardia atropurpurea*).

Notes – With its carbonaceous, large ascomata and oblong ascospores, *Guignardia atropurpurea* is morphologically similar to *Vestergrenia* (Liu et al. 2012). However, this does not conform to other described species in the genus and therefore new combination is proposed.

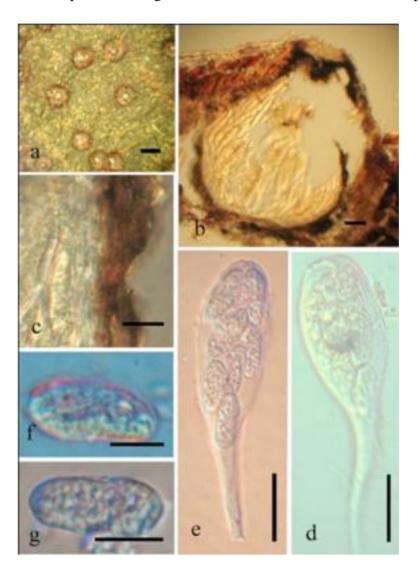


Fig. 5a–g – *Vestergrenia atropurpurea* (BPI 598138, from holotype of *Guignardia atropurpurea*) a.Ascomata on the host surface. b-c. Peridium comprising one strata comprising 2–3 layers of cells of *textura angularis* with thickened brown walls. d-e. Asci. f-g. Ascospores. Scale bars $a = 200 \mu m$, b-c = 15 μm , d-e = 26 μm , f-g = 10 μm .

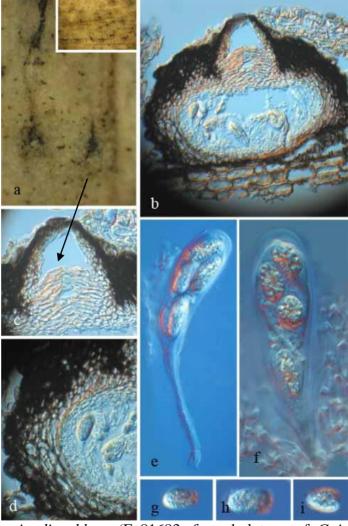
Index Fungorum: IF550640

= Guignardia dinochloae Rehm, Leafl. of Philipp. Bot. 8: 2936 (1916) Mycobank: MB 212586

Saprobic on leaf litter with irregular spots, with ascomata visible on leaf spots as black dots. *Ascomata* 200–250 μm diam., 190–200 μm high, pseudothecium, epiphyllous, black, globose to subglobose, immersed in plant tissues, coriaceous, solitary to clustered, ostiolate, with ostiole as a black dot in the centre. *Peridium* 35–40 μm wide, comprising one strata of 2–3 layers of cells *textura angularis* with thickened brown walls. *Pseudoparaphyses* not observed. *Asci* 60–110 × 15–26 μm ($\bar{x} = 90 \times 20$ μm, n = 20), 8-spored, bitunicate, fissitunicate, pedicel attached to the basal peridium. *Ascospores* 14–18 × 6–10 μm ($\bar{x} = 16 \times 8$ μm, n = 20), biseriate, ellipsoidal, hyaline to greenish, 1–celled, coarse-guttulate, smooth-walled, without a mucilaginous sheath.

Material examined – PHILIPPINES, Mount Maquiling, near Los Banos province, Laguna, on *Dinochloa* sp. (Poaceae). December 1913, C.F. Baker (F 81683, from holotype of *Guignardia dinochloae*; F 81684; F 81684).

Notes – This specimen differs from other *Vestergrenia* by presence of periphyses on the ostiolar neck of ascomata. The ascomata is fully immersed in the host and not visible on the surface of the leaves as in other species of *Vestergrenia*.



Figs 6a–g – *Vestergrenia dinochloae* (F 81683, from holotype of *Guignardia dinochloae*) a, Ascomata on the host surface. b, d. Peridium comprising one strata of 2–3 layers of cells *textura angularis* with thickened brown walls. c, Ascomata neck with periphyses (arrow). d-f. Asci (fissitunicate). g, Ascospores. – Scale bars a = 200 μ m, b, c = 50 μ m, d, e = 10 μ m, f = 26 μ m, g = 10 μ m.

= Guignardia justiciae F. Stevens, Bot. Gaz.69: 255 (1920) MycoBank: MB 208681

Ascomata 200–250 µm diam., 250–288 µm high, on the surface of the leaves, pseudothecium, black, globose to subglobose, semi-immersed in tanned plant tissues, hard, solitary, ostiolate, with ostioles as a black dots in the centre. *Peridium* 38–50 µm wide, comprising one strata of 2–3 layers of cells of *textura globularis* with thickened brown walls. *Pseudoparaphyses* not observed. *Asci* 73–125 × 16–26 µm ($\bar{x} = 92 \times 22$ µm, n = 20), 8–spored, bitunicate, fissitunicate, with an ocular chamber 3–6 µm high, broadly cylindrical to cylindro-clavate, rounded at the apex where the diam. is 13–18 µm, tapering gradually to a 19–63 × 4–5 µm long pedicel attached to the basal peridium. *Ascospores* 9–26 × 6–13 µm ($\bar{x} = 20 \times 9$ µm, n = 20), overlapping biseriate, ovoid, diamond-shaped, hyaline to greenish, 1-celled, coarse-guttulate, smooth-walled, with a mucilaginous sheath on both ends.

Material examined – PUERTO RICO, Maricao, on leaves of *Justicia verticillaris* (Acanthaceae). 28 August 1913, F.L. Stevens, Private Herbarium F.L. Stevens No. 806, University Illinios Herbarum No. 2839 (ILL 9738, from holotype of *Guignardia justiciae*); PUERTO RICO, El Yungue, on the leaves of *Justicia verticillaris*, 16 July 1915, F. L. Stevens, University Illinios Herbarum No. 8557 (ILL9737, from paratype of *Guignardia justiciae*).

Notes – This species differs from other *Vestergrenia* species, by unique peridium with cells of *textura globularis* and diamond-shaped ascospores. In others, the cells of the peridium are *texura angularis* and ascospores ellipsoidal (Liu et al. 2012)

Vestergrenia tetrazygiae (Stevens) Wulandari, comb. nov.

(Fig. 8a-i)

Index Fungorum: IF550641

= Guignardia tetrazygiae F. Stevens, Bot. Gaz. 69: 255 (1920) MycoBank: MB 528760

Ascostromata 150–188 µm diam., 150–200 µm high, on upper and lower leaf surface, pseudothecium, black, globose to sub-globose, immersed in plant tissues. *Peridium* 38–53 µm wide, in one strata 1–2 layers of cells *textura angularis* with thickened brown angular walls. *Asci* 63–150 × 25–38 µm ($\bar{x}=104\times31$ µm, n = 10), 8–spored, bitunicate, cylindrical to cylindro-clavate, rounded at the apex where the diam. is 18–25 µm, tapering gradually to a 25–75 × 3–8 µm long pedicel attached to the basal peridium. *Ascospores* 18–28 × 10–13 µm ($\bar{x}=24\times12$ um, n = 20), biseriate, ellipsoidal, oblong, hyaline to greenish, 1–celled, coarse-guttulate, smooth-walled, without mucilaginous appendage at the ends.

Material examined – Puerto Rico, Vega Alga, on leaves of *Tetrazygia eleagnoidea* (Melastomataceae), Nov. 1913, F.L Stevens (BPI 844972, from holotype of *Guignardia tetrazygiae*).

Notes – With ascostromata growing on the veins of the leaves, asci with long pedicel, ellipsoidal to ovoid and guttulate ascospores with a thick perispore, *Guignardia tetrazygiae* is similar to *Vestergrenia* (Liu et al. 2012). However, its small-sized ascomata is unique and therefore the new combination is proposed.

Neodeightonia C. Booth, in Punithalingam, Mycol. Pap. 119: 17 (1970) [1969] Neodeightonia palmicola J.K Liu, R. Phookamsak & K.D. Hyde., Sydowia 62(2):261–276 (2010) (Fig. 9a-i)

= Guignardia manokwaria K.D. Hyde, Sydowia 47(2): 191 (1995) MycoBank: MB 413137

Ascomata developing under slightly darkened area, occasionally erumpent and cracking the host surface, mostly solitary, in vertical section ca 200 µm diam., 100 µm high, conical, immersed beneath the host cuticle with an erumpent apex, base flattened, with a thin spreading stroma at the periphery of the ascoma. Peridium up to 30 µm wide, thin below, composed of dark-brown-walled angular cells at the sides. At the periphery is a wedge of dark-brown angular cells, which extends as a thin line between adjacent ascomata. Pseudoparaphyses up to 4 µm diam., hypha-like,

filamentous, composed of short cylindrical cells, $8\text{-}10 \times 4~\mu m$ diam. Asci $70\text{-}100 \times 20\text{-}24~\mu m$, 8-spored, clavate, pedunculate, bitunicate, fissitunicate, apically rounded with an ocular chamber and faint ring. Ascospores $22\text{-}30 \times 8\text{-}12~\mu m$, 2–3-seriate, fusiform or fusiform-rhomboid, unicellular, hyaline, with apical button-like germ-pores and surrounded by a mucilaginous sheath with an irregular wavy outline.

Material examined – INDONESIA, Irian Jaya, Manokwari, on rachides of dead *Gelubia* sp., (Arecaceae) Mar. 1992, K.D. Hyde and N. Ragä (KDH 1206, from holotype of *Guignardia manokwaria*, BRIP 22749, phototype).

Notes – Similarities in morphology and molecular sequences data lead synonymising *Guignardia manokwaria* under *Neodeightonia palmicola* J.K Liu, R. Phookamsak and K.D. Hyde (Liu et al. 2011).

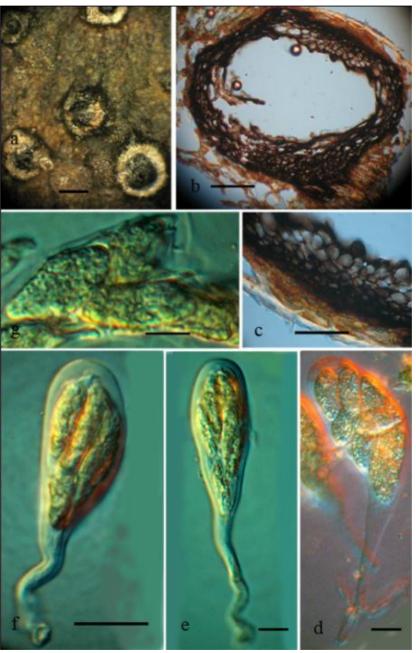
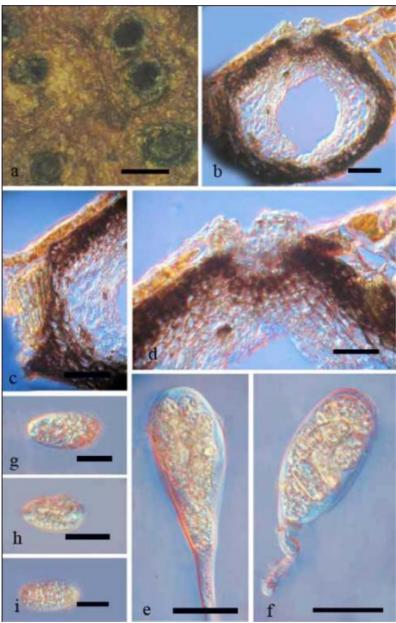


Fig. 7a–g – *Vestergrenia justiciae* (ILL 9738, from holotype of *Guignardia justiciae*) a, Ascomata on the host surface. b, c Peridium comprising one strata 2–3 layers of cells of *textura angularis* with thickened brown walls. d-f Asci. g, Ascospores. – Scale bars $a = 200 \mu m$, b, $c = 50 \mu m$, d, $e = 10 \mu m$, $f = 26 \mu m$, $g = 10 \mu m$.

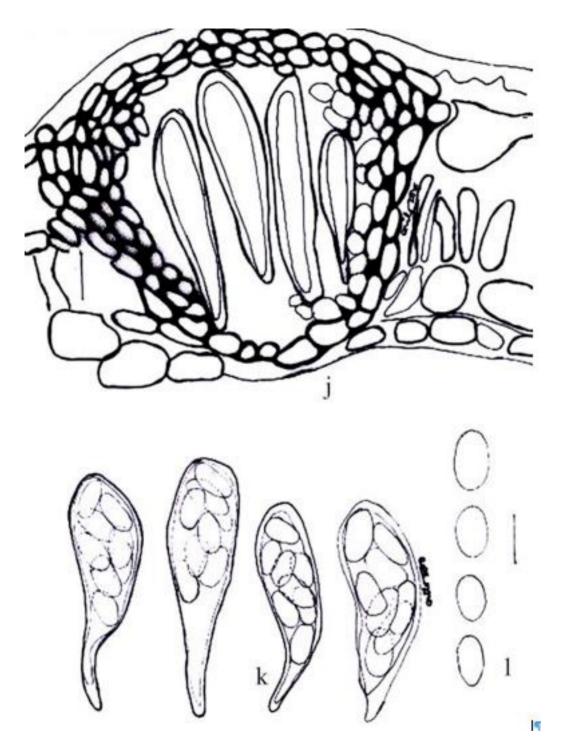
Hypocreales in Engler & Prantl, *Nat. Pflanzenfam.*, Teil. **I** (Leipzig) **1**: 343 (1897)

Hyponectriaceae Petr. (1923), as a family has accommodated 22 genera with 15 synonyms and 128 species (Kirk et al. 2008). *Hyponectria* Sacc. (1978), a genus of Hyponectriaceae, is wide spread on dead leaves and other substrates, and consists of 16 species (Index Fungorum; Kirk et al. 2008). Index fungorum lists 49 species or epithets. The affinities of all these remains uncertain, pending further molecular analyses. *Physalospora* Niessl. and *Hyponectria* Sacc., are distinguished by the size of ascomata and ascospores. The ascomata in *Physalospora* is up to 400 μm diam. and ascospores range from 20 up to 30 μm, whereas in *Hyponectria* the ascomata is rarely up to 200 μm diam. and ascospores length rarely extend over 20 μm. Both *Physalospora* and *Hyponectria* react with chitinoid (J+ or and J-) (Barr 1977).

Hyponectriaceae Petr., Annls mycol. 21(3/4): 305 (1923)



Figs 8a–i – *Vestergrenia tetrazygiae* (BPI 844972, from holotype of *Guignardia tetrazygiae*). a, b Ascomata on host surface. c, d Peridium comprising 1–2 cells of *textura angularis* with thickened angular brown walls. e, f Asci. g, i Ascospores clavate viewed in any plane. Scale bars $a = 200 \mu m$, $b-d = 40 \mu m$, $e-f = 30 \mu m$, $g-i = 13 \mu m$.



Figs 8j–m – *Vestergrenia tetrazygiae* (BPI 844972, from holotype of *Guignardia tetrazygiae*) line drawing. j, Section of ascoma in the leaf. k, Asci. l, Ascospores. – Scale bars = $10 \mu m$.

Hyponectria Sacc., Michelia 1(no. 2): 250 (1878)

Hyponectria cf. buxi (DC) Sacc. Michelia 1(2): 250 (1878)

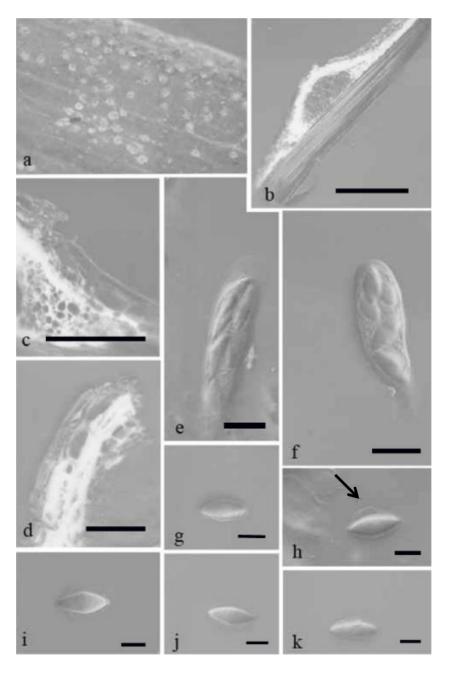
(Fig. 10a-h)

- = Guignardia rhamni Reusser Phytopathologische Zeitschrift 51: 235 (1959) MycoBank: MB 331548
- = Guignardia cirsii Reusser Phytopathologische Zeitschrift 51: 235–236 (1964)
- = Guignardia lonicerae Dearness & Barthelow Mycologia 18: 245 (1926)
- = Laestadia steppani Petrak, Annales Mycologicy 18: 111 (1911)
- = Guignardia steppani Petr. Annales Mycologici 32: 407 (1934)

Ascomata 70–140 μm diam., 50–100 μm high, on the surface of the leaf, perithecium, black, globose to sub-globose, immersed in plant tissues, coriaceous, solitary to clustered, ostiolate. Ostioles as black dots at the centre. Peridium 7–15 μm wide, one strata of 2 layers of cells textura

angularis with thickened brown walls around ostiole. Paraphyses not observed. Asci 48–71 \times 8–13µm ($\bar{x} = 57 \times 9$ µm, n = 10), 8–spored, unitunicate, cylindrical to cylindric-clavate, rounded at the apex, where the diam. is 8–10 µm, tapering gradually to a 4–19 \times 4–6 µm long pedicel attached to the basal peridium. Ascospores 11–14 \times 3–5 µm ($\bar{x} = 12 \times 4$ µm, n = 20), uniseriate or occasionally overlapping biseriate, falcate, fusiform, obovoid, ellipsoidal to oblong, hyaline, 1-celled, coarse-guttulate, smooth-walled.

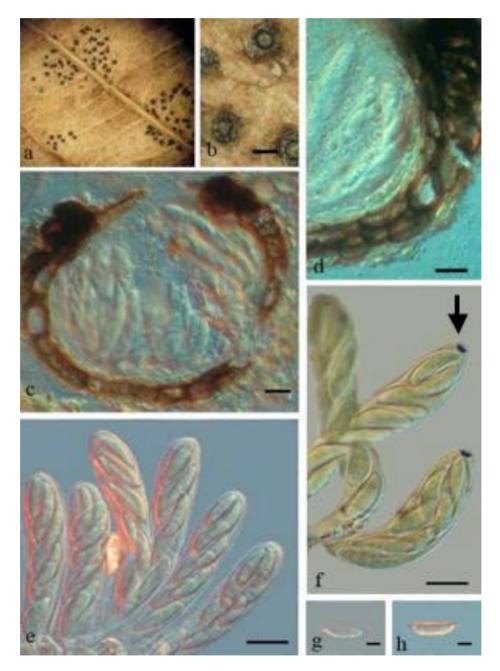
Material examined – SWITZERLAND, Von Vallon Betton, Massif de la Ste. Baume, var Frankreich on leaf of *Rhamnus alpina*, 3 June 1959, E. Müller, Botanische Sammlungen der Eidg. Technischen Hochschulezürich Flora des Aletschreservats 2965, Zürich (ETH 2965, from holotype of *G. rhamni*), SWITZERLAND, Unterster Teil gegen batch, Aletschwqld, Kanton Wallis on leaf of *Cirsium spinossimum*, 16 June 1963, E. Müller, Botanische Sammlungen der Eidg. Technischen Hochschulezürich Flora des Aletschreservats no number, Zürich (ETH, from holotype of *G. cirsii*),



Figs 9a–k – *Neodeightonia palmicola* (KDH 1206, from holotype of *Guignardia manokwaria*) a, Ascomata on the host surface. b-d. Peridium comprising one strata of 2–3 layers of cells *textura angularis* with thickened brown walls. e, f. Asci. g-k. Ascospores (irregular wavy sheath, an arrowed). – Scale bars b = 100 μ m, c, d = 30 μ m, e, f = 25 μ m, g-k = 12 μ m.

USA, California, Alto Palo on leaf of *Lonicera hispidula*, 16 Mach 1918, E.T. Bartholow, New York Botanical Garden no number, New York (DAOM 5842, from holotype of *G. lonicerae*), CZECHOSLOVAKIA, Theusing, Bohemia, Bernkklau on leaf of *Solidago virgaurea*, June 1917, Steppan. R, Flora Bohemia and Moraviae Exsiccata No. 1232 (BPI 598475, from holotype of *G. steppani*).

Notes – With unitunicate asci and J^+ sub-apical ring, *Guignardia cirsii* and *G. lonicerae* are similar to *Hyponectria* Sacc. All species of *Hyponectria* are J^+ and J^- . Rarely, the diam. of ascomata is more than 200 μ m and ascospores more than 30 μ m. There are only small differences between *Hyponectria* cf. *buxi* and the 4 species of *Guignardia* examined. The synopsis of the species is listed in table 1.



Figs 10a–h – *Hyponectria* cf. *buxi* (from holotype of *G. rhamnii*) a, Leaf spots on the leaves. b, Ascomata on the host surface. c, d. Peridium comprising one strata 2–3 layers of cells *textura* angularis with thickened brown walls and ostiole on the top. e, f. Asci, J^+ sub-apical ring by Meltzer (arrowed). g, h. Ascospores. – Scale bars $b = 100 \mu m$, c, $d = 15 \mu m$, e, $f = 10 \mu m$, g, $h = 5 \mu m$.

Table 1 Synopsis of speices of Guignardia synonymised under Hyponectria cf buxi

Host plants and	Ascomata (μm);	Asci (μm);	Ascospores
Previous species nam	Peridium (μm)	AApical Ring J-/J+	(μm)
Rhamnus alpina	$70-140 \times 50-100; 7-15$	$48-71 \times 8-13;$	$11-14 \times 3-5$
(G. rhamni)		J+ (J plus)	
Cirsium spinosissimum	$88-175 \times 88-175$; $9-20$	$50-78 \times 8-15;$	$15-21 \times 5-6$
(G. cirsii)		J+ (J plus)	
Lonicera hispidula	$88-163 \times 100-163$; 15-20	63–93 x 13–17;	$13-19 \times 5-8$
(G. lonicerae)		J- (J minus)	
Solidago virgaurea	$100-125 \times 95-125$; $15-25$	44–61 ×	$21-20 \times 5-10$
(G. steppani)		10–17;	
		J- (J minus)	

Section 2: 290 Doubtful species (107 specimens found in poor condition and 183 unloaned specimens, apparently missing and with invalid name)

Several holotype specimens of *Phyllosticta* obtained from various herbaria were found in poor condition, meaning lack of ascomata contents, absence of asci, ascospores and hamathecium. In some material, it was too less and inadequate to put into microscopic studies. Some of those specimens with ready-to-observe slides of type in fact contained no fungal material. Where cultures maintained as type, in some, the mats were in depauperate condition. In other cases, the repositories responded with message that specimens are lost, invalid or missing. Some of those national herbaria such as the Indian and China refused to loan the materials. All these taxa are treated here as doubtful species and listed below in Table 2.

Besides citations, wherever available, synonymy is provided to the species listed in Table 2. Present status of the species is elaborated based on microscopic observations and relevant literature.

Table 2 Doubtful species in "Guignardia" (sexual state of *Phyllosticta*)

Name of fungus with authority, citation and synonymy	Herbaria /herbarium	Observation	Present status
1. Guignardia abeana W. Yamam. & K. Konno, Sci. rep. Hyogo Univ. Agric. 5(1): 9 (1961)	TNS, TFM, NBRC, Japan	Specimen missing	Illustration and description by original authors (Yamam. & Konno, 1961) indicate this as an ascomycete; its nature of asci not discernible.
2. <i>G. abietella-sibirica</i> (Schwarzman & Tartenova) Vasyag., in Vasyagina, Byzova & Tartenova, Flora Sporovykh Rasteniĭ Kazakhstana [Cryptogamic Flora of Kazakhstan], 12, Sumchatye. Griby Lokuloaskomitsety (Loculoascomycetes) (Alma-Ata): 25 (1987)	LE, Russia	Specimen missing	Curator of herbarium informed specimen not available (Pers. comm.).
3. <i>G. acaciae</i> Hansf., Proc. Linn. Soc. N.S.W. 82: 14 (1957)	IMI, U.K	Examined	Specimen in poor condition; no details available.
4. G. acerifera (Cook) Lindau, (1897)	BPI, U.S.A	Examined	Specimen in poor condition; no details available.
5. <i>G. adeana</i> Rehm, Annls mycol. 10(6): 537 (1912)	F, U.S.A	Examined	Sexual state of <i>Colletotrichum</i> species (<i>Glomerella</i> species); (Fig. 11a-f).

6. G. adianti (Höhn.) Arx & E. Müll., Beitr. Kryptfl.	IMI, U.K	Examined	The specimen
Schweiz 11(no. 1): 60 (1954)			received from the
			herbarium was not
			the holotype.
7. G. adriatica Kirschst., KryptFl. Brandenburg (Leipzig)	B, Germany	Not	Specimen not
7(3): 322 (1938)	•	examined	received from
			herbarium in spite
			of repeated
			requests.
8 G. gaguntiaga (Miill Arg.) Paighart Rot Ib 56: 660	G Switzerland	Not	Curator informed
8. G. aegyptiaca (Müll. Arg.) Reichert, Bot. Jb. 56: 669	G, Switzerland		
(1921)		examined	the specimen has
			been loaned
			elsewhere.
9. G. aesculi (Peck) V.B. Stewart, Phytopathology 6: 9	NY, U.S.A	Examined	The specimen
(1916)			receieved was not
			type material.
10. G. agerati Gonz. Frag. & Cif. 1928., Estac. Agron. de	MA, Spain	Examined	Specimen in poor
Moca, B 13: 8 (1928)	•		condition. Details
			not clear (Fig. 11
			g-k).
11. G. ahlesiana (Hepp) Keissl., Rabenh. KryptFl., Edn 2	K, U.K	Not	Type specimen
(Leipzig) 8: 345 (1930)	к, о.к	examined	not available in K.
12. <i>G. ailanthi</i> (Grove) Sacc., Syll. fung. (Abellini) 24(2):	PAD, Italy	Not	No
	rad, Italy		
791 (1928)		examined	communication
			available from the
			herbarium.
13. G. alaskana M. Reed, Harriman Alaska Expedition: 34	BPI, U.S.A	Examined	Type seems to
(1902)			contain a lichen,
			Mastodia
			tessalata (Fig.
			111-s)
14. G. albicans Rehm, Leafl. of Philipp. Bot. 6: 2258	F, U.S.A	Examined	The specimen
(1914)			received was not
			holotype.
15. G. alhagi Bubák, Annln K. K. naturh. Hofmus. Wien	BPI, U.S.A	Examined	The specimen
28: 197 (1914)	D1 1, C.D.1	Enummea	received was not
20. 177 (1714)			holotype.
16. G. alliacea Motohashi, Jun. Nishikawa & C. Nakash.,	NBRC, Japan	Not	No
	NBKC, Japan		
Mycoscience 49: 15-16 (2008)		examined	communication
			available from the
			herbarium.
17. G. alnea (Fr.) J. Schröt. (1894) (Ref. Index herbarium)	NY, U.S.A	Examined	Specimen
			available; but
			without asci and
			ascospores.
			Treated as
			uncertain species.
18. G. alnigena Y. Nisik. & Watan., in Nogaku Kenkyu	TNS, TFM,	Not	No
[Agriultural Research], Publ. Inst. Agric. Biol., Okayama	NBRC & YAM,	examined	communbcation
Univ., 46: 208 (1959)	Japan	0.141111100	available from the
, - 00 (*/0/)	- mp		herbaria.
19. G. alternantherae (Sacc.) S. Hughes, Mycol. Pap. 48:	PAD, Italy	Not	No
	1 AD, Italy		
37 (1952)		examined	communication
			available from the
	DD1 11 0 1		herbarium.
20. G. alyxiae F. Stevens, Bulletin of the Bernice P. Bishop	BPI, U.S.A	Examined	Material received
Museum, Honolulu, Hawaii 19: 101 (1925)			was not holotype.
21. G. amomi S.M. Lin & P.K. Chi, in Chi, [Fungal	HMAS, China	Not	Repeated requests
Diseases of Cultivated Medicinal Plants in Guangdong		examined	for holotype
Province] (Guangdong): 43 (1994)			specimens
- -			remained
			unanswered.
22. G. anthurii Gutner, Acta Inst. Bot. Acad. Sci. USSR,	LE, Russia	Examined	Sexual state of
	,		

ser. II, fasc. 1: 288 (1933)			Colletotrichum
			species
			(Glomerella
		_	species).
23. G. apiahyna (Speg.) Sacc., Syll. fung. (Abellini) 24(2):	LPS, Argentina	Examined	Specimen
779 (1928)			available; but
			without asci and
			ascospores.
			Treated as
24 C	TNIC TEM	Mad	uncertain species.
24. G. aphyllanthis Unamuno (1942) (Ref. Index	TNS, TFM,	Not examined	No communication
fungorum)	NBRC, Japan	exammed	received from
25. G. apocyni (Ellis & Everh.) M.E. Barr, Mycotaxon 46:	NV II C A	Examined	herbaria. Herbarium packet
70 (1993) = <i>G. apocyni</i> (Ellis & Everh.) Vasyag.	NY, U.S.A	Exammed	labeled as
70 (1993) = G. apocym (Ems & Eveni.) v asyag.			Leptosphaeria sp.
			Needs
			reexamination.
26. G. araucariae Sousa da Câmara (1920)	LISE, Portugal	Not	No
20. 6. <i>William We</i> 50 and the Children (1)20)	EISE, I Ortugui	examined	communication
		cxummed	received from
			herbarium.
27. G. arachidis Punith., Mycol. Pap. 136: 8 (1974)	IMI, U.K	Examined	Dry culture
271 Of an action 1 annual, 1123 con 1 apr 1001 o (157 1)	11.11, 0.11	2	specimen had no
			fungal diagnostic
			features. Treated
			as 'uncertain'
			species.
28. G. araliae Gutner, Trudy Bot. Inst. Akad. Nauk SSSR,	LE, Russia	Examined	Holotype
ser. 2, Sporov. Rast. 1: 289 (1933)	,		specimen
, , , ,			contained
			immature fruiting
			bodies and hence
			treated as
			'uncertain' taxon.
29. G. ardisiae Miura ex I. Hino & Katum. (1967)	TNS, TFM,	Not	No
	Japan	examined	communication
			received from
	VDDG I		herbaria.
30. G. ardisiicola Motohashi, I. Araki & C. Nakash.	NBRC, Japan	Not	No
		examined	communication
			received from
21 C C (1017) (D.C.I1. E	DAD 16.1	NT-4	herbarium.
31. G. arecae Sacc. (1917) (Ref. Index Fungorum)	PAD, Italy	Not	No
		examined	communication
			received from herbarium.
2) C. granga Dohm Looft of Dhiling Dot 6: 2105	EIICA	Examined	nerbarium. Seems to be
32. <i>G. arengae</i> Rehm., Leafl. of. Philipp. Bot. 6: 2195 (1914)	F, U.S.A	Lammed	Botryosphaeria
(1/17)			sp. (Fig. $11t-z^2$).
			Needs
			recollection.
33. <i>G. asparagi</i> Gonz. Frag. & Cif. (1926)	MA, Spain	Not	The packaged
11. 1. msp.m. mg. Comm. 11mg. ex Cin. (1720)	, »pain	examined	received from MA
			without specimen.
34. G. aspidistricola Motohashi, I. Araki & C. Nakash.,	NBRC, Japan	Not	No
Mycoscience 49: 138-146 (2008)	-,P****	examined	communication
• , ,			received from
			herbarium.
35. <i>G. astragali</i> Nasyrov (1965) (Ref. Index Fungorum)	LE, Russia	Not	No
		examined	communication
			received from
	-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

			herbarium Treated
			as non. inval. (Invalid name).
36. G. bambusae I. Miyake & Hara, Bot. Mag., Tokyo 24:	TNS, TFM,	Not	No
238 (1910)	Japan Japan	examined	communication
230 (1710)	Jupun	Схипппец	received from
			herbaria.
37. <i>G. bambusella</i> Sacc., Notae Mycol. 23: 63 (1916)	PAD, Italy	Not	No
•	·	examined	communication
			received from
			herbarium.
38. G. bambusina Sacc., Atti Accad. Sci. VenTrentIstr.	PAD, Italy	Not	No
10: 63 (1917)		examined	communication
			received from herbarium.
39. G. bambusina Rehm, Leafl. of Philipp. Bot. 8: 2936	FIISA	Examined	Unknown
(1916)	1, 0.5.A	Lammed	ascomycete
(1710)			species (Fig. 12a-
			g).
40. G. banonsensis (Petr.) Arx & E. Müll., Beitr. Kryptfl.	W, Austria	Examined	Specimen
Schweiz 11: 57 (1954)			received was not
			holotype.
41. G. betulae (Auersw.) Sacc. & Trotter, Syll. fung.	PAD, Italy	Not	No
(Abellini) 22: 77 (1913)		examined	communication
			received from
42 C hidwellii (Ellie) Viole & Davez Pull See mysel Er	BPI, U.S.A	Examined	herbarium. The specimen
42. <i>G. bidwellii</i> (Ellis) Viala & Ravaz, Bull. Soc. mycol. Fr. 8: 63 (1892)	DF1, U.S.A	Examined	received was not
0. 03 (1072)			holotype;
			herbarium packet
			labeled as
			Sphaerella
			bidwellii.
43. G. bidwellii f. bidwellii (Ellis) Viala & Ravaz, Bull.	BPI, U.S.A	Not	No
Soc. mycol. Fr. 8: 63 (1892)		examined	communication
			received from
AA C hidwallii f nauthanasiasi Lutta (Daf Indov	DDITICA	Not	herbarium. No
44. G. bidwellii f. parthenocissi Luttr. (Ref. Index fungorum)	DP1, U.S.A	examined	communication
Tungorum)		cxammed	received from
			herbarium.
45. <i>G. bidwellii</i> var. <i>bidwellii</i> (Ellis) Viala & Ravaz (1892)	BPI, U.S.A	Not	No
	,	examined	communication
			received from
			herbarium.
46. <i>G. biennis</i> (Dearn.) Sacc., Syll. fung. (Abellini) 24(2):	DAOM, Canada	Examined	Unidentified
780 (1928)			coelomycete
			species (Fig. 12h-
47. <i>G. bispora</i> Wulandari & K.D. Hyde, Mycosphere 2(2):	MFU, Thailand	Examined	p). Only type
115-128.	WII O, Thanana	Lammed	available; needs
113 120.			re-collection for
			sequencing.
48. G. boltoniae Dearn. & Barthol., Mycologia 18(5): 245	DAOM, Canada	Examined	Uncertain species,
(1926)			Botryosphaeria-
		_	like (Fig. 12q-w).
49. <i>G. bulgarica</i> (Petr.) E. Mull., Revue Mycol., Paris 20: 4	MA, Spain	Examined	This is an
(1955)			unknown
			bitunicate
50. G. buxi (Fuckel) Lindau, Hilfsb. Sammelm Ascomyc.	MA, Spain	Examined	ascomycete The specimen
(Berlin): 21 (1938)	min, spain	Lammeu	received was not
(=/· =			holotype.
			· · · / F - ·

51. G. buxicola Sousa da Câmara & Luz, Agron. lusit. 1: 44	LISE, Portugal	Not	No
(1939)		examined	communication
			received from
			herbarium.
52. G. cabelludae (Rangel) Sacc., Syll. fung. (Abellini)	RB (Brazil),	Not	No
24(2): 789 (1928)	PAD (Italy)	examined	communication
2.(2). 707 (1720)	1112 (1001)	0.141111100	received from
			herbaria.
52 C aghinancia (I Stainer) Sees Sull func (Abellini)		Not	No
53. G. cahirensis (J. Steiner) Sacc., Syll. fung. (Abellini)	-		
24(2): 786 (1928)		examined	communication
			received from
			herbaria.
54. G. calami (Syd.) Arx & E. Müll., Beitr. Kryptfl.	BPI, U.S.A	Examined	The holotype
Schweiz 11(no. 1): 55 (1954)			contained limited
			asci and
			ascospores, which
			cannot clarify the
			identity.
55. G. cambucae (Rangel) Sacc., Syll. fung. (Abellini)	PAD Italy	Not	No
24(2): 789 (1928)	1110, 1111	examined	communication
24(2). 707 (1720)		cammed	received from
			herbarium.
56 C	17 11 17	NT. 4	
56. G. camelliae (Cooke) E.J. Butler ex Petch, Fungi of	K, U.K	Not	No
India: 62 (1923)		examined	communication
			received from
			herbarium.
57. G. canavaliae Cif. & Gonz. Frag., Estac. Agron. de	MA, Spain	Examined	Specimen was in
Moca, B 8: 19 (1927)			poor condition
			and treated as
			uncertain species.
58. <i>G. capsici</i> Punith., Mycol. Pap. 136: 13 (1974)	IMI, U.K	Examined	Specimen was in
cor or capsuot I amain, 1.15 con I apr I cor I c (15 / 1)	11.11, 0.11	2.14.111110	poor condition
			and treated as
			uncertain species.
50 C agricus (Marchal & Staveaut) Hands Duhl Inst	DD Doloium	Not	-
59. G. caricae (Marchal & Steyaert) Hendr., Publ. Inst.	BR, Belgium		No
Natl. Agron. Congo Belge 35: 7 (1948)		examined	communication
			received from
			herbarium.
60. G. caricae Sawada, Special Publication College of	NTU, Taiwan	Examined	Specimen was in
Agriculture, National Taiwan University 8: 57 (1959)			poor condition
			and treated as
			uncertain species.
61. G. caricicola (Fuckel) Vasyag., in Vasyagina, Byzova	G, Switzerland	Not	No
& Tartenova, Flora Sporovykh Rasteniĭ Kazakhstana		examined	communication
[Cryptogamic Flora of Kazakhstan], 12, Sumchatye. Griby			received from
Lokuloaskomitsety (Loculoascomycetes) (Alma-Ata): 26			herbarium.
(1987)			
62. <i>G. caricis</i> Dearn. & House. New York State Museum	DAOM, Canada	Examined	Seems to be
Bulletin 266: 73 (1925)	DAOM, Canada	Lxammed	Mycosphaerella-
Duneum 200. 73 (1923)			
			like taxon (Fig.
			$12x-z^8$); needs
		XX .	recollection.
63. G. carpinea (Fr.) J. Schröt., in Cohn, KryptFl.	NY, U.S.A	Not	No
Schlesien (Breslau) 3.2(3): 330 (1894) [1908]		examined	communication or
			specimen received
			from herbarium
64. G. caryophyllea (Cooke & Harkn.) Wehm., Sydowia	K, U.K	Not	No
6(5-6): 420 (1952)		examined	communication or
			specimen received
			from herbarium.
65. G. cephalanthae Sawada, [as 'cepharanthae'], Special	TNS, TFM,	Not	No
Publication College of Agriculture, National Taiwan	Japan	examined	communication or
University 8: 58 (1959)			specimen received
Om (31511)			specimen received

66. <i>G. cephalariae</i> (Auersw.) F. Stevens, Trans. Ill. St. Acad. Sci. 10: 184 (1917)	B, Germany	Examined	from herbaria. Specimen in poor condition.
67. <i>G. cephalariae</i> var. <i>alternantherae</i> (Sacc.) F. Stevens, Trans. Ill. St. Acad. Sci. 10: 184 (1917)	PAD, Italy	Not examined	No communication or
11alis. III. St. Acad. Sci. 10. 164 (1917)		exammed	specimen received from herbarium.
68. <i>G. cephalariae</i> var. <i>cephalariae</i> (Auersw.) F. Stevens, Trans. Ill. St. Acad. Sci. 10: 184 (1917)	B, Germany	Not examined	No communication or
11alis. III. St. Acad. Sci. 10. 164 (1917)		exammed	specimen received from herbarium.
69. G. cephalotaxi-nanae Sawada, Bull. Gov. Forest Exp.	TNS, TFM, NBRC and	Not	No
Stn 46: 117 (1950)	NBRC and YAM, Japan	examined	communication or specimen received
70. G. chandrapurensis P. G. Sathe & K. M. Mogarkar,	AMH, India	Not	from herbaria. No
Marathwada University Journal of Science (Natural Science), B 16(9): 61 (1978) [1977]		examined	communication or specimen received
71. G. chondri (H. L. Jones) Estee, Pubbl. Staz. Zool.	UC, U.S.A	Not	from herbarium. No
Napoli 15: 378 (1936)		examined	communication or specimen received
72. G. cinchonae Vincens, Bull. Soc. Path. vég. Fr. 9: 131	PC, France	Not	from herbarium. No
(1922)		examined	communication or specimen received
73. <i>G. circumscissa</i> (Sacc.) Traverso, Fl. ital. crypt. 2: 381	PAD, Italy	Not	from herbarium. No
(1906)	•	exmained	communication or specimen received
74. <i>G. clusiae</i> F. Stevens, Trans. Ill. St. Acad. Sci. 10: 183	ILL, U.S.A	Examined	from herbarium. Specimen
(1917)	IEE, C.S.11	Zammed	contained an unknown
			ascomycete (Fig. 13a-g).
75. <i>G. cocoicola</i> Punith. Mycol. Pap. 136: 15 (1974)	IMI, U.K	Not Examined	No communication or
		Exammed	specimen received from herbarium.
76. G. coccocarpiae (Pat.) Sacc. & Trotter, Syll. fung.	PAD, Italy	Not	No
(Abellini) 22: 76 (1913)		examined	communication or specimen received from herbarium.
77. <i>G. codiae</i> Thaung, Trans. Br. mycol. Soc. 66(1): 107 (1976)	IMI, U.K	Examined	Specimen in poor condition. This
(1770)			species is a <i>Phyllosticta</i> sp.
78. G. coffeae Punith. & B.S. Lee, in Punithalingam,	IMI, U.K	Examined	(Thaung, 1976). Specimen in poor
Mycol. Pap. 149: 19 (1981)	ivii, O.K	Lxammed	condition. This is a <i>Phyllosticta</i>
			(Punith. & Lee, 1981).
79. <i>G. coffeana</i> (F. Noack) Sawada, J. Taihoku Soc. Agric.	YAM, Japan	Not	No
7(1): 23 (1943) [1942]		examined	communication or specimen received
80. G. coronillae Sibilia, Annali Bot., Roma 18(2): 260	BPI, U.S.A	Examined	from herbarium. Speciemen in
(1929) 81. <i>G. creberrima</i> Syd. & P. Syd., Philipp. J. Sci., C, Bot.	DAR, Australia	Examined	poor condition. Specimen in poor
8(5): 482 (1913) 82. <i>G. convolvuli</i> Gonz. Frag. & Cif., Boln Real Soc.	PAV, Italy	Not	condition. No

Españ Hist Not Dislosies 25, 250 (1925)		avamin - 1	aammuniasti
Españ. Hist. Nat., Biologica 25: 359 (1925)		examined	communication or specimen received from herbarium.
83. G. cookeana (Auersw.) Viala & Ravaz ex Feltgen,	B, Germany	Not	No
(1902)	•	exmained	communication or specimen received from herbarium.
84. <i>G. cooperta</i> (Desm.) Bubák, (1907)	B, Germany	Not	No
on Greenperia (Bessin) Busan, (1907)	B, cermany	examined	communication or specimen received from herbarium
85. G. corniculata (Hoffm.) Keiñl., Annln naturh. Mus.	MW, Russia	Not	No
Wien 39: 195 (1925)		examined	communication or specimen received from herbarium
86. G. crepidis E. Müll., Sydowia 1: 213 (1957)	ZT, Switzerland	Not	No
	, ~	examined	communication or
			specimen received
			from herbarium.
87. <i>G. cryptomeriae</i> Sawada, Bull. Gov. Forest Exp. Stn 45:	TNS, TFM,	Not	No
48 (1950)	NBRC and YAM, Japan	examined	communication or specimen received from herbaria.
88. G. cyperi P.B. Chavan & Hosag., J. Econ. Taxon. Bot.	AMH, India	Not	No
5(2): 447 (1984)		examined	communication or
			specimen received
90 C autici (Evalval) von Any & E Miillon	VM HCA	Examined	from herbarium.
89. <i>G. cytisi</i> (Fuckel) von Arx & E. Müller, Phytopathologische Zeitschrift 51: 232–233 (1964)	KM, U.S.A	Examined	Contained <i>Pleospora</i> -like
r nytopathologische Zeitschift 31. 232–233 (1704)			ascomycete (Fig. 13h-o).
90. <i>G. depressa</i> (Peck) Dearn. & House, (1925)	DAOM, Canada	Not	No
		examined	communication or specimen received from herbarium.
91. <i>G. diapensiae</i> (Rehm) Arx & E. Müll., 11(1): 55 (1954)	F, U.S.A	Examined	Specimen in poor condition.
92. <i>G. dieffenbachiae</i> Gonz. Frag & Cif., Rep. Dominic. Est. Agron. Haina, Ser. B, Bot. Bull. 8: 21 (1927)	MA, Spain	Examined	Contained other ascomycete, possibly a secondary invader, <i>Mycropeltis</i> -like (Fig. 13p-u).
93. G. dieffenbachiae M.S. Ali & Saikia, Indian Phytopath.	IMI, U.K	Not	No
50(2): 201 (1997)		examined	communication or specimen received from herbarium.
94. G. diffusa (Crié) Sacc. & Trotter, Syll. fung. (Abellini)	PAD, Italy	Not	No
22: 74 (1913)	1112, 1111	examined	communication or specimen received from herbarium.
95. <i>G. dioscoreae</i> Sawada [as '(Averna-Sacca)], Special Publication College of Agriculture, National Taiwan University 8: 58 (1959)	YAM, Japan	Examined	Specimen contained a Colletotrichum species (Fig. 13v- z²). Treated as invalid name (Index Fungorum).
96. G. dioscoreae Sawada ex Katum., J. Jap. Bot. 40: 193	TNS, TFM,	Not	No
(1965) (Ref. Index fungorum; MycoBank)	NBRC and YAM, Japan	examined	communication or specimen received

			from herbaria. Treated as nom. inval. (Invalid name) (Index fungorum).
97. G. dioscoreae A.K. Pande, Sydowia 22(5-6): 367 (1969) [1968]	AMH, India	Not Examined	No communication or specimen received from herbarium.
98. <i>G. dioscoreae-bulbiferae</i> A. Pande, Ascomycetes of Peninsular India (Jodhpur): 36 (2008) (Ref. Index Fungorum and MycoBank)	AMH, India	Not Examined	No communication or specimen received from herbarium. Treated as nom. inval. (Invalid name).
99. <i>G. dodartiae</i> Nasyrov ex Vasyag., in Vasyagina, Byzova & Tartenova, Flora Sporovykh Rasteniĭ Kazakhstana [Cryptogamic Flora of Kazakhstan], 12, Sumchatye. Griby Lokuloaskomitsety (Loculoascomycetes) (Alma-Ata): 29 (1987)	LE, Russia	Not examined	No communication or specimen received from herbarium.
100. <i>G. dracaenae</i> Gutner, Acta Inst. bot. Komarov. Acad. Sci., Pl. Crypt, ser. 2 11(1): 296 (1933)	LE, Russia	Examined	Specimen in poor condition.
101. <i>G. durmitorensis</i> Bubák, Bot. Közl. 14(3-4): 55 (1915)	BPI, U.S.A	Not examined	No communication or specimen received from herbarium.
102. <i>G. dyerae</i> Punith. & P. H. Wong, in Punithalingam, Mycol. Pap. 149: 28 (1981)	IMI, U.K	Examined	Specimen in poor condition.
103. <i>G. echinophila</i> (Schwein.) Traverso, Fl. ital. crypt. 2: 390 (1907)	PH, NY, U.S.A	Not examined	No communication or specimen received from herbaria.
104. <i>G. ellipsoidea</i> Wulandari & K.D. Hyde, Mycosphere 2(2): 119 (2011)	MFU, Thailand	Examined	No type culture, need recollecting and sequencing.
105. <i>G. empetri</i> (Rostr.) Lar.N. Vassiljeva, Pirenomits. Lokuloaskomits. Severa Dal'nego Vostoka (Leningrad): 78 (1987)	C, Denmark	Not examined	No communication or specimen received from herbarium.
106. <i>G. epilobii</i> (Wallr.) Lindau, Mycologia 38(2): 152 (1946) (1946)	NY, U.S.A	Not examined	No communication or specimen received from herbarium.
107. <i>G. ericetorum</i> (Körb.) Rambold & Triebel = <i>Rhymbocarpus ericetorum</i> (Körb.) Etayo, Diederich & Ertz, in Diederich, Ertz & Etayo, Lichenologist 42(3): 266 (2010)	L, The Netherlands	Not examined	No communication or specimen received from herbarium.
108. <i>G. eucrypta</i> Petr., Beitr. Kryptogamenfl. Schweiz, 11(172) (1954)	W, Austria	Examined	Specimen in poor condition.
109. <i>G. eugeniae</i> S.M. Lin & P.K. Chi, in Chi, [Fungal Diseases of Cultivated Medicinal Plants in Guangdong Province] (Guangdong): 62 (1994)	HMAS, China	Not examined	No communication or specimen received from herbarium.
110. <i>G. eupatorii</i> Punith., Mycol. Pap. 136: 21 (1974)	IMI, U.K	Examined	The ex-type was without asci and ascospores.
111. <i>G. euphorbiae</i> Rayss, Bull. rimmest. Soc. Mycol. Fr. 62: 20 (1946)	BUCM (Romania), PC (France)	Not examined	No communication or specimen received from herbaria.
112. <i>G euphorbiae</i> T. M. Achundov, : 5 (1971)	BPI, U.S.A	Not examined	No communication or

			specimen received from herbarium.
113. <i>G. euphorbiae-spinosae</i> Bubák, Bot. Közl. 14(3-4): 56 (1915)	BPI, U.S.A	Examined	Specimen in poor condition.
114. G. excentrica (Crié) Sacc. (Ref. Index Fungorum)	PAD, Italy	Not	No
		examined	communication or specimen received
115 C manufacture was according (Cris) See	DAD 14-1	NI-4	from herbarium.
115. G. excentrica var. excentrica (Crié) Sac.	PAD, Italy	Not examined	No communication or
		CAUTITIOG	specimen received from herbarium.
116. G. excentrica var. major Bat., Publções Inst. Micol.	URM, Brazil	Not	No
Recife 284: 9 (1960)	,	examined	communication or specimen received
117 C faci II I Hyda Nova Hadwicia 10/2/4), 222	IMI IIV	Not	from herbarium. No
117. G. fagi H. J. Huds., Nova Hedwigia 10(3/4): 323 (1966) [1965]	IMI, U.K	examined	communication or
(1900) [1903]		cxammed	specimen received from herbarium.
118. G. fatsiae I. Hino & Katum., Apud Katumoto, J. Jap.	YAM, Japan	Examined	Found to be a
Bot. 40: 194 (1965)	, I		Colletotricum
			species (Fig. 14a-
			w).
119. G. fici W. Y. Li & W. Y. Zhuang, Mycotaxon 100:	HMAS, China	Not	No
213 (2007)		examined	communication or
			specimen received from herbarium.
120. G. fici-beecheyanae Sawada, J. Toihaku. Soc. Agric.	YAM, Japan	Not	No
7: 123 (1942)	1111/1, vapan	examined	communication or
			specimen received from herbarium.
121. G. fici-septicae Sawada in J. Taihoku Soc. Agric.,	NTU, Taiwan	Examined	Specimen was
7:126 (1942)			without asci and
			ascospores.
			Treated as uncertain species.
122. G. fici-septicae Sawada ex W.Y. Li & W.Y. Zhuang,	HMAS, China	Not	No
in Li & Zhuang, Mycotaxon 100: 214 (2007)	111.11.10, Cililla	examined	communication or
<i>C</i> ,			specimen received
			from herbarium.
			Treated as nom.
			inval. (Invalid
			name. Art 36.1). (Index fungorum)
123. <i>G. fimbriata</i> sensu auct. brit.,	_	Not	Sensu auct brit.
2.3		examined	
124. G. fimbriatae (Vain.) Keissl., Rabenh. KryptFl.	TUR, Finland	Examined	Specimen was
(Leipzig) 8: 346 (1930).			without asci and
			ascospores;
			treated as
125. <i>G. flacourtiae</i> Anahosur, Sydowia 24(1-6): 169 (1971)	IMI, U.K	Examined	uncertain species. Specimen in poor
123. G. Jantouritate Alialiosul, Sydowia 24(1-0). 109 (1971)	IIVII, U.K	Examined	condition. This is
			a <i>Phyllosticta</i> .
126. <i>G. franconica</i> (Petr.) E. Müll., Sydowia 1: 213 (1957)	W, Austria	Examined	Specimen
	•		contained an
			ascomycete; but
			not Phyllosticta
400 G A 1 4 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1	E H.C.		(Fig. 14f-m).
127. <i>G. freycinetia</i> Rehm, Philipp. J. Sci., C, Bot. 8(2): 184	F, U.S.A	Examined	Specimen in poor
(1913)			condition; treated as uncertain
			as uncertain

128. <i>G. fulvida</i> F.R. Sand., N.Z. Jl agric. Res. 8(1): 139 (1965)	PDD, New Zealand	Examined	species. Specimen without asci and ascospores. Treated as uncertain species.
129. <i>G. fuscocinerea</i> Rehm, Leafl. of Philipp. Bot. 6: 2195 (1914)	F, U.S.A	Not examined	No communication or specimen received
130. <i>G. fuscocoriae</i> Rehm, Leafl. of Philipp. Bot. 6: 2195 (1914)	ILL, U.S.A	Examined	from herbaria. Specimen in poor condition; treated as an unknown coelomycete (Fig. 14n-q).
131. <i>G. galactina</i> Dearn. & Barth. New York State Museum Bulletin 179 (1915)	DAOM, Canada	Examined	This specimen is seems to be <i>Hyponectria</i> (Wang & K.D. Hyde 1999).
132. G. gentianicola (DC.) Arx & E. Müll., 11(1): 50 (1954)	G, Switzerland	Not examined	No communication or specimen received from herbarium.
133. <i>G. gloiopeltidis</i> Miyabe & Tokida, Bot. Mag., Tokyo 61: 118 (1948)	TNS, TFM, NBRC and YAM, Japan	Not examined	Specimen referred as <i>Didymella</i> gloiopeltidis (Miyabe & Tokida) Kohlm. & E. Kohlm. (1979).
134. <i>G. glycyrrhizae</i> Antok., sec Petr. 1934, Annal. Mycol. 32: 339 (1934)	TNS, TFM, NBRC and YAM, Japan	Not examined	No communication or specimen received from herbaria.
135. <i>G. gmelinae</i> Ts. Kobay., Trans. Mycol. Soc. Japan 21(3): 314 (1980)	TNS, TFM, NBRC and YAM, Japan	Not examined	Repeated requests for holotype specimen to several herbaria, remained unanswered.
136. <i>G. graminea</i> Lobik, Materialy po floristicheskim i faunisticheskim obsledovaniyam Terskogo okruga [Data from investigations on the flora and fauna of the Ter region], 255 (1928)	TNS, TFM, NBRC and YAM, Japan	Not examined	Repeated requests for holotype specimen to several herbaria remained unanswered.
137. <i>G. graminis</i> (Lind) M.E. Barr, 73: 12 (1959)	B, Germany	Not examined	No communication or specimen received from herbarium.
138. <i>G. harunganae</i> Sivan. & Okpala, Trans. Br. mycol. Soc. 72(3): 522 (1979)	IMI, U.K	Examined	Specimen in poor condition. This is now a <i>Phyllosticta</i> (Sivanesan & Okpala 1979).
139. <i>G. heliconiae</i> Gonz. Frag. et Cif., Boletin Real Soc. Espan. Hist. Nat. Madrid 27(325) 1928	MA, Spain	Examined	Specimen in poor condition.
140. <i>G. herbarum</i> Vasyag., in Vasyagina, Byzova & Tartenova, Flora Sporovykh Rasteniĭ Kazakhstana [Cryptogamic Flora of Kazakhstan], 12, Sumchatye. Griby Lokuloaskomitsety (Loculoascomycetes) (Alma-Ata): 30 (1987)	AA (Kazakhztan), LISE (Portugal), LE (Russia)	Not examined	No communication or specimen received from herbaria.

141. <i>G. hernandiae</i> Tak. Kobay. & Kawabe, Japanese Journal of Tropical Agriculture 36(3): 201 (1992)	TNS, TFM, NBRC and YAM, Japan	Not examined	Repeated requests for holotype specimen to several herbaria remained unanswered.
142. <i>G. heterostemmae</i> (T. S. Ramakr. & K. Ramakr.) D. R. Pawar & J. N. Kapoor (1989)	AMH, India	Not examined	Repeated requests for holotype specimen to herbarium, remained unanswered.
143. <i>G. heterostemmatis</i> (T. S. Ramakr. & K. Ramakr.) D. R. Pawar & J. N. Kapoor (1989)	AMH, India	Not examined	Repeated requests for holotype specimen to herbarium, remained unanswered.
144. <i>G. heterotrichi</i> Stevens, Transaction of the Illinois Academy of Science 10: 182–183 (1917)	ILL, U.S.A	Examined	This specimen seems to be a Hyphonectria (Sivanesan & Shivas, 2002; Wang & Hyde, 1999).
145. <i>G. heveae</i> Gonz. Frag. & Cif., Boln Real Soc. Españ. Hist. Nat., Biologica 26: 492 (1926)	LPS (Argentina), PAV (Italy)	Not examined	No communication or specimen received from herbaria.
146. <i>G. heveae</i> Syd. & P. Syd., Annls mycol. 14(5): 360 (1916)	DAR, Australia	Examined	The species belong to <i>Phomopsis</i> (Fig. 14r-w).
147. <i>G. hibisci-sabdariffae</i> Sawada, Special Publication College of Agriculture, National Taiwan University 8: 59 (1959)	NTU, Taiwan	Not examined	No communication or specimen received from herbarium.
148. <i>G. himalayensis</i> E. Müll., Phytopath. Z. 34(4): 414 (1959)	ZT, Zwitzerland	Examined	This is a <i>Kabatia</i> species (Fig. 15a-g) (Müller, 1959).
149. G. hispanica Bubák & Gonz. Frag., Hedwigia 57: 4 (1915)	BPI, U.S.A	Not examined	No communication or specimen received from herbaria.
150. <i>G. horaninovia</i> Nasyrov [as 'horaninowiae'], Griby Oazisov Vostochnoĭ Turkmenii (Ashkhabad): 300 (1965)	LE, Russia	Not examined	No communication or specimen received from herbarium.
151. <i>G. humulina</i> Bubák, Annls mycol. 4(2): 110 (1906)	BPI, U.S.A	Not exmained	No communication or specimen received from herbarium.
152. <i>G. ilicis</i> (Jacz.) Schrantz, Bull. trimest. Soc. mycol. Fr. 76(4): 327 (1961)	P, France	Not exmained	No communication or specimen received from herbarium.
153. <i>G. ilicis-formosanae</i> Sawada, Rep. Govt Res. Inst. Dep. Agric., Formosa 85: 30 (1943)	TNS, TFM, NBRC and YAM, Japan	Not examined	No communication or specimen received from herbaria.
154. <i>G. ingae</i> F. Stevens, Annls mycol. 28(5/6): 367 (1930)	ILL, U.S.A	Examined	The specimen was labeled as Irenopsis ingae

155. G. insularis ensu auct. brit. 156. G. insularis (A. Massal.) Keissl., Rabenh. KryptFl., VER, Italy 257. G. irritans Setch. & Estee, University of Calif. Publ. BPI, U.S.A 157. G. irritans Setch. & Estee, University of Calif. Publ. BPI, U.S.A 158. G. istriaca Bubák, Annls mycol. 14(1/2): 12 (1916) BPI, U.S.A 159. G. istriaca Bubák, Annls mycol. 34(3): 187 (1936) - Not examined 159. G. istriaca Kirschst., Annls mycol. 34(3): 187 (1936) - Not examined 159. G. istriaca Kirschst., Annls mycol. 34(3): 187 (1936) - Not examined 159. G. istriaca Kirschst., Annls mycol. 34(3): 187 (1936) - Not examined 160. G. jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 161. G. jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 161. G. jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 161. G. jasmini (Belich) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 161. G. jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 162. G. javanica Koord., Atti Ist. bot. R. Univ. Pavia, 2 Sér. BO, Indonesia 163. G. juniperina (Ellis) Rota-Rossi, Atti Ist. bot. R. Univ. NY, U.S.A 164. G. jussiaeae F. Stevens, Bulletin of the Bernice P. Bishop Museum, Honolulu, Hawaii 19: 101 (1925) 165. G. kareliniae Nasyrov, Griby Oazisov Vostochnoī LE, Russia 166. G. laricina Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 167. G. latemarensis E. Müller Phytopshologische Zeitschr ETH, Switzerland 168. G. linderae Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy 170. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy 171. Samined Sexamined Sexamined Sexamined Sexamined Communication or Specimen received from herbarium. This is an unknown communication or Specimen received from herbarium. Specimen in poor condition. No				
155. G. insularis sensu auct. brit.				(F. L. Stevens &
o). Sensu auct. brit. 156. G. Insularis (A. Massal), Keissl., Rabenh. KryptFl., VER, Italy Edn 2 (Lcipzig) 8: 343 (1930) 157. G. Irritans Setch. & Estee, University of Calif. Publ. BPI, U.S.A Bot. 4: 311 (1913) 158. G. Istriaca Bubák, Anals mycol. 14(1/2): 12 (1916) 159. G. Istriaca Bubák, Anals mycol. 34(3): 187 (1936) 159. G. Istriaca Kirschst., Anals mycol. 34(3): 187 (1936) 159. G. Istriaca Kirschst., Anals mycol. 34(3): 187 (1936) 159. G. Istriaca Kirschst., Anals mycol. 34(3): 187 (1936) 160. G. Jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 789 (1928) 161. G. Jasmini (Petch) Sacc., Syll. fung. (Abellini) 24(2): K, U.K 83 (1917) 162. G. Jasmini (Ellis) Rota-Rossi, Atti Ist. bot. R. Univ. Pavia, 2 Sér. BO, Indonesia 13: 206 (1907) 163. G. Janiperina (Ellis) Rota-Rossi, Atti Ist. bot. R. Univ. Pavia, 2 Sér. Bo, Indonesia 13: 206 (1907) 164. G. Jassiaeae F. Stevens, Bulletin of the Bernice P. Bishop Museum, Honolulu, Hawaii 19: 101 (1925) 165. G. Kareliniae Nasyrov, Griby Oazisov Vostochnoi LE, Russia Turkmenii (Ashkhabady: 300 (1965) 166. G. Laricinae Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 167. G. Latemarensis E. Müller Phytopathologische Zeitschr ETH. Switzerland Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. Inderae Sawada Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10				
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Switzerland Switzerland Be a Hyponectria species (Wang & Hyde 1999). 168. G. linderae Sawada, Report of the Department of NTU, Taiwan Examined Specimen in poor Covernment Research Institute of Formosa 86: 10 (1943) 169. G. linderae Sawada ex. W. Y. Li & W. Y. Zhuang in I HMAS, China Not No No Mycotaxon 100: 216 (2007) Mycotaxon 100: 216 (2007) No N				
species (Wang & Hyde 1999). 168. <i>G. linderae</i> Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. <i>G. linderae</i> Sawada ex. W. Y. Li & W. Y. Zhuang in I HMAS, China Mycotaxon 100: 216 (2007) Mycotaxon 100: 216 (2007) No examined communication or specimen received from herbarium. 170. <i>G. lingue</i> (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not No	167. G. latemarensis E. Müller Phytopathologische Zeitschr	ETH,	Examined	This is seems to
Hyde 1999). 168. G. linderae Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. linderae Sawada ex. W. Y. Li & W. Y. Zhuang in I HMAS, China Mycotaxon 100: 216 (2007) Mycotaxon 100: 216 (2007) No communication or specimen received from herbarium. 170. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not Hyde 1999). Specimen in poor condition. No No No		Switzerland		
168. G. linderae Sawada, Report of the Department of NTU, Taiwan Government Research Institute of Formosa 86: 10 (1943) 169. G. linderae Sawada ex. W. Y. Li & W. Y. Zhuang in I HMAS, China Mycotaxon 100: 216 (2007) Mycotaxon 100: 216 (2007) No communication or specimen received from herbarium. 170. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not Specimen in poor condition. No No				
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Mycotaxon 100: 216 (2007) examined communication or specimen received from herbarium. 170. <i>G. lingue</i> (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not No		HMAS China	Not	
specimen received from herbarium. 170. <i>G. lingue</i> (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not No		invias, Cillia		
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170. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini) PAV, PAD, Italy Not No				
	170. G. lingue (Speg.) Sacc. & Trotter, Syll. fung. (Abellini)	PAV, PAD, Italy	Not	
			examined	communication or

			specimen received from herbaria.
171. <i>G. lini</i> (Rostr.) Sacc & Trotter, Syll. fung. (Abellini) 22: 72 (1913)	C, Denmark	Examined	Specimen in poor condition.
172. G. lonchocarpi (Marchal & Steyaert) Hendr., Publ. Inst.	BR, Belgium	Not	No
Congo Belge 35: 7 (1948)		examined	communication or specimen received from herbarium.
173. <i>G. lysimachiae</i> Jaap, Fung. Saxon. Exsicc., Pilze Sachsen's: no. 2262 (1914)	HBG, Germany	Examined	No communication or
174. <i>G. lunulata</i> (Rostr.) Larsen in Rosenvinge & Warming,	C, Denmark	Examined	specimen received from herbarium. No
in Botany of Iceland 2(3): 832, 9 (Fungi of Island) (1932)	c, 2 c		communication or specimen received from herbarium.
175. <i>G. maculiformis</i> (Pers.) Mig., (1913)	NY, U.S.A	Not	No
		examined	communication or specimen received from herbarium.
176. <i>G. magnolia</i> (Schwein.) J.H. Mill (1941), Mycologia 33 (1941)	PH, U.S.A	Examined	The specimen was in poor condition.
177. <i>G. mammeae</i> Cif. & Gonz. Frag., Boln de la Real Soc. Españ. Hist. Nat., Madrid 26: 193, fig. 1 (1926)	BPI, U.S.A	Examined	Specimen in poor condition.
178. <i>G. mangiferae</i> A. J. Roy, Indian Phytopath. 20(4): 348 (1968) [1967]	AMH, India	Examined	Specimen in poor condition.
179. <i>G. maninotis</i> var. <i>cajani</i> Sacc., Atti Soc. Veneto-Trent. Sci. Nat., Padova 23: 63 (1917)	BPI, U.S.A	Examined	Specimen in poor condition
180. <i>G. manihotis</i> var. <i>deminuta</i> Sacc., Nuovo G. bot. ital. 23(2): 200 (1916)	PAD, Italy	Not examined	No communication or specimen received from herbarium
181. G. manihotis var. manihotis Sacc. [as 'manihoti'],	PAD, Italy	Not	No
Annls mycol. 12(3): 304 (1914) (1914)		examined	communication or specimen received from herbarium.
182. <i>G. manihoticola</i> Sawada ex W.Y. Li & W.Y. Zhuang, in Li & Zhuang, Mycotaxon 100: 216 (2007)	HMAS, China	Not examined	No communication or specimen received
183. <i>G. manihoticola</i> Sawada, Special Publication College of Agriculture, National Taiwan University 8: 59 (19)	TNS, Japan	Examined	from herbarium. The specimen contained sexual state of Colletotrichum sp.
184. G. medinillae (Rangel) Sacc., Syll. fung. (Abellini	PAD (Italy), RB (Brazil)	Not examined	(Fig. 15x-z ⁸). No communication or
			specimen received from herbaria.
185. <i>G. melanostigma</i> (Lév.) Sacc. & Trotter, Syll. fung. (Abellini) 22: 75 (1913)	PC, France	Not examined	No communication or specimen received
186. <i>G. mespilii</i> (Fautrey) Schrantz, in Bull. Soc. Mycol. Fr. 76 (4): 327 (1961)	NY, U.S.A	Not examined	from herbarium. No communication or specimen received
187. <i>G. miconiae</i> Seixas & R. W. Barreto, in Seixas, Barreto & Killgore, Mycologia 99(1): 103 (2007)	VIC, Brazil	Examined	from herbarium. Specimen in poor condition.
188. G. microsticta Sacc., Syll. fung. (Abellini) 22: 75 (1913)	PAD, Italy	Not examined	No communication or specimen received

189. <i>G. microthelia</i> (Wallr.) Keissl., Rabenh. KryptFl., Edn 2 (Leipzig) 8: 344 (1930)	STR, France	Not examined	from herbarium. No communication or specimen received
190. <i>G. migrans</i> (Rehm) K.D. Hyde, Sydowia 47(2): 192 (19	F, U.S.A	Examined	from herbarium. Specimen in poor condition.
191. <i>G. mildae</i> Treigienė, Mikol. Fitopatol. 40(5): 428 (2006)	MW, Russia	Not examined	No communication or specimen received from herbarium.
192. <i>G. millepunctata</i> (Desm.) Lind., Danish Fungi (Copenhagen): 201 (1913)	BR, Belgium	Not examined	No communication or specimen received from herbarium.
193. <i>G. minuta</i> Arx & Müll., Beitr. Kryptfl. Schweiz 11 (no. 1): 58 (1954)	W, Austria	Examined	This is an unknown ascomycete.
194. <i>G. mirabilis</i> E. Müll., Phytopath. Z. 34(4): 412 (1959)	ZT, Switzerland	Examined	This is a <i>Kabatia</i> species (Fig. 16a-g) (Müller 1959).
195. <i>G. miribelii</i> Aa, Persoonia 8(3): 283 (1975)	CBS, The Netherlands	Not examined	No communication or specimen received from herbarium. According to Aa & Vanev (2002) this is not Phyllosticta.
196. <i>G. moelleriana</i> Sousa da Câmara [as 'molleriana'], Bolm Soc. broteriana, Coimbra, sér. 1 25: 6 (1910)	LISE, Portugal	Not examined	No communication or specimen received from herbarium
197. G. musae Syd. & P. Syd., Annls mycol. 10(1): 80 (1912	F, U.S.A	Examined	The specimen is in poor condition.
198. <i>G. musicola</i> Wulandari, L. Cai and K.D. Hyde, in Wulandari, To-anun, Cai, Abd-Elsalam & Hyde, Cryptog. Mycol. 31(4): 412 (2010)	MFU, Thailand	Examined	No ex-type culture, needs recollecting and sequencing.
199. <i>G. myopori</i> Sousa da Câmara, Agron. lusit. 10(4): 287 (1948)	LISE, Portugal	Not examined	No communication or specimen received from herbarium
200. <i>G. nectandrae</i> F. Stevens, Bot. Gaz. 69: 255 (1920)	ILL, U.S.A	Examined	Dothidea-like species (Fig. 16h- p)
201. <i>G. niesslii</i> (Kunze ex Rehm) Lindau, Syll. fung. (Abellii 1: 421 (1881)	BPI, U.S.A	Not examined	No communication or specimen received from herbarium.
202. <i>G. nilagirica</i> T. S. Ramakr. & K. Ramakr., Proc. Indian natn Sci. Acad., Part B. Biol. Sci. 28: 56 (1948)	AMH, India	Not examined	No communication or specimen received from herbarium.
203. <i>G. oleandrina</i> (Curzi & Barbaini) Arx & E. Müll., in Beitr. Kryptogamenfl. Schweiz 11: 174 (1954)	ZT Switzerland	Not examined	No communication or specimen received from herbarium.
204. <i>G. olivieri</i> (Vouaux) Sacc., Syll. fung. (Abellini) 24(2): (1928)	NY (U.S.A)	Not examined	No communication or specimen received from herbarium.

205. G. opuntiae Petch, Ann. R. bot. Gdns Peradeniya 9: 317	K, NY (U.S.A)	Not	No
(1925)		examined	communication or
			specimen received
			from herbaria.
206. G. oosperma Kirschst., KryptFl. Brandenburg (Leipzig	B, Germany	Examined	Specimen in poor
7(3): 320 (1938)	•		condition.
207. G. oxyriae (Rostr.) P. Larsen. The Botany of Iceland II p	C. Denmark	Examined	Speciemn
9: 484 (1932)	e, Bennara	Enammea	contained an
). 101 (1 <i>)</i> 32)			unknown
			ascomycete (Fig.
	T 10		16q-v).
208. G. paulowniae (S. Ito & Kobayasi) W. Yamam. & S. Ito		Not	No
Sci. Rep. Hyogo Univ. Agric. 5(1): 11 (1961)	NBRC and	examined	communication or
	YAM, Japan		specimen received
			from herbaria.
209. G. pedrosensis Bubák & Gonz. Frag., Hedwigia 57: 4	C, Denmark	Not	No
(1915)		examined	communication or
			specimen received
			from herbarium.
210. G. pegani (Rostr.) Sacc. & Trotter, Syll. fung. (Abellini)	C Denmark	Examined	Botryosphaeria-
22: 72 (1913)	C, Delillark	Liammed	like species (Fig.
22. 72 (1913)			
	 (T. C. L.)		16w-z^2)
211. <i>G. perpusilla</i> (Desm.) Verpl., Bull. Jard. bot. État Brux.	, ,	Not	No
5: 340 (1939)	BR (Belgium)	examined	communication or
			specimen received
			from herbaria.
212. G. perseae Punith., Mycol. Pap. 136: 43 (1974)	IMI, U.K	Not	No
		examined	communication or
			specimen received
			from herbarium.
213. G. photiniae J. V. Almeida & Sousa da Câmara,	LISE, Portugal	Not	No
Bolm Soc. broteriana, Coimbra, sér. 1 24: 11 (1909)	LISE, I Ortugai	examined	communication or
Boilli Soc. broterialia, Collibra, Ser. 1 24. 11 (1909)		exammed	
			specimen received
	TIGE D . 1	N.T. .	from herbarium.
214. G. phytolaccae J. V. Almeida & Sousa da Câmara,	LISE, Portugal	Not	No
Bolm Soc. broteriana, Coimbra, sér. 1 24: 11 (1909)		examined	communication or
			specimen received
			from herbarium.
215. G. pinastri (DC.) Lindau, in Engler & Prantl, Nat.	NY, U.S.A	Not	No
Pflanzenfam., Teil. I (Leipzig) 1(1): 423 (1897)		examined	communication or
			specimen received
			from herbarium.
216. <i>G. pini</i> Sivan., Trans. Br. mycol. Soc. 73(1): 169 (1979)	IMI II K	Examined	Speciment in poor
210. 6. p.m. Sivani, Italis. Br. injeol. 300. 75(1). 105 (1575)	11.11, 0.11	Enammea	condition.
217. G. piperis (Rehm) Arx & E. Müll., Beitr. Kryptfl.	EUCA	Examined	Specimen in poor
	F, U.S.A	Examined	
Schweiz 11(no. 1): 56 (1954).	E II C A		condition.
218. G. plectroniae Syd. and P. Syd., Annls mycol. 15(3/4):	F. U.S.A	Examined	This is a sexual
207 (1917)			state of
			Colletotrichum sp.
			(Fig. 17a-h).
219. G. pleurothallis Dearn. & House, Bull. N.Y. St. Mus.	DAOM, Canada	Not	No
266: 72 (1925)		examined	communication or
			specimen received
			from herbarium.
220. G. podocarpi Crous in Seifert & Castañeda Ruíz,	PREM, South	Examined	Specimen in poor
S. Afr. J. Bot. 62(2): 90 (1996)	Africa South		condition.
221. <i>G. polygonati</i> (Schwein.) Lindau, in Engler & Prantl,	NY, U.S.A	Not	No
	111, U.S.A	examined	communication or
Nat. Pflanzenfam., Teil. I (Leipzig) 1(1): 423 (1897)		cammed	
			specimen received
202 G 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		NT .	from herbarium.
222. <i>G. polygoni</i> Reusser, Phytopath. Z. 51: 236 (1964)	ETH, Ethiopia	Not	No
		examined	communication or
			specimen received

223. <i>G. polygoni-chinensis</i> Sawada ex W.Y. Li & W.Y. Zhuang, in Li & Zhuang, Mycotaxon 100: 218 (2007)	HMAS, China	Not examined	from herbarium. No communication or specimen received
224. <i>G. polygoni-chinensis</i> Sawada, in J. Taihoku Soc. Agric 7:124 (1942)	NTU, Taiwan	Examined	from herbarium. Specimen in poor condition.
225. <i>G. populi</i> G. E. Thompson. Mycologia 46: 658 (1954)	BPI, U.S.A	Examined	This is a <i>Physalospora</i> sp.
226. <i>G. poterii</i> (Petr.) E. Müll., in Sydowia, Beih. 1(Petrak-Festscrift): 213 (1957)	ZT, Zwitzerland	Not examined	(Fig. 17i-s). No communication or specimen received
227. <i>G. prasiolae</i> (G. Winter) Lemmerm., Naturwiss. Ver. Bremen 17: 199 (1901)	B, Germany	Not examined	from herbarium. No communication or specimen received
228. <i>G. prominens</i> Earle, Muhlenbergia 1: 15 (1901)	BPI, U.S.A	Examined	from herbarium. Specimen in poor
229. <i>G. pruni-persicae</i> Sawada, Report of the Department of Agriculture, Government Research Institute of Formosa 85	NTU, Taiwan	Examined	condition. Specimen in poor condition.
230. <i>G. psidii</i> Ullasa & Rawal, Curr. Sci. 53(8): 436 (1984)	CBS, The Netherlands	Not examined	No communication or specimen received from herbaria. This is Phyllosticta capitalensis (Glienke et al. 2011)
231. <i>G. psoromoides</i> (Borrer) Keissl., Rabenh. KryptFl., Edn 2 (Leipzig) 8: 346 (1930)	K, U.K	Not examined	No communication or specimen received from herbarium.
232. <i>G. puerariae</i> Sawada, Report of the Department of Agriculture, Government Research Institute of Formosa 86: 11 (1943)	TNS, TFM, NBRC and YAM, Japan	Not examined	No communication or specimen received from herbaria
233. <i>G. puiggarii</i> (Speg.) Sacc. [as 'puiggari'], Syll. fung. (Abellini) 24(2): 788 (1928)	LPS, Argentina	Not examined	No communication or specimen received
234. <i>G. pullulans</i> Kleb., Ber. dt. bot. Ges. 42: 69 (1924)	B, Germany	Not examined	from herbarium. No communication or specimen received
235. G. punctiformis Chardon, Mycologia 32: 178 (1940)	VIC, Brazil	Examined	from herbarium. Specimen in poor condition.
236. <i>G. punctoidea</i> (Cooke) J. Schröt, Pilzfl. Schlesiens 2: 329 (1894)	K, U.K	Examined	Specimen in poor condition.
237. <i>G. pyricola</i> (Nose) Yamam. [as 'piricola'], Sci. Rep. Hyogo Univ. Agric., Ser. Agr. Biol. 5(1): 11 (1961)	TNS, TFM, NBRC and YAM, Japan	Not examined	No communication or specimen received from herbaria.
238. <i>G quercus-ilicis</i> Traverso, Fl. ital. crypt. 2: 390 (1907)	PAV, PAD, Italy	Not examined	No communication or specimen received
239. <i>G. ramulicola</i> (Pass.) M. Morelet, Ann. Soc. Sci. Nat. Arch. Toulon et du Var 21: 105 (1969)	PARMA, Italy	Not examined	from herbaria. No communication or specimen received from herbarium.

240. G. rubnenowiana Kirschst., KryptFl. Brandenburg (Leipzig) 7(3): 322 (1938) 241. G. reniformis Prill. & Delacr., C. r. hebd. Seanc. Acad. 242. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 243. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 244. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 245. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 246. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 247. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 248. G. rhodomyrti Sawada, in J. Taihoku Soc. Agric., 7:124 249. G. rhytismoides (Bab.) Zahlbr., 7(nos 601-700): 618 249. G. rosae (Aucrsw.) Petr., Annls mycol. 19(1/2): 110 249. G. rosae (Aucrsw.) Petr., Annls mycol. 19(1/2): 110 249. G. rosae (Aucrsw.) Petr., Annls mycol. 19(1/2): 110 249. G. rhytismophila Rehm, Annls mycol. 4(1): 70 (1906) 249. G. rhytismophila Rehm, Annls mycol. 4(1): 70 (1906) 250. G. rhynehosporae F. Stevens, Trans. Ill. St. Acad. Sci. 10: 162-218 (1917) 251. G. ryukyuensis I. Hino & Katum. In Bull. Fac. Agric. Varuguit Univ., 16: 607 (1955) 252. G. rub Sawada, Report of the Department of Agriculture, Governmeak Research Institute of Formosa 85: 31 (1943) 253. G. rugosa T.S. Ramakr, Sriniv. & Sundaram, Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) 254. G. salicis (Fuckel) Syd. ex Kirschst., Annls mycol. 34(4/5): 318 (1936) 255. G. sulicina Hura Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Index fungorum) Proc. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1953) Ref. Indian Acad. Sci., Pt. Sci. 37(3): 85 (1				
241. G. reniformis Prill. & Delacr., C. r. hebd. Séanc. Acad. Sci., Paris (1900) 242. G. rhodomyrti Sawada, in J. Taiboku Soc. Agric., 7:124 243. G. rhodomyrti Sawada, in J. Taiboku Soc. Agric., 7:124 244. G. rhodomyrti Sawada, in J. Taiboku Soc. Agric., 7:124 245. G. rhodomyrti Sawada, in J. Taiboku Soc. Agric., 7:124 246. G. rhytismoides (Bah.) Zahlbr., 7(nos 601-700): 618 (1931) 247. G. robiniae S. Ito & Kobayasi, Bull. Govt Forest Exp. Sin Meguro 108: 18 (1958) 248. G. rosie (Aucrsw.) Petr., Annls mycol. 19(1/2): 110 (1921) 249. G. rosae (Aucrsw.) Petr., Annls mycol. 19(1/2): 110 (1921) 249. G. rosae (Aucrsw.) Petr., Annls mycol. 4(1): 70 (1906) 249. G. rhytismophila Rehm, Annls mycol. 4(1): 70 (1906) 249. G. rhytismophila Rehm, Annls mycol. 4(1): 70 (1906) 250. G. rhynchosporae F. Stevens, Trans. Ill. St. Acad. Sci. 10: 162-218 (1917) 251. G. ryukyuensis I. Hino & Katum, In Bull. Fac. Agric. Yamgui Univ., 16: 607 (1965) 252. G. rub Sawada, Report of the Department of Agriculture, Government Research Institute of Formosa 85: 31 (1943) 253. G. rugosa T.S. Ramakr., Sriniv, & Sundaram, Proc. Indian Acad. Sci., Pl. Sci. 37(3): 85 (1953) 254. G. salicis (Fuckel) Syd. ex Kirschst., Annls mycol. 4(10): 70 (1906) 255. G. saliciae (Fuckel) Syd. ex Kirschst., Annls mycol. 4(10): 70 (1907) 257. G. sarcomphali Gonz. Frug. & Cif., Rep. Dominic. Est. Agron. Haina, Ser. B, Bot. Bull. 8: 20, fig. 9 (1927) 258. G. sawadae Tak. Kobay., in Kobayashi & Sasaki, Trans. MRC, TNS. Not No communication or specimen received from herbarian proceived from herbarian procei	• • • • • • • • • • • • • • • • • • • •	B, Germany		
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Japan specimen received			examined	communication or
		Japan		specimen received

259. <i>G. scabiosae</i> (Lambotte & Fautrey) Arx & E. Müll., Be Kryptfl. Schweiz 11(no. 1): 53 (1954)	i BPI, U.S.A	Examined	Specimen in poor condition.
260. <i>G. scirpicola</i> Grab., Bull. Soc. mycol. Fr. 33: 76 (1917)	B, Germany	Not	No
	•	examined	communication or
			specimen received
			from herbarium.
261 C gariata Päymler Verh Ver Net Heills Pressh	MW, Russia	Not	No
261. <i>G. seriata</i> Bäumler, Verh. Ver. Nat., Heilk. Pressb.,	IVI VV , KUSSIA		
N.F. 23: 26 (1902)		examined	communication or
			specimen received
			from herbarium.
262. G. serratullae (Petr.) E. Müll., Sydowia Beih. 1: 213	W, Austria	Examined	Specimen in poor
(1957)			condition
263. G. sibirica Lavrov, in Trud. Tomsk. Gos. Univ.	MW, Russia	Not	No
Kuibysheva, Ser. Boil., 110(4): 46 (1951)	, , , , , , , , , , , , , , , , , , , ,	examined	communication or
11alo y 51a va, 501. 5011., 110(1). 10 (1751)		сланинса	specimen received
			from herbarium.
264 C	7T 0 1 . 1 . 1	NT.	
264. G. singularis (Magnus) Arx & E. Müll., in Müller &	ZT, Switzerland	Not	No
von Arx, Beitr. Kryptfl. Schweiz 11(no. 2): 25 (1962)		examined	communication or
			specimen received
			from herbarium
265. G. smilacicola Sawada, Special Publication College	TNS, Japan	Examined	This is a sexual
of Agriculture, National Taiwan University 8: 59: (1959)	, <u>r</u>		state of
<i>g</i> , , , , ,			Colletotrichum sp.
			(Glomerella sp.)
			(Fig. 18a-i).
			Currently invalid
			name (Index
			Fungorum).
266. G. smilacicola Sawada ex W.Y. Li & W.Y. Zhuang,	HMAS, China	Not	No
in Li & Zhuang, Mycotaxon 100: 219 (2007)		examined	communication or
			specimen received
			from herbarium.
267. G. sojae Sawada, Special Publication College of	NTU, Taiwan	Examined	This is sexual
Agriculture, National Taiwan University 8: 60 (1959)	NIO, Taiwaii	Examined	state of
Agriculture, National Talwan University 8. 00 (1939)			
			Colletotrichum
			(Glomerella sp.)
			(Fig. 18j-p).
268. G. spinicola (Sacc.) Lindau, in Engler & Prantl,	PAD, Italy	Examined	Specimen is not
Nat. Pflanzenfam., Teil. I (Leipzig) 1(1): 423 (1897)			holotype.
269. <i>G. stromatica</i> (Fuckel) Petr., Annls mycol.	MA, Spain	Examined	Specimen is not
21(3/4): 269 (1923)	, 1		holotype.
270. <i>G. sudetica</i> Petr. Annls mycol. 19(1/2): 104	MA, Spain	Examined	This is an
(1921)	mi, spain	Lammed	unknown
(1)21)			bitunicate
			ascomycete (Fig.
			18q-w).
271. G. sydowiana Trotter, in Saccardo, Syll. fung.	PAD, Italy	Not	No
(Abellini) 24(2): 788 (1928)		examined	communication or
			specimen received
			from herbarium.
272. G. synedrellae Syd., Ann. Mycol. 14: 360 (1916)	F, U.S.A	Examined	Specimen in poor
272. G. syricar estate 5 ja., 1 mm. 1/1 jeon. 1 1. 300 (1710)	1,0.5.11	Enammod	condition.
272 C than (Dooih) C E Domand Dull Dont Agric	VDA Dolond	Examined	
273. <i>G. theae</i> (Racib.) G. E. Bernard, Bull. Dept. Agric.	KRA, Poland	Exammed	Specimen in poor
Indes Netherland 6: 26 (1907)			condition.
274. G. tilakii R. Rao & S.B. Kale, Mycopath. Mycol. appl.	AMH, India	Not	No
27(1-2): 114 (1965)		examined	communication or
			specimen received
			from herbarium.
275. G. tofieldiae (Lambotte & Fautrey) Arx & E. Müll.,	SIENA, Italy	Examined	Poor condition of
Beitr. Kryptfl. Schweiz 11(1): 59 (1954)			the specimen.
276. <i>G. traversoana</i> Gonz. Frag., Trab. Mus. Nac.	MA, Spain	Examined	The specimen
	wiri, spain	LAGIIIIICU	contained an
Cienc. Nat., Ser. Bot.: 73 (1916)			
			unknown

277. <i>G. trichosanthis</i> Katsuki, J. Jap. Bot. 31(12): 370	NBRC, TFM,	Not	ascomycete. No
(1956)	TNS and YAM.	examined	communication or specimen received
278. <i>G. tumefaciens</i> Cribb, Pap. Dept. Bot. (formerly Biol.)	BRIP, Australia	Not	from herbaria. No
(1954)	,	examined	communication or specimen received from herbarium.
279. <i>G. tunetana</i> (Pat.) Sacc., Syll. fung. (Abellini) 24(2): 79 (1928)	PH, U.S.A	Examined	The specimen contained a <i>Pleospora</i>
280. <i>G. ulmariae</i> Miura, Petr. List. Suppl.: 160 (1928)	TNS, TFM,	Not	species. No
	Japan	examined	communication or specimen received from herbaria.
281. <i>G. ulvae</i> M. Reed, University of Calif. Publ. Bot. 1:	PAD, Italy	Not	No
160 (1902)		examined	communication or specimen received from herbarium.
282. G. umbelliferarum (Rabenh.) Petr., Annls mycol.	B (Germany),	Not	No
19(1/2): 106 (1921)	K (U.K)	examined	communication or specimen received from herbaria.
283. <i>G. veneta</i> (Sacc. & Speg.) Traverso, Fl. Ital. Crypt. 2:392 (1906)	PAV, Italy	Examined	Specimen in poor condition.
284. G. valesiaca Arx & Müll., Beitr. Kryptfl. Schweiz	W, Austria	Not	No
11(no. 1): 58 (1954)		Examined	communication or specimen received from herbarium.
285. <i>G. veronicae</i> (Rostr.) P. Larsen in Rosenvinge & Warming, in Botany of Iceland 2(3): 832, 9 (Fungi of Island) (1932)	C, Denmark	Examined	Specimen in poor condition.
286. <i>G. verrucicola</i> (Wedd.)	PC, France	Not	No
Keissl., Rabenh. KryptFl., Edn 2 (Leipzig) 8: 341 (1930)		examined	communication or specimen received from herbarium.
287. G. verrucicola f.	K (U.K),	Not	No
<i>olivieri</i> (Vouaux) Keissl., Rabenh. KryptFl., Edn 2 (Leipzig) 8: 342 (1930)	PC (France), W (Austria)	examined	communication or specimen received
288. G. verrucicola f.	PC, France	Not	from herbaria. No
verrucicola (Wedd.) Keissl., Rabenh. KryptFl., Edn 2 (Leipzig) 8: 341 (1930)	1 C, I fance	examined	communication or specimen received
, ,			from herbarium.
289. <i>G. xanthosomatis</i> Cif. & Gonz. Frag., Boln de la Real Soc. Españ. Hist. Nat., Madrid 26: 493 (1926)	BPI, U.S.A	Examined	Specimen in poor condition.
290. G. xylostei Reusser,	ETH,	Examined	The specimen
Phytopathologische Zeitschrift 51: 223 (1964)	Switzerland		contained a Venturia-like
			species (Fig. 18x-z ⁵).

Abbreviation: AA: Herbarium Institute of Botany and Phytointroduction, Ministry of Science, Academy of Sciences, 44 Temirajzev Street, Alma-Ata 480070, Kazakhstan; AMH: Herbarium, Mycology and Plant Pathology Department, Plant Sciences Division, Agharkar Research Institute, G. G. Agarkar Road, Pune 411 004, Maharashtra, India; B: Botanischer Garten und Botanisches Museum, Berlin, Germany; BISH: Bernice P. Bishop Museum, Honolulu, Hawaii; BM: Herbarium Department of Botany, The Natural History Museum, England U.K; BO: Herbarium Bogoriense, Cibinong, Indonesia, BPI: US National Fungus Collection (Beltsville, Md, USA); BR: Jardin botanique national national de Belgique, Belgium; BRIP: Plant Pathology Herbarium. Department of Primary Industries, Queensland. Australia; BUCM: Mycology Herbarium, Centre of Ecology, Taxonomy and Nature Conservation, Institute of Biology Bucharest, Romanian Academy, 296 Splaiul Independentei, P.O. Box 56-53, 060031 Bucuresti, Romania; C: Natural

History Museum of Denmark. Denmark, Coppenhagen; CBS: CBS-KNAW Fungal Biodiversity Centre, Uppsalalaan 8, 3584 CT, Utrecht, The Netherlands; DAOM: National Mycological Herbarium, Biosystematics Research Institute, Canada Agriculture, Central Experimental Farm, Ottawa, Ontario, Canada; DAR: New South Wales department of Agriculture, Australia; ETH: National Herbarium. Biology department. Science Faculty. Addis Ababa. Ethiopia; F: Herbarium Botany Department, Field Museum of Natural History, 1400 South Lake Shore Drive Chicago, Illinois 60605-2496, U.S.A; FH: Farlow Herbarium and reference library, Harvard University of Massachusetts, U.S.A; G: Conservatoire et Jardin Botanique, Switzerland; HBG: Herbarium Biozentrum Klein-Flottbek, Ohnhorststrasse 18, D-22609 Hamburg, Germany; HMAS: Chinese Academy of Sciences, Beijing, China; ILL: Department of Botany, University of Illinois, Urbana, Illinois, U.S.A; IMI: Commomwealth Mycological Institute, Surrey, England; K: Royal Botanic Garden Herbarium, Kew, U.K; L: National Herbarium of the Netherlands, Leiden; KM: Herbarium Krkonošské museum, Správa Krkonošského národního parku, Dobrovského 3543 11 Vrchlabí, Czech Republic; KRA: Herbarium Institute of Botany, Jagiellonian University 31 Kopernika Street, PL-31-502 Kraków, Poland; LE: Herbarium Russian Academy of Sciences, V. L. Komarov Botanical Institute, Prof. Popov Street 2, Saint Petersburg 197376, Russia; LISE: Herbário Fitosistemática e Geobotânica, Estação Agronómica Nacional, Portugal; LPS: Instituto de Botánica C. Spegazzini, La Plata, Argentina; MA: Herbario Real Jardín Botánico, Plaza de Murillo 2, 28014 Madrid, Spain; MFU: Mae Fah Luang Herbarium, Chiang Rai, Thailand; MW: Herbarium Biological Faculty, Moscow State University, Vorobjovy Gory, Moscow 119991, Russia; NBRC: Culture Collection Division, NITE Biological Resource Center, National Institute of Technology and Evaluation, 2-5-8 Kazusakamatari, Kisarazu-shi, Chiba 292-0818, Japan; NTU: The Herbarium of National Taiwan University, Taiwan; P: Herbier National de Paris, Département de Systématique et Evolution, Phanérogamie, Muséum National d'Histoire Naturelle, 16 rue Buffon, F-75005 Paris, France; PAD: Università degli Studi di Padova, Italy; PAV: Erbario Dipartimento de Ecologia del Territorio, Università di Pavia, Via S. Epifanio 14, I-27100 Pavia, Italy; PARMA: Erbario Istituto ed Orto Botanico, Università degli Studi di Parma, Via Farini 90I-43100 Parma, Italy; PC: VHerbier Cryptogamique, Dépt. Systématique et Évolution, Muséum National d'Histoire Naturelle, France; PDD: New Zealand Fungal Herbarium, Landcare Research, Auckland, New Zealand; PREM: National Collection of Fungi of the Republic of South Africa (Pretoria, South Africa); RB: Herbário Instituto de Pesquisas, Jardim Botânico do Rio de Janeiro, 22460-030 Rio de Janeiro, Rio de Janeiro Brazil; S: Herbarium Swedish Museum of Natural History, P.O. Box 50007, Svante Arrhenius väg 7, S-104 05 Stockholm, Sweden; SIENA: Herbarium Universitatis Senensis, Dipartimento di Scienze Ambientali "G. Sarfatti", Sezione Museo Botanico, Università di Siena, Via Pier Andrea Mattioli 4, 53100 Siena, Italy; STR: Herbier Institut de Botanique, 28 rue Goethe, F-67083 Strasbourg Cedex, France; TNS: Herbarium Department of Botany. National Museum of Nature and Science, Tsukuba, Japan; TFM: Forestry and Forest Products Reseach Institute, Japan; UC: University Herbarium, University of California, 1001 Valley Life Sciences Building #2465, Berkeley, California 94720-2465, U.S.A; URM: Herbário Departamento de Micologia, Centro de Ciências Biológicas, Universidade Federal de Pernambuco 50670-420 Recife, Pernambuco, Brazil; VER: Erbario Sezione di Botanica, Museo Civico di Storia Naturale, Corso Cavour 11, I-37121 Verona, Italy; YAM: Herbarium Plant Pathology Department. Faculty of Agriculture. Yamaguchi University. Yamaguchi-shi, Yamaguchi, Japan; VIC: Herbário Departamento de Biologia Vegetal Universidade Federal de Viçosa, Brazil; W: Naturhistorisches Museum, Wien (Vienna, Austria); YAM: Herbarium Plant Pathology, Faculty of Agriculture, Yamaguchi University, Japan; ZT: University of Zurich & ETH Herbarium of Switzerlands.

Discussion

A large number of species have been described in the genus *Guignardia* that has its asexual morph in *Phyllosticta*. An effort was made to re-visit the genus *Guignardia* by obtaining on loan and examining the type material of the species deposited in various herbaria. In this paper, of the reviewed 304 species, in Section I, forteen species are transferred away from *Guignardia* and grouped in two other families (Botryosphaeriaceae and Hyponectriaceae) and four genera (*Botryosphaeriaceae*, *Vestergrenia*, *Neodeightonia*, *Hyponectria*). In section II, 107 treated as doubtful; identity of 183 species specimens could not be confirmed with certainty in view of non-receipt of holotypes from the herbaria where these are originally deposited and poor condition of those received specimens (Table 2).

Though we did not get specimens for 183 species, interesting responses were received from the herbaria world around. A few reasonings are considered here.

- 1. Some specimens are untraceable or missing in the herbaria because of destructions during World War II, such as B.
- 2. A few packets received were without the appropriate fungal type materials, as in the case of MA.
- 3. Some specimens were loaned elsewhere, such as *G. aegyptiaca* in G (Herbarium Conservatoire et Jardin botaniques de la Ville de Genève) and could not be obtained during the period of this study.
- 4. Herbaria such as HMAS (China), AMH (India) did not respond our requests.

- 5. Some herbaria sent some other collections and not the holotypes that we were looking for, such as MA, with *Guignardia oxyriae*, *G. buxi* and others.
- 6. Many herbaria specimens contained fungi other than Guignardia.
- 7. In a few instances, the specimens that are listed in Index Fungorum did not exist and taxonomy of those fungi has become nomen invalid (invalid name).

About 107 taxa remained doubtful because the specimens were as under:

- 1. Limited number of ascomata in the specimens examined.
- 2. Some holotype specimen packets contained only mounted slides, which unfortunately were not in good condition.
- 3. Some dried leaves or stem specimens with holotype were in such poor conditions that all needful characters of the fungi could not be asertained; in such cases, the taxa are treated as doubtful.
- 4. In species with asexual states and so far not linked to sexual states, it is unclear if the taxa are valid. Holotype specimen of *Guignardia himalayensis* from DAOM and ZT are *Kabatia* sp. Sivanesan (1984) stated that *Kabatia* is an anamorph of *Discosphaerina* whereas Kirk et al. (2008) mentioned this species in Dothioraceae and linked to *Discoshaerina*. Lumbsch (2010) and Wijayawardene et al. (2011) referred *Dischospahaerina* in Hyponectriaceae. Based on these varied and conflicting observations, the position of *Kabatia* remained uncertain. Hyponectriaceae is a family with unitunicate asci. Sivanesan's (1984) suggestion that *Kabatia* is synonym to *Discosphaerina* is also now not tenable.

Fresh collections, cultures and molecular sequencing are needed to clarify the phylogeny and taxonomy of all those doubtful species and many cryptic species.

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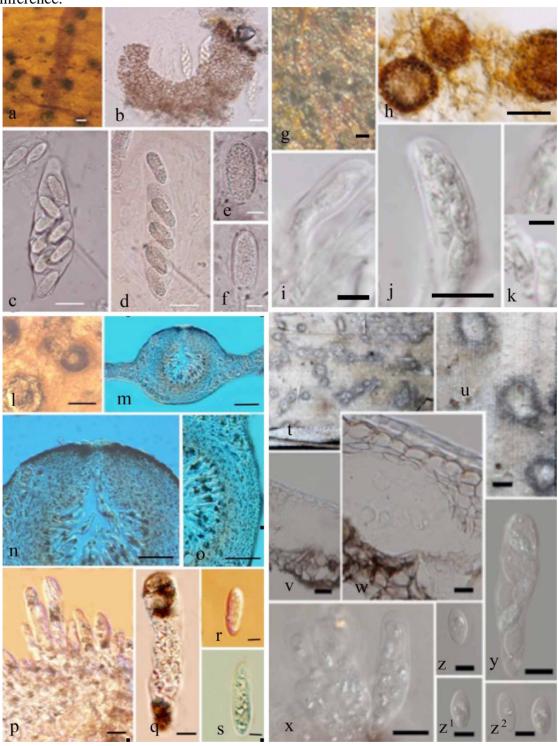
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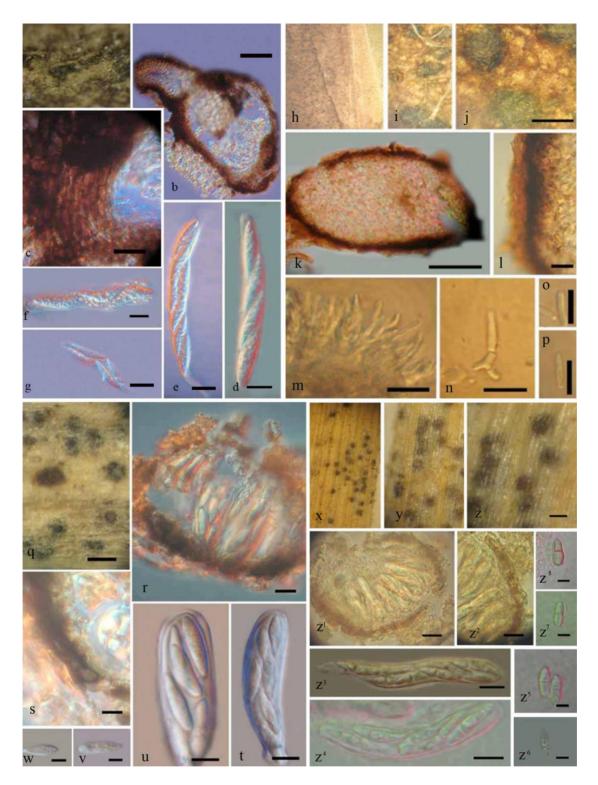
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Appendix I

In those doubtful species referred in Section II, a few specimens had ascomata or conidiomata. Majority of these were in poor condition and the taxonomy could not be ascertained. Nevertheless, wherever possible, morphology was studied and whatever fungi observed are illustrated and parked here in Fig. 11-18 with legends. Notes are given in the last column of Table 2 under inference.



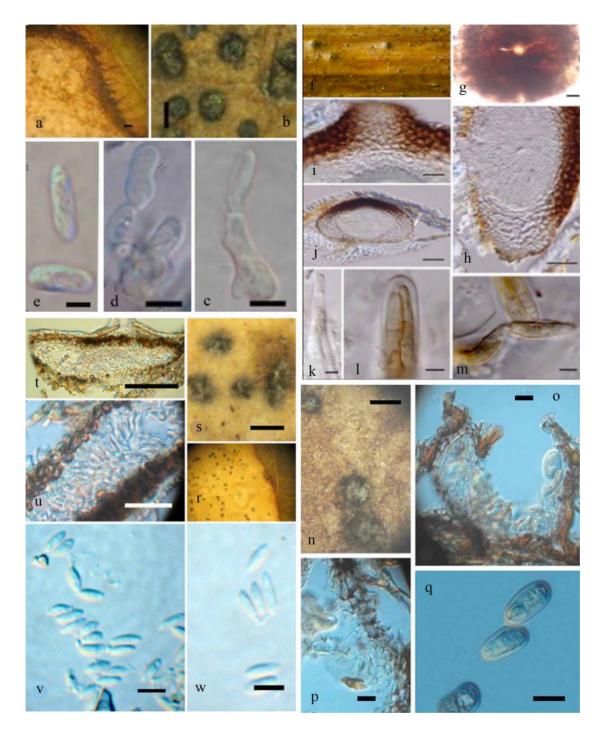
Figs 11a-f – *Colletotrichum* sp. (from holotype of *Guignardia adeana*) – **11g-k** – Unknown ascomycete (from holotype of *G. agerati*) – **11l-s** – *Mastodia tessalata* (from holotype of *G. alaskana*) – **11t-z** – *Botryosphaeria* sp. (from holotype of *G. arengae* Rehm).



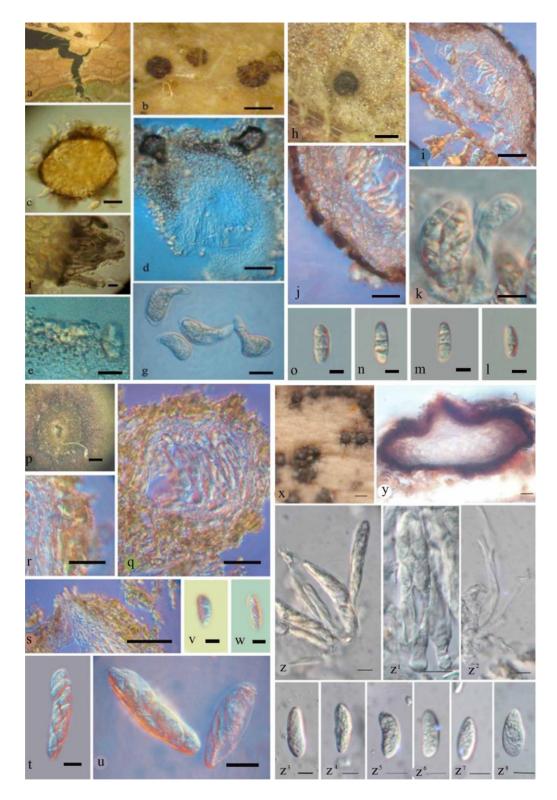
Figs 12a-g – Unknown ascomycete (from holotype of *Guignardia bambusina* Rehm) – **12h-p** – Unknown coelomycete (from holotype of *G. biennis*) – **12q-w** – *Botryosphaeria*-like (from holotype of *G. boltoniae*) – **12x-z** 8 – *Mycosphaerella*-like (from holotype of *G. caricis*).



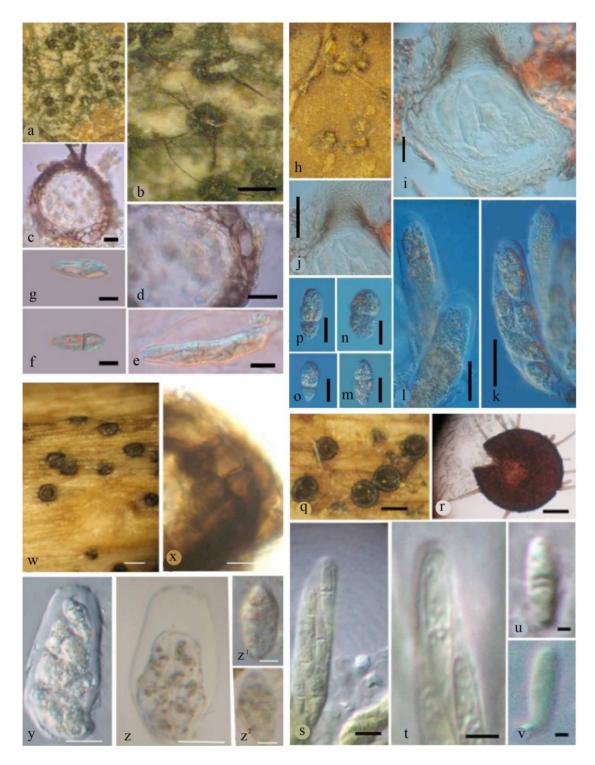
Figs 13a-g – Unknown ascomycetes (from holotype of *Guignardia clusiae*) – **13h-o** – *Pleospora*-like (from holotype of *G. cytisi*) – **13p-u** – *Micropeltis*-like (from holotype of *G. dieffenbachiae* Gonz. Frag. & Cif.) – **13v-z**² – *Colletotrichum* sp. (from holotype of *G. dioscoreae* Sawada).



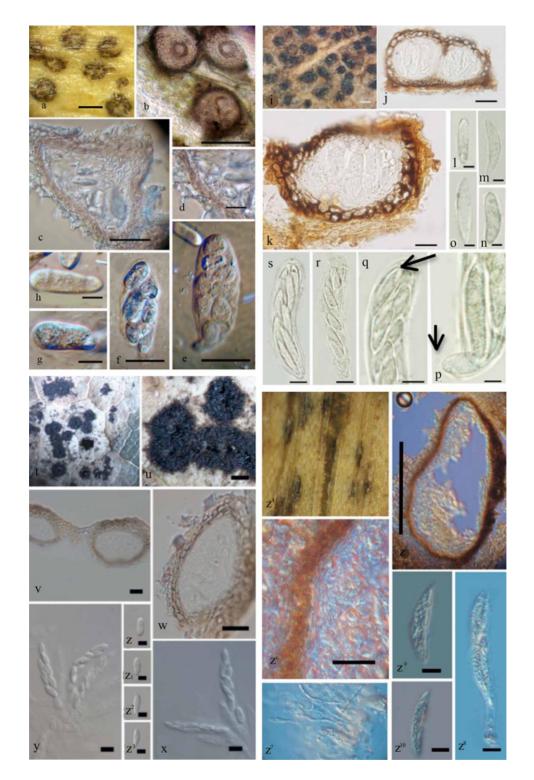
Figs 14a-w – *Colletotrichum* sp. (from holotype of *Guignardia fatsiae*) – **14f-m** – Unknown ascomycete (from holotype of *G. franconicae*) – **14n-q** – Unknown coelomycte (from holotype of *G. fuscocoricae*) – **14r-w** – Phomopsis-like (from holotype of *G. heveae* Syd. & P. Syd.).



Figs 15a-g – *Kabatia* sp. (from holotype of *Guignardia himalayensis*) – **15h-o** – *Irenopsis ingae* (from holotype of *G. ingae*) – **15p-w** – Unknown ascomycete (from holotype of *G. jussiaeae*) – **15x-** \mathbf{z}^{8} – *Colletotrichum* sp. (from holotype of *G. manihoticola*).



Figs 16a-g – *Kabatia* sp. (from holotype of *Guignardia mirabilis*) – **16h-p** – *Dothidea*-like (from holotype of *G. nectandrae*) – **16q-v** – Unknown ascomycete (from holotype of *G. oxyriae*) – **16w-z**² – *Botryosphaeria*-like (from holotype of *G. pegani*).



Figs 17a-h – *Colletotrichum* sp. (from holotype of *Guignardia plectroniae*) – **17i-s** – *Physalospora*-like (from holotype of *G. populi*) – **17t-z**³ – *Phyllachora* sp. (from holotype of *G. rhytismophila*) – **17z**⁴-**z**¹⁰ – Unknown ascomycete (from holotype of *G.rhynchosporae*).



Figs 18a-i – Colletotrichum sp. (from holotype of Guignardia smilacicola) – **18j-p** – Colletotrichum sp. (from holotype of G. sojae). **18q-w** – Unknown bitunicate ascomycete (from holotype of Guignardia sudetica). **18x-z**⁵ – Venturia-like (from holotype of Guignardia xylostei).