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Checklist of fungi on teak

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Abstract

This publication provides an updated checklist of fungi on teak. This is a compilation of information on substrate and locality from where fungi have been recorded on teak, or original descriptions available. In total, 152 species with 34 hitherto unidentified species are listed here on teak, from 39 countries. The fungi recorded from teak are distributed in 32 orders, 69 families, 134 genera, which can be divided into two taxonomic groups: (i) Ascomycota: 23 orders, 54 families, 114 genera, 132 species identified and 29 unidentified species, and (ii) Basidiomycota: 9 orders, 15 families, 20 genera, 20 species identified and 5 unidentified species.

Key words – Ascomycota – Basidiomycota – fungi – *Tectona grandis*

Introduction

There are numerous checklists of fungi, either on selected hosts, selected countries, and selected fungal groups. For example, there are checklists of fungi on cabbage trees (*Cordyline* spp.) and New Zealand flaxes (*Phormium* spp.) in New Zealand (McKenzie et al. 2005), a checklist of fungi in Panama (Piepenbring 2006), an annotated checklist of smut fungi (Ustilaginomycetes) from Thailand (Shivas et al. 2007), a checklist of aphyllophoraceous fungi in Thailand (Choeyklin et al. 2011), a checklist of rust fungi in Turkey (Bahcecioglu & Kabaktepe 2012), and a list of fungi associated with *Pandanaceae* (Whitton et al. 2012). However, there is no comprehensive checklist of fungi associated with *Tectona grandis* L.f.

In The Systematic Mycology and Microbiology Laboratory (SMML) database (Farr et al. 2016 from https://nt.ars-grin.gov/fungaldatabases/), 151 fungus-host combinations have been recorded on teak. Ascomycota represent most fungi reported from teak and occur as endophytes, pathogens and saprobes (Farr et al. 2016). A few Basidiomycota are also described, and they are mostly associated with rot diseases or basal stem rot on teak (Farr et al. 2016).

Some of fungi on teak are not currently included in the SMML database, such as *Daldinia eschscholzii*, *Fusarium* sp., *Penicillium* sp., *Schizophyllum commune* and *Xylaria* sp. (Chareprasert

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et al. 2006). This also includes some lignicolous marine fungi on submerged teak blocks, including *Pseudallescheria ellipsoidea* (Lu et al. 2000, Vrijmoed et al. 1982, 1986).

Here, a checklist of fungi on teak is presented, and an update of taxa including all fungi recorded during the current study (Doilom et al. 2014, 2015, 2016). This will be a guide for future studies and useful information for the development of a database of fungi on teak.

Materials & Methods

The checklist is based on the SMML database (https://nt.ars-grin.gov/fungaldata bases/) (latest accessed 25-9-2016), recent relevant literature and the author's studies. The document includes known hosts and distribution from type or original descriptions available. And information on substrate and locality from where fungi have been recorded on teak, including all those encountered during our own studies (Doilom et al. 2014, 2015, 2016). The current name is used according to Index Fungorum (2016). Genera and species are listed in alphabetical order.

List of fungi associated with *Tectona grandis*

***Acremonium* sp.**

Papua New Guinea and Tanzania, e.g. large concentric leaf blotch on *T. grandis* (Shaw 1984, Ebbels & Allen 1979).

Acremonium tectonae R.F. Castañeda [as '*Acromoniun*'], Fungi Cubenses *II* (La Habana): 2 (1987)

Cuba, onr leaves of *T. grandis* (type).

Aecidium effusum Niessl, Hedwigia 20: 150 (1881)

India, on leaves of *T. grandis* (type).

Albonectria rigidiuscula (Berk. & Broome) Rossman & Samuels, in Rossman, Samuels, Rogerson & Lowen, Stud. Mycol. 42: 105 (1999)

≡ *Nectria rigidiuscula* Berk. & Broome, J. Linn. Soc., Bot. 14(no. 74): 116 (1873) [1875]

Tanzania, on *T. grandis*, as *Fusarium decemcellulare* (Ebbels & Allen 1979).

Alternaria alternata (Fr.) Keissl., Beih. bot. Zbl., Abt. 2 29: 434 (1912)

≡ *Torula alternata* Fr., Syst. mycol. (Lundae) 3(2): 500 (1832)

China, on brown leaf spot of teak (Ai et al. 2015).

***Alternaria* sp.**

India, Venezuela and Thailand, on leaves of *T. grandis* (Urtiaga 2004, Chareprasert et al. 2006, Murali et al. 2007).

Alternaria tillandsiae E.G. Simmons & C.F. Hill, CBS Diversity Ser. (Utrecht) 6: 314 (2007)

USA, on *Tillandsia usneoides* (type).

Thailand, associated with necrotic leaf lesion of *T. grandis* (Doilom et al. 2016).

Antennospora quadricornuta (Cribb & J.W. Cribb) T.W. Johnson, J. Elisha Mitchell scient. Soc. 74: 46 (1958)

≡ *Halosphaeria quadricornuta* Cribb & J.W. Cribb, Pap. Dept. Bot. (formerly Biol.) Univ. Qd. 3: 99 (1956)

Australia, on dead exposed root of *Avicennia marina* var *resinifera* (type).

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

Aplosporella beaumontiana S. Ahmad, *Biologia*, Lahore 8(2): 144 (1962)

Pakistan, on dead branches of *Beaumontia grandiflora* (type).

India, on *T. grandis* (Pande & Rao 1995).

Aplosporella cesatii Sacc. [as '*cesati*'], Syll. fung. (Abellini) 2: 325 (1883)
India, *T. grandis* (Pande & Rao 1995).

Armillaria heimii Pegler, Kew Bull., Addit. Ser. 6: 92 (1977)
Madagascar, on dead wood (type).
Zambia, on *T. grandis* (Gezahgne et al. 2004, Jimu et al. 2015).

Armillaria mellea (Vahl) P. Kumm., Führ. Pilzk. (Zerbst): 134 (1871)
≡ *Agaricus melleus* Vahl, Fl. Danic. 6(17): tab. 1013 (1790)
East Indies, Ghana, Indonesia, Malawi, Tanzania and Zambia, on *T. grandis* (Riley 1960, Spaulding 1961, Anonymous 1964, Corbett 1964, Coetzee et al. 2000, Owusu 2011).

Armillariella mellea (Vahl) P. Karst., Acta Soc. Fauna Flora fenn. 2(no. 1): 4 (1881) [1881-1885]
≡ *Agaricus melleus* Vahl, Fl. Danic. 6(17): tab. 1013 (1790)
Malawi, *T. grandis* (Peregrine & Siddiqi 1972).

Arthonia radiata (Pers.) Ach., K. Vetensk-Acad. Nya Handl. 29: 131 (1808)
≡ *Opegrapha radiata* Pers., Ann. Bot. (Usteri) 1: 29 (1794)
Cuba, on *T. grandis* (Urtiaga 1986).

***Arthonia* sp.**
Cuba, on *T. grandis* (Urtiaga 2004).

***Arthrobotrys* sp.**
Hong Kong, on *T. grandis* (Lu et al. 2000, Zhuang 2001).

Aschersonia cinnabarina Henn., in Warburg, Monsunia 1: 37 (1899) [1900]
Philippines, on leaves of *Glochidion* sp. (type).
Myanmar, on leaves of *T. grandis* (Thaung 2008).

***Aspergillus* sp.**
Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Asteromella tectonae (Syd., P. Syd. & E.J. Butler) Aa, in van der Aa & Vanev, A Revision of the Species Described in Phyllosticta (Utrecht): 452 (2002)
≡ *Phyllosticta tectonae* Syd., P. Syd. & E.J. Butler, Annls mycol. 14(3/4): 181 (1916)
India, on leaves of *T. grandis*, as *Phyllosticta tectonae* (type).
Myanmar, on leaves of *T. grandis*, as *Asteromella tectonae* (Thaung 2008).

Auricularia nigricans (Sw.) Birkebak, Looney & Sánchez-García, in Looney, Birkebak & Matheny, N. Amer. Fung. 8(6):12 (2013)
≡ *Exidia polytricha* Mont., Voy. Indes Or., Bot. 2: 154 (1834)
Philippines, on *T. grandis*, as *Auricularia polytricha* (Teodoro 1937).

Bagnisiella jawaharensis C. Ramesh, Indian Botanical Reporter 5(2): 203 (1987) [1986]
India, on bark of *T. grandis* (type).

Barriopsis tectonae Doilom, L.A. Shuttlew. & K.D. Hyde, in Doilom, Shuttleworth, Roux, Chukeatirote & Hyde, Phytotaxa 176(1): 84 (2014)
Thailand, on dead branch of *T. grandis* (type).

Berkleasmium talaumae Bat. & Cavalc., Riv. Patol. veg., Pavia, sér. 3, 4: 565 (1964)

Brazil, on leaves of *Talauma ovata* (type).
Thailand, on dead twig of *T. grandis* (Doilom et al. 2016).

Boerlagiomyces macrospora V.G. Rao & Varghese [as '*Boerlagomyces*'], Sydowia 32(1–6): 254 (1980) [1979]
=*Thaxteriella macrospora* (V.G. Rao & Varghese) J.L. Crane, Shearer & M.E. Barr, Can. J. Bot. 76(4): 606 (1998)
India, on dead wood of dicotyledon plant (type).
Thailand, on dead branches of *T. grandis* (Doilom et al. 2016).

Bombardia tectonae C. Booth, Mycol. Pap. 94: 7 (1964)
Jamaica, on calyx of *T. grandis* (type).

Botryobasidium aureum Parmasto, Eesti NSV Tead. Akad. Toim., Biol. seer 14(2): 220 (1965)
= *Oidium aureum* Link, Mag. Gesell. naturf. Freunde, Berlin 3(1–2): 18 (1809)
Cuba, on *T. grandis*, as *Oidium aureum* (Urtiaga 1986).

Brachysporiella rhizoidea (V. Rao & de Hoog) W.P. Wu, in Wu & Zhuang, Fungal Diversity Res. Ser. 15: 212 (2005)
≡ *Monotosporella rhizoidea* V. Rao & de Hoog, Stud. Mycol. 28: 6 (1986)
India, on bark of *T. grandis*, as *Monotosporella rhizoidea* (type).

***Capnodium* sp.**
Papua New Guinea, on *T. grandis* (Shaw 1984).

Ceratocladium purpureogriseum B. Sutton, Mysore J. agric. Sci. 7: 401 (1973)
India, on stem of *Justicia betonica* (type).
Thailand, on dead twig of *T. grandis* (Doilom et al. 2016).

Ceratocystis fimbriata Ellis & Halst., Bull. New York Agricultural Experimental Station 76: 14 (1890)
Brazil, on stem fragments of *T. grandis* (Firmino et al. 2012).

Cercospora apii Fresen., Beitr. Mykol. 3: 91 (1863)
China, Hawaii, India, Indonesia, Taiwan, Trinidad and Tobago, on *T. grandis* (Crous & Braun 2003).

***Cercospora* sp.**
Mauritius, on *T. grandis* (Wiehe 1948).

Cercospora tectonae F. Stevens, Bulletin of the Bernice P. Bishop Museum, Honolulu, Hawaii 19: 155 (1925)
Hawaii, on leaves *T. grandis* (type).
China, Hawaii, India, Indonesia, Taiwan, Thailand, Trinidad and Tobago, e.g. on leaves of *T. grandis* (Stevens 1925, Chupp 1953, Sawada 1959, Spaulding 1961, Vasudeva 1963, Anonymous 1979, Tai 1979, Baker & Dale 1951, Dennis 1970, Goos & Gowing 1992, Chen 2002, Kamal 2010, Meeboon et al. 2007, To-anun et al. 2011).

Cercospora tectoniae F. Stevens, Bulletin of the Bernice P. Bishop Museum, Honolulu, Hawaii 19: 155 (1925)
Hawaii, on leaves *T. grandis* (type).

Hawaii and Niue, on leaves *T. grandis* (Anonymous 1960, Dingley et al. 1981, Raabe et al. 1981).

Cercospora tectonigena Kamal & V.K. Pal, in Kamal, Cercosporoid Fungi of India (Dehra Dun): 90 [+ Errata] (2010)

India, on leaves of *T. grandis* (type).

Chaetomium fusum L.M. Ames, Monograph of the Chaetomiaceae (U.S. Army Research and Development Service): 25 (1963)

= *Chaetomium angustisporum* C. Booth, Mycol. Pap. 94: 9 (1964).

Jamaica, on calyx of *T. grandis*, as *Chaetomium angustisporum* (Booth 1964).

Chaetomium globosum Kunze, in Kunze & Schmidt, Mykologische Hefte (Leipzig) 1: 16 (1817)

Thailand, on dead moist twigs of *T. grandis* (Maharachchikumbura et al. 2016).

***Cladosporium* sp.**

China and Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Cladosporium tectonae Sawada, Rep. Govt Res. Inst. Dep. Agric., Formosa 85: 92 (1943)

Taiwan, on *T. grandis* (type).

Taiwan, on *T. grandis* (Anonymous 1979, Dugan et al. 2004).

Cladosporium tenuissimum Cooke, Grevillea 6(no. 40): 140 (1878)

South Carolina, on sheaths of *Zea Mays* (type).

India, on *T. grandis* (Khan et al. 1989).

Colletotrichum gloeosporioides (Penz.) Penz. & Sacc., Atti Inst. Veneto Sci. lett., ed Arti, Sér. 6, 2: 670 (1884)

≡ *Vermicularia gloeosporioides* Penz., Michelia 2(no. 8): 450 (1882)

India, on leaves of *T. grandis*, as *Colletotrichum gloeosporioides* (Murali et al. 2007).

Cuba, on *T. grandis*, as *Glomerella cingulata* (Urtiaga 2004).

***Colletotrichum* sp.**

India, on leaves of *T. grandis* (Chareprasert et al. 2006, Murali et al. 2007).

Corallomycetella elegans (Berk. & M.A. Curtis) C. Herrera & P. Chaverri, Mycosystema 32(3): 533 (2013)

≡ *Corallomyces elegans* Berk. & M.A. Curtis, J. Acad. nat. Sci. Philad., N.S. 2(6): 289 (1854) [1853]

Costa Rica, on canker of *T. grandis* (Rossman et al. 2013).

***Corticium* sp.**

Philippines, on *T. grandis* (Reinking 1920, Teodoro 1937).

Corynespora cassiicola (Berk. & M.A. Curtis) C.T. Wei, Mycol. Pap. 34: 5 (1950)

≡ *Helminthosporium cassiicola* Berk. & M.A. Curtis [as 'cassiaecola'], in Berkeley, J. Linn. Soc., Bot. 10(no. 46): 361 (1868) [1869]

Cuba, on leaves of *Cassia* (type).

India, on leaves of *T. grandis* (Murali et al. 2007).

Corynespora tectonae X.G. Zhang & Ch.K. Shi, Mycotaxon 92: 418 (2005)

China, on dead branches of *T. grandis* (type).

Cyanonectria buxi (Fuckel) Schroers, Gräfenhan & Seifert, in Schroers, Gräfenhan, Nirenberg & Seifert, Stud. Mycol. 68: 120 (2011)
≡ *Gibbera buxi* Fuckel, Jb. nassau. Ver. Naturk. 27–28: 32 (1874) [1873–74]
Germany, branches *Buxus sempervirens* (type).
India, on *T. grandis*, as *Gibberella buxi* (Pande 2008).

***Cylindrocephalum* sp.**
Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

***Cytospora* sp.**
Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Daldinia eschscholzii (Ehrenb.) Rehm [as '*eschscholzii*'], Annls mycol. 2(2): 175 (1904)
≡ *Sphaeria eschscholtzii* Ehrenb., Fung. Champ.: 59, tab. 18, fig. 8 (1820)
Thailand, on leaves of *T. grandis* (Chareprasert et al. 2006).

Diaporthe neoraonikayaporum Doilom, A.J. Dissanayake & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, associated with branch and twig dieback on *T. grandis* (type).

***Diaporthe* sp.**
Thailand, on leaves *T. grandis* (Chareprasert et al. 2006, Udayanga et al. 2012a, b).

Diaporthe tectonae Doilom, A.J. Dissanayake & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, associated with branch and twig dieback on *T. grandis* (type).

Diaporthe tectonendophytica Doilom, A.J. Dissanayake & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, asymptomatic branch of *T. grandis* (type).

Diaporthe tectonigena Doilom, A.J. Dissanayake & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, associated with twig dieback on *T. grandis* (type).

Diatrype tectonae M.S. Patil & S.D. Patil, Indian J. Mycol. Plant Path. 13(2): 141 (1985) [1983]
India, on bark of *T. grandis* (type).

Diatrypella tectonae M. Doilom, Q.J. Shang & K.D. Hyde, in Shang et al. (in prep)
Thailand, on dead branch of *T. grandis* (type).

Distoseptispora tectonae Doilom & K.D. Hyde, in Hyde et al. 2016, Fungal Diversity (in press)
Thailand, on dead twig and branch of *T. grandis* (type).

Distoseptispora tectonigena Doilom & K.D. Hyde, in Hyde et al. 2016, Fungal Diversity (in press)
Thailand, on dead twig of *T. grandis* (type).

Dothiorella tectonae Doilom, L.A. Shuttleworth, & K.D. Hyde, Phytotaxa 233(1): 001-026 (2015)
Thailand, on dead branch of *T. grandis* (type).

Ellisembia leonensis (M.B. Ellis) McKenzie, Mycotaxon 56: 13 (1995)

≡ *Sporidesmium leonense* M.B. Ellis, Mycol. Pap. 70: 28 (1958)
Sierra Leone, on dead culms of *Pennisetum purpureum* (type).
India, on *T. grandis*, as *Sporidesmium leonense* (Agarwal et al. 1993).

Erysiphe tectonae (E.S. Salmon) U. Braun & S. Takam., Schlechtendalia 4: 24 (2000)
≡ *Uncinula tectonae* E.S. Salmon, Annls mycol. 5(6): 479 (1907)
India, on *T. grandis* (type).
Myanmar, on leaves of *T. grandis*, as *Erysiphe tectonae* (Thaung 2007a).
India and Myanmar, on *T. grandis*, as *Uncinula tectonae* (Spaulding 1961, Amano 1986, Braun 1987, Bappammal et al. 1995, Paul & Thakur 2006, Pande 2008).

Erythricium salmonicolor (Berk. & Broome) Burds., Mycol. Mem. 10: 151 (1985)
≡ *Corticium salmonicolor* Berk. & Broome, J. Linn. Soc., Bot. 14(no. 74): 71 (1873) [1875]
Sri Lanka, on bark (type).
India and Indonesia, on *T. grandis*, as *Corticium salmonicolor* (Anonymous 1964).

***Eutypella* sp.**
Papua New Guinea, on dead branch of *T. grandis* (Shaw 1984).

Fusarium incarnatum (Desm.) Sacc., Syll. fung. (Abellini) 4: 712 (1886)
≡ *Fusisporium incarnatum* Desm., Annls Sci. Nat., Bot., sér. 2 10: 309 (1838)
Tanzania, on *T. grandis*, as *Fusarium semitectum* (Ebbels & Allen 1979).

Fusarium solani (Mart.) Sacc., Michelia 2(no. 7): 296 (1881)
≡ *Fusisporium solani* Mart., Die Kartoffel-Epidemie der letzten Jahre oder die Stockfäule und Räude der Kartoffeln (Munich) 3: fig. 25–30 (1842)
Tanzania and Thailand, e.g. on stem of *T. grandis*, as *Fusarium solani* (Ebbels & Allen, 1979, Doilom et al. 2016).
India, on *T. grandis*, as *Nectria haematococca* (Spaulding 1961).

***Fusarium* sp.**
Thailand, on leaves of *T. grandis* (Chareprasert et al. 2006).

Fusicladium tectonicola (Yong H. He & Z.Y. Zhang) U. Braun & Bensch, in Schubert, Braun, Groenewald & Crous, Stud. Mycol. 72(1): 332 (2012)
≡ *Cladosporium tectonicola* Yong H. He & Z.Y. Zhang, Mycosystema 21(1): 21 (2002)
China, on leaves of *T. grandis*, as *Cladosporium tectonicola* (type).
Cameroon, on leaves of *T. grandis*, as *Fusicladium tectonicola* (Braun et al. 2013).

Ganoderma applanatum (Pers.) Pat., Hyménomyc. Eur. (Paris): 143 (1887)
≡ *Boletus applanatus* Pers., Observ. mycol. (Lipsiae) 2: 2 (1800) [1799]
India, on *T. grandis* (Sarbhoy & Agarwal 1990).

Ganoderma australe (Fr.) Pat., Bull. Soc. mycol. Fr. 5(2,3): 65 (1889)
≡ *Polyporus australis* Fr., Elench. fung. (Greifswald) 1: 108 (1828)
Papua New Guinea, on stump of *T. grandis*, as *Ganoderma tornatum* (Shaw 1984).

Ganoderma colossus (Fr.) C.F. Baker, Brotéria: 425 (1918)
≡ *Polyporus colossus* Fr., Nova Acta R. Soc. Scient. upsal., Ser. 3 1(1): 56 (1851) [1855]
Costa Rica, on stumps of *Cedrela odorata* (type).
India, on *T. grandis* (Sarbhoy & Agarwal 1990).

Gibberella pulicaris (Kunze) Sacc., Michelia 1(no. 1): 43 (1877)
≡ *Sphaeria pulicaris* Kunze, in Kunze & Schmidt, Mykologische Hefte (Leipzig) 2: 37 (1823)
Tanzania, on *T. grandis*, as *Fusarium sambucinum* (Ebbels & Allen 1979).

Gonatophragmium mori (Sawada) Deighton, in Cejp & Deighton, Mycol. Pap. 117: 13 (1969)
≡ *Spondylocladium mori* Sawada, Spec. Bull. Agric. Exp. Station Formosa 19: 665 (1919)
Taiwan, on *Morus alba* (type).
Nigeria, on *T. grandis* (Deighton 1969).

Halosphaeria quadri-remis (Höhnk) Kohlm., Can. J. Bot. 50(9): 1957 (1972)
≡ *Palomyces quadri-remis* Höhnk [as 'quadriremis'], Veröff. Inst. Meeresf. Bremerhaven 3: 213 (1955)
Hong Kong, on wood baits of *T. grandis*, as *Remispora quadri-remis* (Lu et al. 2000, Zhuang 2001).

Halosphaeriopsis mediosetigera (Cribb & J.W. Cribb) T.W. Johnson, J. Elisha Mitchell scient. Soc. 74: 44 (1958)
≡ *Halosphaeria mediosetigera* Cribb & J.W. Cribb, Pap. Dept. Bot. (formerly Biol.) Univ. Qd. 3: 100 (1956)
Hong Kong, on wood baits of *T. grandis*, as *Trichocladium achrasporum* (Lu et al. 2000, Zhuang 2001).

Helicobasidium compactum Boedijn, Arch. voor de Thee Cultuur 1: 10 (1930)
East Indies and Tanzania, on *T. grandis* (Spaulding 1961, Anonymous 1964, Ebbels & Allen 1979).

***Helicobasidium* sp.**
Sudan, on *T. grandis* (Anonymous 1964).

Helicoma siamense S. Boonmee & K.D. Hyde, in Boonmee, Rossman, Liu, Crous, Bhat, Chukeatirote, Jones & Hyde, Fungal Diversity 68: 268 (2014)
Thailand, on dead wood (type).
Thailand, on decaying inner-surface of bark of *T. grandis* (Doilom et al. 2016).

Hermatomyces tectonae Doilom D.J. Bhat & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on dead twigs of *T. grandis* (type).

Hermatomyces thailandica Doilom D.J. Bhat & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on dead twigs of *T. grandis* (type).

Huntiella chinaeucensis (S.F. Chen bis, Jol. Roux, M.J. Wingf. & X.D. Zhou) Z.W. de Beer, T.A. Duong & M.J. Wingf., in de Beer, Duong, Barnes, Wingfield & Wingfield, Stud. Mycol. 79: 212 (2014)
≡ *Ceratocystis chinaeucensis* S.F. Chen, M. van Wyk, M.J. Wingf. & X.D. Zhou, Fungal Diversity 58: 274 (2013)
China, on stumps of *E. urophylla* × *E. grandis* clone (type).
Thailand, on stumps of *T. grandis* (Maharachchikumbura et al. 2016).

Hyalocladosporiella tectonae Crous & Alfenas, in Crous et al., Persoonia, Mol. Phyl. Evol. Fungi 32: 237 (2014)

Brazil, on leaves of *T. grandis* (type).

Hypocrella discoidea (Berk. & Broome) Sacc., Michelia 1(no. 3): 322 (1878)
≡ *Hypocrea discoidea* Berk. & Broome, J. Linn. Soc., Bot. 14(no. 74): 113 (1873) [1875]
Sri Lanka, on leaves of *Zingiber* (type).
Myanmar, on *Aleyrodes* on *T. grandis* (Thaung 2007b).

Hypoxylon haematostroma Mont., in Sagra, Annls Sci. Nat., Bot., sér. 2, 17: 124 (1842)
Cuba, on fallen bark (type).
India, on dead trunk of *T. grandis* (Pande 2008).

Kernia ovata (C. Booth) Malloch & Cain, Mycologia 65(5): 1075 (1973)
≡ *Thielavia ovata* C. Booth, Mycol. Pap. 94: 7 (1964)
Jamaica, on calyx of *T. grandis*, as *Thielavia ovata* (type).

Khuskia oryzae H.J. Huds., Trans. Br. mycol. Soc. 46(3): 358 (1963)
Jamaica, on stems and leaves of *Vetiveria zizanioides* (type).
Thailand and Venezuela, on leaves of *T. gandis*, as *Nigrospora sphaerica* (Urtiaga 2004, Chareprasert et al. 2006).

Kirschsteiniothelia tectonae Doilom, D.J. Bhat & K.D. Hyde, in Li et al., Fungal Diversity 78:1–237 (2016)
Thailand, on dead branches of *T. grandis* (type).

Kretzschmaria deusta (Hoffm.) P.M.D. Martin, Jl S. Afr. Bot. 36(2): 80 (1970)
≡ *Sphaeria deusta* Hoffm., Veg. Crypt. 1: 3 (1787)
Tanzania, on *T. grandis*, as *Ustulina deusta* (Ebbels & Allen 1979).

Kretzschmaria zonata (Lév.) P.M.D. Martin, Jl S. Afr. Bot. 42(1): 75 (1976)
≡ *Sphaeria zonata* Lév., Annls Sci. Nat., Bot., sér. 3 3: 48 (1845)
Nigeria, on *T. grandis*, as *Ustulina zonata* (West 1938).

Lasiodiplodia brasiliense M.S.B. Netto et al., in Netto et al., Fungal Diversity 67: 134 (2014)
Brazil, on stems of *Mangifera indica* (type).
Thailand, on dead branches of *T. grandis* (Doilom et al. 2015, 2016).

Lasiodiplodia pseudotheobromae A.J.L. Phillips et al., Fungal Diversity 28: 8 (2008)
Costa Rica, on *Gmelina arborea* (type).
Thailand, associated with trunk canker and branch dieback symptoms, and from dead twigs and branches of *T. grandis* (Doilom et al. 2015, 2016).

Lasiodiplodia theobromae (Pat.) Griffon & Maubl., Bull. trimest. Soc. Mycol. Fr. 25: 57 (1909)
≡ *Botryodiplodia theobromae* Pat., Bull. Soc. mycol. Fr. 8(3): 136 (1892)
Tanzania, on *T. grandis*, as *Botryodiplodia theobromae* (Ebbels & Allen 1979).
Brazil, India and Thailand on leaves, dead twig, trunk canker of *T. grandis*, as *Lasiodiplodia theobromae* (Murali et al. 2007, Borges et al. 2015).

Latericonis obscura V. Rao, K.A. Reddy & de Hoog, Mycotaxon 19: 409 (1984)
India, on bark of *T. grandis* (type).

Lectera colletotrichoides (J.E. Chilton) P.F. Cannon, in Cannon, Buddie, Bridge, Neergaard, Lübeck & Askar, MycoKeys 3: 28 (2012)

≡ *Volutella colletotrichoides* J.E. Chilton, Mycologia 46(6): 801 (1954)
USA, on stem of *Medicago sativa* (lectotype).
India, on leaf litter of *T. grandis* (Cannon et al. 2012).

Leptosphaeria compressa (Rehm) L. Holm, Symb. bot. upsal. 14(no. 3): 29 (1957)
≡ *Ophiobolus compressus* Rehm, Ber. naturhist. Augsburg 26: 49 (1881)
India, on dead twigs of *T. grandis* (Pande 2008).

Longiostiolum tectonae Doilom, D.J. Bhat & K.D. Hyde, in Li et al., Fungal Diversity 78:1–237 (2016)
Thailand, on dead bark of *T. grandis* (type).

Macrovalsaria megalospora (Mont.) Sivan.Trans. Br. Mycol. Soc. 65: 400 (1975)
≡ *Sphaeria megalospora* Mont., Annls Sci. Nat., Bot., sér. 2, 14: 324 (1840)
Several specimens were reexamined in Sivanesan (1975).
Thailand, on dead branches on *T. grandis* (reference specimen, Doilom et al. 2016).

Manoharachariella tectonae Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on dead branches of *T. grandis* (type).

Melanoctona tectonae Qing Tian, Doilom & K.D. Hyde, Qing et al. 2016, (In prep)
Thailand, on dead branches of *T. grandis* (type).

Moelleriella mollii (Koord.) P. Chaverri, M. Liu & K.T. Hodge, Stud. Mycol. 60: 3 (2008)
≡ *Hypocrella mollii* Koord., Verh. K. Akad. Wet., tweede sect. 13(4): 179 (1907)
Myanmar, on *Aleyrodes* on *T. grandis*, as *Hypocrella mollii* (Thaung 2007b).

Monodictys nitens (Schwein.) S. Hughes, Can. J. Bot. 36: 786 (1958)
≡ *Sporidesmium nitens* Schwein., Trans. Am. phil. Soc., New Series 4(2): 306 (1832) [1834]
China, on *T. grandis* (Zhao & Zhang 2007, Tianyu 2009).

Monodictys pelagica (T. Johnson) E.B.G. Jones, Trans. Br. mycol. Soc. 46(1): 138 (1963)
≡ *Piricauda pelagica* T. Johnson, J. Elisha Mitchell scient. Soc. 74: 42 (1958)
USA, on sunken driftwood (type).
Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

***Monodictys* sp.**
China, on *T. grandis* (Zhao & Zhang 2007, Tianyu 2009).

Munkovalsaria donacina (Niessl) Aptroot, Nova Hedwigia 60(3–4): 346 (1995)
≡ *Microthelia donacina* Niessl, in Thümen, Contrib. Flor. Mycol. Lusitan.: no. 536 (1879)
Portugal, on dead culms (type).
India, on *T. grandis* (Aptroot 1995).

Mycosphaerella tecomae F.A. Wolf, Mycologia 35(5): 507 (1943)
Unknow locality, on leaves of *Tecoma radicans* (type).
Venezuela, on *T. grandis* (Urtiaga 1986).
Myriangium tectonae Tend., Sydowia 24(1–6): 229 (1971) [1970]
India, on bark of *T. grandis* (type).

Myrothecium roridum Tode, Fung. mecklenb. sel. (Lüneburg) 1: 25 (1790)

Taiwan, on twigs of *T. grandis* (Matsushima 1980).

Neooccultibambusa chiangraiensis Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)

Thailand, on dead twigs *T. grandis* (type).

Nitschkia broomeana (Berk.) Nannf. [as '*broomeiana*'], Svensk bot. Tidskr. 69(1): 60 (1975)
≡ *Sphaeria broomeana* Berk. [as 'broomeiana'], Hooker's J. Bot. Kew Gard. Misc. 6: 231 (1854)

Sri Lanka, on dead wood (type).

India, on *T. grandis* (Rajak & Pandey 1985).

Nitschkia tectonae R.K. Verma, Indian Phytopath. 63(4): 430 (2010)

India, between bark and wood on stem and dead branches of *T. grandis* (type).

***Oidiodendron* sp.**

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

***Oidium* sp.**

Sri Lanka, on *T. grandis* (Amano 1986).

Olivea tectonae (T.S. Ramakr. & K. Ramakr.) J.L. Mulder, CMI Descriptions of Pathogenic Fungi and Bacteria 37: no. 365 (1973)
≡ *Chaconia tectonae* T.S. Ramakr. & K. Ramakr., Indian Phytopath. 2: 19 (1949)

India, on *T. grandis* (type).

Australia, Brazil, China, Costa Rica, Cuba, India, Indonesia, Pakistan, Panama, Taiwan, Thailand and Viet Nam, e.g. on leaves of *T. grandis*, as *Olivea tectonae* (Thirumalachar 1949, Boedijn 1959, Spaulding 1961, Ragunathan & Ramakrishnan 1972, Anonymous 1979, Tai 1979, Ono & Hennen 1983, Lorsuwan et al. 1984, Hosagoudar 1988, Zhuang & Wei 1999, Zhuang 2001, Chen 2002, Arguedas 2004, Daly et al. 2006, Kaneko et al. 2007, Perez et al. 2009, Cabral et al. 2010).

China, India, Indonesia, Japan, Pakistan, Taiwan and Thailand, on *T. grandis*, as *Uredo tectonae* (Ito 1950, Spaulding 1961, Giatgong 1980, Chen 2002).

India, Pakistan and Taiwan, on *T. grandis*, as *Chaconia tectonae* (Spaulding 1961, Hiratsuka & Chen 1991).

Ozonium auricomum Link [as 'auriconum'], Mag. Gesell. naturf. Freunde, Berlin 3(1–2): 21 (1809)

Philippines, on *T. grandis* (Teodoro 1937).

Paecilomyces fulvus Stolk & E.S. Salmon, Persoonia 6(3): 354 (1971)
= *Byssochlamys fulva* Olliver & G. Sm., J. Bot., Lond. 71: 196 (1933)

Hong Kong, on wood baits of *T. grandis*, as *Byssochlamys fulva* (Lu et al. 2000, Zhuang 2001).

***Paecilomyces* sp.**

India, on leaves of *T. grandis* (Murali et al. 2007).

Papulaspora halima Anastasiou, Nova Hedwigia 6(3-4): 266 (1963)

USA, on wood of *Tamarix aphylla* submerged in salt water (type).

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

Paradictyoarthrinium diffractum Matsush., Matsush. Mycol. Mem. 9: 18 (1996)

South Africa, in stream on a dead decaying spathe of *Cocos nucifera* (type).

Thailand, on dead stumps and dead stems of *T. grandis* (Liu et al. 2015, Doilom et al. 2016).

Paradictyoarthrinium tectonicola Doilom & K.D. Hyde, in Liu et al., Fungal Diversity. 72: 1-197 (2015)

Thailand, on dead stem of *T. grandis* (type).

Parascedosporium tectonae (C. Booth) Gilgado, Gené, Cano & Guarro, Int. J. Syst. Evol. Microbiol. 57(9): 2176 (2007)

≡ *Graphium tectonae* C. Booth, Mycol. Pap. 94: 5 (1964)

Jamaica, on seeds *T. grandis*, as *Graphium tectonae* (type, Lackner & de Hoog 2011).

Patellaria atrata (Hedw.) Fr., Syst. mycol. (Lundae) 2(1): 158 (1822)

≡ *Lichen atratus* Hedw., Descr. micr.-anal. musc. frond. 2(3): 61 (1788) [1789]

India, on dead woods of *T. grandis* (Pande 2008).

Penicillium **sp.**

Thailand, on leaves of *T. grandis* (Chareprasert et al. 2006).

Periconia prolifica Anastasiou, Nova Hedwigia 6(3-4): 260 (1963)

USA, on wood of *Tamarix aphylla* submerged in salt water (type).

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

Pestalotia **spp.**

India, on leaves of *T. grandis* (Mathur 1979).

Pestalotiopsis kwangsiensis Y.X. Chen & G. Wei, in Chen, Wei & Chen, Mycosystema 21(3): 319 (2002)

China, on leaves of *Sinopimelodendron kuwangsiensis* (type).

China, on *T. grandis* (Ge et al. 2009).

Pestalotiopsis **sp.**

India, on leaves of *T. grandis* (Murali et al. 2007).

Petriella setifera (Alf. Schmidt) Curzi, Boll. R. Staz. Patalog. Veget. Roma, N.S. 10: 34 (1930)

≡ *Microascus setifer* Alf. Schmidt, Die Verbreitung der coprophilen Pilze in Schlesien: 30 (1912)

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

Peyronellaea obtusa (Fuckel) Aveskamp, Gruyter & Verkley, in Aveskamp, Gruyter, Woudenberg, Verkley & Crous, Stud. Mycol. 65: 33 (2010)

≡ *Phoma obtusa* Fuckel, Bot. Ztg. 27:82 (1869)

Tanzania, on *T. grandis*, as *Botryosphaeria obtusa* (Ebbels & Allen 1979).

Phaeoacremonium italicum A. Carlucci & M.L. Raimondo, in Raimondo, Lops & Carlucci, Mycologia 106(6): 1123 (2014)

Italy, on *Vitis vinifera* (type).

Thailand, associated with stem wilt of *T. grandis* (Doilom et al. 2016).

Phaeoacremonium tectonae Doilom & K.D. Hyde, Fungal Diversity, Ariyawansa in et al., Fungal Diversity 75: 27-274.

Thailand, associated with twig heart rot and stem wilt of *T. grandis* (type).

Phellinidium lamaoense (Murrill) Y.C. Dai [as '*lamaënse*'] Ann. bot. fenn. 32(1): 69 (1995)
≡ *Pyropolyporus lamaoensis* Murrill [as '*lamaensis*'], Bull. Torrey bot. Club 34: 479 (1907)

Philippines, on decayed wood (type).

East Indies, on *T. grandis*, as *Fomes lamaoensis* (Spaulding 1961, Anonymous 1964).

Phellinus noxius (Corner) G. Cunn., Bull. N.Z. Dept. Sci. Industr. Res., Pl. Dis. Div. 164: 221 (1965)
≡ *Fomes noxius* Corner, Gardens' Bulletin, Strait Settlements 5(12): 324 (1932)

Malaysia, on *Hevea brasiliensis* (type).

Papua New Guinea and Malaysia, on stump and causing basal root rot on *T. grandis*, as *Phellinus noxius* (Shaw 1984, Mohd Farid et al. 2005a, b).

Africa, Indonesia, Nigeria, on *T. grandis*, as *Fomes noxius* (Anonymous 1964, West 1938.)

Phialophora **sp.**

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Phoma **sp.**

Guinea, India and Tanzania, e.g. on leaves of *T. grandis* (Kranz 1965, Murali et al. 2007, Ebbels & Allen 1979).

Phomopsis **sp.**

India, on leaves of *T. grandis* (Murali et al. 2007).

Phomopsis tectonae D.P. Tiwari, R.C. Rajak & Nikhra, Curr. Sci. 50(22): 1002 (1981)

India, on leaves of *T. grandis* (type).

Venezuela, on *T. grandis* (Urtiaga 1986).

Phyllactinia guttata (Wallr.) Lév., Annls Sci. Nat., Bot., sér. 3 15: 144 (1851)
≡ *Alphitomorpha guttata* Wallr., Verh. Ges. nat. Freunde Berlin 1(1): 42 (1819)

India, on *T. grandis* (Spaulding 1961).

Phyllosticta capitalensis Henn., Hedwigia 48: 13 (1908)

Brazil, on leaves of *Stanhopea* sp. (type).

India and Thailand, on leaves of *T. grandis* (Murali et al. 2007, Wikee et al. 2013a, b).

Phyllosticta **sp.**

Cuba, Venezuela, on *T. grandis* (Urtiaga 1986, 2004).

Podosordaria nigripes (Klotzsch) P.M.D. Martin, Jl S. Afr. Bot. 42(1): 80 (1976)
≡ *Sphaeria nigripes* Klotzsch, Linnaea 7: 203 (1832)

India, on ground (type).

India, on *T. grandis*, as *Xylaria nigripes* (Pande 2008).

Prosthecium tectonae (Tilak & R. Rao) A. Pande, Ascomycetes of Peninsular India (Jodhpur): 290 (2008)
≡ *Calospora tectonae* Tilak & R. Rao, (1966)

India, on dead branches of *T. grandis*, as *Calospora tectonae* (type).

Pseudallescheria ellipsoidea (Arx & Fassat.) McGinnis, A.A. Padhye & Ajello [as 'ellipsoideum'], Mycotaxon 14(1): 98 (1982)
≡ *Petriellidium ellipsoideum* Arx & Fassat., in Arx, Persoonia 7(3): 370 (1973)

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000).

Pseudocercospora pallida (Ellis & Everh.) H.D. Shin & U. Braun, Mycotaxon 74(1): 114 (2000)
≡ *Cercospora pallida* Ellis & Everh., J. Mycol. 3(2): 21 (1887)
USA, on living leaves of *Tecoma radicans* (type).
India, on *T. grandis* (Kamal 2010).

***Pseudocercospora* sp.**
Venezuela, on *T. grandis* (Urtiaga 2004).

Pseudocercospora tectonicola J.M. Yen, A.K. Kar & B.K. Das, Mycotaxon 16(1): 68 (1982)
India, on leaves of *T. grandis* (type).
India and Laos, on leaves of *T. grandis* (Yen 1982, Kamal 2010, Phengsintham et al. 2010).

Pseudocoleodictyospora sukhothaiensis Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on bark of living *T. grandis* (type).

Pseudocoleodictyospora tectonae Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on dead bark of *T. grandis* (type).

Pseudocoleodictyospora thailandica Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on bark of living *T. grandis* (type).

Pseudofusicoccum adansoniae Pavlic et al., Mycologia 100(6): 855 (2008)
Western Australia, on dying branch of *Adansonia gibbosa* (type).
Thailand, associated with leaf spots of *T. grandis* (Doilom et al. 2015).

Pseudomonodictys tectonae Doilom & K.D. Hyde, Fungal Diversity, Ariyawansa in et al., Fungal Diversity 75: 27-274.
Thailand, dead wood of *T. grandis* (type, Doilom et al. 2016).

Ramichloridium apiculatum (J.H. Mill., Giddens & A.A. Foster) de Hoog, Stud. Mycol. 15: 69 (1977)
≡ *Chloridium apiculatum* J.H. Mill., Giddens & A.A. Foster, Mycologia 49(6): 789 (1958) [1957]
USA, from forest soil (type).
India, on *T. grandis* (de Hoog 1977).

***Rhizoctonia* sp.**
Tanzania, on *T. grandis* (Ebbels & Allen 1979).

Rhytidhysteron tectonae Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)
Thailand, on dead branches of *T. grandis* (type).

Rigidoporus lineatus (Pers.) Ryvarden, Norw. Jl Bot. 19: 236 (1972)
≡ *Polyporus zonalis* Berk., Ann. Mag. nat. Hist., Ser. 1 10: 375 (1843) [1842]
Sri Lanka (type).
India, Puerto Rico and Virgin Islands, on *T. grandis*, as *Polyporus zonalis* (Anonymous 1964, Stevenson 1975).

Rigidoporus microporus (Sw.) Overeem, Icon. Fung. Malay. 5: 1 (1924)
≡ *Boletus microporus* Sw., Fl. Ind. Occid. 3: 1925 (1806)
Jamaica (type).
Nigeria, on *T. grandis*, as *Fomes lignosus* (West 1938).

Rosellinia dimidiata Starbäck, Bih. K. svenska VetenskAkad. Handl., Afd. 3 25(no. 1): 49 (1899)
India, on roots of *T. grandis* (Pande 2008).

Sarcinella tectonae Hosag., Zoos' Print Journal 19(3): 1386–1389 (2004)
India, on *T. grandis* (type).

Schiffnerula tectonae (Thite & C.R. Patil) Hosag., Zoos' Print Journal 18(4): 1077 (2003)
≡ *Clypeolella tectonae*Thite & C.R. Patil, Geophytology 15(1): 85 (1985)
India, on leaves of *T. grandis* (type, Hosagoudar 2011).

Schizophyllum commune Fr. [as '*Schizophyllus communis*'], Observ. mycol. (Havniae) 1: 103 (1815)
Thailand, on leaves of *T. grandis* (Chareprasert et al. 2006).

Sphaceloma tectonae Wani & Thirum., Sydowia 23(1-6): 263 (1970) [1969]
India, on leaves and shoots of *T. grandis* (type).

Sphaeropsis eucalypticola A.J.L. Phillips, Persoonia, Mol. Phy,. Evol. Fungi 76:158 (2013)
= *Phaeobotryosphaeria eucalypti* Doilom et al., Fungal Diversity 57(1): 190 (2012)
Thailand, on dead twig of *Eucalyptus* (type).
Thailand, on dead branch of *T. grandis* (Doilom et al. 2016).

Sporormiella **sp.**
India, on leaves of *T. grandis* (Murali et al. 2007).

Sporotrichum **sp.**
Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Stachybotrys echinata (Rivolta) G. Sm., Trans. Br. mycol. Soc. 45(3): 392 (1962)
≡ *Penicillium echinatum* Rivolta, in Torino & Speirani, Dei parassiti vegetali .?: 451 (1873)
Taiwan, on leaves of *T. grandis*, as *Memnoniella echinata* (Matsushima 1980).

Stachybotrys levispora (Subram.) Yong Wang bis, K.D. Hyde, McKenzie, Y.L. Jiang & D.W. Li, in Wang, Hyde, McKenzie, Jiang, Li & Zhao, Fungal Diversity 71: 57 (2015)
≡ *Memnoniella levispora* Subram., J. Indian bot. Soc. 33: 40 (1954)
India, on a dead stem (type).
Thailand, on dead branch and dead twigs of *T. grandis* (Doilom et al. 2016).

Stachybotrys renispora P.C. Misra, Mycotaxon 4(1): 161 (1976)
India, on seeds of *Phlox drummondii* (type).
Thailand, dead twig of *T. grandis* (Doilom et al. 2016).

Stemphylium sphaericum Sacc., Atti Accad. Sci. Ven.-Trent.-Istr. 10: 86 (1917)
= *Hermatomyces sphaericus* (Sacc.) S. Hughes, Mycol. Pap. 50: 100 (1953)
Philippines, on branches *Barleria cristata* (type).
China, on *T. grandis*, as *Hermatomyces sphaericus* (Tianyu 2009).

Subglobosporium tectonae Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)

Thailand, on bark of dead and living teak of *T. grandis* (type).

Taeniolella muricata (Ellis & Everh.) S. Hughes, Can. J. Bot. 36: 817 (1958)
≡ *Dendryphion muricatum* Ellis & Everh. [as *'Dendryphium'*], Proc. Acad. nat. Sci. Philad. 43: 92 (1891)

USA, on wood of *Prunus virginiana* (type).

India, on *T. grandis* (Agarwal et al. 1993).

Talaromyces funiculosus (Thom) Samson, N. Yilmaz, Frisvad & Seifert, in Samson, Yilmaz, Houbraken, Spierenburg, Seifert, Peterson, Varga & Frisvad, Stud. Mycol. 70: 176 (2011)
≡ *Penicillium funiculosum* Thom, Bull. U.S. Department of Agriculture, Bureau Animal Industry 118: 69 (1910)

Tanzania, on *T. grandis*, as *Penicillium funiculosum* (Ebbels & Allen 1979).

Thanatephorus cucumeris (A.B. Frank) Donk, Reinwardtia 3: 376 (1956)
≡ *Hypochnus cucumeris* A.B. Frank, Ber. dt. bot. Ges. 1: 62 (1883)

Papua New Guinea, on seedling and causing leaf blight of *T. grandis* (Shaw 1984).

Thaxteriellopsis lignicola Sivan., Panwar & S.J. Kaur, Kavaka 4: 39 (1977) [1976]
≡ *Chaetosphaerulina lignicola* (K.S. Panwar & S.J. Kaur), J.L. Crane, Shearer & M.E. Barr, Can. J. Bot. 76(4): 608 (1998)

India, on dead wood of *Lingo emortuo* (type).

Thailand, on decaying inner-surface of bark of *T. grandis* (Doilom et al. 2016).

Thielaviopsis basicola (Berk. & Broome) Ferraris, Fl. ital. crypt., Fungi 1(8): 233 (1912)
≡ *Torula basicola* Berk. & Broome, Ann. Mag. nat. Hist., Ser. 2 5: 461 (1850)

Brazil, on *T. grandis* (Borges et al. 2014).

Trametes elegans (Spreng.) Fr., Epicr. syst. mycol. (Upsaliae): 492 (1838) [1836-1838]
≡ *Daedalea elegans* Spreng., K. svenska Vetensk-Akad. Handl. 41: 51 (1820)

Puerto Rico and Virgin Islands, on dead wood of *T. grandis*, as *Daedalea elegans* (Stevenson 1975).

Trichocladium indicum V.G. Rao, K.A. Reddy, D.R. Kumar & B.S. Reddy, Indian J. Bot. 8(2): 154 (1985)

India, on bark of *T. grandis* (type).

Trichoderma harzianum Rifai, Mycol. Pap. 116: 38 (1969)

England, from soil (type).

Tanzania, on *T. grandis* (Ebbels & Allen 1979).

***Trichoderma* sp.**

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Tubeufia tectonae Doilom & K.D. Hyde, in Doilom et al., Fungal Diversity: 10.1007/s13225-016-0368-7 (2016)

Thailand, on decaying inner-surface of bark of *T. grandis* (type).

***Verticillium* sp.**

Hong Kong, on wood baits of *T. grandis* (Lu et al. 2000, Zhuang 2001).

Wiesneriomyces laurinus (Tassi) P.M. Kirk, Trans. Br. mycol. Soc. 82(4): 748 (1984)
≡ *Volutellaria laurina* Tassi, Atti R. Accad. Fisiocrit. Siena, Sér. 4 8: 5 (1897)
Taiwan, on leaves of *T. grandis*, as *Wiesneriomyces javanicus* (Matsushima 1980).

Xylaria humosa Lloyd, Mycol. Writ. 7(Letter 68): 1179 (1923)
India, on fallen tree trunks of *T. grandis* (Pande 2008).

Xylaria longipes Nitschke, Pyrenomyc. Germ. 1: 14 (1867)
United Kingdom, on rotten log of *Acer pseudoplatanus* (type).
India, on wood of *T. grandis* (Pande 2008).

Xylaria pallida Berk. & Cooke, J. Linn. Soc., Bot. 15: 395 (1876) [1877]
Peru, (type).
India, on dead wood of *T. grandis* (Pande 2008).

Xylaria tectonae A. Pande & Waing., J. Econ. Taxon. Bot. 28(3): 612 (2004)
India, on logs of *T. grandis* (type).

***Xylaria* sp.**
Thailand, on leaves of *T. grandis* (Chareprasert et al. 2006).

Xylaria thwaitesii Berk. & Cooke, Grevillea 12(no. 61): 1 (1883)
Sri Lanka, on wood (type).
East Indies and Indonesia, on *T. grandis* (Spaulding 1961, Anonymous 1964).

Conclusions

This is an updated worldwide checklist of fungi on teak. These taxa are distributed in 32 orders, 69 families, 134 genera, 152 species with 34 unidentified species according to the information from the SMML database and relevant literature. The most commonly reported genus on teak is *Xylaria* with five known species (*X. humosa*, *X. longipes*, *X. pallida*, *X. tectonae* and *X. thwaitesii*) and one unidentified taxon. *Cercospora* is the next common genus with four known species including *C. apii*, *C. tectonae*, *C. tectoniae*, *C. tectonigena* and one unidentified species. *Olivea tectonae* is reported as the most widely distributed species in 13 countries (Australia, Brazil, China, Costa Rica, Cuba, India, Indonesia, Japan, Pakistan, Panama, Taiwan, Thailand and Viet Nam). The largest number of fungi are reported ~~(57)~~ from India (57), and then Thailand with 55 taxa. There were 39 species epithets synonymised to current names according to Index Fungorum (2016) including 29 species of Ascomycota and 10 species of Basidiomycota.

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