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Bambusicolous fungi collected in Southwestern France: an annotated list

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Summary – A list reporting fungal saprobes collected on species of bamboo growing in Southwestern France is presented. The new combination *Iodosphaeria tarda* (Fuckel) M. E. Barr is redescribed and illustrated.

Zusammenfassung – Es werden pilzliche Saproben aufgelistet, welche auf Blättern und Stengeln von in Südwestfrankreich wild wachsenden Bambus-Arten gesammelt wurden. *Iodosphaeria tarda* (Fuckel) M. E. Barr wird als neue Kombination eingeführt und illustriert.

Introduction

Since the first publication reporting bamboo-inhabiting fungi from Southwestern France (Petrini et al., 1989) we have continued our study of the mycota growing on dead culms and leaf sheaths of bamboos and have extended it to myxomycetous genera.

Here we present an updated list to report species collected after 1989 as well as new records of taxa already listed by Petrini et al. (1989). The saprobic ascomycetes, deuteromycetes and myxomycetes reported for the first time in this list have been collected, with few exceptions, almost exclusively on *Phyllostachys* spp.

Unless otherwise stated, all collections are kept in the private collection of the senior author. The collector names are abbreviated as follows: FC, F. Candoussau; JPC, J.-P. Chaumeton; JFM: J.-F. Magni. Fungal names cited in the list with no annotations have been already described and reported by Petrini et al. (1989).

ASCOMYCOTINA

1. PEZIZALES

Scutellinia hirtella (Rehm) Kuntze

2. OSTROPALES

Stictis stellata Wallr.

Stictis radiata Pers. subsp. *radiata*

Description and illustrations: Sherwood (1977).

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp. FC, JPC, JFM 12.06.1994 (FC4683).

3. LEOTIALES

Arachnopeziza aurelia (Pers.) Fuck.

Bisporella scolochloae (De Not.) B. Spooner

Crocicreas bambusicola Carpenter

Dasyscyphus barbatus (Kunze) Masee

Encoelia mollisioides B. Spooner

Lasiostictella bambusae M. Sherwood-Pike

New site. – 40 Biaudos, Parc du château, on *Pseudosasa japonica*, FC 20.02.1994 (FC4667-A) and FC 26.02.1995 (FC 4667-B). Second site; the previous one, Capbreton (see Petrini et al. 1989) is destroyed.

Mollisia ligni (Desm.) Karst. – complex

Mollisia ventosa (Karst.) Karst.

Pezizella pulcherrima Spooner et Dennis

Stictis friabilis (Phil. et Plowright) Sacc. et Trav.

Description and illustrations: Sherwood (1977).

Collection examined. – 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC 26.02.1995 (FC 4301-A).

Strossmayeria basitricha (Sacc.) Dennis

Strossmayeria notabilis Iturriaga

Description and illustrations: Iturriaga and Korf (1990: 408–414).

Recorded as *Durella brunnea* Hino et Katumoto by Petrini et al. (1989).

Collections examined. – 64 Osserain, near Sauveterre, on *Phyllostachys* sp., FC 03.07.1988 (4494) identified by R. P. Korf. Other collections: 64 Uhart-Mixe, Parc du château, 06.09.1992 and 13.03.1994 (FC 4303).

4. SPHAERIALES

Amphisphaeria striatispora Candoussau et Katumoto

Anthostomella cf. *minutoides* K. D. Hyde

Collection examined. – 40 Biaudos, Parc du Château, on *Phyllostachys* sp., FC 10.3.85 (FC 122), repeatedly collected in this site until 1994.

According to K. D. Hyde (pers. comm.), the spores in these collections are larger than in *A. minutoides* (7x 3 µm in our collections vs. 4.8–6.4 x 2.2 µm in *A. minutoides*).

Apiospora curvispora (Speg.) Rehm

Description and illustrations: Müller and von Arx (1962: 683).

Collection examined. – 40 Tartas Midouze river side, on *Phyllostachys* sp., G. Gilles 02.10.1993 (FC 5386–1), identified by G. J. Samuels.

It can be distinguished from other species by its large, 38–42 µm long ascospores.

Apiospora montagnei Sacc.

Camarops lutea (Alb. et Schw.: Fr.) Nannfeldt

Description and illustrations: Nannfeldt (1972: 354–357).

Collection examined. – 64 Osserain, on *Phyllostachys* sp., JPC 23.08.1992 (FC 5351); 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp. FC J–JPC–JFM 12.06.1994 (FC 5351-A).

So far not recorded on Monocotyledons (J. D. Rogers, in litt.).

Camarops cf. *pugillus* (Schwein.) Shear

Description and illustrations: Lundqvist (1987: 66–69).

Collection examined. – 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC–JFM 23.01.1994 (FC 5352).

This collection differs from *C. pugillus* by the yellow coloration of the host tissues.

Chaetosphaeria vermicularioides (Sacc. et Roum.) W. Gams et V. Hol.-Jech.

Eutypella leprosa (Fr.) Berlese

- Form A

Description and illustrations: Rappaz (1987: 457–463).

Collection examined. – see Petrini et al. (1989).

- Form B

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 02.01.1994 (FC 5427-B).

In Form B, the stromata break the bamboo fibers into longitudinal rows, whereas in Form A the slits are perpendicular to the fibers. According to Rappaz (1994, in litt.), such difference between both collections is spectacular. Although in general such features are caused by difference in ecological conditions (mainly humidity) during the growth, the presence of stromata of both sizes on close areas of the same substratum suggests genetic differences between the two forms. Cultural work, however, is necessary to prove such hypothesis.

Eutypella scoparia (Schwein.: Fr.) Ellis et Everh.

- Form A

Description and illustrations: Rappaz (1987: 534–541).

Collection examined. – see Petrini et al. (1989).

- Form B

Collections examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 26.09.1992 (FC 5428-B); 40 Biaudos, Parc du château, on *Phyllostachys bambusoides*, FC–JPC–JFM 23.01.1994 (FC 5428-B1).

Form B differs from Form A by its valsooid and superficial stromata.

Eutypa leptoplaca (Mont.) F. Rappaz

Description and illustrations: Rappaz (1987: 346–348).

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 02.01.1994 (FC 5429); identified by F. Rappaz.

Gibberella zeae (Schwein.) Petch

Hypocrea rufa (Pers.: Fr.) Fr.

Hypocrea protocitrina Doi

Description and illustrations: Doi (1972: 660–661).

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp. FC 21.09.1986 (FC 4805–7); 64 Osserain, on *Phyllostachys* sp., FC 22.10.1989 (FC 4805–7 A); same site: FC–JPC and G. Gilles 21.09.1986 (FC 4805–7 B). Identified by G. J. Samuels.

This species is characterized by having small part spores and its habitat on bamboos.

Hypoxylon bipapillatum Berk. et Curt.

Hypoxylon serpens (Pers.: Fr.) Kickx

Hypoxylon serpens (Pers.: Fr.) Kickx var. *macrosporum* J. H. Miller

Iodosphaeria phyllophila (Mouton) G. J. Samuels et O. Petrini

Description and illustrations: Samuels et al. (1987: 486–499).

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 06.09.1992 (FC 5099).

This species was not so far recorded from this host.

Iodosphaeria tarda (Fuckel) M. E. Barr, comb. nov. – Fig. 1, a–d.

= *Sphaeria tarda* Fuckel, Fungi Rhenani exs. n. 2021. In sched.

= *Trichosphaeria tarda* (Fuckel) Fuckel, Jahrb. Nassauischen Ver. Naturk. 23–24: 145. 1870.

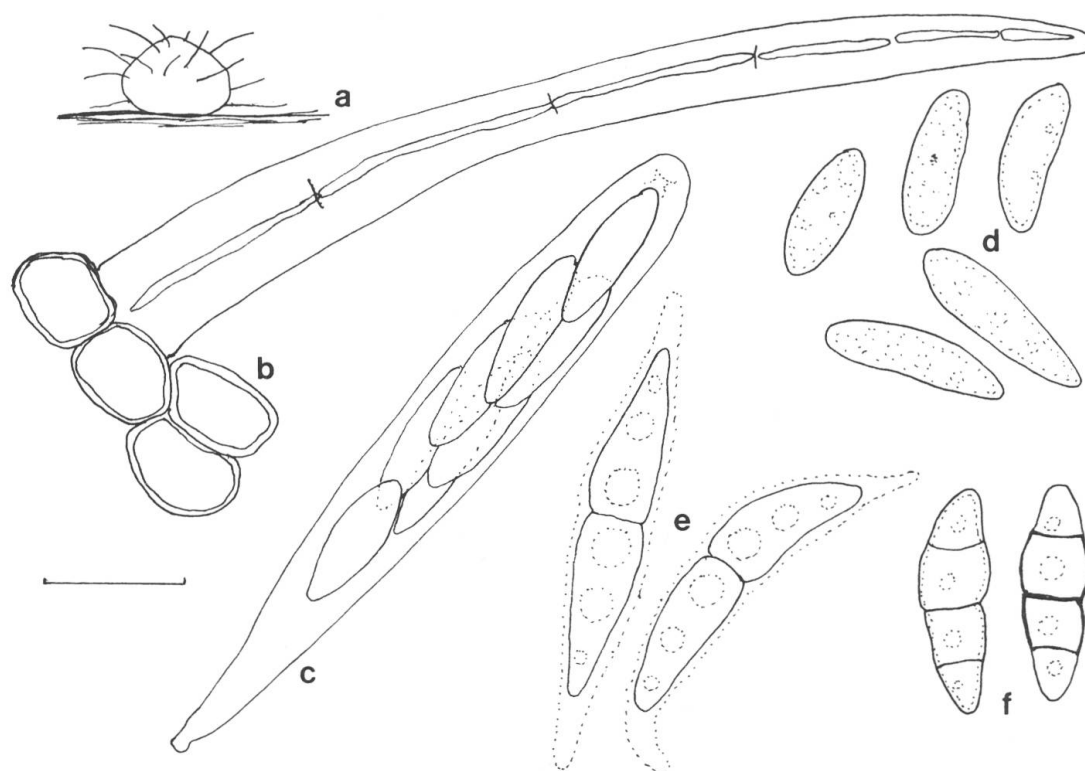


Fig. 1. a–d: *Iodosphaeria tarda*. a: ascoma on host. b: seta and peridium cells. c: ascus. d: ascospores, two lower ones from Fuckel 2021. e: ascospores of *Lophiosphaera ulicis*. f: ascospores of *Thyridaria rigniacensis*. Bar = 400 µm for a, 15 µm for b–f.

Ascomata perithecioid, superficial, 300–400 μm wide, bearing numerous septate, thick-walled, blunt-ended setae, (50–)75–330(–440) \times 12–20 μm ; ostioles minute, periphysate; peridium of large, brown, pseudoparenchymatous cells, usually two rows, 15–25 μm wide. Asci 70–85(–110) \times 6–12 μm , basal, in fascicles, oblong, slightly inflated in mid region, short stipitate; apical ring minute, refractive, nonamyloid. Paraphyses few, delicate, 2–3 μm wide. Ascospores (12–) 14–20 \times (3–)4–6 μm , hyaline, one celled, oblong to nearly allantoid, ends obtuse, often tapered more toward base; wall smooth; uniseriate or partially biseriate in the ascus.

Collections examined. – 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC and JPC 27.11.1994 (FC 319). – GERMANY: Johannisberg, on *Corylus* sp., Fungi rhenani 2021 (FH, isotype, Herbarium Barbey-Boissier 672).

Although closely related to *I. phyllophila* (Mouton) G. Samuels, E. Müller et O. Petrini (1987), this species differs in the nonamyloid reaction of the apical ring in the ascus, and in smaller sizes of asci and ascospores. No anamorphs were found associated with the collections.

Lasiosphaeria ovina (Fries) Cesati et de Not.

Description and illustrations: Dennis (1978: 308).

Collection examined. – 64 Sauveterre de Béarn, on rotten. – *Phyllostachys* sp., FC 08.04.1990 (FC 5102).

Nectria magnusiana Rehm in Sacc.

Description and illustrations: Samuels et al. (1991: 27, fig 29–31).

Collection examined. – 64 Uhart-Mixe, Parc du château, hyperparasitic on *Eutypella* sp. on *Phyllostachys* sp., FC–JPC 26.09.1992 (FC 4856–3).

Nectria consors (Ellis et Everh.) Seaver

Description and illustrations: Samuels (1977).

Collection examined. – 64 Osserain, on *Phyllostachys* sp., JPC 23.08.1992 (FC 4863–2).

An anamorphic *Volutella* sp. was found associated with the collection.

Nectriopsis squamulosa (Ellis) Samuels

Description and illustrations: Samuels (1988: 45–47).

Collections examined. – 40 Biaudos, Parc du château, on sheaths of *Phyllostachys bambusoides*, FC–JFM 23.01.1994 (FC 4862-A). Several additional collections in all sites as cited in Petrini et al. (1989).

The Biaudos material is the only collection with a white subiculum; all others have perithecia associated with a golden yellow mycelium.

Peroneutypa heteracantha (Sacc.) Berl.

Rosellinia franciscae L. E. Petrini

= *Rosellinia* sp. in Petrini et al. (1989: 267).

Description and illustrations: Petrini (1992: 242–243).

Collection examined. – 64 Sauveterre de Béarn, on *Phyllostachys* sp., JFM 05.1993 (FC 5384–3).

So far recorded from only one site.

Rosellinia sublimbata (Durrieu et Mont.) Pass. apud Thüm.

Synonymy – see Petrini (1992) and Ju and Rogers (1994).

Description and illustrations: Ju and Rogers (1994: 249–250).

Collection examined. – 64 Sauveterre de Béarn, on *Phyllostachys bambusoides*, FC 23.03.1983 (FC 5379). Very frequent in all collecting sites visited.

Roussoëlla hysterioides (Cesati) von Höhnel, non *Didymosphaeria striatula* (Penzig) Saccardo

Description and illustrations: Müller and von Arx 1962: 698).

Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp. FC 06.09.1992 and 27.02.1994 (FC 5395).

Very abundant at only one collecting site, especially on dead erected *Phyllostachys*.

Roussoëlla minutella (Penzig et Sacc.) Aptroot

= *Roussoëlla verruculosa* F. Candoussau et K. Katumoto in Petrini et al. (1989).

Roussoëlla serrulata (Ellis et G. Martin) K. D. Hyde et A. Aptroot

Description and illustrations: Aptroot (1995: 369–373).

Collection examined. – Capbreton, on *Sasa japonica*, FC 06.1994.

Trichosphaeria pilosa (Pers.) Fuck.

Xylaria polymorpha (Pers.: Mer.) Gréville

Description and illustrations: Dennis (1978: 319) and Rogers and Callan (1986: 391–395).

Collections examined. – 64 Orthez Gave d'Oloron, on *Phyllostachys* sp. J. Vivant 27.08.1992 (FC 5367); 40 Biaudos, Parc du château, on *Phyllostachys bambusoides*, FC 05.06.1994 (FC 5367 A); 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC–JPC–JFM 12.06.1994 (immature).

Zignoëlla pulviscula (Curr.) Sacc. sensu Munk (1957).

5. CORONOPHORALES

Bertia moriformis (Tode) de Not.

Description and illustrations: Dennis (1978: 378).

Collections examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 26.06.1994 (FC 5667) and FC–JPC–JFM 12.06.1994 (FC 5667-A).

6. DOTHIDEALES

Astrosphaeriella trochus (Penz. et Sacc.) D. Hawksworth

Aulographum emilii O. Petrini, F. Candoussau et L. E. Petrini

Byssosphaeria schiedermayeriana (Fuckel) M. Barr

Didymosphaeria thalictri Ellis et Dearn.

Description and illustrations: Scheinpflug (1958: 356–357).

Collections examined. – 64 Uhart-Mixe, Parc du château, hyperparasitic on *Mollisia* sp. on *Phyllostachys* sp., FC 26.09.1992 (FC 5609), identified by L. Müller.

Glioniopsis praelonga (Schw.) Zogg

Glonium abbreviatum (Schw.) Lohman

Herpotrichia herpotrichoides (Fuckel) Cannon

Hysterium angustatum Alb. et Schw.

Lophiosphaera ulicis (Pat.) E. Müller. – Fig. 1e.

Description and illustrations: Berlese (1894) as *Ceriosporella patouillardii* (Letendre) Berl.

Collection examined. – 40 Lake of Leon (Camping), on *Pseudosasa japonica*, FC 06.02.1994 (FC 281).

This melanommataceous species is one of several related taxa whose generic disposition is still in question. The relatively large ascomata, clavate asci in trabeculae, and hyaline, uniseptate ascospores that bear elongate terminal appendages are in accord with those of *L. ulicis*.

Lophiostoma macrostomum (Tode: Fr.) Ces. et De Not.

Lophiostoma semiliberum (Desm.) Ces. et De Not.

Lophiostoma viridarium Cooke

Description and illustrations: Holm and Holm (1988).

Collection examined. – 40 Lake of Leon on *Pseudosasa japonica*, FC 06.02.1994 (FC 6073).

So far not recorded on bamboo. Associated with *Munkovalsaria donacina*.

Munkovalsaria donacina (Niessl) Aptroot

Description and illustrations: Aptroot (1995: 346–349).

Collection examined. – 40 Lake of Leon (Camping), on *Pseudosasa japonica*, FC 08.05.1993, 06.02.1994 (FC 5396–2) and 10.02.1994 (FC 5396–1), identified by A. Aptroot.

Rhizodiscina ligniota (Fr.) Hafellner

Schizothyrium pomi (Mont.: Fr.) von Arx

Sporormiella pilosa (Cain) Ahmed et Cain

Thyridaria rigniacencis Sacc. et Flageolet. Fig. 1f.

Description and illustrations: Wehmeyer (1941).

Collection examined. – 40 Lake of Leon (Camping) on *Pseudosasa japonica*, FC 08.05.1994 (FC 291).

Although this collection has slightly larger ascospores ($14\text{--}17 \times 5 \mu\text{m}$ vs $10\text{--}14 \times 3.5 \mu\text{m}$) than Wehmeyer (1941) described for the species on *Ulex europaea*, it agrees well in shapes of asci and ascospores with the species.

7. SORDARIALES

Chaetomium olivaceum Cooke et Ellis

DEUTEROMYCOTINA

1. HYPHOMYCETES

Acremonium hyalinulum (Sacc.) Gams

Annellodochium ramulisporum Deighton

Annellodochium cf. *ramulisporum* Deighton

Arthrinium anam. *Apiospora montagnei*

Arthrinium phaeospermum (Corda) M. B. Ellis

Chalara inflipes (Preuss) Sacc.

Corynespora foveolata (Pat.) Hughes

Fusarium aquaeductum (Redlk. et Rabenh.) Lagerberg

Fusarium graminearum Schwabe

Graphium fasciculatum Sacc.

Gonytrichum anam. *Trichosphaerella inaequalis* (Grove ex Berl. et Vogl.) E. Müller

Hadrotrichum bambusicola O. Petrini, L.E. Petrini et F. Candoussau
Periconia igniaria Mason et M. B. Ellis
Pteroconium anam. Apiospora camptospora Penz. et Sacc.
Torula herbarum (Pers.) Link ex S. F. Gray
Verticillium lecanii (Zimm.) Viegas

2. COELOMYCETES

Amerosporium polynematoides Speg.
Dinemasporium strigosum (Pers.: Fr.) Sacc.
Epicoccum nigrum Link
= *E. purpurascens* Ehrenb. ex Schlecht. in Petrini et al. (1989).

MYXOMYCOTINA

1. TRICHIALES

Arcyria denudata (L.) Wettst.
Description and illustrations: Martin and Alexopoulos (1969: 126–127).
Collections examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 06.09.92 (JFM M125); 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC–JFM 27.11.1994 (JFM M214).
Arcyria cinerea (Bull.) Pers.
Description and illustrations: Martin and Alexopoulos (1969: 124–125).
Collections examined. – 64 Uhart-Mixe, Parc du château on *Phyllostachys* sp., FC 12.06.94 (JFM M189); 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC–JFM 27.11.1994 (JFM M215, FC 288).

2. PHYSARALES

Didymium nigripes (Link) Fr.
Description and illustrations: Martin and Alexopoulos (1969: 393).
Collections examined. – 40 Cap Breton, on *Phyllostachys* sp., FC 24.06.84 (JFM M126; FC 348). – 40 Biaudos, on *Phyllostachys* sp., FC 27.11.1994 (JFM M223).
Craterium minutum (Leers) Fr.
Description and illustrations: Martin and Alexopoulos (1969: 272).
Collection examined. – 64 Assat, on *Phyllostachys bambusoides*, FC 06.12.1992 (JFM M128; FC 235).
Diderma hemisphaericum (Bull.) Hornem.
Description and illustrations: Martin and Alexopoulos (1969: 359).
Collection examined. – 64 Uhart-Mixe, Parc du château, on *Phyllostachys* sp., FC 27.02.1994 (JFM M175; FC 288).

3. STEMONITALES

Comatricha ellae Harkonen
Description and illustrations: Nannenga-Bremekamp (1991: 349).
Collection examined. – 64 Pau, on *Pseudosasa Japonica*, FC 10.02.1994 (JFM M157; FC 284).

Comatricha tenerrima (M. A. Curt.) G. Lister

Description and illustrations: Martin and Alexopoulos (1969: 239).

Collection examined. – 64 Thèse, château de Viven, on *Phyllostachys mitis*, FC 22.11.1992 (JFM M127; 173).

Stemonitis fusca Roth.

Description and illustrations: Martin and Alexopoulos (1969: 193).

Collection examined. – 40 Biaudos, Parc du château, on *Phyllostachys* sp., FC–JFM 27.11.1994 (JFM M216).

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