

Bambusicolous fungi collected in southwestern France : 1982-1989

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BAMBUSICOLOUS FUNGI COLLECTED IN SOUTHWESTERN FRANCE 1982 - 1989

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Abstract: More than 60 taxa in the Ascomycotina and Deuteromycotina collected between 1982 and 1989 on bamboo culms and leaves in the Southwest of France are listed. Two new species, *Aulographum emilii* and *Hadrotrichum bambusicola* are described. Some interesting records are briefly discussed and illustrated.

Zusammenfassung: Mehr als 60 Taxa der Ascomyceten und Deuteromyceten, zwischen 1982 und 1989 auf Stengeln und Blättern von Bambus in Südwestfrankreich gesammelt, werden aufgelistet. Zwei neue Arten, *Aulographum emilii* und *Hadrotrichum bambusicola* werden beschrieben. Einige interessante Funde werden kurz besprochen.

In the last few years one of us (F.C.) has been extensively collecting ascomycetes, basidiomycetes and deuteromycetes growing on several species of bamboos. CANDOUSSAU et al. (1985), BOIDIN et al. (1986), and SPOONER & CANDOUSSAU (1988) have described new or interesting species of fungi growing on this substrate. We now present a comprehensive list of all ascomycetes and deuteromycetes collected so far on bamboo culms in the Southwest of France.

All collections are from dead culms of bamboos growing in well-sheltered, humid sites protected from wind exposure. More than 40 taxa in the Ascomycotina and about 20 Deuteromycotina have been collected. While some of them are cosmopolitan species able to grow on many Poaceae, a number of taxa (e.g. *Eutypella leprosa*, *Hypoxyton bipapillatum*, *Herpotrichia herpotrichioides*, *Lophiostoma macrostomum*) are unusual records for these hosts. The common occurrence of some fungal species so far reported only from tropical regions of the world can be explained at least partly by their host-specificity, as it can be assumed that they were introduced in France

with their hosts, and by the apparently very favourable climatic conditions typical of the Southwest of France (CANDOUSSAU et al., 1985).

Collecting sites

Saprobic ascomycetes and deuteromycetes growing on dead culms and sheaths of *Arundinaria japonica* SIEB. et ZUCC. ex STEUDEL, *Phyllostachys bambusoides* SIEB. et ZUCC., *P. mitis* RIVIERE, *P. nigra* (LODD) MUNRO, and *P. viridiglaucescens* (CARRIERE) A. et C. RIVIERE have been collected in following Départements (Official French designation no. of the département in brackets) and sites:

Gard (30):

Anduze (Alès, Bambouseraie de Prafrance)

Gers (32):

Mirande, Loubersan (Mirande)

Gironde (33):

Bernos - Beaulac (N 134, Pau - Bordeaux).

Landes (40):

Peyrehorade, Capbreton, Momuy (Orthez) Habas, Tartas, Seignosse.

Pyrénées Atlantiques (64):

Pau, Gan, Assat, Lavie (Salies de Béarn), Sauveterre de Béarn, Osserain, Uhart-Mixe, Viven, Mont (Orthez), Biarrotte, Biarritz.

as well as in the Pyrénées National Park of Torla (Spain).

Unless otherwise stated, the fungi were found on the dead culms of their hosts. The collections are kept in the private Herbarium of F.C. or in ZT.

ASCOMYCOTINA

1. PEZIZALES

Scutellinia hirtella (REHM) KUNTZE

Description: LE GAL (1966)

Collection examined: 64 Pau, on *Phyllostachys bambusoides*, FC 24.11.1984 (FC 3839).

2. OSTROPALES

Stictis stellata WALLR.

Description and illustrations: SHERWOOD (1977)

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 3.5.1983; 40 Capbreton, Bord du Boudigau, on *Phyllostachys* sp., FC 9.6.1984

(FC 4686); 64 Assat, Maison Diriat, on *P. bambusoides*, FC 29.11.1984 (FC 4686A); 64 Osserain, on *P. bambusoides*, FC 15.01.1989 (FC 4686B).

FC 4686A has a peculiar pinkish colour and its periphysoids are unbranched; the hymenium has little or no iodine reaction. Similar collections have also been recorded from the Southern USA by M. SHERWOOD (in litt. to FC, 29.11.1984).

3. SPHAERIALES

Amphisphaeria striatispora F. CANDOUSSAU et H. KATUMOTO

Description and illustrations: CANDOUSSAU et al. (1985)

Collections examined: 40 Capbreton, Tombstone, on dead sheaths of *Arundinaria japonica*, FC 11.6.1984 (FC 5604); same site and host, FC 16.12.1984 (5604A) and FC 9.6.1986 (5604B).

Anthostomella nitidissima (DURIEU et MONT.) SACC.

Description: SACCARDO (1882)

Collection examined: 40 Capbreton, Tombstone, on *Arundinaria japonica*, FC 16.12.1984 (FC 5205-4).

This species is near *A. punctulata* (FRANCIS, 1975) but the ascospores are slightly larger and more compressed. It also occurs on culms whereas *A. punctulata* is found on leaves (S.M. FRANCIS, pers. comm.).

Apiospora montagnei SACC.

Description and illustrations: MÜLLER & VON ARX (1962); ELLIS (1971).

Collections examined: This fungus is present everywhere on bamboos throughout the collecting sites. Its anamorph, belonging to the genus *Arthrinium* Kunze: Fr. is almost always associated with it (e.g. FC 5386A, FC 5386B, FC 5386C).

Chaetosphaeria vermicularioides (SACC. et ROUM.) W. GAMS et V. HOL-
JECH.

Description and illustrations: GAMS & HOLUBOVA -JECHOVA. (1976)

Collections examined: 64 Viven, Château de Viven, on *Phyllostachys mitis*, FC 25.11.1984 (FC 6232); 40 Capbreton, Bord du Boudigau, on *P. mitis*, FC 30.11.1986 (FC 6232A).

Eutypella leprosa (FR.) BERLESE**Description and illustrations:** RAPPAZ (1987)**Collections examined:** 40 Peyrehorade, Landes, 40 km from Pau, on *Phyllostachys cf. bambusoides*, FC 29.11.87 (FC 5427); Sauveterre de Béarn, on *Bambusa* sp., FC 13.5.1988 (FC 180).*Eutypella scoparia* (SCHWEIN.: FR.) ELLIS et EVERH.**Description and illustrations:** RAPPAZ (1987).**Collection examined:** 64 Osserain, on *Phyllostachys bambusoides*, FC 15.1.1989 (FC 200).*Gibberella zeae* (SCHWEIN.) PETCH**Description and illustrations:** BOOTH (1971)**Anamorph:** *Fusarium graminearum* SCHWÄBE**Collections examined:** 40 Tartas, Bord de la Midouze, on *Arundinaria japonica*, FC 2.12.1984 (FC 4878A); 40 Capbreton, Monument, on *Arundinaria japonica*, FC 16.12.1984 (FC 4878).*Hypocrea rufa* (PERS.: FR.) FR.**Description and illustrations:** DENNIS (1978)**Collections examined:** 64 Pau, Hyppodrome, on *Arundinaria japonica*, FC 4.2.1984 (FC 4805A); 64 Biarrotte, on *Phyllostachys bambusoides*, FC 10.3.1985 (FC 4805B); 64 Assat, Maison Dirart, on *P. bambusoides*, FC 15.6.1986 (FC 4805); 64 Uhart-Mixe, on *P. bambusoides*, FC 28.9.1986 (FC 4805C).*Hypoxyton bipapillatum* BERK. et CURT.**Description and illustrations:** PETRINI & MÜLLER (1986, sub *H. serpens* var II); PETRINI & ROGERS (1986)**Collection examined:** 64 Assat, Maison Dirart, on *Phyllostachys bambusoides*, FC 15.6.1986 (FC 5237).*Hypoxyton serpens* (PERS.: FR.) KICKX**Description and illustrations:** PETRINI & MÜLLER (1986); PETRINI & ROGERS (1986).**Collection examined:** 30 Anduze, Bambouseraie de Prafrance, Generargues, on *Phyllostachys viridis glaucescens*, FC 21.11.87 (FC174).*Hypoxyton serpens* (PERS.: FR.) KICKX var. *macrosporum* J.H. MILLER**Description and illustrations:** PETRINI & ROGERS (1986).**Collection examined:** 64 Uhart-Mixe, on *Phyllostachys bambusoides*, FC 28.9.1986 (FC 5286).

A taxon widely distributed in the USA, *H. serpens* var. *macrosporum* has so far only once been collected in Europe on broad-leaved trees (POUZAR, 1985; PETRINI & ROGERS, 1986).

Nectriopsis squamulosa (ELLIS) SAMUELS

Description and illustrations: SAMUELS (1988)

Collections examined: 64 Tartas, Landes, on *Phyllostachys*, G. Gilles 23.11. 1984 (FC 4862); 64 Pau, Hippodrome, on *P. mitis*, FC 6.3.1985 (FC 4862A); 64 Pau, La Ventourlière on *P. mitis*, FC 10.3.1983 (FC 4862B); 64 Assat, maison Diriat, on *P. mitis*, FC 11.3.1984 (FC 4862C); 64 Biarrotte, on *P. bambusoides*, FC 10.3.1985 (FC 4862D); 40 Capbreton, Bord du Boudigau, on *P. mitis*, FC 9.6.1986 (FC 4862E).

Peroneutypa heteracantha (SACC.) BERL.

Description and illustrations: DENNIS (1978)

Collections examined: 64 Pau, Hippodrome, on *Phyllostachys bambusoides*, FC 6.3.1983 (FC 5460A); 64 Mont, on *Arundinaria japonica*, FC 5.2.1984 (FC 5460B); 64 Assat, Maison Diriat, on *Phyllostachys mitis*, FC 12.2.1984 (FC 5460).

This species, almost always associated with *Graphium fasciculatum* SACC., is very frequent in all collecting sites visited.

Rosellinia muroiana HINO et KATUMOTO

Description and illustrations: HINO & KATUMOTO (1958).

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 20.3.1983 (FC 5379); 64 Mont, on *Arundinaria japonica*, FC 5.2.1984 (FC 5379A); 64 Osserain, on *Phyllostachys bambusoides*, FC 25.3.1984 (FC 5379B); 64 Assat, Maison Diriat, on *P. bambusoides*, FC 5.6.1986 (FC 5379C); 64 Osserain, on *P. bambusoides*, FC 15.1.1989 (FC 5379D).

R. muroiana is probably a synonym of *Astrocystis sublimbata* (DUR. et MONT.) S. HUGHES [= *R. sublimbata* (DUR. et MONT.) PASS.] and it shows striking similarities to *R. amblystoma* BERL. et SACC. Unfortunately, it was not possible to study the type material of *R. muroiana*: it is very likely, however, that the three taxa are conspecific, in which case *R. amblystoma* and *R. muroiana* would have to be removed from the genus *Rosellinia* and relegated into *Astrocystis*.

Rosellinia sp.

Fig. 1c

Stromata nearly globose, 0.7-1.1 mm diam., brown, dark brown to black in age, gregarious and sometimes confluent. Subiculum in young stage covering the stromata, light brown, felted, gradually disappearing and eventually absent in old material.- Perithecia 550-720 µm diam.- Asci: spore bearing part 180-205 µm, stipe 10-40 µm, total 215 - 230 x 10 µm.- Ascal tip

7-11 x 4-5 μm wide, staining blue in Melzer's reagent.- Ascospores 25-39 x 6-8 μm , narrowly ellipsoidal with one pinched end, light brown, with short, sigmoid germslit. Appendages or slimy sheaths not observed.

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys bambusoides*, FC 20.2.1983 (FC 52, ZT 3.118); same site, on *Phyllostachys* sp., FC 22.3.1987 (FC 52A, ZT 3.152).

This collection cannot be assigned to any known species of *Rosellinia* on bamboos. It may be a new taxon but we prefer to restrain from describing it as new until the study of additional material will be possible.

Roussoëlla verruculosa F. CANDOUSSAU et K. KATUMOTO

Description and illustrations: CANDOUSSAU et al. (1985)

Collections examined: 33 Bernos Beaulac, Hôtel Theas, on *Phyllostachys mitis*, FC 20.3.1984 (FC 5396); 64 Sauveterre de Béarn, on *P. bambusoides*, J. Vivant & FC 31.12.1982 and a second collection in June 1986, same site (FC 5396A); 64 Osserain, on *P. bambusoides*, FC 15.1.1989 (FC 5396B).

Trichosphaeria pilosa (PERS.) FUCK.

Description and illustration: VON ARX & MÜLLER (1954)

Collection examined: 40 Capbreton, Monument, on *Arundinaria japonica*, FC 24.6.1984 (FC 5654).

Zignoëlla pulviscula (CURR.) SACC. sensu MUNK 1957

Description and illustrations: MUNK (1957); BOOTH (1957, sub *Chaetosphaeria*)

Collections examined: 64 Lavie, on *Phyllostachys nigra*, FC 25.3.1984 (FC 5662); 64 Assat, Maison Dirart, on *P. mitis*, FC 15.6.1986 (FC 5662A); 64 Uhart Mixe, on *P. bambusoides*, FC 7.12.1986 (FC 5662B).

4. LEOTIALES

Arachnopeziza aurelia (PERS.) FUCK.

Description and illustrations: KORF (1981)

Collection examined: 64 Osserain, near Sauveterre, on *Phyllostachys* sp., FC 3.7.1988 (FC 4375).

Bisporrella scolochloae (DE NOT.) SPOONER

Description: KIRK & SPOONER (1984).

Collections examined: 64 Assat, Maison Dirart, on *Phyllostachys mitis*, FC 12.2.1984; same site and host, FC 11.6.1986 (FC 4296); 64 Osserain, on *P.*

bambusoides, FC 15.1.1989 (FC 4296A); 40 Tartas, on *Phyllostachys* sp., FC 23.1.1989 (FC 4296B).

B. scolochloae occurs on stromatic pyrenomycetes and on culms of various larger grasses. The bright colour and the 3-septate ascospores are good diagnostic characters.

Crocicreas bambusicola CARPENTER

Description & illustrations: CARPENTER (1981)

Collection examined: 40 Capbreton, Bord du Boudigau, on sheaths of *Phyllostachys mitis*, FC 9.6.1986 (FC 4242).

Dasyscyphus barbatus (KUNZE) MASSEE

Description and illustrations: DENNIS (1978)

Collection examined: Spain, Torla, on *Arundinaria japonica*, FC 18.6.1973 (FC 4355).

Durella brunnea HINO et KATUMOTO

Description and illustrations: HINO & KATUMOTO (1955)

Collection examined: 64 Osserain, near Sauveterre, on *Phyllostachys* sp., FC 3.7.1988 (FC 4494).

Encoelia mollisioides B. SPOONER

Description and illustrations: SPOONER & CANDOUSSAU (1988)

Collection examined: 40 Capbreton, Le Boudigau, on sheaths of *Phyllostachys mitis*, FC 9.6.1986 (FC 152).

Lasiostictella bambusae M. SHERWOOD-PIKE

Description and illustrations: CANDOUSSAU et al. (1985)

Collections examined: 40 Capbreton, Tombstone, on *Arundinaria japonica*, FC 15.5.1984 (FC 4667); same site and host, FC 15.5.1984.

Mollisia ligni (DESM.) KARST. - complex

Description and illustrations: DENNIS (1978).

Collection examined: 64 Assat, Maison Dirart, on *Phyllostachys bambusoides*, FC 15.6.1986 (FC 4482).

The problems related to the identification of *Mollisia* species have been highlighted by several authors (e.g. AEBI, 1972; NANNFELDT, 1985). We believe that *M. ligni* is a complex species which may be split in different taxa after careful study.

Mollisia ventosa (KARST.) KARST.

Description and illustrations: DENNIS (1978)

Collections examined: 40 Tartas, Bord de la Midouze, on *Phyllostachys mitis*, G. Gilles 24.2.1984; 64 Lavie, on *Arundinaria japonica*, FC 25.3.1984 (FC 4476).

Pezizella pulcherrima B. SPOONER et R.W.G. DENNIS

Description and illustrations: SPOONER & DENNIS (1985)

Collection examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 29.3.1987 (FC 4297).

P. pulcherrima has been described from decorticated wood of *Ulmus* in the Hebrides (SPOONER & DENNIS, 1985). Morphologically our collection cannot be distinguished from the type material. This is the second known record of the species.

Strossmayeria basitricha (SACC.) DENNIS

Description and illustrations: DENNIS (1978)

Anamorph: *Pseudospiropes* sp. fide ITURRIAGA & KORF (1984).

Collection examined: 40 Tartas, Bord de la Midouze, on *Phyllostachys mitis*, FC 22.1.1984 (FC 4302-1).

5. DOTHIDEALES

Astrosphaeriella trochus (PENZ. et SACC.) D. HAWKSW.

Description and illustrations: HAWKSWORTH (1981)

Collections examined: 64 Osserain, on *Phyllostachys bambusoides*, FC 25.3.1984 (FC 6170); same site and host, FC 15.1.1989 (FC 6170A).

Aulographum emilii sp. nov.

Fig. 2 a-d

Ascomata superficialia, solitaria vel gregaria, specie variabili, 500-600 µm longa, 70-80 µm lata adque 60 µm alta. Paries ascomatis ex aequilateralibus, crassitunicatis, brunneis, 5-7 µm diam. cellulis composita. Asci clavati, bitunicati, 30-35 x 8.5-10 µm. Paraphysoides filiformes, 1 µm latae, longiores ascis. Ascosporae bicellulatae, hyalinae dum juvenes, pallide brunneae aetate provecta, cellula basali minime longiori apicali, 9.5-11 x 3-4 µm.

Habitat in culmis emortuis bambusarum.

Holotypus in culmis emortuis *Phyllostachidis bambusoidis*, Gallia, in Pago dicto Assat, domo Dirart, leg. F. Candoussau 11.3.1984 (ZT, FC 149).

Ascomata superficial, single or in groups, variable in shape, 500-600 µm long, 70-80 µm wide and approx. 60 µm tall. Ascomatal wall composed of equilateral, thick-walled, brown cells, 5-7 µm diam.- Asci clavate, bitunicate, 30-35 x 8.5-10 µm.- Paraphysoids filiform, 1 µm wide, longer than asci.- Ascospores two-celled, hyaline when young, light brown when ripe, the

basal cell slightly longer than the apical and often biguttulate, 9.5-11 x 3-4 μm .

Habitat: on dead bamboo culms.

Holotype: 64 Assat, Maison Dirart, on *Phyllostachys bambusoides*, FC 11.3.1984 (FC 149, deposited in ZT)

Etymology of the species name: dedicated to our friend and teacher Emil Müller.

Other collections examined: 64 Gan, Montjoly, on *P. bambusoides*, FC 16.2.1986 (FC 150); 40 Capbreton, Le Boudigau, on *Phyllostachys* sp., FC 9.6.1986 (FC 151); 40 Seignosse, on *P. nigra*, FC 25.9.1986 (FC 152).

Byssosphaeria schiedermayeriana (FUCKEL) BARR

Description and illustrations: BARR (1984)

Collection examined: 40 Capbreton, Monument, on *Arundinaria japonica*, FC 11.6.1984 (FC 6182).

Glioniopsis praelonga (SCHW.) ZOGG

Description and illustrations: ZOGG (1962)

Collections examined: 64 Artix, Réserve, on *Phyllostachys mitis*, FC 5.3.1984 (FC 6370A); 64 Mont, on *Arundinaria japonica*, FC 4.2.1984 (FC 6370B); 64 Assat, Maison Dirart, FC 11.3.1984; 40 Capbreton, Monument, on *A. japonica*, FC 13.5.1984 (FC 6370).

Glonium abbreviatum (SCHW.) LOHMAN

Description and illustrations: ZOGG (1962)

Collection examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 20.3.1983 (FC 6356).

Herpotrichia herpotrichoides (FUCKEL) CANNON

Description and illustrations: BARR (1984)

Collection examined: 40 Capbreton, Monument, on *Arundinaria japonica*, FC 11.6.1984 (FC 6181).

Hysterium angustatum ALB. & SCHW.

Description and illustrations: ZOGG (1962)

Collections examined: 32 Mirande, on *Phyllostachys mitis*, FC 27.11.1983 (FC 6357); 64 Lavie, on *P. nigra*, FC 25.3.1984 (FC 6357A).

Lophiostoma macrostomum (TODE: FR.) CES. et DE NOT.

Description and illustrations: HOLM & HOLM (1988)

Collections examined: 32 Loubersan, La Flourette, on submerged stems of *Arundinaria japonica*, FC March 1972 (FC 6080); same host and site, FC October 1972 (FC 6080A).

A fungus so far found mainly on conifers, *L. macrostomum* has never been recorded on bamboos. Its taxonomic position has been recently discussed by HOLM & HOLM (1988).

Lophiostoma semiliberum (DESM.) CES. et DE NOT.

Description and illustrations: HOLM & HOLM (1988)

Collections examined: 64 Sauveterre, on *Phyllostachys* sp., FC 7.12.1986 (FC 6083); 64 Uhart-Mixe, on *P. bambusoides*, FC 7.12.1987 (FC 6083A).

Rhizodiscina lignyota (FR.) HAFELLNER

Description and illustrations: HAFELLNER (1979)

Collection examined: 64 Biarrotte, on *Phyllostachys bambusoides*, FC 10.3.1985 (FC 4544).

Schizothyrium pomi (MONT.: FR.) VON ARX

Fig. 2e-g

Description and illustrations: VON ARX (1959).

Collection examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 7.4.1985 (FC 4757).

Sporormiella pilosa (CAIN) AHMED et CAIN

Description and illustrations: AHMED & CAIN (1972)

Collection examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 20.3.1983 (FC 6043)

6. SORDARIALES

Chaetomium olivaceum COOKE et ELLIS

Description and illustrations: AMES (1963); DREYFUSS (1975)

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 28.4.1985 (FC 4802); same site and host, FC 29.3.1987 (FC 4802A).

DEUTEROMYCOTINA

1. HYPHOMYCETES

Acremonium hyalinulum (SACC.) GAMS

Description and illustrations: GAMS (1971)

Collection examined: 40 Tartas, Bord de la Midouze, on *Phyllostachys* sp., FC 29.3.1986 (ZT).

Annelodochium ramulisporum DEIGHTON

Description and illustrations: ELLIS (1971)

Collection examined: 40 Peyrehorade, hyperparasite on *Peroneutypa heteracantha*, on *Phyllostachys* sp., FC 29.11.1987 (FC 174).

Annelodochium cf. *ramulisporum* DEIGHTON

Collection examined: 64 Uhart et Mixe, on *Phyllostachys bambusoides*, FC 4.11.1984 (ZT)

We were not able to detect any fungus parasitized by this deuteromycete. The size and shape of the sporodochia and of the conidia fit very well in the original description of *A. ramulisporum*: the unusual habitat suggests at least physiological differences for this collection.

Arthrimum anam. *Apiospora montagnei*

See *Apiospora montagnei*

Arthrimum phaeospermum (CDA) M.B. ELLIS

Description and illustrations: ELLIS (1971)

Collection examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 28.3.1986 (ZT).

Chalara inflatipes (PREUSS) SACC.

Description and illustrations: NAGRAJ & KENDRICK (1975); ELLIS (1976)

Collection examined: 64 Biarrotte, on *Phyllostachys bambusoides*, FC 10.3.1985 (ZT).

Corynespora foveolata (PAT.) HUGHES

Description and illustrations: ELLIS (1971)

Collection examined: 40 Tartas, on *Phyllostachys mitis*, FC & G. Gilles 22.1.1984 (ZT).

Fusarium aquaeductum (REDLK. et RABENH.) LAGERBERG

Description and illustrations: BOOTH (1971).

Collection examined: 40 Tartas, on *Phyllostachys* sp., FC & G. Gilles, 22.1. 1984 (ZT)

Fusarium graminearum SCHWÄBE
see *Gibberella zeae*

Graphium fasciculatum SACC.
See *Peroneutypa heteracantha*

Gonytrichum anam. *Trichosphaerella inaequalis* (GROVE ex BERL. et VOGL.)
E. MÜLLER

Description and illustrations: ELLIS (1971)

Collections examined: 64 Osserain, on *Phyllostachys bambusoides*, FC 22.4.1984 (FC 002B); 30 Anduze, Bambouseraie de Prafrance, Generargues, on *P. viridiglaucescens*, FC 21.11.87 (FC 174).

Hadrotrichum bambusicola O.PETRINI, L. E. PETRINI et F. CANDOUSSAU sp.
nov.

Fig. 1a-b

Conidiomata ad 2 mm diametro, gregaria ad confluentia, disciformia, primum hyalina, dein pallide brunnea aetate provecta, cellulis conidiomatis in textura prismatica ordinatis, 2-4 µm diam. Conidiophora paene hyalina ad pallide brunnea, rare septata, 10-17 x 2.5-4.5 µm, in strato compacto ordinata. Cellulae conidiogenae polyblasticae, terminales, 12 x 4.5 µm. Conidia solitaria, continua, ellipsoidea, hyalina vel aetate provecta pallide brunnea, laevia, basi truncata, 4-8 x 2.5-3.5 µm.

Habitat in culmis emortuis bambusae.

Holotypus: Galliae, in regione pyrenaica, pago dicto Osserain, in culmis emortuis bambusae, legit F. Candoussau, 3.7.1988 (ZT)

Conidiomata 0.7-2 mm diam., circular to slightly elliptical, sporodochial, white when young, later turning light brown in the centre with a white, sterile margin, gregarious, sometimes confluent. Cells of sporodochial tissue of textura prismatica, hyaline, 2-4 µm diam.- Conidiophores 10-17 x 2.5-4.5 µm, unbranched, aseptate or rarely septate, pale brown, in a compact layer.- Conidiogenous cells up to 12 x 4.5 µm, polyblastic, terminal.- Conidia 4-8 x 2.5-3.5 µm, ellipsoidal, with truncate base, hyaline to pale brown, smooth.

Habitat: on dead culms of bamboos.

Holotype: 64 Osserain, on a dead bamboo culm, F. Candoussau 3.7.1988 (ZT)

H. bambusicola differs from the other known species of *Hadrotrichum* [*H. virescens* SACC. et ROUM., *H. globiferum* (ELL. et EVERH.) DAVIS, *H. phragmitis* FÜCKEL, *H. pyrenaicum* PETRINI et al.] by the morphology and size of the conidia and of the conidiophores. *H. bambusicola* could eventually prove to be the anamorph of a bambusicolous *Hypoxyton* species, for its conidia are strongly reminiscent of Xylariaceous anamorphs and at least one species of *Hadrotrichum* is known to be xylariaceous (PETRINI & MÜLLER, 1986).

Periconia igniaria MASON et M.B. ELLIS

Description and illustrations: ELLIS (1971)

Collection examined: 64 Sauveterre, on *Phyllostachys* sp., FC 7.12.1986 (FC 154).

Pteroconium anam. *Apiospora camptospora* PENZ. et SACC.

Description and illustrations: ELLIS (1971)

Collection examined: 40 Tartas, on *Arundinaria japonica*, FC 25.12.1984 (ZT).

Torula herbarum (PERS.) LINK ex S.F. GRAY

Description and illustrations: ELLIS (1971)

Collection examined: 64 Assat, Maison Dirart, on *Phyllostachys mitis*, FC 11.03.84 (ZT).

Verticillium lecanii (ZIMM.) VIEGAS

Description and illustrations: GAMS (1971)

Collection examined: 30 Anduze, Bamboueraie de Prafrance, Generargues, on *Phyllostachys pubescens*, FC 21.11.87 (FC174).

Several collections from other bamboo species, same site, were examined but not kept.

2. COELOMYCETES

Amerosporium polynematoides SPEG.

Description and illustration: SUTTON (1980)

Collection examined: 30 Anduze, Bamboueraie de Prafrance, Generargues, on *Phyllostachys nigra*, FC 21.11.87 (FC174).

Dinemasporium strigosum (PERS.: FR.) SACC.

Description and illustrations: SUTTON (1980)

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys bambusoides*, FC 15.4.1984 (ZT); 30 Anduze, Bamboueraie de Prafrance, Generargues, on *P. pubescens*, FC 21.11.87 (ZT).

Epicoccum purpurascens EHRENB. ex SCHLECHT.

Description and illustrations: ELLIS (1971)

Collections examined: 64 Sauveterre de Béarn, on *Phyllostachys* sp., FC 20.4.1986; 40 Peyrehorade, on *Phyllostachys* sp., FC 29.11.1987.

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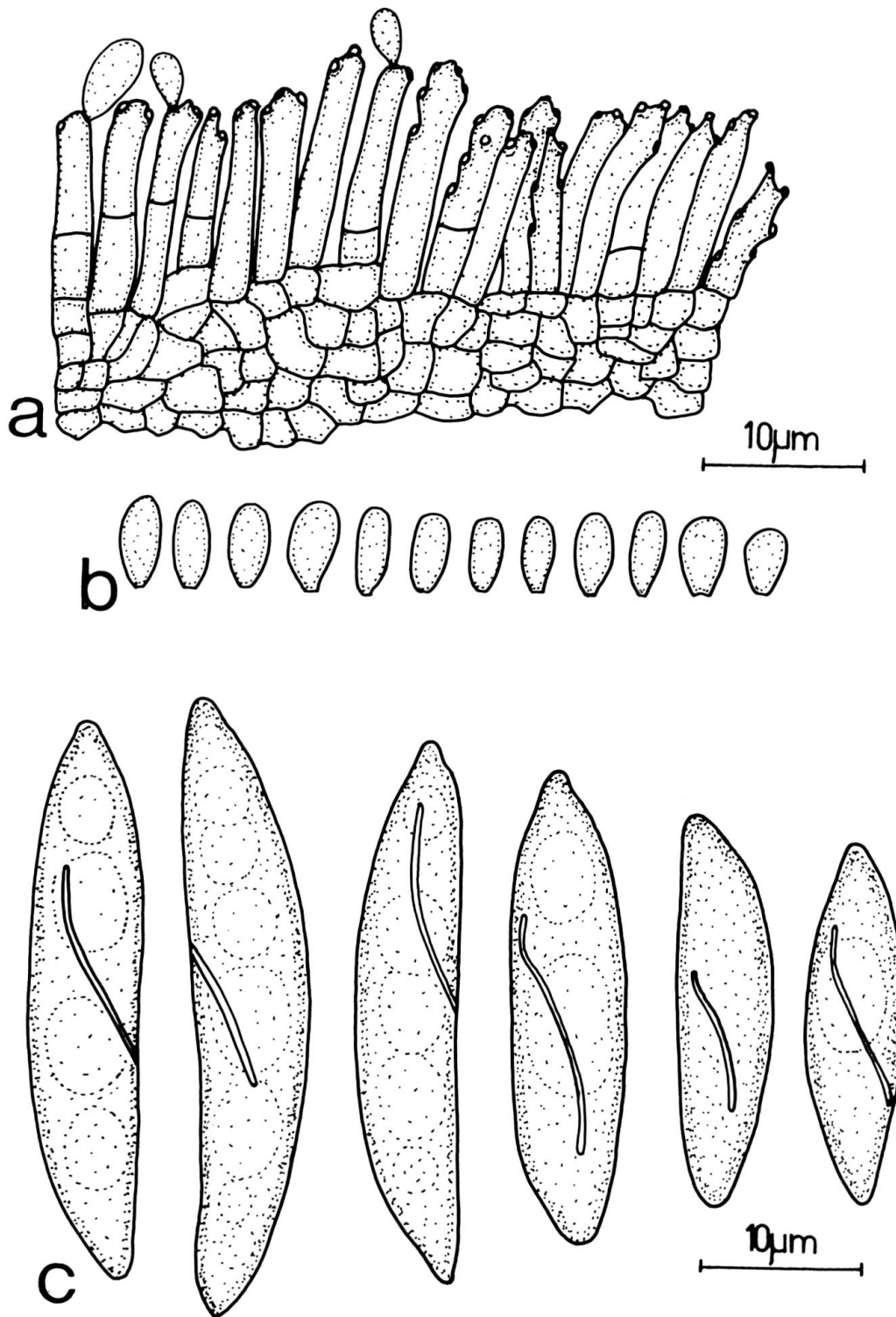


Fig. 1.- a,b: *Hadrotrichum bambusicola*. a: conidiophores. b: conidia.-
c: ascospores of *Rosellinia* sp.

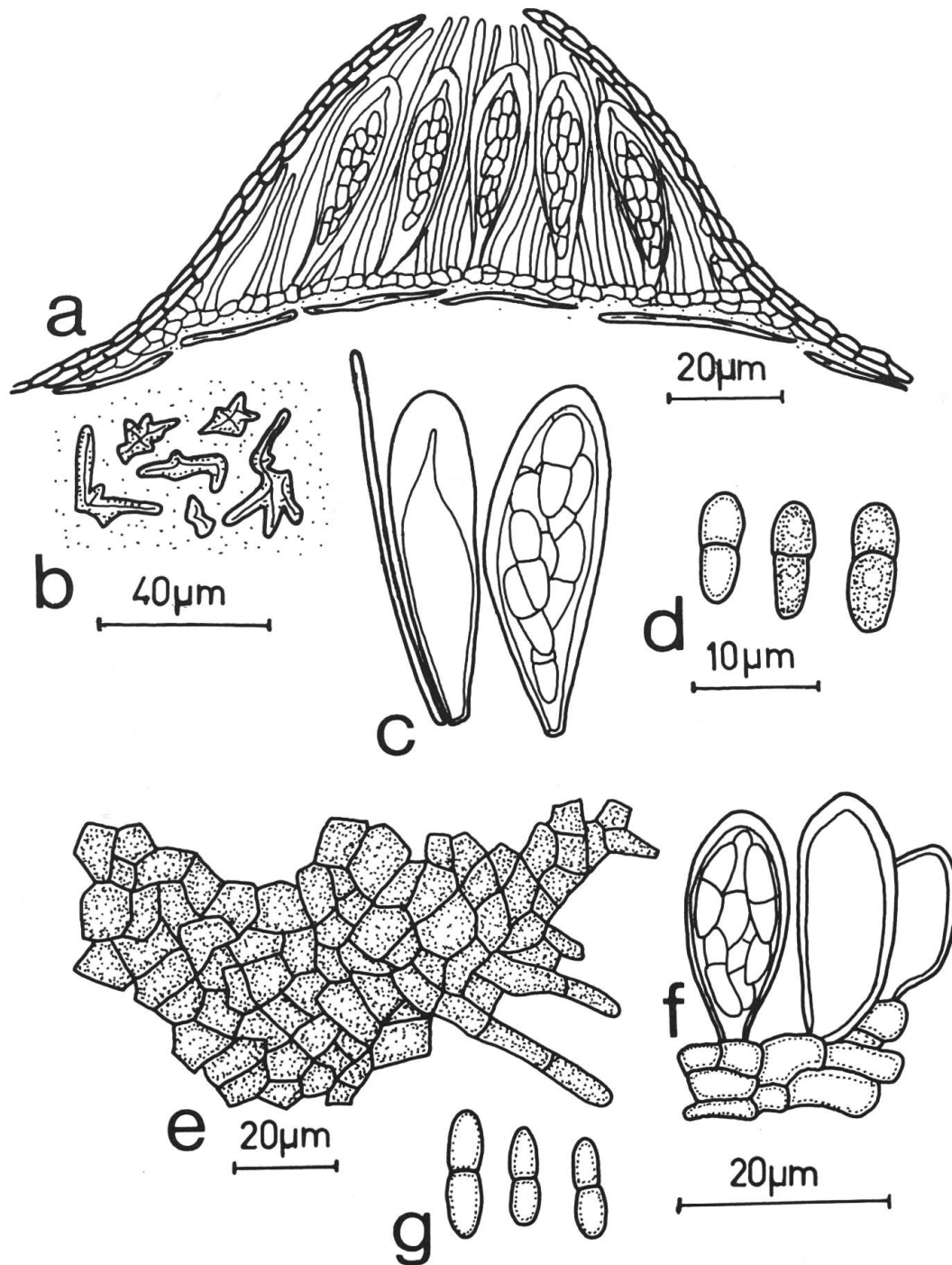


Fig. 2.- a-d: *Aulographum emilii*. a: transverse section of an ascoma. b: ascomata on the host. c: asci. d: ascospores.- e-g: *Schyzothyrium pomi*. e: ascomatal wall tissue. f: asci. g: ascospores.

