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En homenaje a  
Francisco DE DIEGO CALONGE



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# *Repetophragma calongeii* sp. nov. and other interesting dematiaceous hyphomycetes from the North of Spain

by

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## Abstract

Silvera-Simón, C., Mena-Portales, J., Gené, J., Cano, J. & Guarro, J. 2009. *Repetophragma calongeii* sp. nov. and other interesting dematiaceous hyphomycetes from the North of Spain. *Anales Jard. Bot. Madrid* 66S1: 33-39.

*Repetophragma calongeii* sp. nov., a dematiaceous hyphomycete found on unidentified dead wood collected in the Parque Natural de Pagoeta, Spain, is described and illustrated. The fungus is recognized by numerous percurrent proliferations in the conidiophores and its 12-27 euseptate, subcylindrical or subfusiform conidia. A key to species of *Repetophragma* without rostrate conidia is given and 18 additional dematiaceous hyphomycetes are firstly reported for Spain.

**Keywords:** anamorphic fungi, plant debris, taxonomy.

## Introduction

During a survey of plant debris from the North of Spain some interesting dematiaceous hyphomycetes were found. Among them several species are reported for the first time from the Iberian Peninsula and a new species of *Repetophragma* is proposed, which was named as a tribute to Prof. Francisco de Diego Calonge, from the Real Jardín Botánico de Madrid, on the anniversary of his 70th birthday and for his excellent contribution to mycology.

## Material and methods

The samples were collected from different Natural Parks located mainly in Euskadi and Asturias (North of Spain), put into sterilized polyethylene bags and

## Resumen

Silvera-Simón, C., Mena-Portales, J., Gené, J., Cano, J. & Guarro, J. 2009. *Repetophragma calongeii* sp. nov. y otro interesante hifomicete dematiáceo del norte de España. *Anales Jard. Bot. Madrid* 66S1: 33-39 (en inglés).

Se describe e ilustra un hifomicete dematiáceo, *Repetophragma calongeii* sp. nov., encontrado sobre madera muerta colectada en el Parque Natural de Pagoeta, España. Este hongo se caracteriza por presentar conidióforos con numerosas proliferaciones percurrentes y conidios subcilíndricos o subfusiformes, 12-17 euseptados. Se propone una clave dicotómica para las especies de *Repetophragma* que no presentan conidios rostrados o apendiculados. Además, se describen otras 18 especies de hifomicetes dematiáceos que son nuevas citas para el catálogo micológico español.

**Palabras clave:** hongos anamórficos, restos vegetales, taxonomía.

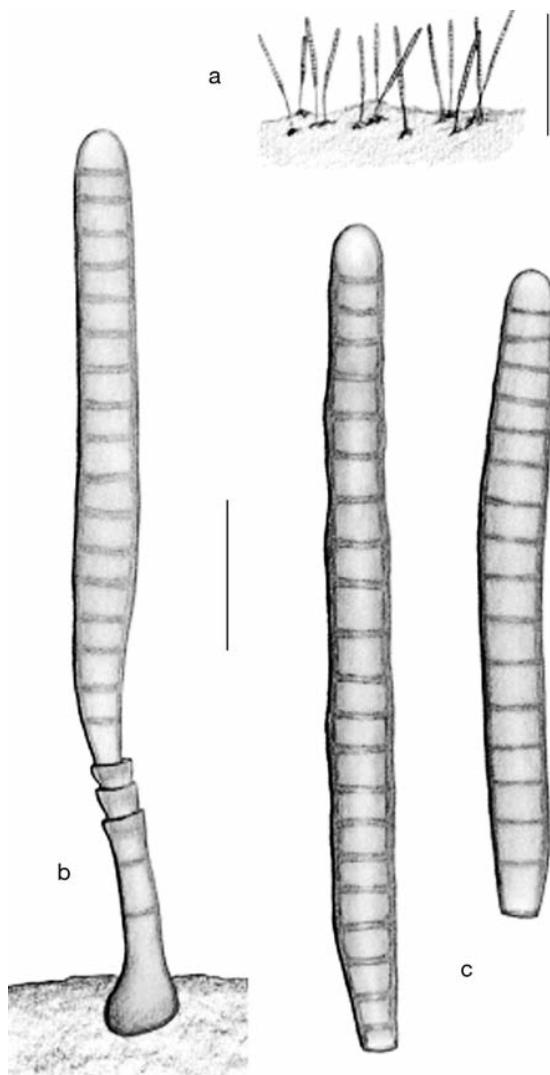
stored in the refrigerator at 4-7°C in the laboratory until they were processed. The plant material was placed into sterile moist chambers, which were incubated at room temperature (22-25 °C) and examined periodically under a stereomicroscope over a 2-month period. Microscopic features of the fungi growing on the natural substratum were examined from wet mounts prepared in 85% lactic acid under light microscopy. Drawings were made using a Camara Lucida (1.25×, Olympus). Micrographs were obtained by light microscopy (Leitz Dialux 20) and by scanning electron microscopy (Jeol JSM-6400).

## Taxonomic treatment

***Repetophragma calongeii* J. Mena, Silvera & Gené, sp. nov.** (Figs. 1, 2)

Etym.: named as a tribute to the excellent mycologist F. de Diego Calonge.

*Coloniae effusae, brunneae vel atro brunneae, pilosae, saepe incospicuae. Mycelium plerumque in substrato immersum. Conidiophora macronematosae, mononematosae, solitaria, simplicia, recta vel leviter flexuosa, septata, brunnea vel atro brunnea, laevia, 32-75 × 5-7 µm. Cellulae conidiogenae monoblasticae in conidiophoris incorporatae, terminales, brunneae vel atro brunneae, cylindricae, 5-5.8 µm latae, cum 4-9 proliferationis percurrentes. Conidia acrogena, solitaria, sicca, recta, brunnea vel modice brunnea, laevia, 17-27 euseptata, subcylindrica vel subfusiformia, 80-165 × (8)9-10.5 µm, 5-7(8) µm lata ad apicem, 5-6 µm lata ad basim.*

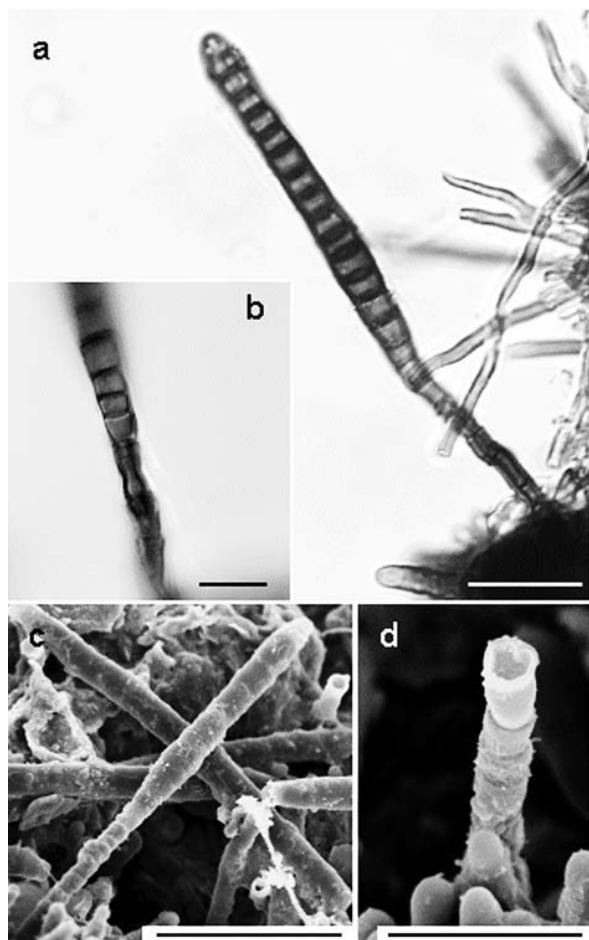


**Fig. 1.** *Repetophragma calongei*, IMI 396700: a, sketch habit; b, c, a conidiophore with annellidic percurrent proliferations and conidia. Scale bars: a = 200 µm; b, c = 25 µm.

Colonies effuse, brown to dark brown, hairy, often inconspicuous. Mycelium mostly immersed in the substratum. Conidiophores macronematos, mononematos, solitary, unbranched, straight or slightly flexuous, septate, brown to dark brown, smooth-walled, cylindrical, 32-75 × 5-7 µm. Conidiogenous cells monoblastic, integrated, terminal, mid brown to dark brown, cylindrical, 5-5.8 µm wide, with 4-9 annellidic, percurrent proliferations. Conidia acrogenous, solitary, dry, straight, brown to mid brown, smooth-walled, 12-27 euseptate, subcylindrical or subfusiform, 80-165 × (8)9-10.5 µm at the broadest part, apex rounded, 5-7(8) µm wide, base truncate, 5-6 µm wide.

**SPAIN. Guipúzcoa:** Pagoeta Natural Park, IV-2008, on dead wood, J. Mena and C. Silvera (holotype IMI 396700; isotype FMR 10089).

The genus *Repetophragma* Subram., with *R. bisepta* (M.B. Ellis) Subram. as type species, was segregated from *Sporidesmium* Link by Subramaniam (1992) to accommodate those species which presented conidiogenous cells with annellidic percurrent proliferations and euseptate conidia. Under these morphological criteria and according to Index Fungorum (<http://indexfungorum.org/names/names.asp>) a total of 18 species are included in *Repetophragma*. In a recent molecular phylogenetic study, Shenoy & al. (2006) demonstrated that some species of *Repetophragma* as well as other members of *Sporidesmium*-like genera were clearly polyphyletic; they were dispersed into different families and orders of Sordariomycetes and Dothideomycetes. On the basis of Shenoy & al. findings (2006), Iturriaga & al. (2008) recently described a fungus, *Sporidesmium lichenicola* Iturr., D. Hawksw. & J.L. Crane, despite its morphological similarity with *Repetophragma*, and transferred *Repetophragma sinense* W.P. Wu to *Sporidesmium*. It is evident that the morphology is not enough to clarify the natural relationships among *Sporidesmium*-like fungi and new molecular studies involving more species will be necessary to build a robust taxonomy for those fungi. Therefore, until the taxonomy of the these fungi is resolved, considering that most species accepted in *Repetophragma* have euseptate conidia with rounded well defined apices, without rostrate or appendiculate apical cell and annellidic percurrent proliferartion of the conidiogenous cells (Iturriaga & al., 2008), we prefer to described the new species in *Repetophragma*. The only species of *Repetophragma* morphologically similar to *R. calongei* is *R. goidanichii* (Rambelli) W.P. Wu (Wu & Zhuang, 2005), but the latter differs by its shorter and less septate conidia (Fig. 18). A dichotomous key to differentiate these species of *Repetophragma* that lacks conidia with apical beaks or appendages is given below.



**Fig. 2.** *Repetophragma calongeii*, IMI 396700: **a, c**, conidiophores with annellidic percurrent proliferations producing conidia; **b, d**, detail of the percurrent proliferations. Scale bars: a, c = 50 µm; b = 10 µm; d = 20 µm.

#### KEY TO SPECIES OF REPETOPHRAGMA WITHOUT ROSTRATE OR APPENDICULATE CONIDIA

1. Conidia more than 15 µm wide, 100-140 × 15-20 µm ..... **R. ontariense**
1. Conidia narrower, up to 15 µm wide ..... 2
2. Conidia up to 4 septate ..... 3
2. Conidia more than 4 septate ..... 4
3. Conidia navicular, 2 septate, 17-23 × 7-8 µm ..... **R. biseptatum**
3. Conidia mostly ellipsoidal, 2-3 septate, 22-33 × 8-12 µm ..... **R. dennisii**
4. Conidia more than 12 µm wide, 40-60 × 12-15 µm ..... **R. cambrense**
4. Conidia up to 12 µm wide ..... 5
5. Conidia more than 8 septate ..... 6
5. Conidia up to 8 septate ..... 7
6. Conidia 8-10 septate, 40-100 µm long ..... **R. zambiene**
6. Conidia 12-27 septate, 80-165 µm long ..... **R. calongeii**
7. Conidia 6-8 septate, 30-50 × 5-8 µm, pale brown ..... **R. goidanichii**
7. Conidia (4)5-6(7) septate, (25)31-34(45) × (5)6-7(9) µm, pale to dark brown ..... **R. gondwanamycetis**

#### Dematiaceous hyphomycetes first recorded from Spain

**Bactrodesmium abruptum** (Berk. & Broome) E.W. Mason & S. Hughes in S. Hughes, Can. J. Bot. 36: 738. 1958 (Fig. 3)

Conidiophores sporodochial, usually branched, up to 40 µm long. Conidiogenous cells terminal, monoblastic, determinate, cylindrical, 2.5-3.5 µm wide. Conidia clavate, 48-59 × 11-18 µm, 3-5 septate, subhyaline to pale brown, with dark bands at the septa, the apical one thicker and black, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9268). **Asturias:** Somiedo Natural Park, close to Vigaña, X-2006, on unidentified dead wood, A. Mercado & C. Silvera (FMR 10266). **Guipúzcoa:** Pagoeta Natural Park, IV-2008, on unidentified dead stem, J. Mena & C. Silvera (FMR 10267).

**Bactrodesmium atrum** M.B. Ellis, Mycol. Pap. 72: 9. 1959 (Fig. 4)

Conidiophores up to 40 × 3-4 µm, unbranched. Conidia clavate, 43-70.5 × 24-38 µm, 4-5 septate, dark brown to near black, without thick and dark pigmented bands, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9215). **Guipúzcoa:** Pagoeta Natural Park, IV-2008, on unidentified dead wood, J. Mena & C. Silvera (FMR 10268).

**Bactrodesmium spilomeum** (Berk. & Broome) E.W. Mason & S. Hughes in S. Hughes, Can. J. Bot. 31: 616. 1953 (Fig. 5)

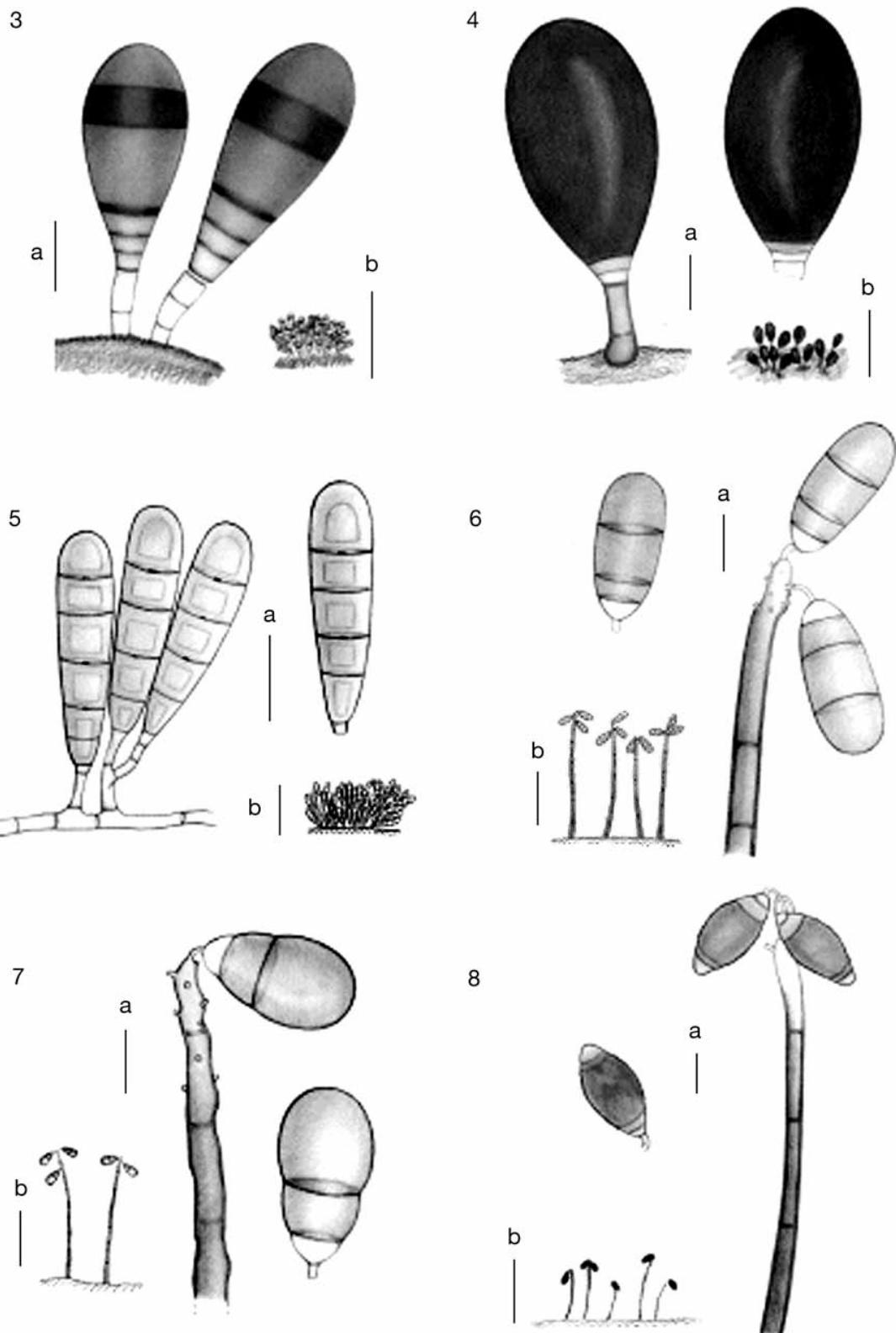
Conidiophore branched, of variable length. Conidia clavate, 30-50 × 8-9 µm, mostly 4 septate, pale brown, without thick and dark pigmented bands, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9216).

**Brachysporium bloxamii** (Cooke) Sacc., Syll. fung. (Abellini) 4: 426. 1886 (Fig. 6)

Conidiophores solitary, erect, unbranched, up to 300 × 4-5 µm. Conidia ellipsoidal or clavate, 23-30 × 10-11.5 µm, mostly 3 septate, basal cell small and paler, other cells larger and brown, smooth-walled.

SPAIN. **Asturias:** Muniellos Biological Reserve, VI-1999, on unidentified rot wood, M. Calduch & A. Sitchez (FMR 10269). **Navarra:** Valle de Roncal, IX-2005, unidentified dead wood, J. Cano & C. Silvera (FMR 9218). Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 10270). **Pontedevedra:** Monte



**Figs. 3-8.** Sketch habit, conidiophores and conidia of: **3,** *Bactrodesmium abruptum*, FMR 9268 (scale bars: a = 10 µm; b = 200 µm). **4,** *Bactrodesmium atrum*, FMR 9215 (scale bars: a = 10 µm; b = 200 µm). **5,** *Bactrodesmium spilomeum*, FMR 9216 (scale bars: a = 10 µm; b = 100 µm). **6,** *Brachysporium bloxamii*, FMR 9218 (scale bars: a = 10 µm; b = 100 µm). **7,** *Brachysporium obovatum*, FMR 9220 (scale bars: a = 10 µm; b = 100 µm). **8,** *Brachysporium pendulisporum*, FMR 9269 (scale bars: a = 10 µm; b = 100 µm).

Aloia, III-2006, on unidentified dead wood, J. Guarro, J. Mena & C. Silvera (FMR 10378).

**Brachysporium obovatum** Keissl., Syll. fung. (Abellini) 4: 427. 1886 (Fig. 7)

Conidiophores up to  $130 \times 3.5-5 \mu\text{m}$ . Conidia obovate,  $19-26.5 \times 11.5-13.5 \mu\text{m}$ , mostly 2 septate, usually constricted at septa, basal cell small, subhyaline, other cells larger and pale brown, smooth-walled.

SPAIN. Navarra: Valle del Baztán, Señorio de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9220). Guipúzcoa: Pagoeta Natural Park, IV-2008, on unidentified dead wood, J. Mena & C. Silvera (FMR 10271).

**Brachysporium pendulisporum** S. Hughes, Can. J. Bot. 33: 266. 1955 (Fig. 8)

Conidiophores up to  $250 \times 9-14 \mu\text{m}$ . Conidia limoniform,  $28-39 \times 12-17 \mu\text{m}$ , mostly 4 septate, central cell very large and dark brown, basal and apical cells smaller and paler, often verruculose.

SPAIN. Navarra: Valle del Baztán, Señorio de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9269).

**Camposporium cambrense** S. Hughes, Mycol. Pap. 36: 11. 1951 (Fig. 9)

Conidiophores solitary, unbranched, up to  $60 \mu\text{m}$  long. Conidiogenous cells terminal, polyblastic, sympodial, denticulate, cylindrical,  $5-6 \mu\text{m}$  wide. Conidia up to 12 septate, cylindrical,  $70-95 \times 9-10 \mu\text{m}$ , rounded at the end, and with a basal hilum up to  $1.5 \mu\text{m}$  wide, pale brown, smooth-walled, the apical cell may bear a hyaline, septate appendage not seen in the present collection.

SPAIN. Navarra: Valle del Baztán, Señorio de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 10272).

**Ceratosporium fuscescens** Schwein., Trans. Am. phil. Soc., Ser. 2, 4: 300. 1832 (Fig. 10)

Conidiophores inconspicuous. Conidiogenous cells intercalary, monoblastic, denticulate, denticles up to  $2 \mu\text{m}$  wide. Conidia composed of three elongate arms, arising from a  $15-19 \times 15 \mu\text{m}$ , pyriform basal cell; each arm 6-10 septate,  $88-135 \times 15-23 \mu\text{m}$ , pale brown, smooth-walled.

SPAIN. Navarra: Valle del Baztán, Señorio de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9222).

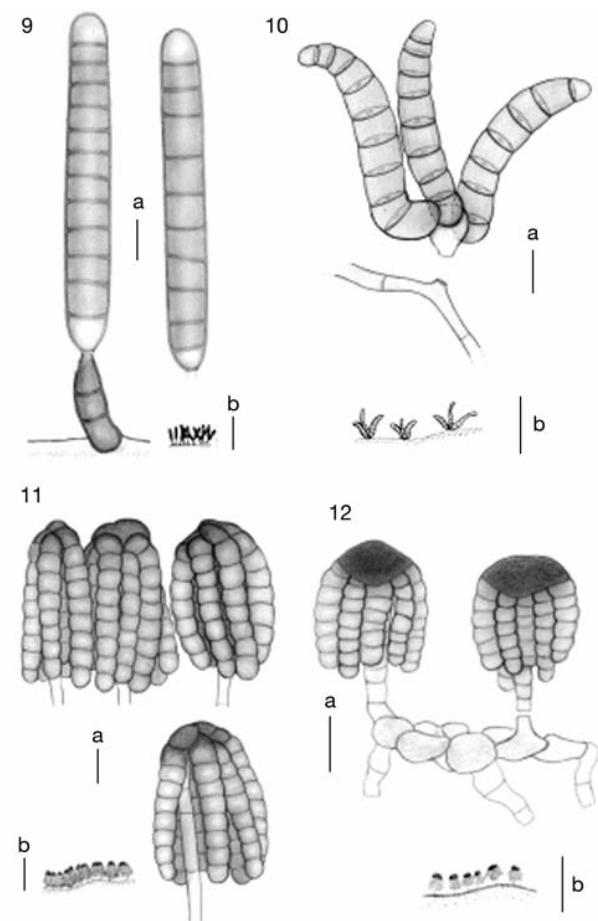
**Cryptocoryneum condensatum** (Wallr.) E.W. Mason & S. Hughes in Walsh & Rimington, Nat. Hist. Scarborough Distr. 1: 161. 1953 (Fig. 11)

Conidiophores sporodochial, unbranched, subhyaline or pale brown, up to  $60 \mu\text{m}$  long. Conidiogenous cells terminal, monoblastic, determinate, cylindrical,  $3-5 \mu\text{m}$  wide. Conidia solitary,  $30-50 \times 20-30 \mu\text{m}$ , branched, consisting of a several, small, apical dark cells, from which are borne 5-8 pendulous arms; arms mostly 6 septate,  $30-50 \times 5-6 \mu\text{m}$ , subhyaline to pale brown, smooth-walled.

SPAIN. Navarra: Valle del Baztán, Señorio de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9229).

**Cryptocoryneum rilstonii** M.B. Ellis, Mycol. Pap. 131: 2. 1972 (Fig. 12)

Conidiophores pale brown, very slender, up to  $40 \times 1-3 \mu\text{m}$ . Conidia solitary,  $28-39 \times 22-34 \mu\text{m}$ , with apical



**Figs. 9-12.** Sketch habit, conidiophores and conidia of: **9**, *Camposporium cambrense*, FMR 10272 (scale bars: a =  $10 \mu\text{m}$ ; b =  $200 \mu\text{m}$ ). **10**, *Ceratosporium fuscescens*, FMR 9222 (scale bars: a =  $20 \mu\text{m}$ ; b =  $200 \mu\text{m}$ ). **11**, *Cryptocoryneum condensatum*, FMR 9229 (scale bars: a =  $10 \mu\text{m}$ ; b =  $100 \mu\text{m}$ ). **12**, *Cryptocoryneum rilstonii*, FMR 9230 (scale bars: a =  $10 \mu\text{m}$ ; b =  $100 \mu\text{m}$ ).

black cells and 6-9 pendulous arms; arms 4-6 septate,  $21-30 \times 5-6 \mu\text{m}$ , subhyaline to pale brown, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9230). **Pontevedra:** Monte Aloia, III-2006, on unidentified dead leaf, J. Guarro, J. Mena & C. Silvera (FMR 10273).

**Ellisembia adscendens** (Berk.) Subram., Proc. Indian natn. Sci. Acad., Part B Biol. Sci. 58: 183. 1992 (Fig. 13)

Conidiophores solitary, erect or flexuous, septate, unbranched, brown, smooth-walled, up to  $30 \times 7-8 \mu\text{m}$ . Conidiogenous cells terminal, monoblastic, without percurrent proliferations. Conidia 11-24 pseu-

doseptate, slightly or distinctly constricted at the septa, cylindrical, obclavate, rostrate, up to  $200 \mu\text{m}$  long,  $12-15 \mu\text{m}$  wide at the broadest part, base of 6-8  $\mu\text{m}$  wide, brown but paler at the apex, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9736).

**Endophragmiella boothii** (M.B. Ellis) S. Hughes, N. Z. Jl Bot. 17: 147. 1979 (Fig. 14)

Conidiophores usually solitary, unbranched, septate, brown, up to  $120 \times 3.5-4.5 \mu\text{m}$ . Conidiogenous cells terminal, monoblastic, percurrent, cylindrical. Conidia predominantly 3 septate, oblonga-ellipsoidea,  $19-23 \times 11-13 \mu\text{m}$ , with a basal frill up to  $1.5 \times 3.5-4 \mu\text{m}$ , pale brown to golden brown, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9239).

**Endophragmiella oblonga** (Matsush.) S. Hughes, N. Z. Jl Bot. 17: 152. 1979 (Fig. 15)

Conidiophores up to  $220 \times 7-8 \mu\text{m}$ . Conidia predominantly 2 septate, oblonga-ellipsoidea,  $23-25 \times 11-13 \mu\text{m}$ , with a basal frill up to  $1.5 \times 2-2.5 \mu\text{m}$ , pale brown to brown, basal cell paler, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9241).

**Endophragmiella socia** (M.B. Ellis) S. Hughes, N. Z. Jl Bot. 17: 153. 1979 (Fig. 16)

Conidiophores up to  $220 \times 6.5-7.5 \mu\text{m}$ . Conidia predominantly 7-8 septate, navicular,  $30-40 \times 11-15 \mu\text{m}$ , with a scar  $5-6 \mu\text{m}$  wide, pale brown to brown, terminal cells paler, smooth-walled.

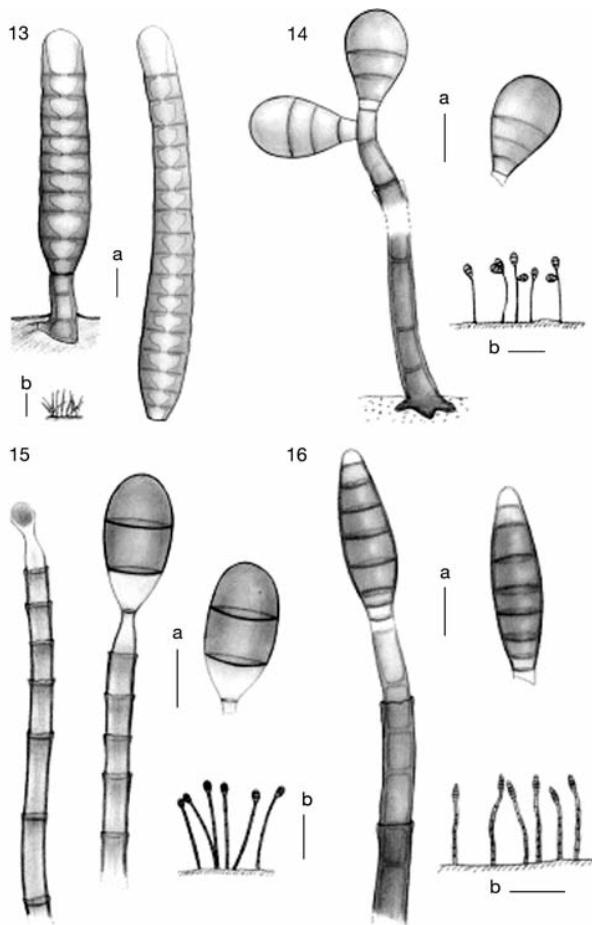
SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9242).

**Endophragmiella valdiviana** (Speg.) S. Hughes, N. Z. Jl Bot. 17: 157. 1979 (Fig. 17)

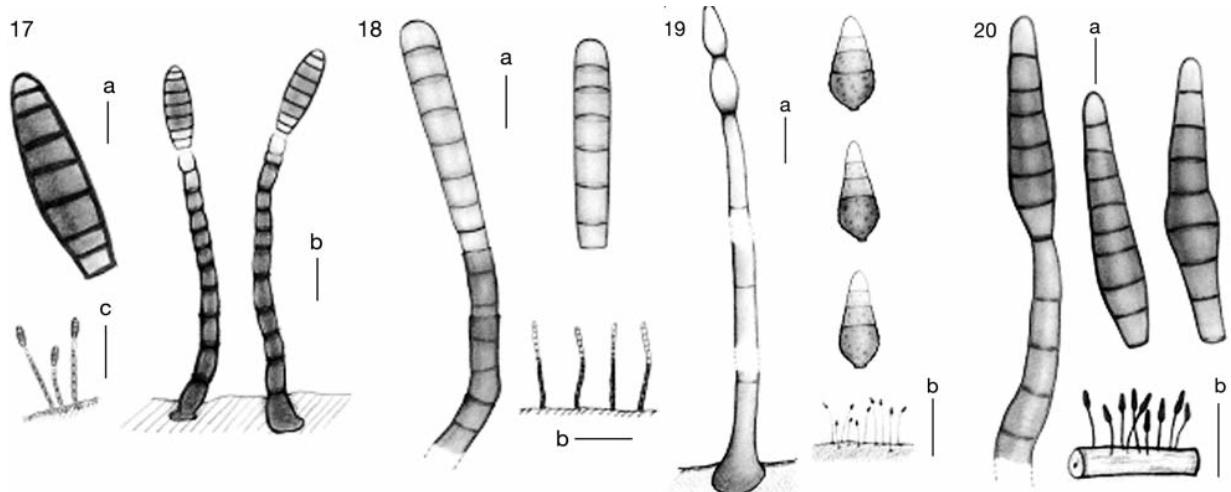
Conidiophores up to  $230 \times 7-9 \mu\text{m}$ . Conidia mostly 7 septate, navicular,  $39-49 \times 11-13 \mu\text{m}$ , with a scar  $7-8 \mu\text{m}$  wide, brown, paler in the both end cells, smooth-walled.

SPAIN. **Navarra:** Valle del Baztán, Señorío de Bértiz, close to the botanic garden, II-2006, on unidentified dead wood, J. Cano, J. Mena & C. Silvera (FMR 9744).

**Repetophragma goidanichii** (Rambelli) W.P. Wu in Wu & Zhuang, 2005 (Fig. 18)



**Figs. 13-16.** Sketch habit, conidiophores and conidia of: **13,** *Ellisembia adscendens*, FMR 9736 (scale bars: a =  $10 \mu\text{m}$ ; b =  $200 \mu\text{m}$ ). **14,** *Endophragmiella boothii*, FMR 9239 (scale bars: a =  $10 \mu\text{m}$ ; b =  $100 \mu\text{m}$ ). **15,** *Endophragmiella oblonga*, FMR 9241 (scale bars: a =  $10 \mu\text{m}$ ; b =  $100 \mu\text{m}$ ). **16,** *Endophragmiella socia*, FMR 9242 (scale bars: a =  $10 \mu\text{m}$ ; b =  $100 \mu\text{m}$ ).



**Figs. 17-20.** Sketch habit, conidiophores and conidia of: **17**, *Endophragmiella valdiviana*, FMR 9744 (scale bars: a = 10 µm; b = 25 µm; c = 100 µm). **18**, *Repetophragma goidanichii*, FMR 9260 (scale bars: a = 10 µm; b = 100 µm). **19**, *Sporidesmium cookei*, FMR 10274 (scale bars: a = 10 µm; b = 200 µm). **20**, *Sporidesmium fragilissimum*, FMR 10275 (scale bars: a = 10 µm; b = 200 µm).

Conidiophores solitary, erect or flexuous, septate, brown to dark brown, up to  $140 \times 4.5\text{-}6$  µm. Conidiogenous cells with several annellating percurrent proliferations. Conidia 6-8 euseptate, cylindrical to subcylindrical,  $38\text{-}50 \times 5.5\text{-}7$  µm, pale brown, smooth-walled.

SPAIN. Pontevedra: Monte Aloia, III-2006, on unidentified dead leaf, J. Guarro, J. Mena & C. Silvera (FMR 9260). Zamora: Moveros, IX-2007, on *Quercus suber* dead leaf, J. Capilla, R. Castañeda & C. Silvera (FMR 9745).

**Sporidesmium cookei** (S. Hughes) M.B. Ellis, Mycol. Pap. 70: 48. 1958 (Fig. 19)

Conidiophores solitary, erect, unbranched, up to  $118 \times 3.5\text{-}4$  µm, brown. Conidiogenous cells with 1-2 lageniform or ampulliform percurrent proliferations. Conidia 3 septate, obpyriform or obclavate,  $17\text{-}23 \times 7\text{-}10$  µm wide at the broadest part, the basal cells are roughened, brown, apical cells paler and smoother, rounded at the apex, truncate at the base.

SPAIN. Vizcaya: Urkiola Natural Park, V-2008, on unidentified dead wood, J. Mena and C. Silvera (FMR 10274).

**Sporidesmium fragilissimum** (Berk. & M.A. Curtis) M.B. Ellis, Mycol. Pap. 70: 55. 1958 (Fig. 20)

Conidiophores solitary, erect, unbranched, cylindrical, up to  $85 \times 7\text{-}9$  µm wide at the broadest part. Conidiogenous cells usually without proliferations. Conidia 5-7 septate, obclavate,  $37\text{-}56 \times 9\text{-}11$  µm wide

at the broadest part, with apex rounded, brown to pale brown, apical cells paler and smooth, verruculose towards the base.

SPAIN. Vizcaya: Urkiola Natural Park, V-2008, on unidentified dead wood, J. Mena & C. Silvera (FMR 10275).

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