# Hyphomycetes decompositores de Caesalpinia echinata Lam. no Estado de São Paulo, Brasil



Priscila da Silva e Rosely Ana Piccolo Grandi

Fotos: Priscila da Silva e Rosely Ana Piccolo Grandi. Agradecimentos: FAPESP – Fundação de Amparo a Pesquisas do Estado de São Paulo, SP. Processo no 05/51732-5 e Dra. Marina Capelari

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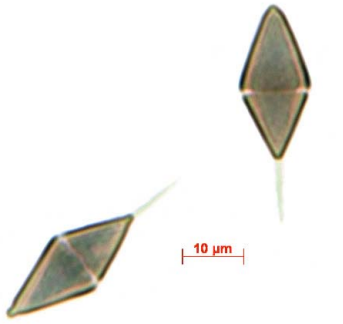
**1** ***Alternaria alternata***


**2a** ***Beltrania rhombica***

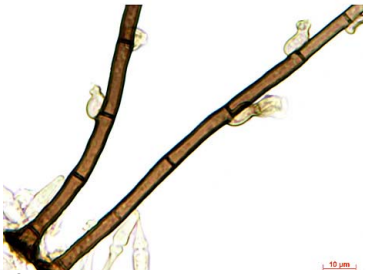

**2b** ***Beltrania rhombica***


**2c** ***Beltrania rhombica***



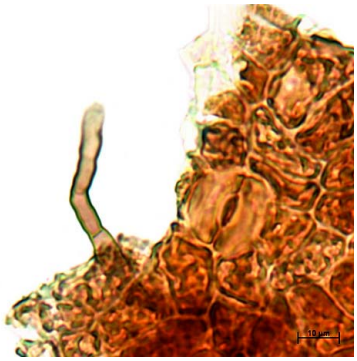

**2d** ***Beltrania rhombica***


**3a** ***Beltraniopsis ramosa***



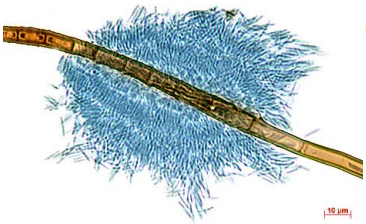

**3b** ***Beltraniopsis ramosa***


**4a** ***Camposporium antennatum***

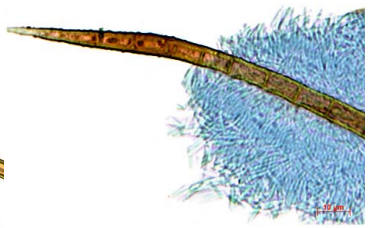



**4b** ***Camposporium antennatum***


**5a** ***Chaetopsina fulva***




**5b** ***Chaetopsina fulva***

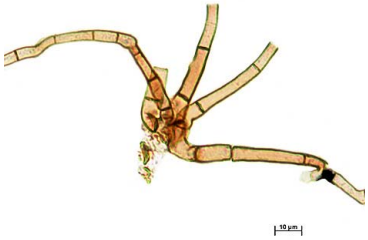



**5c** ***Chaetopsina fulva***


**6a** ***Chaetopsina splendida***


**6b** ***Chaetopsina splendida***


**7a** ***Chlamydopsis proliferans***




**7b** ***Chlamydopsis proliferans***

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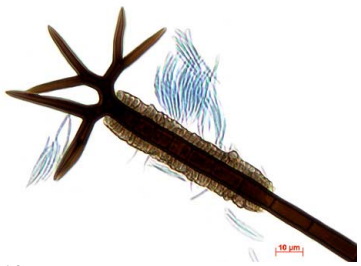
**8a** ***Circinotrichum olivaceum***

**8b** ***Circinotrichum olivaceum***

**9a** ***Composporium pellucidum***

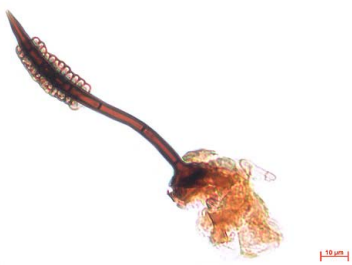
**9b** ***Composporium pellucidum***

**10a** ***Cryptophiale udagawae***



**10b** ***Cryptophiale udagawae***

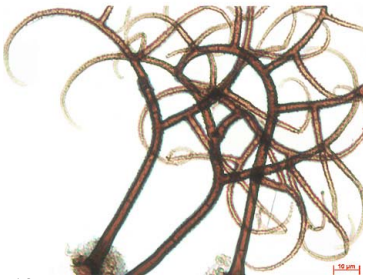
**11a** ***Cryptophiale minor***



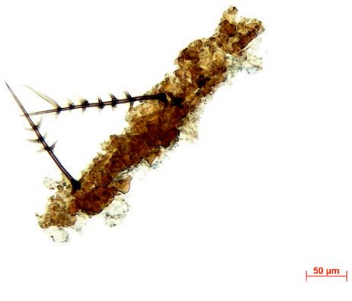
**11b** ***Cryptophiale minor***.

**12a** ***Gyrothrix circinata***

**12b** ***Gyrothrix circinata***



**12c** ***Gyrothrix circinata***

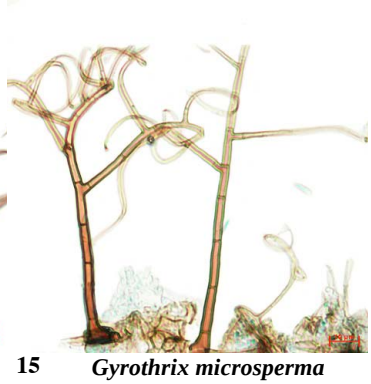


**13a** ***Gonytrichum macrocladum***

**13b** ***Gonytrichum macrocladum***

**14a** ***Gyrothrix ramosa***

**14b** ***Gyrothrix ramosa***



**15** ***Gyrothrix microsperma***

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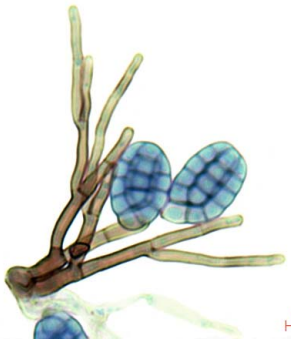
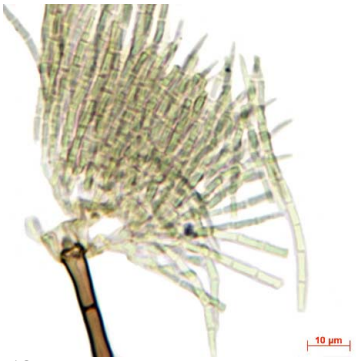
**16a** ***Mariannaea elegans***

**16b** ***Mariannaea elegans***



**17** ***Pseudodictyosporium wauense***

**18a** ***Speiropsis scopiformis***



**18b** ***Speiropsis scopiformis***

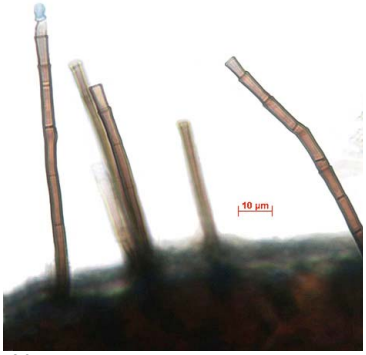
**19a** ***Sporidesium flagelliforme***

**19b** ***Sporidesium flagelliforme***

**20a** ***Repetophragma filiferum***

**20b** ***Repetophragma filiferum***

**20c** ***Repetophragma filiferum***



**20d** ***Repetophragma filiferum***

**21a** ***Triposporium deviatum***

**21b** ***Triposporium deviatum***

**22a** ***Uberispora heteroseptata***



**22b** ***Uberispora heteroseptata***

**22c** ***Uberispora heteroseptata***

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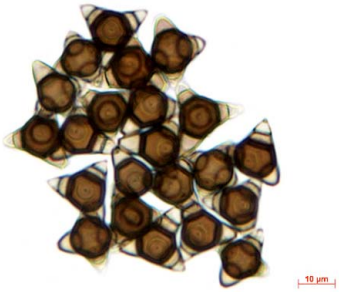
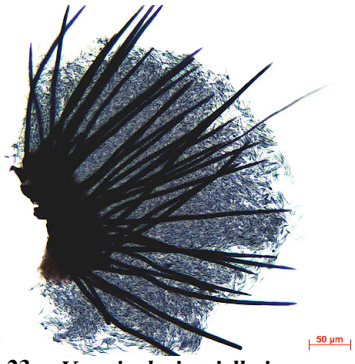
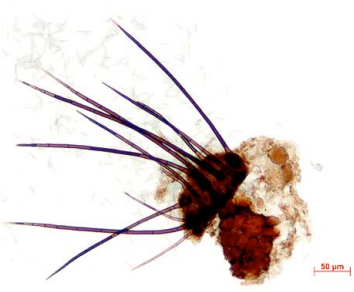



**22d** ***Uberispora heteroseptata***

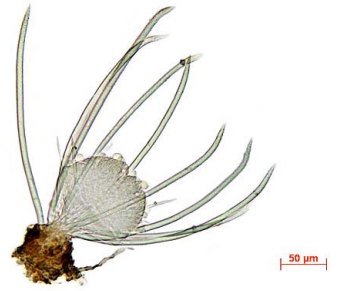



**23a** ***Vermiculariopsiella immersa***

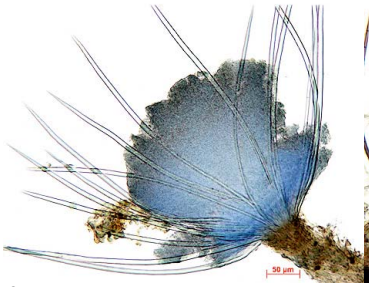



**23b** ***Vermiculariopsiella immersa***


**23c** ***Vermiculariopsiella immersa***

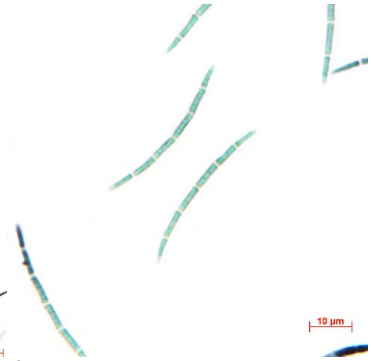



**24a** ***Volutella minima***



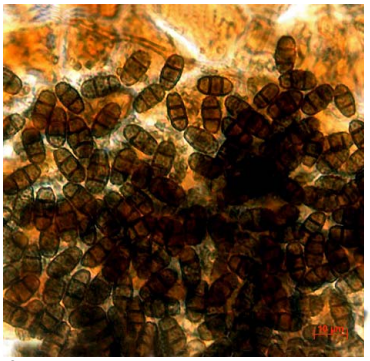

**24b** ***Volutella minima***


**25a** ***Wiesneriomyces laurinus***

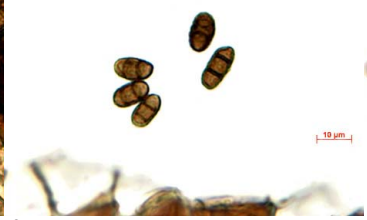



**25b** ***Wiesneriomyces laurinus***

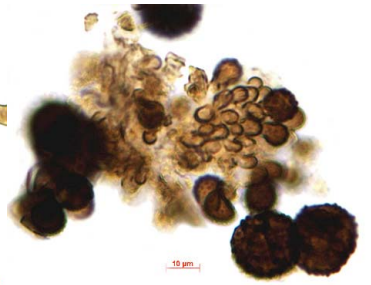

**26** ***Periconia minutissima***




**27a** ***Pithomyces maydicus***




**27b** ***Pithomyces maydicus***

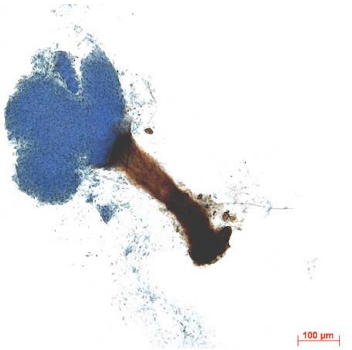



**28a** ***Epicoccum nigrum***


**28b** ***Epicoccum nigrum***


**29a** ***Thozetella gigantea***


**29b** ***Thozetella gigantea***




**29c** ***Thozetella gigantea***

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| | |
|---|---|
| 1. *Alternarua alternata* (Fr.) Keissl - conidia muriform | 16a. *Mariannaea elegans* (Corda) Samson – apical part of conidiophore with conidiogenous cells and conidia |
| 2a. *Beltrania rhombica* Penz - conidia in group | 16b. *Mariannaea elegans* (Corda) Samson – conidia catenulate |
| 2b. *Beltrania rhombica* Penz - setae, conidiophores and conidiogenous eells terminal | 17a. *Pseudodictyosporium wauense* Matsush – conidiophore, condiogenous cells terminal and conidia setiform |
| 2c. *Beltrania rhombica* Penz - conidiophores, conidiogenous cells terminal, separating cells ellipsoidal obovoid and conidium | 18a. *Speiropsis scopiformis* Kuthub. & Nawawi – conidiophore setiform, conidiogenous cells terminal and conidia catenulate |
| 2d. *Beltrania rhombica* Penz - conidia | 18b. *Speiropsis scopiformis* Kuthub. & Nawawi – apical part of conidiophore with conidiogenous cells terminal and condidia catenulate |
| 3a. *Beltraniopsis ramosa* R.F. Castañeda - conidia | 19a. *Sporidesmium flagelliforme* Matsush – conidiophore and conidiogenous cells terminal |
| 3b. *Beltraniopsis ramosa* R.F. Castañeda – coniodophores and conidiogenous cells doliiform | 19b. *Sporidesmium flagelliforme* Matsush - conidium |
| 4a. *Camposporium antennatum* Harkn - conidium | 20a. *Repetophragma filiferum* (Piroz) R. F. Castañeda - conidium |
| 4b. *Camposporium antennatum* Harkn - conidiophore | 20b. *Repetophragma filiferum* (Piroz) R. F. Castañeda – conidiogenous cells percurrent and conidium |
| 5a. *Chaetopsina fulva* Rambelli – conidiophore setiform with conidia in the median region | 20c. *Repetophragma filiferum* (Piroz) R. F. Castañeda - conidia |
| 5b. *Chaetopsina fulva* Rambelli – conidiogenous region with conidia | 20d. *Repetophragma filiferum* (Piroz) R. F. Castañeda - conidiophores |
| 5c. *Chaetopsina fulva* Rambelli – apical part of conidiophore with conidia | 21a. *Triposporium deviatum* (Subram.) R. F. Castañeda – conidiophores, condidiogenous cell terminal and conidium |
| 6a. *Chaetopsina splendida* B. Sutton & Hodges – conidiophore setiform and conidia | 21b. *Triposporium deviatum* (Subram.) R. F. Castañeda - conidium |
| 6b. *Chaetopsina splendida* B. Sutton & Hodges – conidiophore setiform | 22a. *Uberispora heteroseptata* R. F. Castañeda, Guarro & Cano – conidiophore, conidiogenous cell terminal and conidia |
| 7a. *Chlamydopsis proliferans* Hol –Jech & R. F. Castañeda - conidia | 22b. *Uberispora heteroseptata* R. F. Castañeda, Guarro & Cano – conidiogenous cell percurrent with conidium |
| 7b. *Chlamydopsis proliferans* Hol –Jech & R. F. Castañeda – conidiophores with conidiogenous cells terminal | 22c. *Uberispora heteroseptata* R. F. Castañeda, Guarro & Cano – conidium and phialoconidia |
| 8a. *Circinotrichum olivaceum* (Speg.) Piroz - seta | 22d. *Uberispora heteroseptata* R. F. Castañeda, Guarro & Cano - conidia |
| 8b. *Circinotrichum olivaceum* (Speg.) Piroz – setae in group | 23a. *Vermiculariopsiella immersa* (Desm.) Bender – conidiomats with setae and conidia |
| 9a. *Camposporium pellucidum* (Grove) S. Hughes - conidiophore | 23b. *Vermiculariopsiella immersa* (Desm.) Bender – conidiomats with setae and conidia |
| 9b. *Camposporium pellucidum* (Grove) S. Hughes - conidium | 23c. *Vermiculariopsiella immersa* (Desm.) Bender – conidiomats with setae and conidia |
| 10a. *Cryptophiale udagawae* Piroz & Ichinoe – conidiophore setiform | 24a. *Volutella minima* Höhn – conidiomats with setae and conidia |
| 10b. *Cryptophiale udagawae* Piroz & Ichinoe – apical part of conidiophore with conidiogenous conidia | 24b. *Volutella minima* Höhn – conidiomats with setae and conidia |
| 11a. *Cryptophiale minor* M.L. Farr – conidiophores setiform and conidia | 25a. *Wiesneriomyces laurinus* (Tassi) P. M. Kirk – conidiomats with setae and conidia |
| 11b. *Cryptophiale minor* M.L. Farr – conidiophore setiform and conidigenous region | 25b. *Wiesneriomyces laurinus* (Tassi) P. M. Kirk – conidia catenulate |
| 12a. *Gyrothrix circinata* (Berk. & M. A. Curtis) S. Hughes – setae in group | 26. *Periconia minutissima* Corda – conidiophore, conidiogenous cells terminal and conidia |
| 12b. *Gyrothrix circinata* (Berk. & M. A. Curtis) S. Hughes – setae and conidia | 27a. *Pithomyces maydicus* (Sacc.) M. B. Ellis – conidia on detritus |
| 12c. *Gyrothrix circinata* (Berk. & M. A. Curtis) S. Hughes - setae | 27b. *Pithomyces maydicus* (Sacc.) M. B. Ellis - conidia |
| 13a. *Gonytrichum macrocladum* (Sacc.) S. Hughes – conidiophores setiform | 28a. *Epicoccum nigrum* Link - conidia |
| 13b. *Gonytrichum macrocladum* (Sacc.) S. Hughes – conidiophore setiform, conidiogenous cells and conidia | 28b. *Epicoccum nigrum* Link - conidia |
| 14a. *Gyrothrix ramosa* Zucconi & Onofri – setae and conidiogenous cells at the base | 29a. *Thozetella gigantea* B. C. Paulus, Gadek & K. D. Hyde – synnema without synchronous proliferation and conidia in mucilaginous mass. |
| 14b. *Gyrothrix ramosa* Zucconi & Onofri – setae and conidiotenous cels at the base | 29b. *Thozetella gigantea* B. C. Paulus, Gadek & K. D. Hyde – lunate conidia and microawns in L-shaped |
| 15. *Gyrothrix microsperma* (Höhn.) Piroz -setae | 29c. *Thozetella gigantea* B. C. Paulus, Gadek & K. D. Hyde – L-shaped microawns |