

Some new Records of *Mycosphaerella* from India

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With 6 text figures.

During the months of July and August 1958, the writers collected several new species of *Mycosphaerella* from the vicinity of Poona, some of them on important economic hosts. A critical review of literature showed that these species and their hosts have not been previously reported and described. These specimens are now presented as new to science on morphological grounds and host relationship.

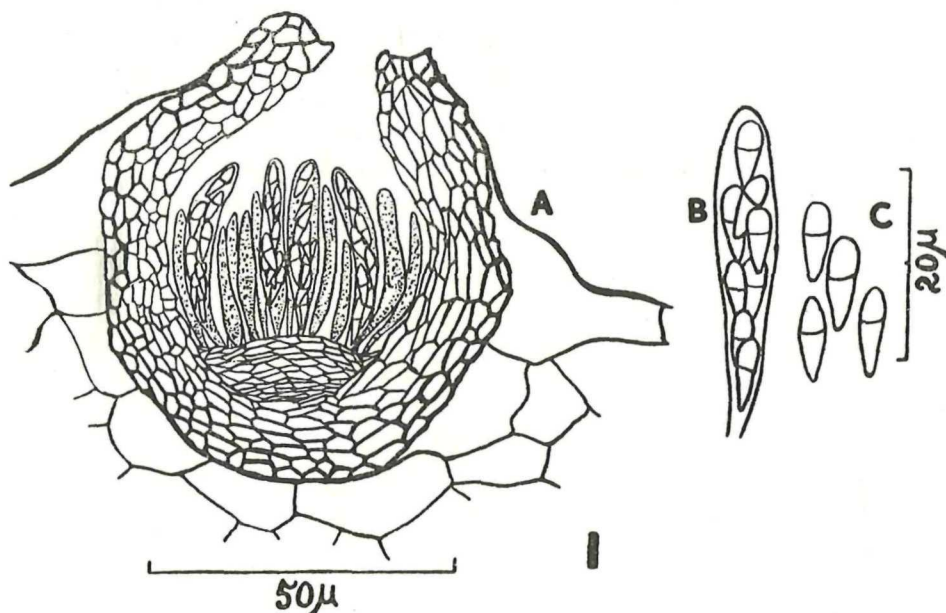


Fig. 1. *Mycosphaerella calotropidis*. A Section through perithecium. B. Ascus with ascospores. C. Ascospores.

1. *Mycosphaerella calotropidis* Viswanathan sp. nov.

Maculae orbiculares, pallide vel fusco-brunneae; perithecia epiphylla, fusco-brunnea, globoso-conica, 58—98 μ diam., ostiolata, ostiolo erumpente 8—12 μ lato, pariete e stratis cellularum 4—6 composito, asci fasciculati, clavato-cylindranei, octospori, aparaphysati, 25—35 \Rightarrow 6—9 μ . Sporae distichae hyalinae, inaequilatae, 1-septatae, 6—10 \Rightarrow 2—3.5 μ .

Typus in foliis viventibus *Calotropidis giganteae*; R. Br. Poona, India, 12. VIII. 1958 leg. T. S. Viswanathan.

2. *Mycosphaerella bombycina* Viswanathan sp. nov.

Perithecia epiphylla, fusco-brunnea, globosa, 62—126 μ diam., ostiolata, ostiolo erumpente, 10—15 μ diam.; pariete e stratis 3—5 cellularum 3—5 composito; asci fasciculati, clavato-cylindranei, octospori, aparaphysati, 27—36 \Rightarrow 3—5 μ . Sporae distichae hyalinae, inaequilatae, 1-septatae, 7—10 \Rightarrow 2 μ .

Typus: in foliis viventibus *Syzygii cumini*; Skeels ad Poona, India, 15. VII. 1958, leg. T. S. Viswanathan.

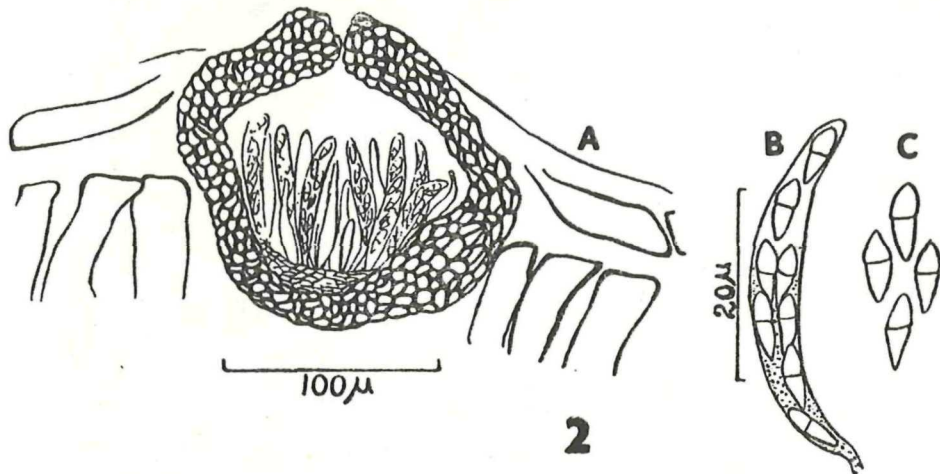


Fig. 2. *Mycosphaerella bombycina*. A. Section through perithecium. B. Ascus with ascospores. C. Ascospores.

3. *Mycosphaerella jasminicola* Viswanathan sp. nov.

Maculae subcirculares vel irregulares, obscure brunneae, margine fusco. Perithecia epiphylla, nonnumquam hypophylla, globosa, brunnea, 55—78 μ diam., ostiolata, ostiolo erumpente 6—8 μ diam., pariete e stratis cellularum 3—5 composito; 3—5 asci fasciculati, clavati,

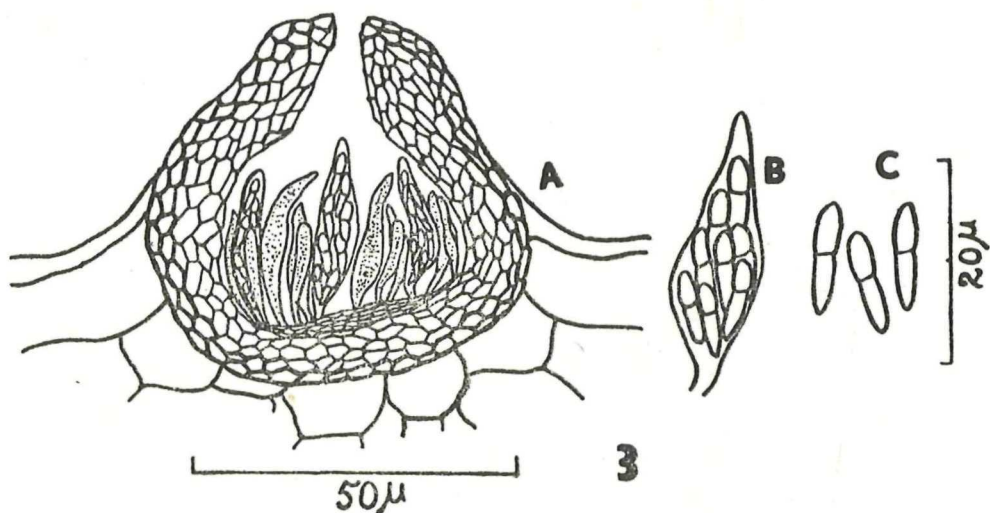


Fig. 3. *Mycosphaerella jasminicola*. A. Section through perithecium. B. Ascus with ascospores. C. Ascospores.

octospori, aparaphysati, $26-34 \approx 6-9 \mu$. Sporae distichae, hyalinae, inaequilatae, 1-septatae, $8-11 \approx 1.5-3 \mu$.

Typus; in foliis viventibus *Jasmini primulini* ad Poona, India 15. VII. 1958, leg. T. S. Viswanathan.

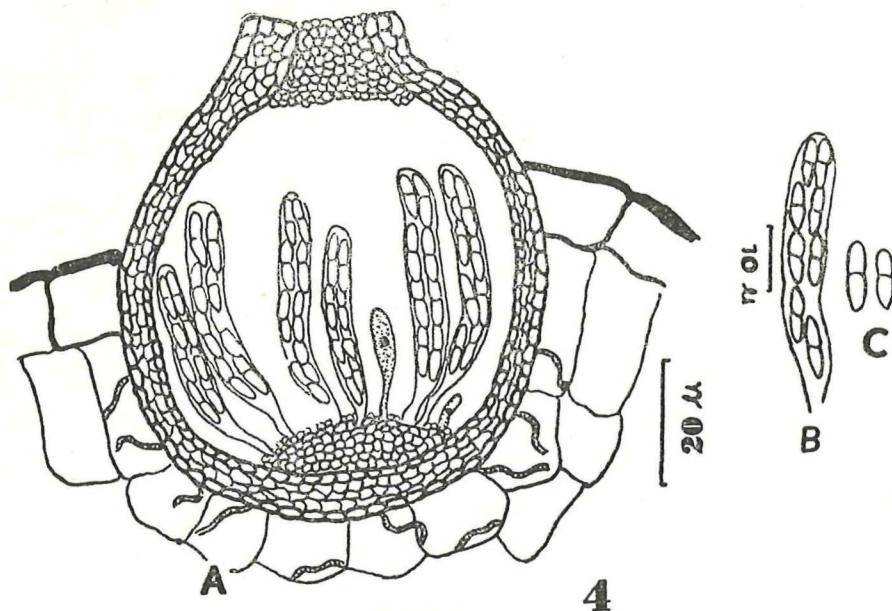


Fig. 4. *Mycosphaerella citricola*. A. Section through perithecium. B. Ascus with ascospores. C. Ascospores.

4. ***Mycosphaerella citricola*** Tilak sp. nov.

Perithecia amphigena, erumpentia, globosa, brunneola, ostiolata, $51-61 \approx 59-68 \mu$; pariete e stratis 2-3 cellularum composito, $5-9 \mu$ crasso; ostiolo papilliformi, $6-8 \mu$ diam., asci, clavati, antice

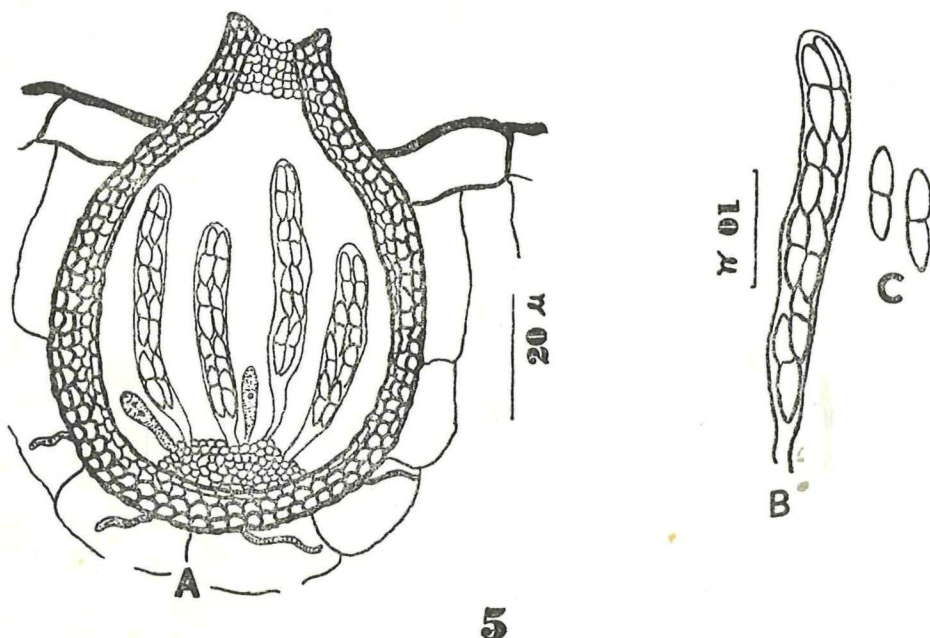


Fig. 5. *Mycosphaerella cassiae*. A. Section through perithecium. B. Ascus with ascospores. C. Ascospores.

rotundati, octospori, $28-34 \approx 5-7 \mu$. Sporae hyalinae, 1-septatae, distichae, $8-10.5 \approx 1.5-2 \mu$. In partibus siccis foliorum viventium.

Typus: in foliis viventibus *Citrus medica* Linn. ad Poona in India, 15. VIII. 1958, leg. S. T. Tilak.

5. *Mycosphaerella cassiae* Tilak sp. nov.

Perithecia amphigena, erumpentia, globosa, brunneola, ostiolata, $55-65 \approx 60-70 \mu$, pariete e stratis 2-3 cellularum composito; ostiolo papilliformi $6-9 \mu$ crasso; asci in superficie pulvinuli basalis fasciculatim oriundi, clavati, antice rotundati, octospori; asci $27-35 \approx 5-8 \mu$. Sporae hyalinae, circa medium septatae, distichae, $8-11 \approx 1.7-2 \mu$.

Typus: in foliis viventibus *Cassia tora* Linn., ad Poona in India 28. VII. 1958, leg. S. T. Tilak.

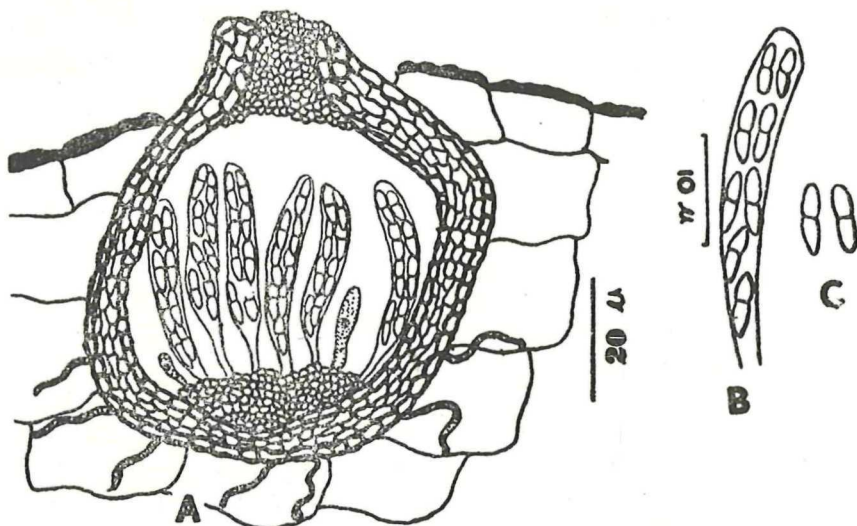


Fig. 6. *Mycosphaerella pandani*. A. Section through perithecium. B. Ascus with ascospores. C. Ascospores.

6. *Mycosphaerella pandani* Tilak sp. nov.

Perithecia hypophylla, immersa, globosa, brunneola, ostiolata, $68-70 \approx 71 \mu$, pariete e cellularum stratis 2-3 composito, brunneolo, Ostiolum papillatum, $8-10 \mu$ diam., asci in superficie pulvinuli basalis oriundi, clavati, antice rotundati, octospori, $30-35 \approx 5-7 \mu$; Sporae hyalinae, distichae, uniseptatae, $6-8 \approx 1.5-2 \mu$, cellula basali latiore; Paraphyses nullae.

Typus: in foliis viventibus *Pandani fascicularis* Lamb., ad Poona in India, 10. VIII. 1958, leg. S. T. Tilak.

The type specimens have been deposited in the Herbarium Cryptogamae Indiae Orientalis, New Delhi, India and in the Herbarium of the Commonwealth Mycological Institute, Kew, England.

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