The Genus Lasiosphaeria in India 1)

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The genus Lasiosphaeria was originally erected by Cesati and de Notaris (1883), with Lasiosphaeria hirsuta (Fr.) Ces., & de Not. as the type species. Ainsworth (1961) recorded 40 species from all over the world. Ellis and Everhart have described 21 species from North America. Munk (1957) recorded 10 species in his flora of Danish pyrenomycetes. However, it remained unrepresented in the Indian flora till Kale (1967) reported Lasiosphaeria indica on dead stems of Bougainvillea spectabilis Willd.

The genus is characterised by superficial, free, ostiolate, setose or smooth perithecia. Asci cylindrical to clavate; apical apparatus as in *Bombardia* Fr. or of a more reduced type with an indistinct ring, 8-spored. Ascospores varying in colour, shape and septation from hyaline, cylindrical, non-septate to couloured, oblong-oval, curved, slightly enlarged towards one end and septate.

During his mycological collections the author came across infected dead stems of *Moringa oleifera* Lam. and *Micranthus oppositifolius* Wendl. After careful studies the fungus on *Micranthus oppositifolius* Wendl. was found to be a species of *Lasiophaeria* Ces. & deNot. new to science whereas the fungus on *Moringa oleifera* Lam. constitutes a new host record for the species.

Lasiosphaeria micranthi sp. nov. — (Fig. 1):

Perithecia black, free to gregarious, superficial, flask-shaped, smooth, 600—825 \times 750—900 μ (Fig. 1 A). Peridial wall brittle. Asci (Fig. 1 B) many, unitunicate, cylindrical, almost sessile or shortly stipitate, paraphysate, octosporous, measuring 133—159 \times 15—22 μ , distinct apical apparatus present. Ascospores (Fig. 1 C) cylindrical, one-celled, slightly curved, guttulate, biseriate to multiseriate, measuring 34—53 \times 5—11 μ .

Latin Diagnosis.

Perithecia singularia vel gregaria, superficialia, ovoidea, leves, $600-825 \times 750-900 \,\mu$; pariete carbonaceo, pseudoparenchymatico; asci numerosi, cylindracei, sessiles vel breviter stipitati, tenuiter tuni-

 $^{^{1}}$) Accepted for publication in 1973 by Dr. F. Petrak.

cati, paraphysati, 8-spori, $133-159\times15-22\,\mu$; sporae distichae vel polystichae, cylindraceae, continuae, leniter curvulae, guttulatae; $34-53\times5-11\,\mu$.

The fungus was collected on dead stems of *Micranthus oppositi-* folius W e n d l. at Castle-rock in the month of Nov. 1971 and desposited at Shri. Shivaji College Parbhani under (UKT 101) and at M.A.C.S. Laboratories Poona under (AMH No. 1737).

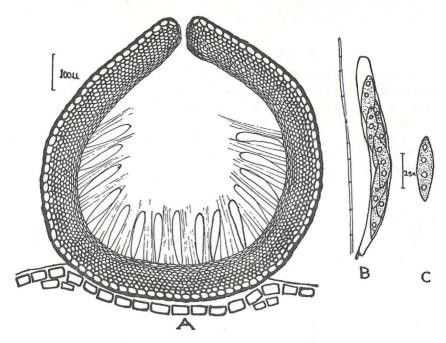


Fig: 1 Lasiosphaeria micranthi: A: V. S. of perithecium, B: Ascus with ascospores, C: Ascospore.

Lasiosphaeria ovina (Pers.) Ces. & De Not.

Perithecia seperate or in groups, superficial, dull black, covered by dense white hyphae, flask shaped, ostiolate measuring from 405—525 \times 300—450 μ . Asci 175—228 \times 11.4—19 μ unitunicate, cylindrical, paraphysate, octosporous. Ascospores 41.8—57 \times 3.8—5.7 μ , hyaline, cylindrical or curved, nonseptate, protoplasm vacuolated, irregularly biseriate, hyaline, appendages messuring up to 27 μ in length, present at both ends.

The fungus was collected on dead stems of *Moringa oleifera* L a m. at Pathri in the month of August 1970 and deposited at Commonwealth Mycological Institute under 155625.

The present collection resembles *Lasiosphaeria ovina* (Pers) Ces. & de Not. and hence is considered as the same. However it is a new host record and reported for the first time from India.

| Key to Indian species of Lasiosphaeria | Ces. | & de | Not. | : | |
|--|--------|------|------|----|--------------|
| A. Ascospores hyaline, appendaged . | | | | | $L.\ ovina.$ |
| B. Ascospores coloured, without appen | dages. | | | | |
| 1. Ascospores nonseptate | | | | L. | micranthi. |
| 2. Ascospores septate | | | | | L. indica. |

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