

Ascomycetes on *Celastrus paniculata* Willd.¹⁾

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During the mycological investigation of the forest fungi of Maharashtra state, the authors came across two ascomycetes on the same host, *Celastrus paniculata* Willd. On critical observation they found

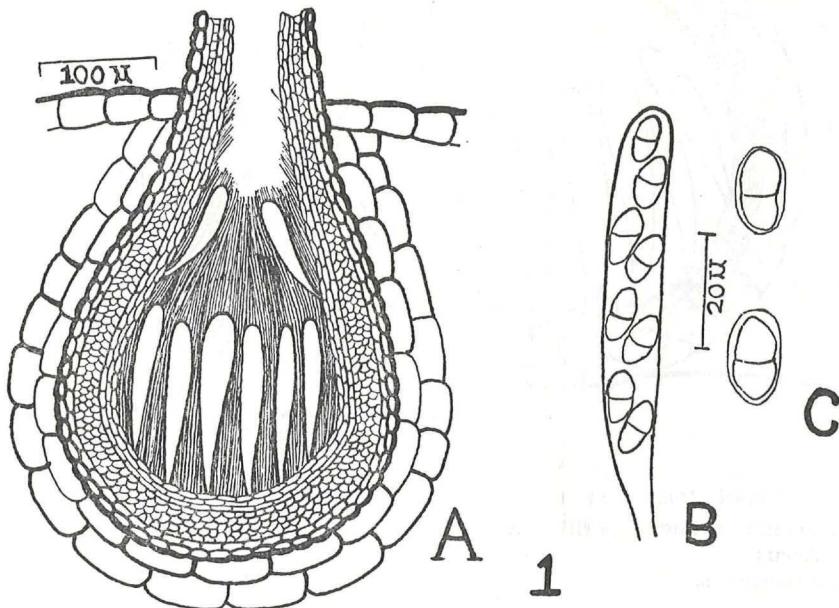


Fig. 1. *Didymosphaeria lonavalensis* Sathe Mogarkar:

- Section through a perithecioid
- An ascus
- Ascospores.

them to be belonging to the genera *Didymosphaeria* and *Lophiostoma* respectively. The present collections differ morphologically from all hitherto described species and are recorded on a new host, hence they are described here as new species.

1) Accepted for publication in 1973 by Dr. F. Petrák.

Didymosphaeria lonavalensis sp. nov.

Perithecia dispersa, omnino innata, ostiolo cylindraceo-conico pertuso, erumpentia, subglobosa, $220-350 \times 180-320 \mu$. Ascii cylindracei, antice late rotundati, postice breviter stipitati, tenuiter tunicati, 8-spori, paraphysati, $65-80 \times 7.2-8 \mu$. Sporae ellipsoideae, utrinque rotundatae, lenissime vel vix attenuatae, rectae, raro inaequilaterae, medio septatae, leniter constrictae, obscure brunneae vel nigrescentes, $12-14 \times 5-7 \mu$.

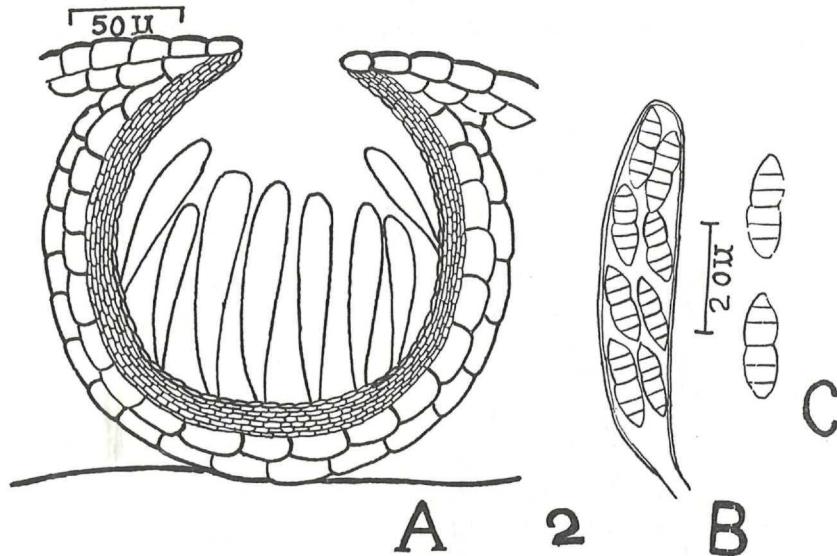


Fig. 2. *Lophiostoma khandalensis* Sathe Mogarkar:

- A. Section through a peritheciun
- B. Ascus
- C. Ascospores.

Perithecia completely embedded in the host tissue, solitary, opening by simple ostiole, measuring from $220-350 \times 180-320 \mu$. Ascii numerous, originating from basal layer, clavate, pedicellate, hyaline, unitunicate, 8-spored, paraphysate, measuring from $65-80 \times 7.2-8 \mu$. Ascospores two-celled, slightly constricted at the septum, dark brown to black, measuring from $12-14 \times 5-7 \mu$.

Collected on dead stem of *Celastrus paniculata* Willd. in the month of May 1971 at Lonavala. Leg. P. G. Sathe and deposited in the herbarium of Maulana Azad College Aurangabad under no. M. H. A. 1094 (Sathe type).

Lophiostoma khandalensis sp. nov.

Perithecia dispersa, omnino innata, ostiolo erumpentia, subglobosa, 280—300 × 260—300 µ. Asci cylindaceo-clavati, antice rotundati, postice breviter stipitati, crassiuscule tunicati, 8-spori, a paraphysati, 78—110 × 10—18 µ. Sporae irregulariter distichae, oblongo-fusiformes, utrinque obtusae, leniter attenuatae, rectae, raro inaequilaterae, 5—6-septatae, medio leniter, ceterum vix constrictae, hyalinae, 35—45 × 3—4.5 µ.

Perithecia completely embedded in the tissue of the host, solitary, opening by a simple ostiole, measuring from 280—300 × 260—360 µ. Asci numerous, hyaline, bitunicate, clavate, pedicellate, 8-spored, a paraphysate, measuring from 78—110 × 10—18 µ. Ascospores irregularly biseriate, fusiform, measuring from 35—45 × 3—4.5 µ. Transverse septa upto 6, no vertical septa, slightly constricted at the middle septum, hyaline.

Collected on dead stem of *Celastrus paniculata* Willd. in the month of May 1971 at Lonavala. Leg. P. G. Sathe and deposited in the herbarium of Maulana Azad College Aurangabad under no. M. H. A. 1095 (Sathe type).

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