

A new Species of *Nodulosphaeria* from India

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(with 1 Figure)

The fungus genus *Nodulosphaeria* was erected by Rabenhorst (1858) with *N. hirta* Rabh. as the type species. This genus was considered as synonym of *Leptosphaeria* Ces. et. de. Not., but the recent extensive studies by Holm (1957) have clearly established the validity of the genus. The relationship of *Nodulosphaeria* Rabh. with *Ophiobolus* Reiss and *Leptosphaeria* Ces. et. de. Not has been discussed by Holm (1957). It however differs from *Leptosphaeria* Ces. et de. Not. in the absence of coloured ascospores and the swollen cell distinguishes it from *Ophiobolus* Reiss. The genus remained unrepresented in the Indian Flora until Muller (1958) described a new species *N. deutziae* Muller on *Deutzia staminea* R. Br. Recently the author collected a similar fungus on *Ailanthus excelsa* Roxb. which on critical examination revealed that it differs considerably from the earlier described species. It is therefore presented as new to science on comparative morphological studies and host relationship.

Nodulosphaeria indica sp. nov.

Ascocarps gregarious, subepidermal, ampulliform, brown, with definite ostiole, $152-304 \times 171-456 \mu$, periphyses hyaline, septate, septa 2-4, Asci numerous, hyaline, subcylindrical, bitunicate,

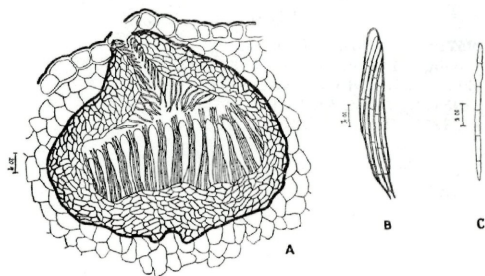


Fig. 1. *Nodulosphaeria indica*. = A. Vertical section of Ascocarp. — B. Ascus. — C. Spore

8-spored, $57-76 \times 5.5-9.5 \mu$, paraphyses hyaline, septate, filiform, septa 2-4, ascospores cylindric, hyaline, pluerisepate, second cell from above nodulated, $40-70 \times 1.5-2.5 \mu$.

On dead stems of *Ailanthus excelsa* Roxb. Leg. R. L. Kulkarni, in the month of February 1969 at Aurangabad.

Peritheria gregaria, subepidermalia globosa, brumea, ostiolo crassiuscule papilliformi, periphysato praedita, $152-304 \times 171-456 \mu$; asci numerosi, cylindraco-clavati, antice lati rotundate, vix vel parum, postice in stipitem brevem attenuati, crassiuscule tunicati, 8-spore, $57-76 \times 5.5-9.5 \mu$; sporae polystichae, anguste fusoidaeae, utrinque leniter sed distincte attenuatae, rectae vel leniter arcuatae, multiseptatae, loculo secundo crassiore et distincte prominulo, hyalinae, $40-70 \times 1.5-2.5 \mu$; paraphyses numerosae, filiformes, 2-4-septatae.

Comparative table of species of *Nodulosphaeria* Rabh.

Species.	Ascocarp.	Asci.	Ascospores.
<i>N. derasa</i> Holm.	(-)	(110 × 14)	(45 × 4,5)
<i>N. deutziae</i> Muller.	(400-600 × -)	(200-230 × 10-12)	(190-210 × 2,5-3)
<i>N. indica</i> sp. nov.	(152-304 × 171-456)	(57-76 × 5,5-9,5)	(40-72 × 1,5-2,5)

The above clearly indicates that, the present species differs in all morphological features from other related species.

The type specimen has been deposited in the Cryptogamia Indiae Orientalia, New Delhi, under the Accession No. 29451.

Acknowledgement

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Literature

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ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Sydowia](#)

Jahr/Year: 1970/1971

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