

## SOME LEAFSPOT DISEASES

DURING the year 1959-60, the authors isolated about six dozen fungi responsible for various leafspot diseases at Allahabad and its neighbourhood. In the present list only those leafspot diseases are included which have not been reported from our country. They have also not been incorporated in any of the lists of Indian fungi<sup>1-3,5</sup> published so far.

The records are summarized in Table I.

The range of the conidial size of the above organisms generally agrees with the range reported for the parent types. Slight variations were, however, observed for *Pestalotiopsis versicolor* where the range of the conidial length was slightly less. The setæ of *Colletotrichum*

TABLE I  
Leafspot diseases; hosts, causal organisms, and size of the conidia

Name of the host	Name of the pathogen	Size and shape of the conidia
1. <i>Kigelia binnata</i>	.. <i>Phyllosticta kigelia</i> Died.	9.1-13.3 × 4.4-6.2 μ, hyaline, ellipsoidal, slightly globose
2. <i>Eriobotrya japonica</i>	.. <i>Phyllosticta eriobotryæ</i> Thuem.	4.9-7.0 × 2.6-3.0 μ, lightly grayish in colour and ellipsoidal in shape
3. <i>Heliconia rubra</i>	.. * <i>Phyllosticta dardanoi</i> Batista * <i>Fusarium sambucinum</i> Fuckel	2.3-5 × 1-1.5 μ, hyaline, very small and ellipsoidal Macroconidia → 18.7-23.1 × 5.4-7.5 μ, hyaline, fusiform, pointed at both the ends. Microconidia → 3.5 × 1.5-2 μ hyaline
4. <i>Sansevieria macrophylla</i>	.. * <i>Fusarium semitectum</i> Berk. and Rav.	Macroconidia → 11.7-18.2 × 2.6-4.1 μ, pale, sub-clavate, now and then abruptly inflated Microconidia → 3.6-5.4 × 1.5-2.6 μ, hyaline
5. <i>Eugenia jambolana</i>	.. * <i>Pestalotiopsis versicolor</i> (Speg.) Stey.	17-24.7 × 6.8-10.0 μ, coloured cells versicoloured, apical cell with 2-3 setulæ
6. <i>Quisqualis indica</i>	.. * <i>Colletotrichum capsici</i> (Syd.) Butler and Bisby	19-24 × 3.5-5 μ, hyaline, setæ very long
7. <i>Dracæna terminalis</i>	.. * <i>Dictyoarthrinium sacchari</i> (Stevenson) Damon	11-13 × 9-12 μ, dark brown, mostly four celled arranged in cross-like divisions, very rough wall
8. <i>Elettaria cordamomum</i>	.. * <i>Nigrospora oryzae</i> (Berk. and Br.) Petch	13-15.6 × 8.8-13 μ, black with a hyaline vesicle at the base which may be present or absent
9. <i>Bassia latifolia</i>	.. do.	15.9-18.2 × 13-15.6 μ, dark brown or black, vesicle may be present or absent, a highly sporulating form

*capsici* were generally longer. The conidia of *Nigrospora oryzae* (isolated from the leaves of *Bassia latifolia*) were remarkable for their larger size and variable shape. The three species of *Phyllosticta* have not been reported from India on any host.

The cultures of the fungi marked (\*) have been deposited in Commonwealth Mycological Institute, Kew.

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Botany Department,  
Allahabad University,  
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R. N. TANDON.  
K. S. BILGRAMI.

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