## IJPS INTERNATIONAL JOURNAL OF PLANT SCIENCES Volume 7 | Issue 1 | January, 2012 | 197-198

RESEARCH NOTE

## Diversity of foliicolous fungi from North Central Tarai forests of U.P. (India)

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## **SUMMARY**

An extencive survey of North Central Tarai Forests of U.P. were made for foliar fungi during May, 2010 to July, 2011. A total of four hundred specimens were collected on angiospermic hosts. From these 26 angiospermic plant species representing 23 genera and 18 families were found infected by thirty fungal species representing 18 fungal genera which are additions to the list all ready communicated for publications.

Key Words: Foliicolous fungi, North central, Tarai forest

How to cite this article: Mall, T. P. (2012). Diversity of foliicolous fungi from North Central Tarai forests of U.P. (India).

Internat. J. Plant Sci., 7 (1): 197-198.

Article chronicle: Received: 08.10.2011; Accepted: 10.12.2011

The leaves provide a very suitable habitat for the growth and development of fungal pathogen by providing ample surface area and nutrient supply. Such leaf inhabiting fungi are known as follicolous fungi and invaded area of the leaf appear as leaf spot or leaf lesions. Taxonomic studies of such fungal forms have been generally considered as only of academic interest, taxonomic treatment of a fungal organism in the first requirement for any studies concerning its biology. Correct identification of a fungus absolutely free from ambiguities is vital for its employment in applied disciplines. Infact without being equipped for ascertaining the correct identity of a fungul pathogen all studies concerning its phytologocal aspects would be misleading. The weed and forest plants serve as reservoirs of leaf spot pathogens which on getting opportunity may spread to agriculture and horticulture plants. Keeping this in view, the author surved the North Central Tarai forest fo UP which include East and West Sohelwa, Shrawasti, Bahraich forest range and Bahraich Wildlife Santury during May, 2010 - July, 2011.

During collection, infected leaf samples were taken in separate polythene bags. Suitable mounts of surface scrapping and hand cut sections were prepared from infected portions

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of the leaf sampls. Slides were prepared in cotton blue lactophenol mixture, slides were examined and camera lucida drawings were made which seems to be new. Morphotaxonomic determinations of taxa were done with the help of current litretature and resident expertise available. All the fungal taxon were identified after making microscopic preparations and later confirmed by Prof. Kamal, Emeritus Scientist (DST), DDU Gorakhpur University, Gorakhpur.

The author surveyed periodically the forest from Sohelwa East Forest to Katarniaghat Wildlife Sanctury during May, 2010 - July, 2011 so as to collect and document foliicolous fungi. The present report is an addition to the allready collected fungal list found on several host plant. The author collected twenty six angiospermic plant species representing twenty three genera and eighteen familes parasitized by thirty fungal species which belong to eighteen fungal genera. The fungal holotype specimen were deposited in HCIO, IARI, New Delhi.

Adina cardifolia Hook f. (Rubiaceae) was found infected with Cercospora adinia Srivastava et al. where as Anona squamosa Linn. (Anonaceae) with Botryodiplidia theobromae Pat. Apud, Pat and Legerth, Artocarpus heterophyllus Lamk (Moraceae) with Cladosporium artocari Kulhare and Singh and Rhizoctonia solani Kuhn, Bauhinia purpurea Linn. (Fabaceae) with Phoma sp. Desm., B. Vahlii W. and A. (Fabaceae) with Alternaria bauhiniae Singh and