

Rust diseases and trees of forest of Jalgaon District

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Manuscript details:

Available online on
<http://www.ijlsci.in>

ISSN: 2320-964X (Online)
ISSN: 2320-7817 (Print)

Cite this article as:

Kamble Vijay Mahadeorao and Firdousi SA (2019) Rust diseases and trees of forest of Jalgaon District, *Int. J. of Life Sciences*, Special Issue, A13:294-295.

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ABSTRACT

During the survey of rust fungal diseases of trees of the forest and Jalgaon district, ten rust diseases were found with different host. The rust fungi were *Ravenila sessilis*, *R. indica*, *R. emblicae*, *Uredo* sp, *Cerotelium*, *fici*, *Koechneola flacourtia*, *Olivea*, *tectonae*, *olivea terminaliae*, *Ravenalia hobsonii* and *Marvelia archoo*.

Key words: Forest, *Ravenila sessilis*, *Uredo* sp., *Olivea tectonae* and *O. terminaliae*.

INTRODUCTION

The forest of Jalgaon in tropical dry deciduous types. The vegetation varies with changes in altitudes, topography and rainfall. There are various subtypes of forest in this area. These are many parasitic fungi causing various types of foliage disease in the forest of this area.

The Geographical area of Jalgaon is 11765 Sq. kms. and the total forest area is 1991 Sq. Kms. The most of the forest of Jalgaon lies on the satpuda range in the Jalgaon district.

The Fungi play an important role in various diseases and are responsible for great loss. Many diseases like leaf spot, leaf blight, leaf rust, shot hole, and marginal infection. They cause yearly leaf fall. Most of the fungi are foliicolous and belong to the Cercospora allied complex and coelomycetes.

MATERIAL AND METHODS

A frequent, extensive and intensive survey was made to collect the phytopathogenic fungi infecting the leaves in the different forest sites of Jalgaon forest. The symptomatology and other information such as place of collection, locality, local name of the plants, their families, date of collection were noted in the field diary. The samples were kept in polythene bags and carried to the laboratories for identification. The pathogens were identified with the help of various monographs, reviews, books and research papers. Monographs of *Cercospora* and dematiaceous hyphomycetes.

Table 1:

Sr. No.	Host	Pathogen	Symptom	Place
1	Albizia Lebbeck	Ravenelia sessilis	Brown rusty spot with lower side	Road side plantation Jalgaon
2	A. procera	R. indica	Brown rusty spot with lower side	Road side plantation Jalgaon
3	Emblica officinalis	Ravencia emblica	Brown rusty spot with lower side	Manudevi forest
4	Emblica officinalis	Uredosp	Brown rusty spot with lower side	Manudevi forest
5	Ficus carica	Cerotelium fici	Brown rusty spot with lower side	Yawal forest
6	Flacourtia Indica	Kochneola flacourtae	Brown rust spot in the lour	Manudevi forest
7	Tectona Grandis	Olivea techonae	Brown rust spot in the lour	Yawal forest
8	Terminalia Arjuna	Uredo terminaliae	Brown rust spot in the lour	Pal forest
9	Pongamia Pinnata	Ravanelia hobsonii	Black rust spot with lower side	Road side plantation Jalgaon
10	Dalber gia sisso	Marvalia achroo	Black rust spot with lower side	Road side plantation Jalgaon

CONCLUSION

In the present study ten types of rust disease of different host are collected and identified. Ravenelia has four species, Uredo, two species, Cerotelium one species, Kochneola one species, Marvalia one species. In Manudevi forest four rust diseases, Yawal forest two diseases, Pal forest one disease and Road side plantation in Jalgaon four diseases had been investigated. Most of the diseases occur in winter season.

Acknowledgement: Authors are thankful to the principal of the respective college for providing laboratory facilities and support.

Conflicts of interest: The authors stated that no conflicts of interest.

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