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# FIRST REPORT OF THE BASIDIOMYCETES FUNGI OF EAST NIMAR REGION MADHYA PRADESH

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## ABSTRACT

The paper deals with enumeration of 25 fungal taxa collected from Nimar region of Madhya Pradesh 2015 – 17.

**Key words**: Mycology, Polyporales, Mushrooms, rusts and smuts

## INTRODUCTION

East Nimar region comprises of two districts namely Khandwa and Burhanpur. It is situated between $21^0$ 5' – $22^0$ 25' N and $75^0$ 57' - $77^0$ 13' E. The external feature of land appears roughly like a crown with its apex in the east and base in the west. It is bounded on east by Betul, Hoshangabad (Harda) districts and Amravati district (Maharashtra) district. On the south by Jalgaon, Buldhana and Amravati (Maharashtra), on west by West Nimar district and in north by Dewas district. The maximum and minimum height of this region above MSL is 905.05 m and 180.0 m respectively. The average annual rainfall is 701.76 mm and highest rainfall occurs in the months of June-July. The minimum and maximum temperature ranges in summer 10.59 $^O$C to 40.37 $^O$C.

The forest type is mainly Tropical dry deciduous teak forest having very rich floristic diversity. Rich flora is found especially in Kalibhit, Punasa, Haidarpur, Telyababa, Sundardev and Matabedi etc. We have visited the above mentioned areas for the last three years and found a number of fungi growing profusely. Therefore these areas should be unexplored.

## MATERIAL AND METHODS

The various fungi collected from different location were identified after consulting the recent literature (Bilgrami *et.*al, 1979; Ali *et.*al, 1980; Chowdhary, 1966 and Mehrotra, 1980) Fungal taxa are arranged in order three classes of fungi, the diseases caused by which fungi are indicated together with their hosts (Table 1).

Table 1: Taxonomic enumeration of various taxa of the Division- Basidiomycotina collected from various parts of East Nimar region.

| S.No. | Name of class & Orders | Family | Name of Fungal taxa |
|---|---|---|---|
| **A.** | **Class – Teliomycetes** | | |
| 1. | Order – Uredinales | Melampsoraceae | Melampsora lini (On lin seed) |
| 2. | | Pucciniaceae | Puccinia graminis (On wheat ) |

| | | | |
|---|---|---|---|
| 3. | | | Puccinia heteronspora (On Side Sp.) |
| 4. | | | Ravinelia (On siris ) |
| 5. | | | Uromyces |
| 6. | Order - Ustilaginales | Ustilaginaceae | Ustilago cyodontae ( on doob) |
| 7. | | | U. maydis (on maize ) |
| 8. | | | U. scitaminae (on sugarcane) |
| 9. | | | U. tritici (on wheat) |
| 10. | | | Sphacelotheca sorghi (grain smut on jowar) |
| 11. | | | Sphacelotheca reliiana (head smut on jowar) |
| 12. | | Tilletiaceae | Tilletia (on wheat) |
| **B.** | **Class- Hymenomycetes** | | |
| 13. | Order Aphyllophorales | Cantharellaceae | Centharellus cibarius |
| 14. | | Hydnaceae | Hydnum |
| 15. | Order - Polyporales | Cantahrellaceae | Cantharellus |
| 16. | | Polyporaceae | Daedalea |
| 17. | | | Irpex |
| 18. | | | Polyporus |
| 19. | | | Trametes |
| 20. | Order - Agaricales | Amanitaceae | Amanitacaesarea |
| 21. | | | Volvariellla |
| 22. | | Agaricaceae | Agaricus campestris |
| 23. | | Paxillaceae | Paxillus |
| **C.** | **Class – Gasteromycetes** | | |
| 24. | Order - Podaxales | Podaxaceae | Podaxis |
| 25. | Order - Lycoperdales | Lycoperdaceae | Lycoperdon |

## RESULTS AND DISCUSSION

From Table 1, it is revealed that various Parasitic fungi attack different crop plants of this region in both Kharif and Rabi seasons. In addition some edible and poisonous fungi have also been collected during our survey. In the present work in all 25 fungal taxa belonging to 20 genera and 13 families have been reported from various localities.

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## REFERENCES

1. Ali, S.S and M.L. Sonar; 1985. Fungal of Chhattisgarh. Chhattisgarh Botanical, Association, Raipur, India.

2. Bilgrami, K.S.; Jamaluddin and Rizvi, M.A.; 1979. Fungi of India 1979 and 1981 (Part I and II) Today Tomorrow publications, New Delhi.

3. howdhary, S. R.; 1966; Notes on fungi occurring at Raipur, M.P. – I Proc. Nat. Acad. Sci., 37 B: 296-302.

4. Mahajan, S. K. and T. Sapru 1989; Mycoflora of Khargone, Madhya Pradesh, Proc. 76$^{th}$ Ind. ScI. Cong. Part III Madurai, Abst. P – 42.

5. Mehrotra, R. S. 1980; Plant Pathology, Tata Mc Graw – Hill Publishing Co., New Delhi.